

MISSISSIPPI STATE GEOLOGICAL SURVEY

WILLIAM CLIFFORD MORSE, Ph.D.
Director



BULLETIN 77

WATER LEVELS AND ARTESIAN PRESSURES IN OBSERVATION WELLS IN MISSISSIPPI, 1938-1952

Prepared by TRACY W. LUSK, M.S.

1938-1947

By

THE MISSISSIPPI STATE GEOLOGICAL SURVEY
and THE UNITED STATES GEOLOGICAL SURVEY

1948-1952

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THE MISSISSIPPI STATE GEOLOGICAL SURVEY

UNIVERSITY, MISSISSIPPI
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MISSISSIPPI GEOLOGICAL SURVEY

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LETTER OF TRANSMITTAL

Office of the State Geological Survey
University, Mississippi
July 31, 1953

To His Excellency,
Governor Hugh L. White, Chairman, and
Members of the Geological Commission

Gentlemen:

Herewith is a report entitled "Water Levels and Artesian Pressures in Observation Wells in Mississippi, 1938-1952," by Tracy W. Lusk—the manuscript for Bulletin 77.

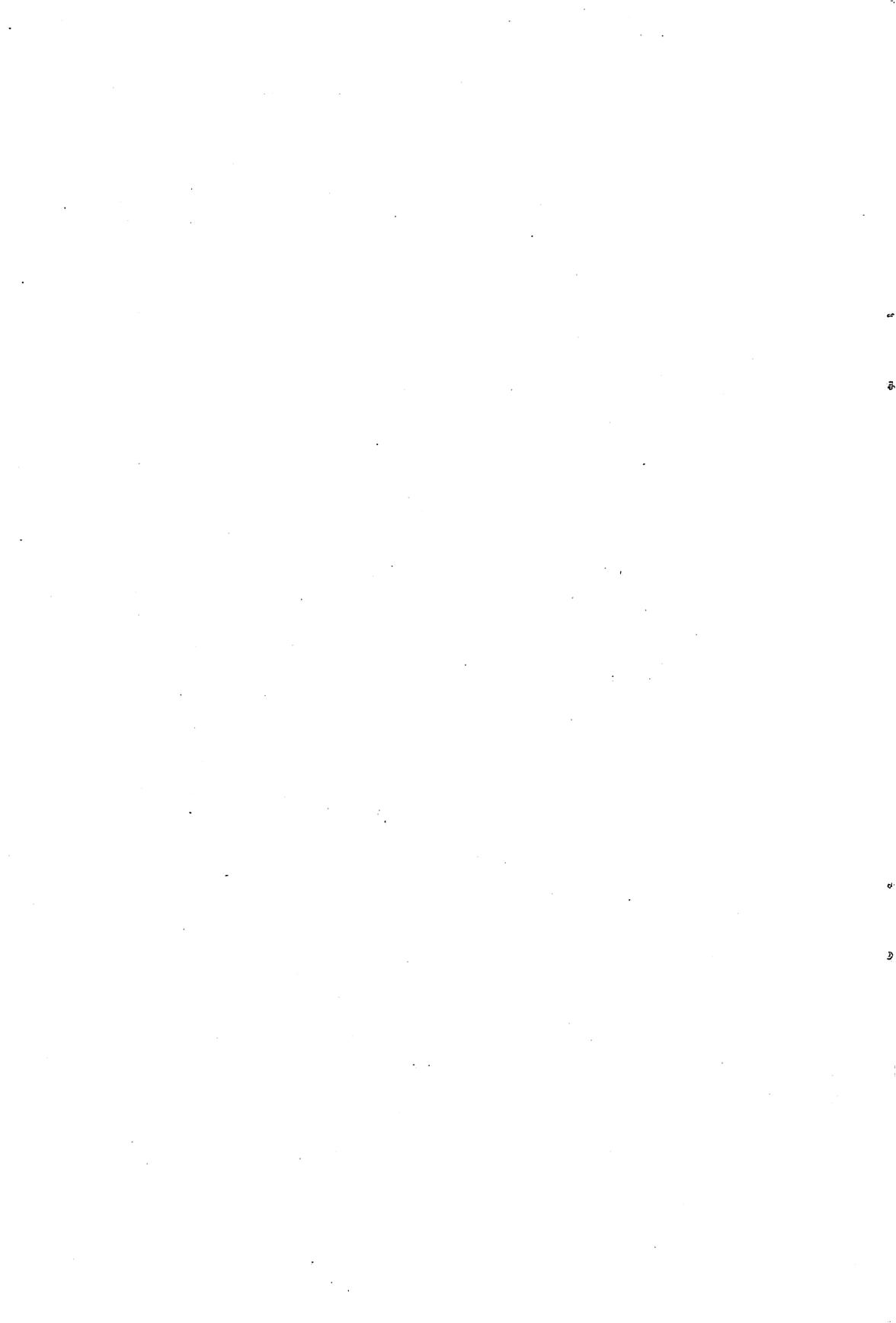
The paper covers the cooperative Ground Water investigations by the Mississippi State Geological Survey and the U. S. Geological Survey during 1938-1947, results of which were published by the Federal Survey as a page or so in each of their annual regional reports of a number of states. The report also covers the investigations by the State Geological Survey alone during 1948-1952, heretofore unpublished.

The report has been compiled and prepared to make available, particularly to the Citizens of Mississippi who authorized through their State Legislature and who are paying for the investigations, the information in each of the ten annual bulletins of the Federal Survey.

In addition to quoted summaries and records of these ten annual bulletins, 1938-1947, Mississippi State Geological Survey Bulletin 77 contains the unpublished records of 1948-1952 investigations. Bulletin 77 should be especially valuable and convenient not only to Mississippians but to any prospective industry interested in locating in Mississippi.

Very sincerely yours,

William Clifford Morse
Director and State Geologist



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WATER LEVELS AND ARTESIAN PRESSURES IN OBSERVATION WELLS IN MISSISSIPPI,

1938-1952

TRACY W. LUSK

INTRODUCTION

Ground-Water studies during the period 1938-1947 were under the direction of various U. S. Geological Survey Geologists in cooperation with the Mississippi State Geological Survey, William Clifford Morse, Director. The records were published annually in a series of U. S. Water-Supply Papers. In order that the information be more accessible, the present State Survey bulletin has been compiled. It includes the data from each of the Water-Supply Papers and, in addition, the unpublished records of 1948 to 1952 inclusive.

The summaries of the 1938-1947 Water-Supply Papers are herein quoted. The 1938-1947 records as well as the unpublished records of 1948-1952 follow.

SUMMARIES 1938-1947

VARIOUS AUTHORS

1938—Glen F. Brown. The first brief annual cooperative report, published in U. S. Geological Survey Water-Supply Paper 845, pages 161, 162, states:

“The Federal Geological Survey in cooperation with the Mississippi Geological Survey made measurements of artesian pressure and water level in wells in the Mississippi alluvial plain during 1938 as part of an investigation of the ground water of the State. During the last 4 months of the year static-pressure measurements were made on 470 artesian wells in the eastern part of the alluvial plain. Depths to the water level were also measured in 5 shallow wells in the same area. In 1939, observations will be extended throughout the State.

“The Mississippi alluvial plain is a part of the Gulf Coastal Plain, and in Mississippi it is a physiographic district known locally as the ‘Yazoo delta.’ It is a part of the Mississippi embayment. Artesian water is obtained from several permeable strata, mostly sand members or smaller lenses of the Wilcox and

Claiborne groups of Eocene age that underlie from 80 to about 200 feet of river-laid alluvium.¹

"The first flowing artesian well in the Mississippi alluvial plain was completed in May 1895 at Greenwood, Miss. Since then artesian wells have been developed to supply all towns and most of the small communities. A large supply of nonartesian water is available, however, and is the source of water for many shallow-driven wells. It is used not only for domestic consumption but also for cooling purposes and fire protection in a few large industrial and power plants. The artesian wells range in depth from about 80 feet in Carroll County, at the eastern edge of the area, to about 1900 feet in the central part of the alluvial plain. They are mostly 2 and 3 inches in diameter. Wells that are 10 and 12 inches in diameter furnish all or part of the municipal supply for the large towns. Measurements made in 1938 indicate that the static heads in artesian wells range from a minimum of about 1 foot below the land surface to a maximum of 130.5 feet above it. The maximum static pressure head may be the largest in the Gulf Coastal Plain.

"Water-Supply Paper 576, the most comprehensive report of the ground-water resources of the State, contains records of water level and artesian pressure prior to 1928. A comparison of these records with those of 1938 indicates, as shown in the following table, that there has been an appreciable decline in artesian pressure in several localities.

"The altitudes of measuring points, wherever indicated in the following list, were determined by hand leveling from the nearest benchmark. Flowing wells were stopped for 10 minutes before measurement of the static head, except at Humphreys well 4, which was closed for 25 minutes before measurement."

1939—G. F. Brown and V. M. Foster. U. S. Geological Survey Water-Supply Paper 886, pages 280, 281, contains the following discussion of water-level measurements:

"The State-wide investigation of water levels in wells begun in 1938 by the Federal Geological Survey in cooperation with

¹ Stephenson, L. W., Logan, W. N., and Waring, G. A., The Ground-water resources of Mississippi: U. S. Geol. Survey Water-Supply Paper 576, p. 9, 1928.

the Mississippi Geological Survey was continued during 1939. Most of the measurements were made in wells in counties near the Gulf Coast and in the Mississippi alluvial plain in northwestern Mississippi, but a few were made in wells in the loess hills and in the north-central hills east of the alluvial plain.

“The observation-well program at the end of 1939 included 25 wells, on 6 of which water-level recorders were operated. Of the water-level recorders in operation at the end of the year, four are of the pressure type and two are of the float type.

“A progress report describing general ground-water conditions in the alluvial plain and on the Gulf Coast was submitted to the State Planning Commission, Jackson, Miss., and to the State Geologist, Oxford, Miss.

“The water levels in wells at Belzoni, in the south-central part of the alluvial plain, fell 1.8 feet from May to October, when the lowest stages of the year were recorded. Water levels recovered 0.6 foot from October to the end of December. The fluctuations of water levels in wells at Marks, in the northern part of the alluvial plain, were similar to those at Belzoni, except that the lowest levels were recorded in November. The water level in well LeFlore 134, at Greenwood, declined 9.24 feet from June 5 to September 10. During this period 1,100 gallons a minute was pumped nearly continuously from a well that is 0.6 mile southwest of the observation well and that penetrated the same kind of sand as that which surrounds the observation well. From September 10 to the end of the year the pump on the well close by was not operated, and the water level rose approximately to its level in June. The lowest water levels in wells at Gulfport were recorded in September.

“The information obtained thus far on water levels in Mississippi shows a general decline in artesian pressure when compared with the measurements reported in Water-Supply Paper 576. Water levels appear to have fallen several tens of feet during the past 30 years, both in the alluvial plain and along the coast. Although the decline appears to have been greatest in areas of heavy withdrawal, measurements made in connection with the present investigation have not been carried on for a sufficient period to indicate the present trends of water levels.”

1940—V. M. Foster and G. F. Brown. Investigations were expanded during the third year of the cooperation, and the results, published in U. S. Geological Survey Water-Supply Paper 907, pages 59-61, are quoted below:

“The State-wide investigation of water levels in wells, which was begun in 1938, was continued in 1940 by the Federal Geological Survey in cooperation with the Mississippi Geological Survey. A study was also made of the major aquifers in the Mississippi alluvial plain and the coastal counties. The inventory of wells was expanded to include representative wells in the area of Cretaceous formations in northeastern Mississippi, and in the heavily pumped area near Laurel and Hattiesburg, in southeastern Mississippi. The observation well program was expanded to include 45 wells. Water-stage recorders were in operation on 11 of the wells at the end of 1940.

“In the Mississippi alluvial plain in northwestern Mississippi the water levels in wells in 1940 were the highest of the three years of record. At the end of the year the water level in Washington 70, at Hollandale, was 5.78 feet above the highest recorded level in 1939. The annual low stage, which occurs in late fall, was 3.65 feet above the low stage of the previous year. The seasonal fluctuations, characteristically shown by high water levels in early spring and low water levels in late fall or early winter, were obscured during 1940 because of recharge from heavy rainfall. Thus, at Marks, in the northern part of the alluvial plain, the lowest fall stage, which occurred in November, was only 0.3 foot below the stage at the end of June.

“The industrial and municipal water supplies of northeastern Mississippi are derived almost entirely from aquifers in the lower parts of the Eutaw and Tuscaloosa formations, although some wells in Tippah, Union, and Pontotoc Counties obtain water from the Ripley formation. Most domestic supplies are obtained from dug or bored wells that tap unconfined water. Where the Selma chalk is at or near the surface, however, most of the domestic wells tap water in the Coffee sand or in the upper part of the Eutaw formation. A comparison between records of water level given in Geological Survey Water-Supply Paper 576 and measurements of water level made in connection with the present investigation shows that a general decline in water level has taken place. This is confirmed by reports of drillers and owners of

wells. The declines of water level have apparently been greatest in areas of heavy withdrawals, averaging 15 to 20 feet in the last 20 years. The greatest decline has occurred at Tupelo, where 700,000 gallons or more are pumped daily from an aquifer near the base of the Eutaw formation. This withdrawal, which is made from an area of about 1 square mile, has lowered the water level at Tupelo approximately 60 feet since 1919.

“The decline of the water levels in areas where the withdrawals from wells have been light has apparently been much less than in areas where the withdrawals have been heavy. The water levels in wells at State College, which tap an aquifer near the base of the Eutaw formation from which the withdrawal since 1929 has been small, are now less than 6 feet below the levels reported in Water-Supply Paper 576. During 1940 the water levels in this area declined about 1 foot from June to September, but rose 1.05 feet from September to the end of December.

“In the Laurel-Hattiesburg district of southeastern Mississippi, the industrial and municipal water supplies are obtained from two aquifers in the Catahoula sandstone and one aquifer in the Hattiesburg formation. Wells in the deep valleys yield strong flows but wells on the high lands between the major streams and in an area of heavy withdrawal near Laurel must be pumped. Domestic supplies in rural areas are derived chiefly from dug or bored wells that tap unconfined water. A few of the domestic wells are drilled.

“At Laurel, approximately 4,500,000 gallons a day are withdrawn from the upper sand in the Catahoula sandstone and 3,500,000 gallons a day are withdrawn from the lower sand. The decline in water level in the upper sand resulting from the heavy draft has been approximately 125 feet since 1911. The head in wells tapping the lower sand at Laurel declined approximately 18 feet from 1926 to 1936, and 52 feet from 1936 to 1940, according to Mr. J. H. Miller, chief engineer at the Laurel pumping plant. Water levels in the lower sand declined 25.8 feet from May to August 1940, but recovered 27.9 feet by the end of the year.

“At Hattiesburg, approximately 7,000,000 gallons a day are withdrawn from two aquifers, the ‘400-foot sand’ at the base of the Hattiesburg formation, and the ‘600-foot sand’ near the top

of the Catahoula sandstone. The withdrawals from the aquifers and the head of the water in them are about the same. Comparisons with water levels reported in Water-Supply Paper 576 indicate a lowering of artesian pressure of 15 feet or more since 1916.

“Water levels in wells to the ‘1200-foot sand’ at Gulfport averaged 0.8 foot lower in 1940 than in 1939, and a comparison of present water levels with those reported in Water-Supply Paper 576 shows a decline of approximately 45 feet since 1911. The highest and lowest levels in 1940 were recorded within a two-weeks period of severely cold weather during which the city wells were alternately pumped to capacity and closed down. The maximum variation in water level was 11.1 feet.

“Water levels in wells to the ‘900-foot sand’ near Ocean Springs declined 4.5 feet from March to November and recovered 1.0 foot by the end of the year.”

1941—R. W. Adams and G. F. Brown. The following summation of water-level fluctuations in the observation wells is from U. S. Geological Survey Water-Supply Paper 937, pages 65, 66:

“Water-level measurements in 42 key observation wells were continued in Mississippi during 1941 as part of the ground-water investigations conducted by the Federal Geological Survey in cooperation with the Mississippi Geological Survey. Water-stage recorders — 5 pressure-type and 6 float-type — furnished nearly continuous records of the water-level fluctuations in 11 wells. Monthly or seasonal measurements were made in 31 additional wells during the year.

“Records of the United States Weather Bureau show that the annual precipitation in Mississippi was 6.5 inches below the average. July and October were the only months in which the precipitation was more than normal. Water levels in wells declined generally, but increased consumption rather than sub-normal precipitation was the dominant cause of the lowering in many places, including the Hattiesburg and Laurel areas.

“The water level in the municipal observation well at Hattiesburg declined 2.45 feet during the period from January to late September, and rose about 1 foot during the remainder of

the year. The decline apparently was caused, in part, by the increase in quantity of water pumped, and the rise was due to a decrease in consumption which occurred when water meters were installed in the city.

“Heavy pumpage continued to lower water levels in the upper Catahoula sand at Laurel. The average low stage for December was 5.9 feet below the average low stage for December 1940.

“In the alluvial plain of the Mississippi River in northwest Mississippi the water levels declined below the stages of 1940 in 15 of 22 observation wells that are measured periodically. No noticeable trend was shown by 3 wells, and the water levels rose in 5 wells. At the end of the year the largest measured decline was 8.3 feet in Humphreys 10, which penetrates a sand that contains water under sufficient pressure to rise 100 feet above the land surface. The water level in Quitman 15, in the northern part of the alluvial plain, was 1.5 feet lower than at the end of 1940, whereas the water level continued to rise in Washington 70, the weekly lows for November being 0.42 feet higher than the corresponding levels of the preceding year.”

1942—R. W. Adams. The annual cooperative report included in U. S. Geological Survey Water-Supply Paper 945, page 84, states:

“The observation-well program in Mississippi, begun in 1938, was continued in 1942 by the Geological Survey, United States Department of the Interior, and the Mississippi Geological Survey. Water-stage recorders, which furnished continuous records of the fluctuations of water level, were maintained at 9 wells during part or all of the year, and periodic measurements were made in 31 wells. In addition, numerous measurements were made in wells at military establishments.

“The water level in the municipal well at Hattiesburg, Forrest County, reached, during the week ending August 8, the lowest stage obtained in the 3-year period of record, but at the end of the year it was rising. The net decline of the water level in 1942 was undoubtedly due to the unusually dry autumn and the large withdrawals at Hattiesburg.

“The water level in the post-office well at Gulfport remained fairly uniform throughout the 18-month period ending about the

last of June 1942, when it abruptly declined about 2 feet and remained fairly uniform at the new stage for the rest of the year. A few periods of noticeably low water level were observed, but at no time during 1942 did the level in this well reach the low stages recorded during the tourist season of 1940. The current low water level may be attributed to increased withdrawals in the area.

"The automatic recorder on the well at Camp McClellan, in Jackson County, showed that the water level remained nearly uniform until October 11, when the recorder was removed for installation on a well at Biloxi, in a shallower, more intensively pumped sand.

"The measurements made during 1942 at the 24 observation wells in the alluvial plain of the Mississippi River show that in 1 well the water levels were higher than in 1941, in 8 wells they were noticeably lower, and in the remaining 15 wells either they were substantially the same as during 1941 or else no noticeable trend was observed."

1943—R. W. Adams. A brief discussion of the water-level fluctuations during 1943, (U. S. Geological Survey Water-Supply Paper 987, page 106) is herewith quoted:

"The observation-well program in Mississippi, begun in 1938, was continued in 1943 by the Geological Survey, United States Department of the Interior, in cooperation with the Mississippi State Geological Survey. Periodic measurements were made in 26 selected wells, the measurements reaching a total of 68 for the year. In addition, automatic water-stage recorders were maintained throughout the year at 8 wells. No new wells were added to the program. Numerous measurements, not included in this report, were made at military establishments. Most of the observation wells in the State are artesian.

"Detailed investigations of ground-water conditions were made, at the request of the War Department, in two military areas, and reports¹ on them were published by the State.

¹ Brown, G. F., and Adams, R. W., *Geology and ground-water supply at Camp McCain*: Mississippi Geol. Survey Bull. 55, 116 pp., 1943. Brown, G. F., and Guyton, W. F., *Geology and ground-water supply at Camp Van Dorn*: Mississippi Geol. Survey Bull. 56, 68 pp., 1943.

“Water levels in observation wells throughout the State, with one exception, declined in 1943, owing, principally, to increased pumpage and natural discharge. In Washington County well 65, at Estill, however, measured water levels were slightly higher. The average of water levels measured on this well in 1943 was 0.5 foot higher than the average of comparable levels measured in 1942.”

1944—R. W. Adams. A rather detailed annual report on the water levels recorded throughout the year, as compared with previous years, was published in U. S. Geological Survey Water-Supply Paper 1017, pages 292, 293:

“The observation-well program in Mississippi, begun in 1938, was continued in 1944 in cooperation with the Mississippi Geological Survey.

“During the year 38 measurements of water levels were made in 29 observation wells in the Mississippi Alluvial Plain and 18 measurements were made in 7 observation wells in the remainder of Mississippi. In addition five pressure recorders were maintained on artesian wells throughout all or a considerable part of the year and seven float-type water-stage recorders were maintained on nonflowing wells throughout the year, thus continuing a long-time record of the fluctuations of water levels in observation wells in important aquifers throughout the State. Two float-type recorders were installed on wells in Jackson near the end of the year, the information to be used in the investigation of ground-water conditions in that vicinity. Moreover, a large number of water-level measurements were made on other wells in the State.

“The year 1944 is the first year of record in which there was not a general downward trend in the water levels in the observation wells in the Mississippi Alluvial Plain. At the end of 1944 the water levels were higher than at the end of 1943 in 10 of the wells, showed no change in 3 wells, and were lower in 6 wells. Comparable data were not available for the other wells. An analysis of the data available for year-end measurements, some of which were made just after the year end, in 27 of the observation wells in the Mississippi Alluvial Plain gives the following results: In 1944 the average of the water levels in these wells was 4.8 feet lower than in 1940, 2.8 feet lower than in

1941, and 1.8 feet lower than in 1942, but was 0.05 foot higher than in 1943.

“The following table, which has been prepared from data furnished by the U. S. Weather Bureau, shows that in 1939 and 1940 the precipitation over the catchment area of the aquifers involved was well above normal, that the three following years (1941, 1942, and 1943) were progressively drier, and that in 1944 the precipitation was again above normal. It remains to be seen to what extent the downward trend in water levels has been due to the deficiency in precipitation and to what extent they will rise in future years toward their former altitudes.

“ANNUAL PRECIPITATION, IN INCHES, IN THE
NORTHERN DIVISION, MISSISSIPPI

1939	53.14
1940	56.04
1941	43.27
1942	42.72
1943	35.76
1944 (first 11 months only).....	59.75
Average (1888-1943)	50.69

“A practically continuous record has been obtained on Well 2, Oktibbeha County, since June 1940. This well taps an aquifer near the base of the Eutaw formation which supplies water for many farms. Its water levels are affected only slightly by nearby pumping. The record shows that the water level tends to fluctuate about 2.5 feet during a year, generally reaching the highest stage during April, and the lowest during September or October. In 1944 an exceptionally high state was reached in February. There has been a progressive decline in annual stages, as shown by the following table:

“HIGHEST AND LOWEST WATER LEVELS IN THE MISSISSIPPI
STATE COLLEGE OBSERVATION WELL SINCE 1940

Year	Highest level (in feet above sea level)	Date	Lowest level (in feet above sea level)	Date
1940	-----	-----	202.94	Sept. 16
1941	204.80	Apr. 3	202.43	Sept. 29
1942	204.74	Apr. 9	202.31	Sept. 30
1943	203.97	Apr. 12	201.68	Sept. 9
1944	203.55	Feb. 9	201.10	Week of Oct. 28

"Water levels recorded in the Starch Plant well at Laurel show the effect of nearby pumping. Analysis of the recorder charts shows that the water level was at a low stage during the week, while the nearby pumps were in operation, and rose as in a normal recovery curve during a period of cessation of operation, from Saturday night until 6 o'clock on Monday morning, when pumping was resumed. At no time during the year did the water level attain a condition which approached that of static equilibrium.

"Water levels in the several water-table observation wells in Mississippi did not show any conclusive trends during 1944."

1945—J. C. Kammerer. The following annual report published in U. S. Geological Survey Water-Supply Paper 1024, pages 165-167, discusses the trends of water levels in observation wells throughout the state:

"The observation-well program in Mississippi, begun in 1938, was continued in 1945 in cooperation with the Mississippi Geological Survey. In addition to the water levels measured in 18 counties before 1945, principally near the Gulf Coast and in the Mississippi Alluvial Plain ("Yazoo Delta"), measurements were made in 5 wells in Jackson.

"Jackson, with a population in 1945 of about 72,000, obtains its municipal water supply of 7 million gallons a day from Pearl River. The pumpage is supplemented by an estimated average of 3 million gallons daily from privately owned wells. The principal aquifer or water-bearing bed is a part of the Kosciusko or Sparta formation and is tapped 600 to 800 feet below land surface. There are about 70 wells within an 8-mile radius of the Capitol Building. A study of the ground-water resources of the Jackson area is currently in progress.

"The trend of water levels throughout the State during 1945 suggests a decrease in the rate of lowering as compared with the records since 1938. This may be, in part, a response to the high rainfall during the year, which averaged 59 inches for the State as a whole and was 6 inches above the normal annual rainfall, as reported by the U. S. Weather Bureau.

"Of the observation wells measured in 1945, 4 are water-table wells and 44 are artesian wells; in the latter, the water levels

were above land surface in 32 wells and below land surface in 12 wells. Water-stage recorders, which furnished continuous records of the fluctuations of water level, were maintained at 15 wells during part or all of the year, and seasonal and monthly measurements were made in the 33 other wells. Of the measurements made during 1945 which are included in this report, 953 were read from recorder charts and 136 were made individually by tape line, hose, or pressure gage.

“During the year, as a result of the cooperative ground-water work in the State, the Mississippi Geological Survey published Bulletin 60: Geology and ground-water resources of the coastal area of Mississippi. The area described comprises George, Hancock, Harrison, Jackson, Pearl River, and Stone Counties. Other State bulletins referred to in the description of wells in this report are Bulletin 55 (1943): Geology and ground-water supply at Camp McCain (parts of Grenada and Montgomery Counties); and Bulletin 58 (1944): Geology and ground-water resources of the Camp Shelby area (parts of Forrest, Greene, Jones, Perry, and Wayne Counties).”

1946—P. L. Carroll and T. J. Henderson. The annual report included in U. S. Geological Survey Water-Supply Paper 1072, page 192, follows:

“The observation-well program in Mississippi, begun in 1938, was continued during 1946 in cooperation with the Mississippi State Geological Survey. Water-level measurements and artesian pressures were made in 47 wells in 19 counties in the Mississippi Alluvial Plain, the Gulf Coast area, and selected areas in the northern and eastern sections of the State. Measurements in certain wells were discontinued because these wells had become unsuitable for observation purposes or the measurements were of doubtful character.

“Of the wells measured during 1946, four are water-table wells and 43 are artesian wells. The artesian wells were measured by means of a pressure-type recorder gage, float-operated water-stage recorder, or tape line. The seasonal measurements were made with a pressure gage, tape line, or hose. Well Lafayette 37 was measured monthly with a tape line.”

1947—C. R. Follett. The brief annual report in U. S. Geological Survey Water-Supply Paper 1097, page 194, is quoted below:

"The observation-well program in Mississippi has been in operation since 1938 in cooperation with the Mississippi State Geological Survey. During 1947 water-level measurements were made in 46 wells in 19 counties.

"Nine wells were equipped with recorders — four with float-type water-stage recorders, and five with pressure-type water-stage recorders. The other 35 wells were measured with a steel tape at varying intervals of time from weekly to yearly.

"Of 33 observation wells, for which comparable measurements are available, the water levels in 9 wells rose from 0.3 foot to 7.0 feet from July 1946 to July 1947; the water levels in 24 wells declined from 0.2 foot to 8.6 feet for the same period. The net average decline was 1.6 feet."

SUMMARY 1948-1952

TRACY W. LUSK

GENERAL FEATURES

With the suspension of the cooperative ground water program with the U. S. Geological Survey in 1947, the Mississippi State Geological Survey continued the observation-well program which had been in operation since 1938, as well as numerous special investigations. Of the thirteen wells measured in 1938, five have been abandoned only recently and four are among the observation wells on the program today. The wells were abandoned because they became impossible to measure or unreliable for one reason or another.

At the present time periodic measurements are made on 34 wells, of which 5 are equipped with automatic water stage recorders, 10 are measured by tape line, 1 is measured by a small diameter hose, and 18 are measured by pressure gauge.

The observation wells are so distributed as to provide the best information on the major aquifers of the State with the least number of wells (Plate 1). Nineteen of the total number are located in the Mississippi Alluvial Plain, the so called "Delta," two in the northeastern part of the State, eight in the southeastern and southern parts, and three in Jackson and vicinity. An effort is now being made to more fully envelope the southern part and an equal effort should be made in the northern part.

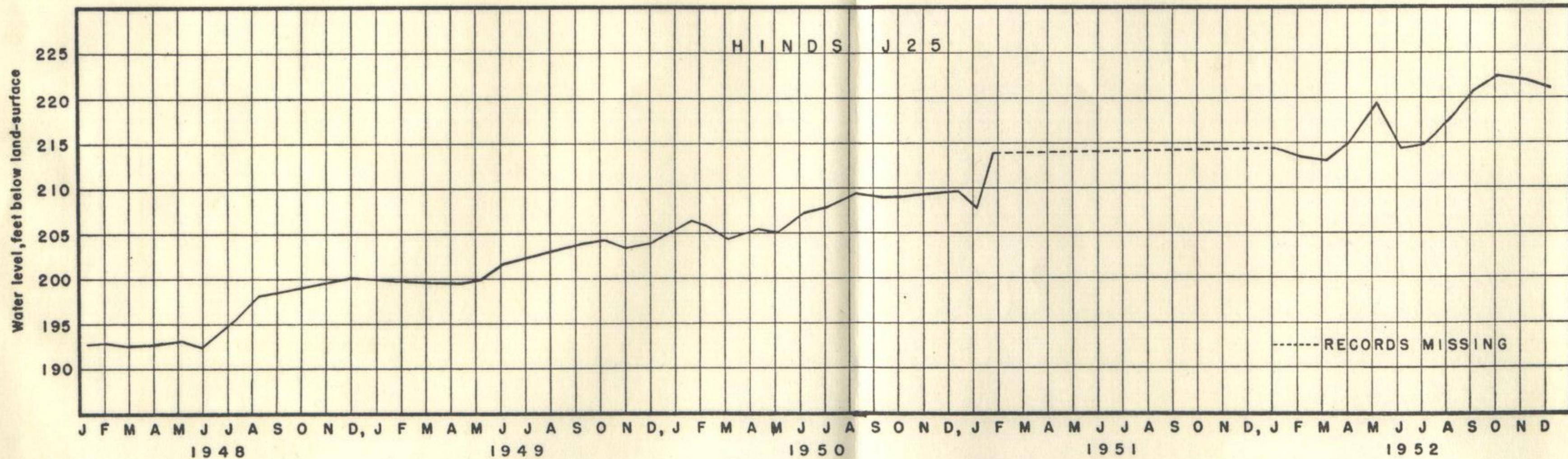


Plate 2.—Hydrograph showing water-level fluctuation of Jackson area, 1948-52

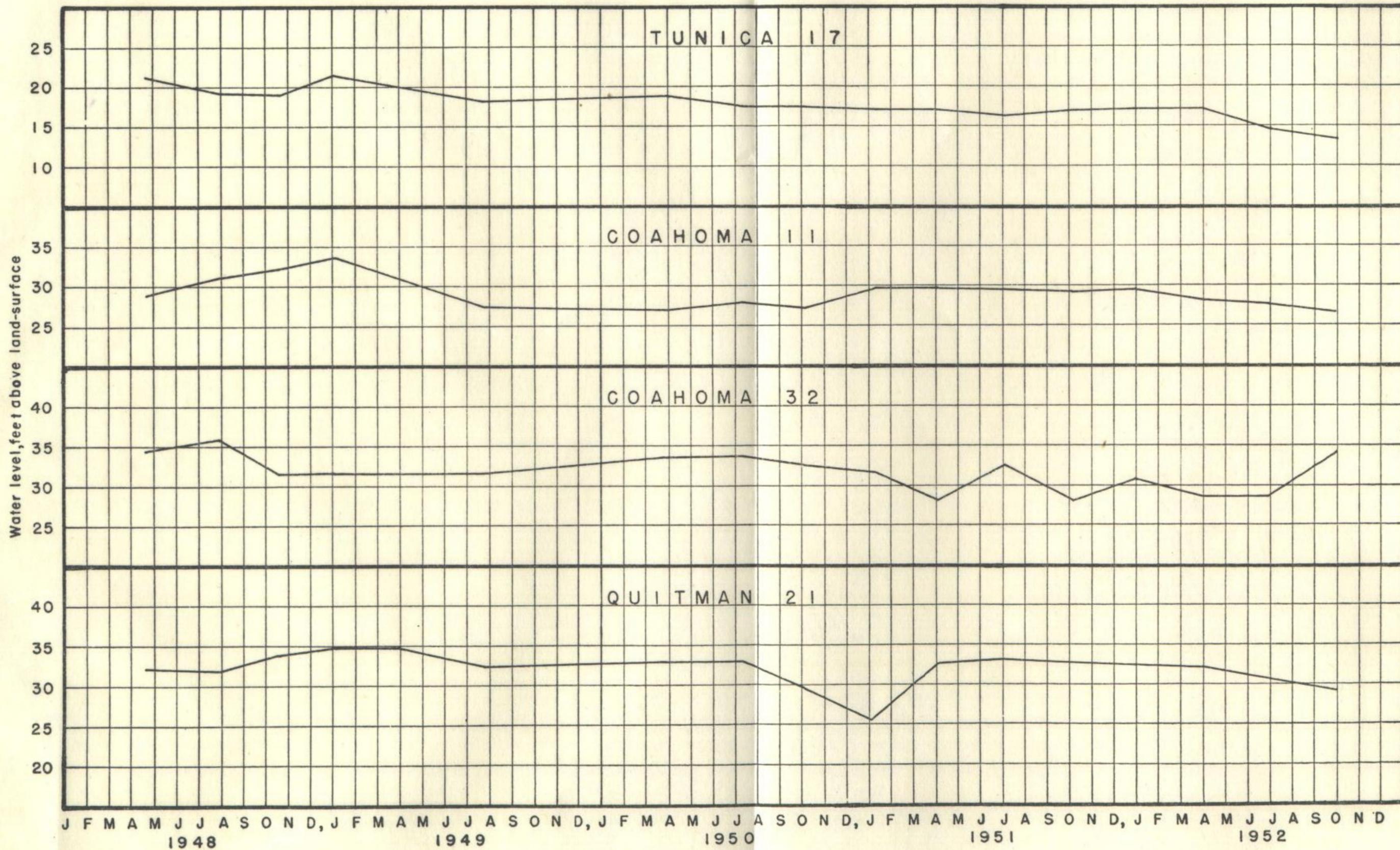


Plate 3.—Hydrograph showing water-level fluctuation of the Lower Wilcox sand, 1948-52

In general, the records of the observation wells indicate that the water levels and piezometric surfaces have lowered throughout the state. However, the situation is not so alarming as it may sound. The decline of water levels and pressures is mostly due to increased pumpage. Some of the decline can be attributed to old wells going bad. This has been proved by reworking some old wells and restoring them to normal and in some cases better than normal. A good example is Humphreys 56, the town well of Louise, which, after being reworked in 1952, had a pressure of 1.80 feet above the 1939 recording (Plate 6).

Steps are now being taken to resume a cooperative ground water program between the Mississippi Geological Survey and the U. S. Geological Survey. The increased demands for ground water both for agriculture and industrial growth have made necessary an invigorated study of the potentialities of the State's subsurface waters. Certain groups and responsible citizens have suggested that such a program should include all 82 counties as rapidly as good work will allow.

WATER LEVEL FLUCTUATIONS

JACKSON AREA

The chief aquifer at Jackson, Hinds County, is the Kosciusko formation. The water level at Jackson has undergone a rather wide fluctuation. A maximum fluctuation of about 55 feet was recorded at well J-21 between September 1951 and December 1952, during which time there was a steady decline with only two breaks of rising level, one in December 1951, the other in May 1952 (Plate 2). For well J-21 the September 1951 measurement of 118.20 feet is the highest water level on record and the December 1952 measurement of 175.40 feet is the lowest on record. The declining level during 1952, can be largely attributed to the extremely dry year (Plate 8). The over all decline of water level in Jackson has been rather uniform in all the observation wells, which would indicate a more nearly homogeneous aquifer than is found at most places in Mississippi. Since the beginning of observations in 1944, J-21 and J-25 have declined approximately 29 feet, and J-38 about 17 feet. J-38, located nearer the center of downtown Jackson, has not declined as much as the other two because the quantity of water used there has not increased as much as in the outlying areas where, because of available space, new industries are being established and old ones expanded.

MISSISSIPPI ALLUVIAL PLAIN

The Mississippi Alluvial Plain in the State of Mississippi is blessed with several artesian aquifers which furnish suitable water for domestic, municipal, and industrial uses; also a prolific water table aquifer which furnishes water for the above named uses and in addition water suitable for irrigation.

The basal sand of the Lower Wilcox is necessarily used only in the northern part of the Alluvial Plain because south of a northwest-southeast line through Coahoma, Tallahatchie, and Leflore Counties the water becomes brackish. The observation wells penetrating the Lower Wilcox in Tunica, Coahoma, and Quitman Counties showed an average decline of about 13.00 feet from 1940-1952, which is about 1.08 feet a year. Three of the four wells in the Lower Wilcox showed a steady decline during the dry year of 1952, but Coahoma 32 dropped from January to April and then rose slightly through the remainder of the year (Plate 3).

Within a high pressure area in the region of Humphreys and Holmes Counties the Meridian sand contains water under a pressure higher than that of any other aquifer on record in the State. Through the years Holmes 59 has maintained a head in excess of 120 feet. Likewise, Humphreys 10 has maintained a head in excess of 95 feet with the exception of April 1951, when the head dropped to 88.85 feet. However, by the end of 1951 the water level of Humphreys 10 was only one foot lower than at the beginning of the year (Plate 4).

Of the six observation wells in the Meridian sand five have had only a small decline in pressure since 1948, but from January to April, 1951, Washington 65 had a sharp decline of 17 feet (Plate 4). The reason for this is not known.

One observation well in Leflore County and one in Sunflower County tap the Winona sand (Plate 5). These wells were holding their own up to 1952, when both had a sharp and steady decline in pressure. It remains to be seen whether or not normal rainfall will restore them.

The Kosciusko formation is checked on from two wells in the southern part of the Alluvial Plain. Another well, Humphreys 18, has recently been abandoned at Belzoni, because the pressure

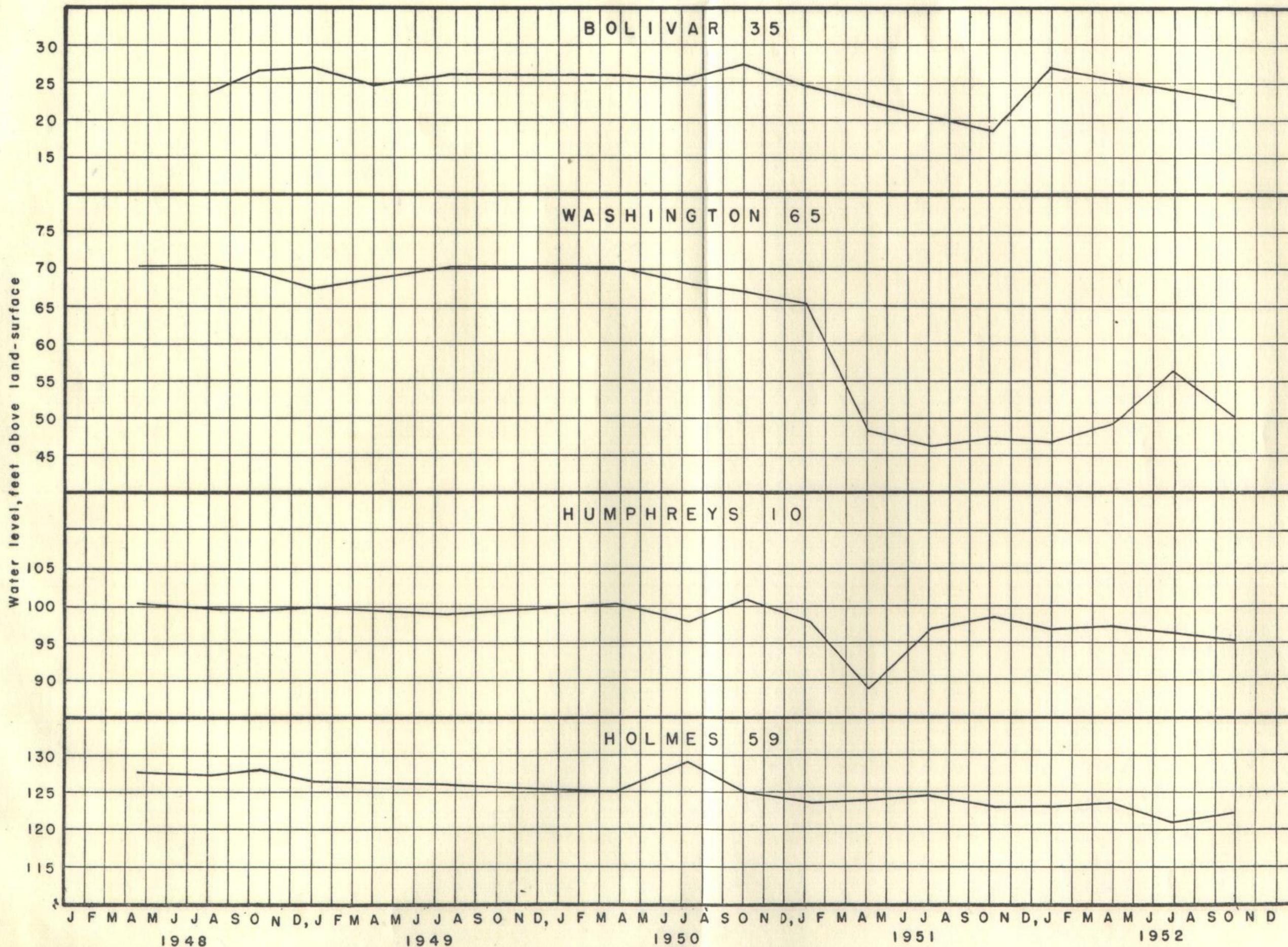


Plate 4.—Hydrograph showing water-level fluctuation of the Meridian sand, 1948-52

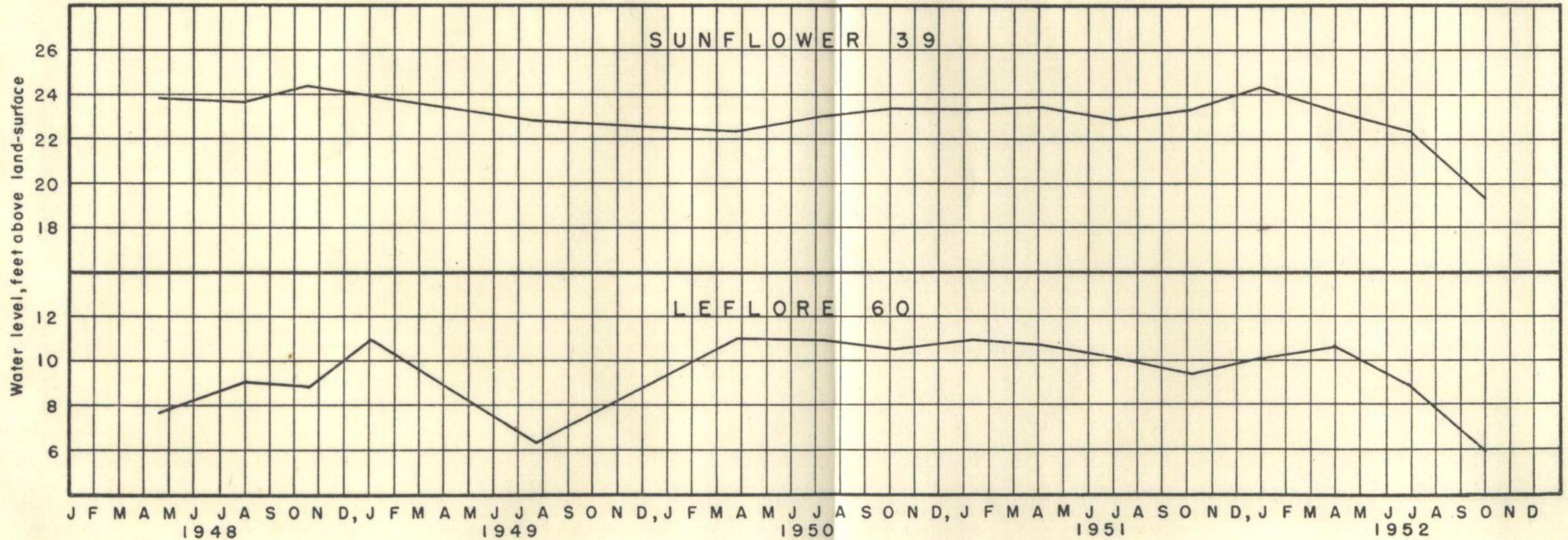


Plate 5.—Hydrograph showing water-level fluctuation of the Winona formation, 1948-52

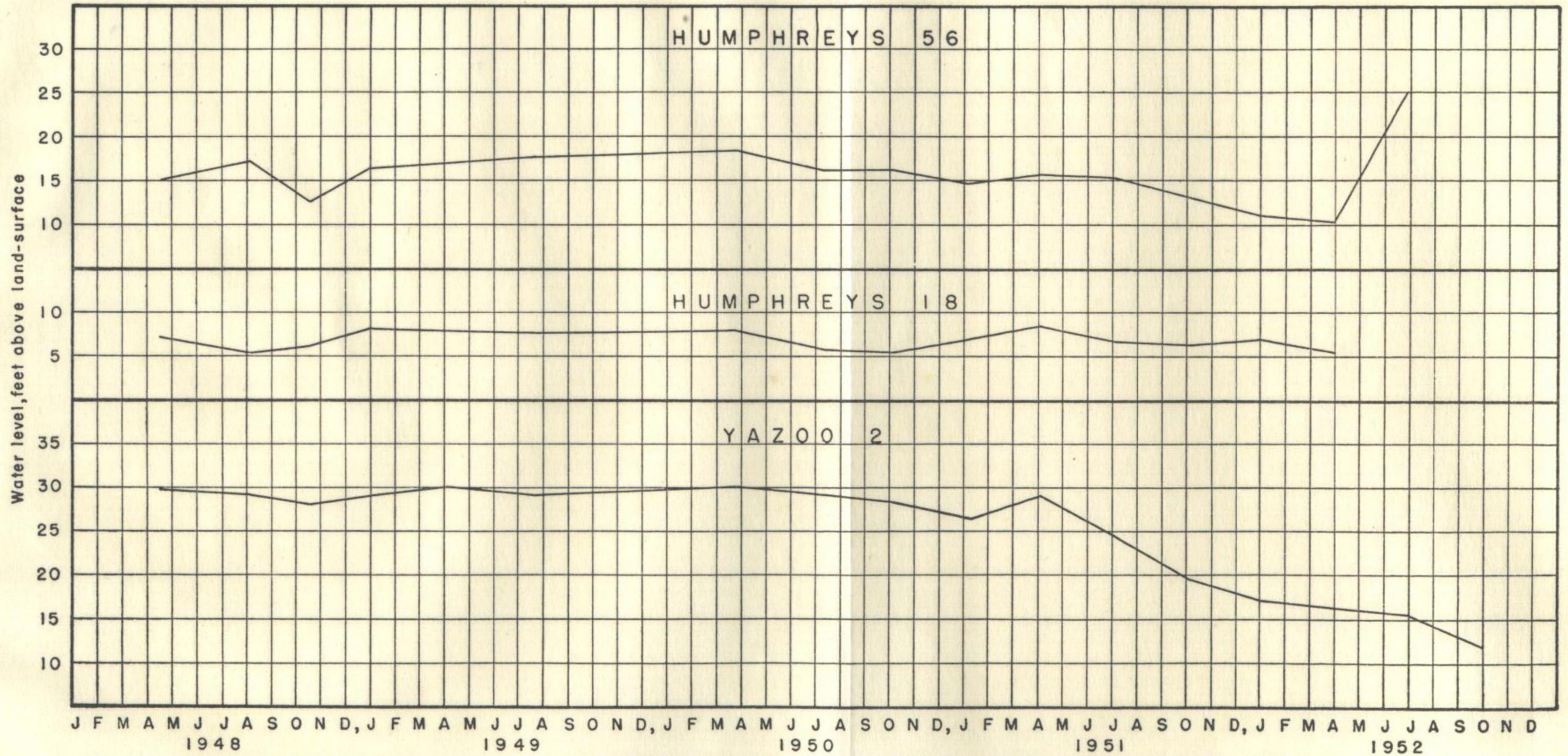


Plate 6.—Hydrograph showing water-level fluctuation of the Kosciusko formation, 1948-52

has been reduced until the well no longer flows (Plate 6). A pump was placed on the well in order to supply a nearby cotton gin. The quantity pumped was no doubt sufficient to lower the head below the land surface. Yazoo 2 has steadily declined in pressure since April 1951 (Plate 6). This may be partially due to the increased pumpage at Yazoo City and also in a measure to rusting and corrosion of the well fixtures. Humphreys 56 was likewise declining in pressure until the well was reworked in 1952, when the pressure was restored to better than normal (Plate 6).

Of 22 wells in the "Delta" for which records are available over a period of several years, 17 declined in pressure and 5 gained. The decline ranged from nearly 30 feet to about 1 foot. The increased pressure ranged from almost 12 feet to about 3 feet. Two of these wells gained pressure because they were plugged and used very little or none at all; one was reworked; and two were probably used somewhat less than in the past.

SOUTH MISSISSIPPI

In the southern and southeastern part of the State, which includes Hattiesburg, Laurel, and the coastal area, only Harrison 69 at Biloxi has showed a marked lowering since 1948. This well which is 720 feet deep and taps the Graham Ferry formation, has not been used for several years. The April and December measurements of 1948 showed that at that time the water stood above the land surface, but since then the water level has dropped below the land surface, and from December, 1951, to September, 1952, the water level dropped 10.51 feet, a lowering which was not in accord with the past performance of the well. It seems likely that there was an unusually heavy withdrawal of water from that aquifer nearby. However, a pumping well can affect its artesian aquifer over a radius of several miles. Harrison 118 at Gulfport, which is reportedly 1,262 feet deep, had barely any change from 1948 through 1950. Jones 108 at Overt, a flowing well, lowered approximately one foot in head from 1948 through 1952. At Hattiesburg, Forrest 30, an unused artesian well, has undergone a seemingly normal fluctuation, the high water level generally coming at the beginning of the year and gradually dropping off to the low, which is usually in August or September (Plate 7). In June, 1950, an all time record high of 7.25 feet was recorded. Both 1949 and 1950 were unusually

high, but 1951 and 1952 returned to a level very similar to the years previous to 1949. The water-table well, Harrison 147, remained about the same as in the past with very little seasonal fluctuation. Water level measurements were begun on a city well at Laurel, Laurel 3A, in 1950. It was completed in 1945. Thus far that well has showed a normal seasonal fluctuation, which means that low water level is reached during the summer months when the demand for water is greatest and the high water level in December and January, when the demand is least.

NORTHEASTERN MISSISSIPPI

Lee 36, at Tupelo, is an artesian well completed in the Eutaw sand. Its fluctuation very closely relates to the quantity of water being pumped. The low water level is well established during the summer months when the well is pumped almost continuously, and the high develops in late December through April. The December 1951 measurement was 3.90 feet lower than the December 1950 measurement, but the December 1952 measurement was only 0.1 foot lower than 1951.

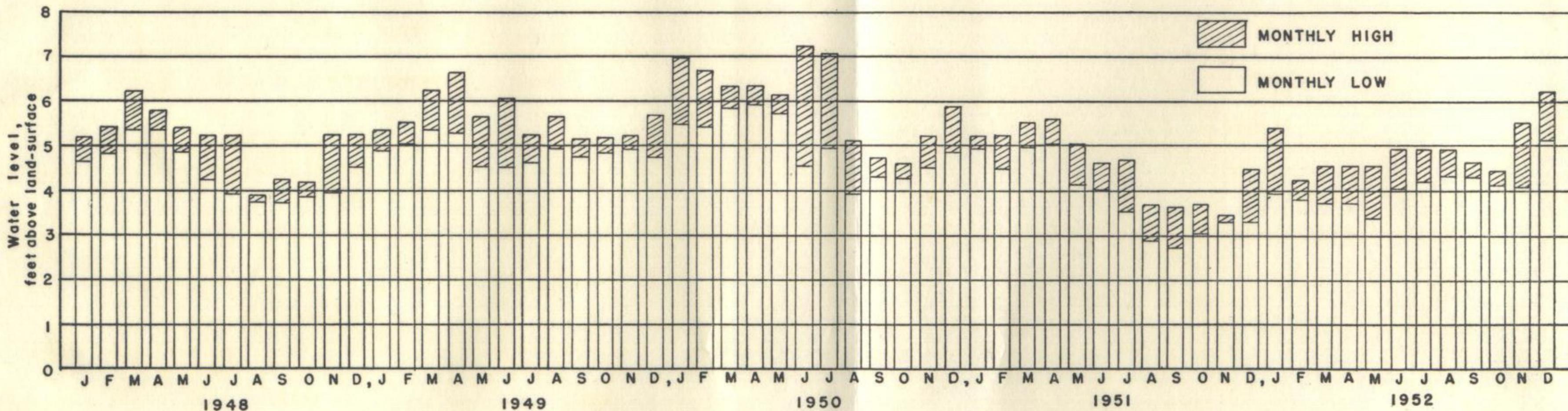


Plate 7.—Hydrograph showing water-level fluctuation of Forrest 30, 1948-52

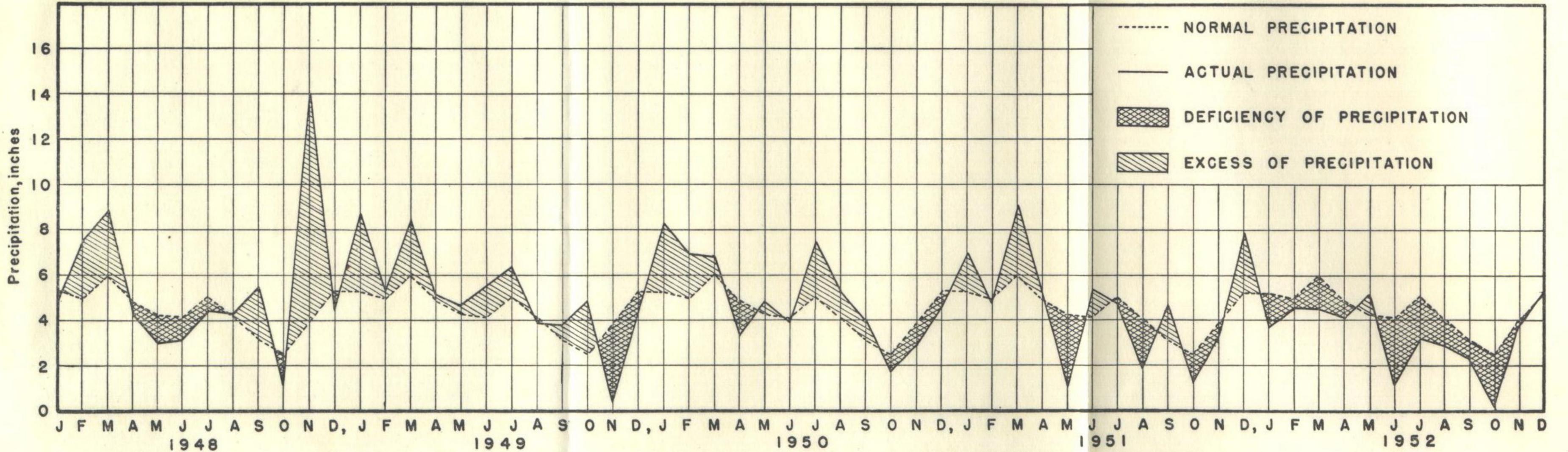


Plate 8.—Curve of actual precipitation compared with normal precipitation

WELL RECORDS

BOLIVAR COUNTY

Well 13. Town of Shelby. SW.¼, NE.¼, Sec.12, T.24 N., R.6 W. Municipal well, diameter at top 4 inches, reported depth about 1,650 feet. Measuring point, top of 4-inch casing tee, 2 feet above land surface and 155.58 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, July 27	19.92	1944, Apr. 30	16.30	1949, Jan. 2	10.40
Dec. 30	18.32	Dec. 13	16.00	July 21	11.85
1941, July 23	18.72	1945, June 16	17.40	1950, Mar. 25	13.60
Nov. 28	17.52	Sept. 4	16.40	July 8	8.50
Dec. 26	17.52	Dec. 27	16.20	Oct. 2	4.40
1942, Apr. 2	15.92	1946, Mar. 6	16.30	1951, Jan. 24	11.90
July 3	15.82	May 7	16.20	Apr. 1	9.40
Sept. 25	15.62	July 9	16.70	July 2	8.50
Dec. 22	14.92	Sept. 10	16.60	Oct. 3	8.90
1943, Apr. 2	17.20	Dec. 17	17.10	1952, Mar. 30	7.40
July 4	17.60	1948, Apr. 18	12.15	June 26	9.90
Dec. 27	16.00	July 30	10.25	Sept. 29	8.40
		Oct. 15	7.05		

Well 18. Town of Gunnison. NE.¼, SW.¼, Sec.8, T.24 N., R.7 W. Municipal well, diameter 6 inches, reported depth 1,738 feet. Measuring point, top of casing tee, level with land surface and 153.77 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, May 29	28.90	1942, Sept. 25	24.03	*1946, Dec. 17	22.20
Aug. 13	27.20	1944, Apr. 30	25.90	1947, July 4	25.30
1940, Feb. 23	26.73	Dec. 13	22.20	1948, Apr. 18	19.11
July 27	26.73	1945, June 16	25.20	July 30	19.30
Dec. 30	25.93	Sept. 4	22.50	1949, Jan. 1	18.90
1941, July 23	25.73	Dec. 27	23.20	July 21	15.75
Nov. 28	25.33	*1946, Mar. 6	23.80	Measurements	
Dec. 26	25.43	* May 7	23.00	Discontinued	
1942, Apr. 2	27.73	* July 9	21.50		
July 3	25.63	* Sept. 10	21.80		

*Leak around pump base

Well 35. (Bolivar 4 in Water-Supply Paper 576, p. 93). Town of Beulah. SW.¼, NE.¼, Sec.27, T.22 N., R.8 W. Municipal well, diameter at top 8 inches, reported depth 1,760 feet. Measuring point, top of casing elbow 1.4 feet above land surface and 147.53 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, May 24	28.90	1943, Dec. 27	24.90	1949, Jan. 1	27.06
Aug. 13	28.30	1944, Apr. 30	29.60	Mar. 31	24.56
1940, Feb. 23	29.97	Dec. 13	25.60	July 21	26.06
July 27	28.37	1945, Sept. 7	25.80	1950, Mar. 24	26.06
Dec. 30	27.77	Dec. 27	26.80	July 8	25.56
1941, July 23	26.07	1946, Mar. 6	27.20	Sept. 30	27.56
Nov. 28	28.57	May 7	26.50	1951, Jan. 1	24.56
Dec. 26	27.37	Sept. 10	22.60	Oct. 4	18.56
1942, Apr. 2	30.27	Nov. 17	20.40	Dec. 29	27.06
July 3	27.57	Dec. 17	22.80	1952, June 26	24.06
Sept. 25	26.27	1947, July 4	22.77	Sept. 29	22.56
Dec. 22	26.07	1948, July 30	23.56		
1943, Apr. 2	29.60	Oct. 15	26.56		
July 4	29.00				

Well 50. Jones Bayou Gin Co. NE.¼, SE.¼, Sec.17, T.21 N., R.5 W. Near Y. & M.V.R.R. at O'Reilly. Domestic well, diameter at top 3 inches, reported depth about 1,500 feet. Measuring point, top of casing elbow, 1 foot above land surface and 134.70 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, May 30	20.10	1943, July 4	17.30	1949, Jan. 1	9.30
Aug. 13	19.60	Dec. 28	16.40	July 20	13.40
1940, Feb. 23	18.50	1944, Apr. 30	18.40	1950, Mar. 24	13.70
June 25	17.30	1945, Jan. 4	16.10	July 8	14.20
July 27	17.80	Sept. 7	16.10	Oct. 2	14.70
Dec. 31	17.60	1946, May 7	16.10	1951, Jan. 1	14.05
1941, July 23	16.30	July 8	14.80	Apr. 1	14.85
Nov. 28	18.30	Sept. 10	15.90	July 2	15.65
Dec. 26	17.50	Dec. 17	12.20	Oct. 3	14.55
1942, Apr. 2	18.30	1947, July 4	12.90	Dec. 29	15.15
July 3	17.50	1948, Apr. 18	11.05	1952, Mar. 29	13.15
Dec. 22	17.30	July 30	14.40	June 26	12.80
1943, Apr. 2	17.90	Oct. 15	7.25	Sept. 29	11.10

COAHOMA COUNTY

Well 11. Norfleet and Wilsford. NW.¼, SW.¼, Sec.7, T.29 N., R.2 W. at Roseacres Plantation near Rich. Domestic well, diameter 3 inches reduced to 2 inches, finished with 40 feet of screen, reported depth 1,837 feet. Measuring point, top of 3-inch casing tee, 1 foot above land surface and 181.88 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Mar. 7	40.22	1943, Dec. 27	36.80	1948, Oct. 15	32.10
July 26	40.77	1944, Apr. 1	37.30	1949, Jan. 2	33.60
Sept. 11	40.52	Dec. 13	36.50	July 22	27.45
Dec. 30	39.32	1945, June 16	37.80	1950, Mar. 28	26.95
1941, July 23	40.22	Sept. 4	36.20	July 8	27.85
Nov. 27	39.12	Dec. 26	37.30	Oct. 3	27.15
Dec. 26	38.92	1946, Mar. 5	36.20	1951, Jan. 8	29.70
1942, Apr. 3	39.02	July 8	36.20	Apr. 2	29.60
July 4	39.02	Nov. 8	32.20	July 3	29.40
Sept. 17	37.82	Dec. 15	32.70	Oct. 3	29.20
Dec. 21	37.62	1947, July 3	32.80	Dec. 29	29.50
1943, Apr. 1	39.80	1948, Apr. 18	28.85	1952, Mar. 30	28.20
July 4	38.80	July 28	31.10	June 26	27.70
				Sept. 29	26.70

Well 32. Coahoma County Agricultural High School. SW.¼, NW.¼, Sec.36, T.28 N., R.4 W., 4 miles north of Clarksdale. School well, diameter at top 4 inches, reported depth 2,000 feet. Measuring point, top of 2-inch casing tee at land surface and 176.74 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Mar. 6	42.96	1943, Dec. 27	37.20	1948, Oct. 15	31.68
June 24	44.86	1944, Apr. 1	38.20	1949, Jan. 2	31.68
July 26	43.20	Dec. 13	37.20	July 22	31.58
Dec. 30	43.76	1945, June 16	38.40	1950, Mar. 25	33.58
1941, July 22	41.86	Sept. 4	37.50	July 8	33.58
Nov. 28	39.06	Dec. 26	35.50	Oct. 2	32.58
Dec. 26	39.46	1946, Mar. 5	36.70	1951, Jan. 8	31.58
1942, Apr. 3	41.16	May 6	37.00	Apr. 2	28.08
July 4	41.06	July 8	36.70	July 3	32.58
Sept. 18	41.06	Nov. 8	33.10	Oct. 4	28.08
Dec. 21	37.86	Dec. 16	34.00	Dec. 29	30.78
1943, Apr. 1	38.20	1947, July 3	36.49	1952, Mar. 30	28.58
July 4	37.90	1948, Apr. 18	34.48	June 27	28.58
		July 28	35.88	Sept. 29	29.08

DESOTO COUNTY

Well 3. H. P. Sullivan. NW.¼, NE.¼, Sec.32, T.1 S., R.9 W., 1.1 miles west of Walls near residence of owner. Domestic well, diameter at top 3 inches, reported depth 1,525 feet. Measuring point, top of well head at ground surface and 209.57 feet above datum. Reference point, U.S.G.S. washer and nail on east gate post at entrance to barn, 5.0 feet above surface and 214.86 feet above datum.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1942, Apr. 3	6.81	1943, Apr. 1	15.90	1944, Apr. 1	10.10
Sept. 17	14.66	July 4	13.80		
Dec. 21	14.72	Dec. 27	11.40		

Measurements discontinued

FORREST COUNTY

Well 30. City of Hattiesburg. SE.¼, NE.¼, Sec.10, T.4 N., R.13 W. Unused artesian well, diameter at top 10 inches, reported depth 390 feet, finished with 80 feet of screen. Measuring point, top of 4-inch standpipe, 7.7 feet above land surface datum and 159.46 feet above mean sea level. Water-stage recorder maintained on well since March 1, 1940.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, 1940

Date	Hour	Water level	Date	Hour	Water level
Mar. 20	11:45 a.m.	5.33	Aug. 22	6:00 a.m.	6.97
31	6:00 p.m.	6.17	31	11:30 a.m.	5.64
Apr. 1	12:01 a.m.	6.06	Sept. 21	10:30 a.m.	5.42
13	11:45 a.m.	5.47	30	5:00 a.m.	5.90
May 4	2:00 a.m.	6.59	Oct. 14	6:00 a.m.	5.81
31	10:15 p.m.	5.29	25	2:30 p.m.	5.44
June 6	11:00 a.m.	4.86	Nov. 9	6:00 a.m.	5.82
26	5:00 a.m.	5.95	28	2:00 p.m.	5.37
July 2	11:00 a.m.	5.78	Dec. 3	8:00 p.m.	5.41
11	2:00 a.m.	6.82	27	6:30 p.m.	6.36

WATER LEVELS AND ARTESIAN PRESSURES

29

MONTHLY HIGH AND LOW WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	High	Date	Low	Date	High	Date	Low
1941				1942			
Jan. 25	6.26	Jan. 7	5.86	Jan. 26	5.33	Jan. 31	4.64
Feb. 3	6.24	Feb. 18	5.44	Feb. 11	4.88	Feb. 28	4.18
Mar. 9	5.89	Mar. 29	5.00	Mar. 8	5.07	Mar. 28	4.04
Apr. 17	5.96	Apr. 19	5.03	Apr. 4	4.15	Apr. 25	3.52
May 6	5.16	May 28	4.22	May 14	3.73	May 8	3.10
June 5	4.49	June 8	4.07	June 26	4.14	June 5	2.57
July 17	4.37	July 3	3.94	July 5	3.32	July 30	2.21
Aug. 4	4.18	Aug. 27	3.58	Aug. 21	3.31	Aug. 6	2.17
Sept. 9	4.22	Sept. 24	3.75	Sept. 29	3.10	Sept. 8	2.39
Oct. 7	4.20	Oct. 29	3.76	Oct. 31	3.15	Oct. 24	2.62
Nov. 22	5.52	Nov. 2	4.03	Nov. 27	3.44	Nov. 13	2.66
Dec. 18	5.14	Dec. 7	4.74	Dec. 25	3.87	Dec. 5	3.00
1943				1944			
Jan. 4	4.2	Jan. 29	3.2	Jan. 2	4.22	Jan. 13	3.51
Feb. 6	3.9	Feb. 18	3.1	Feb. 22	3.96	Feb. 11	3.44
Mar. 22	5.0	Mar. 9	3.0	Mar. 25	4.41	Mar. 11	3.32
Apr. 12	4.0	Apr. 3	3.3	Apr. 3	5.69	Apr. 20	3.75
May 2	3.6	May 22	3.0	May 1	4.22	May 20	3.19
June 21	4.4	June 5	2.8	June 4	3.23	June 29	2.35
July 4	3.2	July 26	2.7	July 24	2.68	July 15	2.30
Aug. 18	3.2	Aug. 28	2.6	Aug. 28	2.83	Aug. 23	2.49
Sept. 20	3.1	Sept. 16	2.4	Sept. 11	2.98	Sept. 2	2.62
Oct. 29	3.1	Oct. 15	2.6	Oct. 19	3.26	Oct. 27	2.26
Nov. 29	3.5	Nov. 3	2.6	Nov. 26	3.66	Nov. 5	2.70
Dec. 25	3.5	Dec. 11	3.0	Dec. 11	3.65	Dec. 2	3.02
1945				1946			
Jan. 22	4.40	Jan. 5	3.80	Jan. 30	4.00	Jan. 2	3.44
Feb. 12	4.58	Feb. 28	3.73	Feb. 28	4.11	Feb. 5	3.66
Mar. 13	3.94	Mar. 29	3.38	Mar. 27	4.38	Mar. 12	3.83
Apr. 2	3.86	Apr. 21	3.17	Apr. 1	4.22	Apr. 17	3.81
May 12	3.86	May 31	3.28	May 15	4.76	May 10	3.97
June 18	3.29	June 30	2.83	June 16	5.98	June 5	4.31
July 17	4.76	July 1	2.89	July 9	4.98	July 1	4.59
Aug. 1	3.38	Aug. 31	2.78	Aug. 2	4.80	Aug. 31	3.96
Sept. 4	3.03	Sept. 29	2.54	Sept. 31	4.36	Sept. 14	3.77
Oct. 29	3.33	Oct. 5	2.60	Oct. 8	4.48	Oct. 11	4.28
Nov. 26	3.30	Nov. 17	2.70	Nov. 12	4.77	Nov. 1	4.36
Dec. 26	3.80	Dec. 1	2.92	Dec. 27	4.92	Dec. 4	4.50

MONTHLY HIGH AND LOW WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	High	Date	Low	Date	High	Date	Low
1947				1948			
Jan. 22	6.19	Jan. 1	4.78	Jan. 1	5.19	Jan. 21	4.65
Feb. 4	5.24	Feb. 14	4.62	Feb. 17	5.41	Feb. 1	4.86
Mar. 7	5.43	Mar. 1	4.88	Mar. 7	6.23	Mar. 1	5.37
Apr. 15	5.98	Apr. 1	5.14	Apr. 16	5.77	Apr. 24	5.35
May 26	5.91	May 16	5.45	May 3	5.40	May 24	4.86
June 9	5.74	June 21	5.33	June 1	5.22	June 30	4.24
July 28	6.34	July 9	5.16	July 11	5.22	July 30	3.91
Aug. 4	6.52	Aug. 30	5.29	Aug. 17	3.90	Aug. 30	3.74
Sept. 20	5.70	Sept. 11	4.97	Sept. 22	4.25	Sept. 1	3.72
Oct. 10	5.50	Oct. 31	4.85	Oct. 20	4.19	Oct. 9	3.86
Nov. 7	5.05	Nov. 30	4.76	Nov. 29	5.25	Nov. 1	3.95
Dec. 10	5.31	Dec. 3	4.75	Dec. 31	5.25	Dec. 10	4.52
1949				1950			
Jan. 3	5.35	Jan. 13	4.88	Jan. 10	6.99	Jan. 27	5.49
Feb. 17	5.52	Feb. 2	5.13	Feb. 16	6.68	Feb. 7	5.42
Mar. 23	6.22	Mar. 4	5.36	Mar. 27	6.32	Mar. 3	5.83
Apr. 3	6.63	Apr. 30	5.28	Apr. 18	6.36	Apr. 28	5.92
May 4	5.63	May 27	4.53	May 25	6.14	May 31	5.71
June 20	6.05	June 9	4.50	June 12	7.25	June 13	4.56
July 27	5.24	July 13	4.62	July 8	7.07	July 26	4.94
Aug. 21	5.63	Aug. 31	4.92	Aug. 1	5.11	Aug. 25	3.93
Sept. 12	5.14	Sept. 18	4.75	Sept. 3	4.74	Sept. 22	4.32
Oct. 30	5.19	Oct. 13	4.83	Oct. 23	4.62	Oct. 17	4.29
Nov. 1	5.22	Nov. 17	4.91	Nov. 30	5.23	Nov. 1	4.51
Dec. 29	5.69	Dec. 9	4.73	Dec. 6	5.90	Dec. 22	4.88
1951				1952			
Jan. 31	5.24	Jan. 26	4.95	Jan. 14	5.41	Jan. 31	3.94
Feb. 1	5.26	Feb. 6	4.49	Feb. 3	4.25	Feb. 22	3.81
Mar. 30	5.54	Mar. 10	4.98	Mar. 31	4.57	Mar. 19	3.75
Apr. 1	5.61	Apr. 27	5.05	Apr. 1	4.57	Apr. 19	3.73
May 1	5.07	May 31	4.15	May 30	4.57	May 17	3.39
June 18	4.63	June 4	4.02	June 5	4.95	June 23	4.06
July 2	4.70	July 27	3.55	July 10	4.95	July 27	4.20
Aug. 1	3.70	Aug. 30	2.88	Aug. 7	4.90	Aug. 22	4.33
Sept. 30	3.65	Sept. 12	2.73	Sept. 19	4.64	Sept. 13	4.30
Oct. 1	3.71	Oct. 23	3.07	Oct. 1	4.46	Oct. 31	4.11
Nov. 2	3.47	Nov. 21	3.30	Nov. 30	5.53	Nov. 7	4.09
Dec. 31	4.50	Dec. 1	3.31	Dec. 31	6.23	Dec. 19	5.14

Well 41. William Beard. NE.¼, NE.¼, Sec.23, T.3 N., R.13 W. Domestic well, diameter 6 inches, measured depth 44.5 feet. Measuring point, top of wooden curbing, 4.6 feet above land surface and about 284 feet above mean sea level.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1941, Oct. 18	36.60	1943, May 22	32.90	1944, Apr. 16	34.40
1942, May 22	34.69				

Measurements discontinued

Well 50. Dixie Tung Empire Corporation. NE.¼, NE.¼, Sec.28, T.1 N., R.12 W., 3 miles south of Brooklyn, 200 yards west of U. S. Highway 49 behind residence. Domestic well, diameter at top 6.5 inches, depth 60 feet. Measuring point, top of tile curbing, 5.8 feet above land surface and about 255 feet above mean sea level.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Aug. 31	42.24	1942, Mar. 28	43.63	1948, Oct. 17	44.60
Sept. 28	44.08	May 27	43.02	Dec. 31	41.30
Oct. 29	43.47	1944, Apr. 16	42.60	1949, July 27	40.40
Nov. 29	44.65	1945, Feb. 20	43.21	1950, Mar. 22	41.90
1941, Feb. 28	44.22	Aug. 30	42.68	July 7	42.65
Mar. 31	43.46	Oct. 15	43.41	Sept. 30	42.75
May 31	45.40	1946, Mar. 8	41.78	Dec. 30	44.98
June 30	45.21	May 9	41.48	1951, Mar. 31	43.00
July 29	44.88	May 9	41.06	June 30	46.45
Aug. 29	44.91	July 18	40.31	Oct. 2	45.85
Sept. 28	45.26	Dec. 19	43.03	Dec. 28	50.80
Oct. 18	46.19	1947, July 5	41.19	1952, Mar. 28	46.95
Dec. 31	45.17	Oct. 17	43.14	June 24	44.95
1942, Jan. 28	44.45	1948, Apr. 16	39.45	Sept. 27	47.70
		Aug. 5	42.64		

Well A16. United States Army. SW.¼, NE.¼, Sec.27, T.3 N., R.12 W., at Camp Shelby, 8 miles south of Hattiesburg. Non-flowing artesian observation well, diameter 4 inches, depth 416 feet. Taps the Hattiesburg sand. Drilled in 1943. Measuring point, top of casing flange, 0.51 foot above concrete floor, 2 feet above land surface, and 260.4 feet above mean sea level.

MONTHLY HIGH AND LOW WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,
1945
(FROM RECORDER CHARTS)

Week Ending	High	Week Ending	Low
Jan. 27	126.65	Jan. 6	132.19
Feb. 24	126.08	Feb. 3	129.76
Mar. 3	126.12	Mar. 17	130.04
Apr. 28	125.74	Apr. 28	129.63
May 12	125.80	May 5	129.77
June 23	127.23	June 16	131.58
July 28	126.56	July 14	129.72
Aug. 4	126.54	Aug. 25	131.47
Sept. 1	128.93	Sept. 29	134.75
Oct. 27	127.80	Oct. 6	134.34
Nov. 24	126.72	Nov. 3	130.51
Dec. 22	125.90	Dec. 22	129.97

GRENADA COUNTY

Well 12. Holcomb School. SW.¼, SW.¼, Sec.15, T.22 N., R.3 E., behind school building in concrete block house. Flowing well, diameter at top 3 inches, reported depth 983 feet. Measuring point, top of casing tee, 2.7 feet above land surface, and 185.59 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, Jan. 16	27.40	1943, Apr. 3	27.70	1948, Oct. 16	15.30
Aug. 14	30.30	1944, Apr. 29	26.60	1949, July 18	23.95
1940, June 10	29.01	Dec. 14	24.60	1950, Mar. 28	25.20
July 30	29.41	*1945, Sept. 6	25.20	July 10	25.30
1941, Jan. 1	28.81	Dec. 27	24.10	Oct. 4	17.70
July 31	30.41	*1946, Mar. 5	25.10	1951, Jan. 9	18.20
Nov. 28	30.21	May 7	22.80	Apr. 2	17.30
Dec. 27	29.31	July 9	22.40	July 3	15.90
1942, Apr. 1	29.31	Sept. 10	22.20	Oct. 4	16.70
July 5	29.31	Dec. 16	24.60	Dec. 31	17.20
Sept. 20	27.71	1947, July 6	29.35	1952, Mar. 31	16.80
Dec. 23	28.41	Oct. 18	25.55	June 27	25.70
		1948, Aug. 3	23.80	Sept. 30	16.20

*Leak at well head

Well 16. Town of Holcomb. NW.¼, NW.¼, Sec.22, T.22 N., R.3 E., 75 feet north of post office and 30 feet west of State Highway 7. Domestic well, diameter 2 inches, reported depth about 360 feet. Measuring point, top of 2-inch casing tee, 3 feet above land surface, and 193.64 feet above mean sea level.

WATER LEVEL, IN FEET BELOW MEASURING POINT

Date	Water level	Date	Water level	Date	Water level
1939, Jan. 16	4.20	1941, Dec. 27	4.92	1944, Dec. 14	5.41
Aug. 14	4.63	1942, Apr. 1	5.56	1945, Sept. 6	14.76
1940, Mar. 11	4.44	July 5	8.66	Dec. 27	14.79
June 10	4.74	Sept. 20	10.03	1946, Mar. 5	16.28
July 30	5.74	Dec. 23	8.27	May 7	11.98
1941, Jan. 1	4.42	1943, Apr. 3	7.20	July 9	15.97
July 31	2.05	Dec. 28	8.30	Sept. 10	8.86
Nov. 28	4.45	1944, Apr. 29	7.35	Dec. 16	8.26

Measurements discontinued

Well 70. A. C. Riley. SW.¼, SW.¼, Sec.18, T.21 N., R.6 E., 2 miles east of Elliott, 8 miles southeast of Grenada, at base of small hill on south side of range road. Unused nonflowing artesian well, diameter 3 inches, depth 670 feet. Measuring point, top of casing, at land surface, and about 234 feet above mean sea level.

LOWEST MONTHLY WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
(FROM RECORDER CHARTS)

Week ending	Water level	Week ending	Water level	Week ending	Water level
1945					
Jan. 6	22.14	May 26	17.09	Sept. 8	24.50
Feb. 10	21.84	June 30	20.17	Oct. 6	23.35
Mar. 3	18.47	July 28	22.74	Nov. 24	21.25
Apr. 7	17.08	Aug. 25	24.26	Dec. 1	20.94
1946					
Jan. 5	18.17	Mar. 2	15.54	May 4	15.85
Feb. 2	16.94	Apr. 13	15.95		

Measurements discontinued

Well 72. Lynn Thomas. SW.¼, NW.¼, Sec.14, T.21 N., R.5 E., at Elliott, 7 miles southeast of Grenada, east of U. S. Highway 51, 300 feet northeast of I.C.R.R., 50 feet north of residence. Domestic nonflowing artesian well, diameter 2 inches, depth 447.5 feet. Measuring point, top of 2-inch casing, 2 feet above land surface, and 229.55 feet above mean sea level.

LOWEST MONTHLY WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
(FROM RECORDER CHARTS)

Week ending	Water level	Week ending	Water level	Week ending	Water level
1945					
Jan. 6	33.77	May 26	34.33	Sept. 15	42.46
Feb. 3	32.00	June 30	38.33	Oct. 6	39.94
Mar. 3	29.56	July 28	42.34	Nov. 3	36.08
Apr. 28	31.11	Aug. 4	42.34	Dec. 29	35.55
1946					
Jan. 5	34.58	May 4	28.12	Sept. 7	21.90
Feb. 9	30.30	June 1	24.83	Oct. 5	21.29
Mar. 9	28.50	July 6	21.78	Nov. 9	20.95
Apr. 27	27.30	Aug. 31	22.00	Dec. 14	20.90

HIGHEST MONTHLY WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, 1947

Date	Water level	Date	Water level	Date	Water level
Jan. 2	19.17	May 1	24.80	Sept. 1	27.49
Feb. 3	19.30	June 23	25.12	Oct. 9	27.90
Mar. 4	21.34	July 1	25.15	Nov. 3	28.51
Apr. 11	21.98	Aug. 5	25.43		

Measurements discontinued

Well 73. Carpenter farm. NW.¼, SW.¼, Sec.14, T.21 N., R.5 E., at Elliott, 7 miles southeast of Grenada, east of U. S. Highway 51, 230 feet west of I.C.R.R., 400 feet south of east-west road crossing tracks. Domestic nonflowing artesian well, diameter 2 inches, depth 300 feet. Taps the Meridian sand. Measuring point, top of casing, 1 foot above land surface, and about 229 feet above mean sea level.

LOWEST MONTHLY WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
(FROM RECORDER CHARTS)

Week ending	Water level	Week ending	Water level	Week ending	Water level
1945					
Jan. 6	20.57	May 26	19.66	Sept. 29	20.05
Feb. 3	20.48	June 30	19.70	Oct. 27	20.11
Mar. 3	20.23	July 28	19.81	Nov. 17	20.15
Apr. 7	19.77	Aug. 25	19.90	Dec. 22	20.20
1946					
Jan. 5	20.29	May 11	19.22	Sept. 28	19.33
Feb. 2	19.85	June 8	19.24	Oct. 19	19.41
Mar. 16	19.47	July 6	19.21	Nov. 30	19.63
Apr. 6	19.15	Aug. 31	19.21	Dec. 7	19.65

HIGHEST MONTHLY WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1947					
Jan. 30	18.72	Apr. 16	17.40	July 26	18.74
Feb. 8	17.96	May 21	18.33	Aug. 1	18.74
Mar. 24	17.57	June 9	18.51	Sept. 1	18.88

HARRISON COUNTY

Well 69. C. F. Burkhardt. SW.¼, SW.¼, Sec.25, T.7 S., R.10 W., 0.6 mile west of Biloxi, south of Veterans Administration Home. Domestic artesian well, diameter 3 inches, depth 720 feet. Taps the Graham Ferry formation. Reported static head when drilled in 1925, 35 feet above land surface. Measuring point, top of casing nipple, 0.5 foot above land surface and 29.42 feet above mean sea level. Equipped with pressure type water-stage recorder, March 20, 1945 to June 13, 1945.

WATER LEVEL, IN FEET WITH REFERENCE TO LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, Mar. 23	+19.4	1942, June 25	- 1.7	1944, Apr. 16	+ 3.1
1942, May 26	+ 2.2	1943, July 26	- 5.4		

HIGHEST AND LOWEST WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM
(FROM RECORDER CHARTS)

Date	High	Low	Date	High	Low
1945					
Mar. 20-24	3.1	1.5	Apr. 22-29	3.5	2.2
25-31	3.4	2.4	May 6-10	4.1	2.7
Apr. 1-7	3.8	1.6	16-26	4.8	3.6
8-14	3.6	2.3	27-30	4.1	3.4
14-17	3.7	3.2	June 7-13	3.5	2.5

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1946, May 9	2.45	Dec. 22	2.32		
July 18	3.21	Dec. 28	5.37		

MISSISSIPPI STATE GEOLOGICAL SURVEY

WATER LEVEL, IN FEET WITH REFERENCE TO LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1948, Apr. 16	+ 2.24	1950, July 7	- 7.65	1951, Dec. 28	- 6.59
Aug. 6	- 3.09	Sept. 30	- 6.00	1952, Mar. 28	-12.60
Oct. 16	- 1.30	Dec. 30	- 2.20	Sept. 27	-17.10
Dec. 31	+ 0.07	1951, Mar. 31	- 7.63		
1950, Mar. 22	- 0.05	June 30	- 7.50		

Note: Casing extended in 1946, new measurement point, top of casing, 5.4 feet above land surface.

Note: No measurements made in 1947, 1949.

Well 118. U. S. post office, Gulfport. NW.¼, NE.¼, Sec.9, T.8 S., R.11 W., on lawn at southwest corner of post office. Artesian well, diameter 3 inches, reported depth 1,262 feet. Measuring point, top of cross, 1.7 feet above land surface, and 18 feet above mean sea level. Water level, 66.0 feet above land-surface datum, Sept. 2, 1919.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Hour	Water level	Date	Hour	Water level
1939					
Mar. 15	—————	21.7	Sept. 13	9:00 p.m.	18.6
June 15	6:00 a.m.	26.5	Oct. 9	12:01 p.m.	24.7
25	7:15 p.m.	23.0	21	6:45 p.m.	20.1
July 1	7:30 p.m.	22.8	Nov. 3	8:00 p.m.	20.6
31	12:15 a.m.	26.3	30	2:00 a.m.	25.8
Aug. 1	1:00 p.m.	26.0	Dec. 17	3:45 p.m.	26.1
11	4:15 a.m.	20.6	22	2:45 p.m.	22.8
Sept. 2	6:00 a.m.	23.7			
1940					
Jan. 29	7:45 a.m.	16.0	July 18	10:00 p.m.	20.6
31	8:45 a.m.	27.1	25	3:30 p.m.	23.1
Feb. 9	4:00 a.m.	24.0	Aug. 2	12:15 a.m.	20.7
10	6:20 p.m.	16.6	15	3:45 p.m.	24.0
Mar. 9	9:45 p.m.	18.6	Sept. 7	2:15 p.m.	19.8
30	3:00 p.m.	24.5	30	1:15 p.m.	23.7
Apr. 14	4:15 a.m.	21.7	Oct. 13	5:00 p.m.	23.8
23	3:30 p.m.	25.4	23	5:00 p.m.	20.7
May 1	2:00 p.m.	24.2	Nov. 15	11:00 a.m.	21.8
31	2:00 p.m.	20.9	25	2:30 p.m.	23.7
June 7	3:45 a.m.	21.0	Dec. 10	8:15 a.m.	21.7
11	1:30 p.m.	23.1	27	4:30 p.m.	24.0

WATER LEVELS AND ARTESIAN PRESSURES

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MONTHLY HIGH AND LOW WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	High	Date	Low	Date	High	Date	Low
1941				1942			
Jan. 16	23.9	Jan. 10	21.2	Jan. 1	23.5	Jan. 15	21.6
Feb. 13	23.3	Feb. 11	21.5	Feb. 16	23.5	Feb. 3	21.7
Mar. 20	23.7	Mar. 2	21.7	Mar. 17	23.7	Mar. 2	21.7
Apr. 4	24.0	Apr. 14	20.1	Apr. 9	23.7	Apr. 23	21.0
May 5	25.5	May 28	18.6	May 18	23.4	May 8	20.9
June 23	23.2	June 6	20.9	June 4	23.3	June 18	20.7
July 5	23.1	July 25	20.9	July 7	22.1	July 13	17.3
Aug. 2	22.9	Aug. 22	20.7	Aug. 20	21.7	Aug. 5	17.7
Sept. 13	23.0	Sept. 5	20.8	Sept. 28	21.1	Sept. 10	18.9
Oct. 2	23.2	Oct. 31	18.2	Oct. 8	21.4	Oct. 24	18.4
Nov. 15	21.9	Nov. 8	17.6	Nov. 6	20.5	Nov. 24	18.4
Dec. 23	22.2	Dec. 8	20.7	Dec. 26	20.1	Dec. 9	17.7
1943				1944			
Jan. 20	20.6	Jan. 8	16.5	Jan. 30	18.9	Jan. 10	15.6
Feb. 10	20.8	Feb. 8	18.8	Feb. 28	19.5	Feb. 12	15.4
Mar. 11	20.8	Mar. 4	17.7	Mar. 22	20.3	Mar. 23	17.4
Apr. 9	21.2	Apr. 23	18.5	Apr. 15	20.2	Apr. 13	17.5
May 13	19.7	May 22	14.6	May 10	20.2	May 27	13.7
June 28	18.0	June 19	12.0	June 4	12.8	June 26	4.3
July 5	17.9	July 16	12.1	July 17	12.7	July 26	4.2
Aug. 23	17.9	Aug. 27	12.2	Aug. 14	14.0	Aug. 30	5.5
Sept. 29	18.7	Sept. 3	12.7	Sept. 4	12.5	Sept. 30	9.5
Oct. 6	19.0	Oct. 25	15.4	Oct. 2	11.4	Oct. 11	9.1
Nov. 15	19.1	Nov. 6	15.4	Nov. 4	14.3	Nov. 4	8.0
Dec. 4	19.1	Dec. 16	9.9	Dec. 18	13.9	Dec. 15	9.2
1945				1946			
Jan. 1	14.4	Jan. 23	8.0	Jan. 30	19.7	Jan. 24	14.1
Feb. 6	13.7	Feb. 1	9.0	Feb. 21	18.7	Feb. 1	15.4
Mar. 4	14.0	Mar. 13	10.3	Mar. 30	19.5	Mar. 9	14.5
Apr. 1	14.5	Apr. 6	9.7	Apr. 3	20.3	Apr. 12	16.6
May 1	14.2	May 18	10.3	May 28	17.5	May 20	12.3
June 5	11.2	June 15	4.8	June 2	17.7	June 20	11.5
July 1	10.6	July 10	6.9	July 8	16.7	July 15	12.7
Aug. 23	10.7	Aug. 7	5.9	Aug. 1	16.3	Aug. 11	9.4
Sept. 25	10.9	Sept. 8	5.4	Sept. 30	16.5	Sept. 14	11.1
Oct. 15	14.9	Oct. 20	9.7	Oct. 7	16.7	Oct. 27	11.1
Nov. 12	15.4	Nov. 2	8.2	Nov. 22	15.5	Nov. 5	10.5
Dec. 27	18.7	Dec. 5	12.4	Dec. 26	17.5	Dec. 21	11.8

MONTHLY HIGH AND LOW WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	High	Date	Low	Date	High	Date	Low
1947				1948			
Jan. 29	18.7	Jan. 30	13.2	Jan. 24	30.9	Jan. 19	11.4
Feb. 1	20.1	Feb. 13	14.7	Feb. 23	18.3	Feb. 1	11.6
Mar. 7	18.9	Mar. 16	12.4	Mar. 23	18.4	Mar. 5	9.4
Apr. 1	17.9	Apr. 28	11.0	Apr. 4	17.7	Apr. 30	12.1
May 5	15.7	May 29	10.8	May 10	17.3	May 25	7.4
June 5	14.0	June 29	6.6	June 2	12.2	June 30	4.9
July 1	9.7	July 26	1.9	July 4	7.6	July 24	1.6
Aug. 15	11.9	Aug. 5	5.7	Aug. 23	11.8	Aug. 12	2.0
Sept. 9	12.0	Sept. 17	4.7	Sept. 4	13.4	Sept. 3	7.2
Oct. 31	13.4	Oct. 10	3.6	Oct. 31	15.0	Oct. 8	8.7
Nov. 30	15.5	Nov. 1	10.0	Nov. 27	16.1	Nov. 27	13.1
Dec. 25	18.0	Dec. 3	12.5	Dec. 1	16.1	Dec. 3	14.7
1949							
Aug. 27	17.3	Aug. 28	14.5				
Sept. 26	17.8	Sept. 5	15.2				
Oct. 5	17.8	Oct. 21	12.8				
Nov. 12	18.0	Nov. 4	15.6				
Dec. 22	18.4	Dec. 2	16.3				
1950							
Jan. 31	18.5	Jan. 20	16.7	June 11	16.0	June 30	10.0
Feb. 14	18.7	Feb. 16	16.4	July 19	16.0	July 1	9.1
Mar. 8	18.2	Mar. 30	15.8	Aug. 30	16.0	Aug. 15	10.6
Apr. 3	18.0	Apr. 26	7.1	Sept. 4	16.5	Sept. 22	12.2
May 22	16.3	May 6	7.6	Oct. 12	16.6	Oct. 7	13.7

Well 120. City of Biloxi. NE.¼, NE.¼, Sec.31, T.7 S., R.9 W., at 1332 W. Howard Ave., between West End fire station and railroad tracks. Municipal artesian well, diameter 8 inches, depth 928 feet. Taps the Pascagoula water-bearing sand. Reported static head when drilled in 1903, 44 feet. Measuring point, top of well cross, at land surface and 21.28 feet above mean sea level.

WATER LEVELS AND ARTESIAN PRESSURES

MONTHLY HIGH AND LOW WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Week ending	High	Week ending	Low
1945, Jan. 27	3.80	1945, Jan. 13	0.93
Feb. 3	3.62	Feb. 24	1.36
Mar. 24	5.06	Mar. 10	2.18
Apr. 21	5.36	Apr. 7	1.84
May 26	4.26	May 19	1.51
June 30	7.46	June 2	2.79
July 7	7.75	July 21	4.40
Aug. 25	8.56	Aug. 4	5.96
Sept. 1	10.93	Sept. 22	6.70
Oct. 6	7.70	Oct. 20	4.37
Nov. 3	5.50	Nov. 17	3.00
Dec. 1	4.20	Dec. 15	2.37
1946, Jan. 19	7.43	1946, Jan. 19	6.28
Feb. 2	7.00	Feb. 23	5.05
Mar. 23	8.61	Mar. 2	5.30
Apr. 20	8.67	Apr. 20	6.38
May 4	8.41	May 18	5.72
June 1	7.71	June 8	5.17

Well 147. Gulf and Ship Island R.R. NE.¼, NW.¼, Sec.18, T.5 S., R.11 W., 600 feet east of U. S. Highway 49, near crest of low ridge, 1.5 miles southeast of Saucier. Dug domestic water-table well, diameter at top 3 feet, depth 23.4 feet. Measuring point, top of well curb 2.8 feet above land surface and about 145 feet above mean sea level.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1941, Feb. 28	19.15	1944, Apr. 16	16.50	1948, Oct. 17	16.65
Mar. 31	18.86	1945, Feb. 20	16.06	Dec. 31	16.30
May 31	19.70	Mar. 20	17.05	1949, July 27	15.90
June 30	20.10	May 10	17.43	1950, Mar. 22	17.55
July 29	19.30	Aug. 30	17.29	July 7	19.65
Aug. 29	19.30	Oct. 15	18.35	Sept. 30	19.30
Sept. 28	19.01	Dec. 29	17.93	Dec. 30	19.80
Oct. 18	19.16	1946, Mar. 8	16.61	1951, Mar. 31	17.55
Dec. 31	18.98	May 8	16.96	June 30	19.05
1942, Jan. 28	18.57	July 18	17.36	Oct. 2	19.35
Mar. 28	16.49	Dec. 19	dry	Dec. 28	20.08
May 27	18.06	1947, July 5	16.38	1952, Mar. 28	18.20
July 31	18.11	Oct. 17	16.87	June 24	16.30
		1948, Apr. 16	17.00	Sept. 27	19.40
		Aug. 5	18.89	Dec. 30	18.95

HINDS COUNTY

Well J19. Alton T. Ellick. SE.¼, NW.¼, Sec.24, T.6 N., R.1 E., at Jackson on old Canton road, 2.0 miles north of junction of North State Street and old Canton road, and 400 feet south of road. Domestic nonflowing artesian well, diameter 4 inches, depth 640 feet. Taps the Kosciusko (Sparta) water-bearing sand. Measuring point, top of ½-inch hole in steel plate flush with concrete floor and at top of casing, at land surface and 372.44 feet above mean sea level. Drilled in 1941.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1945, Nov. 2	187.13	1946, Mar. 10	184.37	1946, Sept. 12	188.61
Dec. 11	186.03	May 10	185.20	Dec. 18	190.84
1946, Jan. 15	184.49	July 11	184.89		

Measurements discontinued

Well J21. Virginia-Carolina Chemical Co. NE.¼, NW.¼, Sec.27, T.6 N., R.1 E., at Jackson, 0.7 mile north of Woodrow Wilson Ave. and Mill St., 300 feet west of main I.C.R.R. tracks, in concrete sump. Nonflowing artesian well, estimated depth 700 feet. Taps the Kosciusko (Sparta) water-bearing sand. Well casing is filled to within 250 feet of surface; however, the filling is believed to be sufficiently porous to permit a delayed but otherwise faithful record of the trend of variation in artesian pressure. Measuring point, top of 6-inch steel casing, 1.0 foot below land surface, and 333.12 feet above mean sea level. Water levels, in feet below land surface datum, 1944: Sept. 11, 142.73 ft.; Sept. 21, 143.00 ft.; Sept. 27, 143.16 ft.

MONTHLY HIGHEST WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
(FROM RECORDER CHARTS)

Week ending	Water level	Week ending	Water level	Week ending	Water level
1944, Oct. 28	143.23	1945, Mar. 31	143.35	1945, Aug. 18	143.70
Nov. 4	143.79	Apr. 28	143.30	Sept. 1	144.24
Dec. 9	143.75	May 17	143.24	Oct. 6	144.99
1945, Jan. 6	143.72	June 23	143.37	Nov. 3	145.29
Feb. 25	143.50	July 14	143.42	Dec. 8	145.50

Recorder removed after 1945

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1947, July 5	146.50	1950 July 3	161.56	1951, Dec. 8	149.60
Oct. 17	146.60	Aug. 4	163.40	1952, Jan. 5	154.90
1949, Aug. 12	154.38	Sept. 8	164.90	Feb. 2	160.70
Sept. 13	158.77	Oct. 4	163.18	Mar. 2	163.60
Oct. 5	158.22	Nov. 5	163.71	Apr. 2	168.60
Nov. 1	158.77	Dec. 11	164.40	May 5	163.80
Dec. 1	158.49	1951, Jan. 4	163.40	July 6	169.18
1950, Jan. 19	154.38	July 2	136.90	Aug. 4	170.40
Mar. 2	155.76	Aug. 6	139.00	Sept. 8	171.90
Apr. 3	160.77	Sept. 4	118.20	Oct. 2	172.80
May 4	160.70	Oct. 2	141.60	Nov. 5	173.10
June 2	156.50	Nov. 6	151.70	Dec. 5	175.40

Well J.25. (Designated as Hinds 21 in U.S.G.S. Water-Supply Paper 576). Country Club of Jackson. SE.¼, SW.¼, Sec.25, T.6 N., R.1 W., on Clinton Blvd., 350 feet north of Clinton Blvd., 100 feet north of club building. Non flowing artesian well, depth 862 feet. Taps the Kosciusko (Sparta) water-bearing sand. Drilled in 1915. Measuring point, top of 6-inch casing, 0.4 foot above land surface and 373.34 feet above mean sea level.

MONTHLY WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1944, Sept. 15	189.73	1946, Dec. 7	191.50	1948, Jan. 12	192.78
1945, Aug. 31	190.97	1947, Jan. 6	191.30	Feb. 7	192.94
Sept. 12	191.07	Feb. 10	190.90	Mar. 4	192.66
Oct. 4	191.64	Mar. 16	190.60	Apr. 9	192.77
Nov. 1	191.13	Apr. 19	190.45	May 7	193.21
Dec. 9	191.54	May 11	190.40	June 1	192.50
1946, Jan. 15	189.69	June 22	191.80	July 9	195.38
Mar. 9	189.13	July 4	192.21	Aug. 9	198.22
Apr. 6	189.10	Aug. 1	192.94	Nov. 30	200.23
May 3	189.35	Sept. 10	193.46	Dec. 6	192.92
June 2	189.25	Oct. 3	193.76	1949, Jan. 23	199.73
July 1	190.10	Nov. 4	193.80	Feb. 5	199.83
Aug. 3	190.60	Dec. 2	193.41	Mar. 9	199.63
Sept. 7	191.60				

MONTHLY WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1949, Apr. 12	199.51	1950, Apr. 11	205.46	1952, Feb. 6	213.50
May 6	199.95	May 3	205.06	Mar. 5	213.10
June 3	201.62	June 5	207.28	Apr. 2	215.00
July 5	202.46	July 3	207.94	May 5	219.40
Aug. 1	203.03	Aug. 9	209.40	June 6	214.40
Sept. 7	203.96	Sept. 8	209.10	July 2	214.80
Oct. 5	204.26	Oct. 4	209.10	Aug. 2	217.40
Nov. 1	203.42	Nov. 3	209.42	Sept. 1	220.70
Dec. 1	203.90	Dec. 11	209.70	Oct. 2	222.40
1950, Jan. 19	206.40	1951, Jan. 4	207.80	Nov. 4	222.10
Feb. 8	205.80	Jan. 23	213.90	Dec. 5	221.10
Mar. 4	204.36	1952, Jan. 2	214.40		

Well J38. Mississippi Cotton Oil Co. NE.¼, SW.¼, Sec.4, T.5 N., R.1 E., at Jackson, on Gallatin St., 675 feet north of Capitol St., 225 feet west of Gallatin St., 3-foot high casing in open area. Nonflowing artesian well, depth about 730 feet. Taps the Kosciusko (Sparta) water-bearing sand. Drilled about 1930. Measuring point, top of 0.14-foot thick board above flange which is at top of 4-inch steel casing, 3.4 feet above land surface, 285.56 feet above mean sea level. Well is 40 feet north of same-depth well (J39) which is used intermittently.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1944, Sept. 13 a	121.33	Sept. 21 d	124.75	Oct. 30 g	115.08
13 b	121.61	21 e	124.74	Nov. 8 g	114.20
21 c	123.76	27 f	124.56	25 g	112.22

- a. Well J39 off 30 min.
- b. Well J39 off 2 hrs.
- c. Well J39 off 6 hrs.
- d. Well J39 off 35 min.

- e. Well J39 off 3½ hrs.
- f. Well J39 off 3 hrs.
- g. Well J39 not pumping

MONTHLY WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1945, Jan. 20	106.79	1947, Feb. 17	123.40	1950, Sept. 8	151.80
Feb. 3	107.10	Mar. 11	121.80	Oct. 4	146.10
Mar. 17	105.77	Apr. 2	111.70	Nov. 5	151.20
Apr. 7	105.04	May 3	125.40	Dec. 11	153.80
May 5	104.10	July 16	124.20	1951, Jan. 4	126.40
June 9	118.91	Aug. 6	124.15	July 2	140.20
July 7	121.33	Sept. 2	123.80	Aug. 6	138.30
Aug. 4	121.67	Oct. 3	123.90	Sept. 4	136.50
Sept. 1	121.43	Nov. 4	123.80	Oct. 1	134.60
Oct. 6	123.95	1948, -----	-----	Nov. 3	134.00
Nov. 3	112.42	1949, Aug. 12	135.56	Dec. 3	133.20
Dec. 15	109.18	Sept. 13	143.39	1952, Jan. 5	132.70
1946, Apr. 6	109.60	Oct. 5	136.95	Feb. 2	131.40
May 4	109.80	Nov. 1	139.88	Mar. 3	130.30
June 1	114.90	Dec. 1	137.30	Apr. 2	129.10
July 6	119.60	1950, Jan. 19	135.40	May 5	129.50
Aug. 3	119.40	Mar. 2	128.40	July 6	155.82
Sept. 7	124.70	Apr. 3	127.86	Aug. 4	156.20
Oct. 5	124.90	May 4	138.37	Sept. 8	156.70
Nov. 9	121.30	June 2	144.80	Oct. 2	156.75
Dec. 7	118.10	July 3	149.60	Nov. 5	156.30
1947, Jan. 8	121.10	Aug. 4	151.30	Dec. 5	140.20

Well J46. Mississippi Power & Light Co. NE.¼, NE.¼, Sec.10, T.5 N., R.1 E., at Jackson, on Tombigbee St., 175 feet east of railroad tracks in center of South Commerce St., 40 feet south of center of Tombigbee St., between power substation buildings and near sidewalk. Nonflowing artesian well, estimated depth 750 feet. Taps the Kosciusko (Sparta) water-bearing sand. Water level changes are chiefly caused by intermittent pumpage of well J45, 300 feet west of well J46. Drilled about 1927. Measuring point, top of 10-inch coupling at top of well casin, 1.1 feet above land surface and 281.75 feet above mean sea level.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1945, Aug. 31	116.73	1946, Sept. 12	117.21	1950, Mar. 2	121.40
Sept. 12	118.03	Dec. 18	109.14	Apr. 3	120.50
Oct. 4	117.57	1947, July 5	122.60	May 4	128.66
Nov. 2	107.48	Oct. 17	117.26	June 2	132.70
Dec. 7	103.40	1949, Aug. 12	130.31	July 3	138.57
1946, Jan. 15	103.50	Sept. 13	128.20	Aug. 4	137.60
Jan. 30	101.82	Oct. 5	128.00	Sept. 8	138.10
Mar. 9	104.48	Nov. 1	129.35	Oct. 4	151.70
May 10	104.80	Dec. 1	127.00	Nov. 6	141.5
July 11	113.33	1950, Jan. 19	119.70	Dec. 11	139.1

HOLMES COUNTY

Well 38. (Holmes 30 in Water-Supply Paper 576, p. 217). Town well of Tchula. NW.¼, NW.¼, Sec.8, T.15 N., R.1 E., in front of pump house, 25 feet east of center of Jefferson St. Drilled in 1916. Artesian well, diameter 4 inches, reported depth 987 feet. Finished with perforated pipe. Measuring point, top of well tee, flush with land surface and 118.25 feet above mean sea level. Found flowing Dec. 24, 1938.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1919, (?)	52.00	1942, Apr. 1	19.65	1946, Mar. 7	18.50
1936, (?)	50.6(?)	July 5	18.35	May 8	18.60
1938, Dec. 24	20.50	Sept. 20	19.25	July 10	18.60
1939, Nov. 1	18.40	Dec. 23	20.55	Sept. 11	16.00
1940, Mar. 13	18.54	1943, Apr. 3	19.20	Dec. 17	16.90
June 11	20.35	July 5	18.10	1947, July 4	17.15
July 30	27.25	Dec. 28	19.10	Oct. 18	15.75
Dec. 5	19.95	1944, Apr. 14	20.40	1948, Apr. 17	18.73
1941, July 31	13.15	1945, Jan. 5	19.40	Aug. 4	15.73
Nov. 28	20.65	May 5	18.70	Oct. 16	15.70
Dec. 27	19.75	Sept. 6	16.90	1949, Jan. 1	15.90
		Dec. 28	18.80	1950, Mar. 24	32.15

Measurements discontinued

Well 59. M. L. Smith, Thornton, Miss. SE.¼, NW.¼, Sec.8, T.14 N., R.1 W., 25 feet south of U. S. Highway 49E and 300 feet west of Y. and M.V.R.R. tracks. Drilled in June, 1938. Artesian well, diameter 3 to 2 inches, reported depth 1,597 feet. Finished with 40 feet of screen. Measuring point, top of well tee, flush with land surface and 111.72 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1938, Nov. 20	130.5	1944, Apr. 14	125.8	1949, Jan. 1	126.59
1939, Feb. 15	130.8	1945, May 5	129.2	July 19	126.09
1940, June 11	128.8	Sept. 6	127.5	1950, Mar. 23	125.14
July 30	127.7	Dec. 28	127.2	July 9	129.14
1941, July 31	139.6	1946, Mar. 7	128.6	Oct. 3	125.14
Nov. 28	131.5	May 8	128.2	1951, Jan. 8	123.64
Dec. 27	128.1	July 10	128.7	Apr. 2	123.94
1942, Apr. 1	129.5	Sept. 11	128.8	July 3	124.64
July 5	130.2	1947, July 4	124.5	Oct. 5	123.14
Sept. 20	129.5	Oct. 18	123.1	Dec. 31	123.14
Dec. 23	125.5	1948, Apr. 17	127.74	1952, Mar. 30	123.64
1943, Apr. 3	125.8	Aug. 4	127.33	June 26	121.14
July 5	123.7	Oct. 16	128.19	Sept. 29	122.14
Dec. 28	121.8				

HUMPHREYS COUNTY

Well 4. (Humphreys 8 in Water-Supply Paper 576, p. 223). J. D. Lee, Isola, Miss., NW.¼, SW.¼, Sec.2, T.16 N., R.4 W., in southwest corner of barnyard 300 feet east of U. S. Highway 49W on north bank of Jackson Bayou. Drilled in 1912. Artesian well, diameter 4 inches, reported depth 1,356 feet. Measuring point, top of well cross, 2 feet above land surface. Pressure head in feet above measuring point: 1919, 28; Dec. 10, 1938, 18.8 (found flowing).

Well 10. Wister Henry. NW.¼, NE.¼, Sec.35, T.16 N., R.3 W., 0.3 mile east of U. S. Highway 49W and 600 feet northeast of owner's house. Domestic artesian well, diameter 2 inches, reported depth 1,627 feet. Measuring point, top of casing tee, 0.5 foot above land surface and 114.90 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, Nov. 1	105.2	1944, Apr. 30	105.2	1948, Dec. 31	99.95
1940, Mar. 14	105.9	1945, Sept. 6	101.2	1949, July 19	98.90
Apr. 3	108.3	Dec. 28	101.6	1950, Mar. 23	100.35
May 2	107.1	1946, Mar. 7	103.3	July 9	97.85
June 1	108.1	May 8	98.6	Oct. 3	100.85
July 1	107.0	July 10	102.3	1951, Jan. 8	97.85
Aug. 20	108.5	Sept. 11	102.0	Apr. 2	88.85
Sept. 1	108.5	Dec. 17	99.7	July 3	96.85
Dec. 6	113.0	1947, July 4	100.4	Oct. 4	98.55
1941, Jan. 4	111.5	Oct. 18	100.2	Dec. 31	96.85
Feb. 1	114.3	1948, Apr. 17	100.42	1952, Mar. 30	97.35
Dec. 27	102.3	Aug. 4	99.73	June 26	96.25
		Oct. 16	99.45	Sept. 29	95.25

Well 18. (Humphreys 3 in Water-Supply Paper 576, p. 223). J. C. Holbrook, Belzoni, Miss. NW.¼, SE.¼, Sec.3, T.15 N., R.3 W., at site of former Interstate Cooperage Co. plant, 200 feet west of drainage ditch on west side of town. Drilled in 1907. Artesian well, diameter 4 inches, reported depth 756 feet. Finished with 30 feet of screen. Measuring point, top of 4-inch elbow, 1.4 feet above land surface and 109.40 feet above mean sea level.

MISSISSIPPI STATE GEOLOGICAL SURVEY

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1919, (?)	22.0	1940, Sept. 1	9.0	1946, Sept. 11	7.67
1938, Dec. 12	8.1	Oct. 2	8.0	Dec. 17	8.27
1939, May 11	10.7	Nov. 25	7.5	1947, July 4	7.53
June 6	9.8	Dec. 18	6.6	1948, Apr. 17	7.23
July 1	9.6	1941, Jan. 4	9.8	Aug. 4	5.43
Aug. 8	9.5	Feb. 5	9.8	Oct. 16	6.15
Sept. 2	9.3	Mar. 1	9.4	Dec. 31	8.15
Oct. 4	8.9	Apr. 2	10.6	1949, July 20	7.60
Nov. 3	8.3	May 3	10.4	1950, Mar. 23	7.93
Dec. 3	8.5	June 4	10.0	July 9	5.73
1940, Jan. 3	7.8	1944, Apr. 30	8.6	Oct. 3	5.43
Mar. 18	9.0	1945, Jan. 4	6.9	1951, Jan. 8	6.93
Apr. 1	8.1	Sept. 6	8.05	Apr. 2	8.43
May 2	9.0	Dec. 28	7.26	July 3	6.57
June 8	8.5	1946, Mar. 7	7.15	Oct. 4	6.37
July 1	8.6	May 8	7.55	Dec. 31	6.87
Aug. 2	8.5	July 10	8.15	1952, Mar. 30	5.37

Measurements discontinued

Well 56. Town of Louise. NE.¼, NE.¼, Sec.15, T.13 N., R.4 W., south side of road near town hall and about 300 feet east of U. S. Highway 49W. Municipal artesian well, diameter 6 inches, reported depth 909 feet. Measuring point, top of union on 4-inch pump discharge pipe, 2 feet above land surface and 108 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, May 13	23.2	1944, Apr. 14	20.9	1948, Oct. 16	12.60
Aug. 17	24.3	1945, Jan. 4	19.2	Dec. 31	16.35
1940, Mar. 14	23.7	Aug. 31	19.0	1949, July 18	17.60
June 11	24.1	Sept. 6	19.2	1950, Mar. 23	18.40
Dec. 5	23.5	Dec. 28	18.3	July 8	16.10
1941, July 31	21.2	1946, Mar. 7	18.9	Oct. 2	16.10
Nov. 28	23.3	May 8	18.9	1951, Jan. 1	14.60
1942, Apr. 1	22.6	July 10	18.2	Apr. 1	15.60
July 4	21.7	Sept. 11	19.7	July 2	15.30
Sept. 24	21.5	Dec. 17	18.3	Dec. 29	11.10
Dec. 23	21.5	1947, July 4	14.25	1952, Mar. 29	10.30
1943, Apr. 2	21.5	Oct. 17	18.35	June 26	25.00
July 5	20.9	1948, Apr. 17	15.11		
Dec. 28	19.7	Aug. 3	17.10		

ISSAQUENA COUNTY

Well 24. W. W. Gary. SE.¼, NE.¼, Sec.12, T.9 N., R.7 W., within levee of old lumber yard at Valley Park, 51 feet east of center of U. S. Highway 61. Domestic artesian well diameter 6 inches, reported depth 1,300 feet. Measuring point, top of tee, 3.3 feet above land surface and 98.13 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, Feb. 9	48.60	1941, July 24	51.17	1942, Sept. 23	49.87
1940, Mar. 12	50.97	Nov. 28	49.57	Dec. 23	47.87
June 11	52.67	Dec. 27	49.37	1943, No measurements	
Aug. 10	54.47	1942, Apr. 2	50.57	1944, Apr. 14	43.9
Dec. 31	50.62	July 4	51.27		

Measurements discontinued

JACKSON COUNTY

Well 9. Camp McClellan, Civilian Conservation Corps. SE.¼, NW.¼, Sec.35, T.6 S., R.9 W., approximately 0.5 mile west of public road and 150 yards south of secondary road, 25 feet southwest of a concrete foundation. Unused artesian camp well, diameter at top 3 inches, measured depth 954 feet. Measuring point, top of casing tee, 2.6 feet above land surface and about 45 feet above mean sea level. Water-stage recorder maintained on well from Feb. 9, 1940 to Oct. 11, 1942.

MONTHLY WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Feb. 9	34.8	1941, Jan. 4	42.5	1941, Dec. 13	43.4
Mar. 4	46.1	Feb. 1	42.2	1942, Jan. 3	37.1
Apr. 1	39.6	Mar. 1	42.4	Feb. 14	36.9
May 5	41.8	Apr. 5	42.5	Mar. 7	36.9
June 1	41.9	May 3	42.5	Apr. 4	36.8
July 3	42.9	June 7	42.5	May 2	37.0
Aug. 19	43.8	July 5	42.6	June 6	37.1
Sept. 2	42.6	Aug. 2	42.6	July 4	37.0
Oct. 3	42.6	Sept. 6	42.5	Aug. 1	36.9
Nov. 1	42.5	Oct. 4	42.6	Sept. 26	36.9
Dec. 4	41.5	Nov. 1	43.6	Oct. 10	36.7

Well 65. Gulf Hills Development Co. NW.¼, NE.¼, Sec.24, T.7 S., R.9 W., behind Club house. Artesian well, diameter at top 4 inches, reported depth 873 feet. Measuring point top of casing tee, 2.4 feet above land surface and about 19 feet above mean sea level. Water level in feet above measuring point: 1940, Aug. 29, 22.4.

JONES COUNTY

Well 27. (14 in Water-Supply Paper 576, p. 253). Starch plant, U. S. Dept. of Agri. NE.¼, SE.¼, Sec.7, T.8 N., R.11 W., on the north edge of entrance drive, 75 feet south of the southwest corner of the plant office at Laurel. Abandoned industrial well, diameter at top 10 inches, reported depth 272.5 feet, completely cased and screened. Measuring point, top of well casing, 2 feet above land surface and about 230.6 feet above mean sea level. Measurements show pumping level in area of heavy and continuous pumping. Water-stage recorder maintained on well from Dec. 2, 1940 to Aug. 24, 1946.

MONTHLY WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, May 11	121.6	1942, June 8	132.6	1944, July 3	120.40
June 1	122.6	July 7	134.65	Aug. 7	118.60
July 6	139.4	Aug. 7	134.30	Sept. 5	115.00
Aug. 3	128.8	Sept. 1	126.80	Oct. 2	124.70
Sept. 7	124.4	Oct. 5	131.95	Nov. 6	115.10
Oct. 5	130.6	Nov. 2	132.40	Dec. 4	113.40
Nov. 2	138.6	Dec. 5	133.15	1945, Jan. 13	114.41
Dec. 3	138.0	1943, Jan. 10	122.50	Feb. 3	115.72
1941, Jan. 4	113.4	Feb. 1	123.70	Mar. 3	127.00
Feb. 1	108.5	Mar. 4	125.70	Apr. 14	135.40
Mar. 1	103.5	Apr. 10	121.00	May 5	131.50
Apr. 5	88.6	May 1	114.80	June 2	132.70
May 3	100.0	June 7	122.50	July 7	122.23
June 7	97.9	July 2	117.70	Aug. 4	123.97
July 5	96.5	Aug. 2	116.00	Sept. 1	134.40
Aug. 2	92.5	Sept. 7	110.30	Oct. 6	137.47
Sept. 6	89.6	Oct. 4	124.70	1946, Jan. 5	134.28
Oct. 4	90.4	Nov. 1	108.60	Feb. 2	133.78
Nov. 1	83.1	Dec. 6	114.00	Mar. 2	133.34
Dec. 6	87.7	1944, Jan. 3	110.20	Apr. 6	133.14
1942, Jan. 1	128.1	Feb. 7	114.20	May 4	134.47
Feb. 7	132.6	Mar. 6	117.30	June 1	133.23
Mar. 5	130.25	Apr. 3	116.50	July 6	126.97
Apr. 6	128.85	May 1	117.30	Aug. 3	111.41
May 5	130.4	June 5	128.10		

Well 3a. City well at Laurel. Located at water works plant. Municipal well, diameter 12 inches, depth 396 feet. Measuring point, top of opening in base of pump, about 0.5 foot above land surface. Static water level when completed in April 1945, 124 feet.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1950, Mar. 19	137.00	1951, Mar. 31	158.50	1952, Mar. 28	150.88
July 7	149.20	June 30	164.25	June 24	160.20
Sept. 30	141.10	Oct. 2	164.65	Sept. 26	158.60
Dec. 30	134.70	Dec. 28	133.40	Dec. 29	139.00

Well 28. Gilchrist-Fordney Lumber Co. NE.¼, SW.¼, Sec.32, T.9 N., R.11 W., at Laurel, on south side of private road which joins First Ave. at 13th St., and 380 feet south-southeast of crossing at G.M. & N. R.R. tracks. Unused industrial well, diameter at top 8 inches, reported depth 800 feet, completely cased and screened. Measuring point, top of well casing, 0.2 foot above land surface and 270.82 feet above mean sea level. Water level affected by barometric pressure. Water-stage recorder maintained on well from May 11, 1940 to Nov. 8, 1941.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, May 11	102.5	1940, Nov. 2	109.4	1941, May 3	101.36
June 15	104.4	Dec. 1	105.7	June 7	109.28
July 20	105.9	1941, Jan. 4	99.51	July 5	110.26
Aug. 3	128.3	Feb. 1	97.93	Aug. 2	110.94
Sept. 8	110.5	Mar. 1	98.08	Sept. 6	111.18
Oct. 22	105.9	Apr. 5	101.46	Oct. 4	110.01
				Nov. 1	110.78

Well 30. Ed Howard. SE.¼, SE.¼, Sec.11, T.9 N., R.11 W., 5 miles northeast of Laurel, south of tenant house and 100 yards west of U. S. Highway 11. Domestic well, diameter at top 8 inches, measured depth 21.5 feet. Measuring point, top of wooden curbing, 3.0 feet above land surface and about 304 feet above mean sea level.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Aug. 31	14.68	1942, Jan. 28	14.96	1946, Mar. 8	11.17
Sept. 28	14.70	Mar. 29	14.19	May 9	11.59
Oct. 29	14.94	July 16	15.34	July 18	12.95
Nov. 29	15.05	1943, May 24	14.80	Dec. 21	12.69
1941, Feb. 28	15.04	1944, Apr. 15	13.50	1947, July 5	11.09
Mar. 31	14.17	Nov. 13	15.00		
May 31	15.47	1945, Feb. 19	12.10		
June 30	16.03	Mar. 22	12.70		
July 29	15.30	Aug. 30	13.40		
Aug. 29	15.61	Oct. 15	13.62		
Sept. 28	15.97	Dec. 29	12.12		
Dec. 30	15.23				

Measurements discontinued

Well 00. Mr. M. Brannon. NE.¼, SW.¼, Sec.25, T.7 N., R.13 W., on west side of U. S. Highway 11, 0.7 mile southeast of Tawanta and at rear of Brannon residence. Used domestic water-table well, diameter at top 8 inches, reported depth 90 feet. Measuring point, top of wood curbing at base of hinged cover, 3.2 feet above land surface and about 352 feet above mean sea level.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Sept. 29	71.49	1941, Mar. 31	64.85	1941, Aug.	66.76
Oct. 29	68.22	May 31	70.32	Sept.	69.83
Nov. 29	67.35	June 30	69.36	1942, Jan. 1	68.69
1941, Feb. 28	68.46	July 29	66.51	Jan. 28	66.67

Measurements discontinued

Well 83a. Masonite Corporation well 5, at Laurel, about 50 feet from the south edge of the railroad tracks that lead into the Plant. Abandoned industrial well, which was drilled to a total depth of 372 feet, but the water comes from the Catahoula sand at 105 feet to 210 feet. Measuring point, top of concrete curbing around well, 0.5 foot above land surface and 216.5 feet above mean sea level.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1948, Apr. 16	141.34	1951, Mar. 31	115.80	1952, Sept. 26	126.90
1950, Mar. 22	136.95	1952, Mar. 28	113.60	Dec. 29	139.10
July 7	134.20	June 24	123.63		
Sept. 30	132.90				
Dec. 30	124.90				

Well 108. (Designated as Jones 108 in Miss. Geol. Survey Bull. 58) Town of Overtt. NE.¼, SW.¼, Sec.18, T.6 N., R.10 W., along road 150 yards west of crossing at railway station and 200 feet south of road. Artesian public well, diameter at top 2 inches, reported depth 190 feet. Measuring point, top of well elbow, 0.8 foot above land surface and about 175 feet above mean sea level. Flowing prior to measurements.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Mar. 14	4.38	1946, Mar. 8	3.10	1950, Mar. 22	2.70
1941, Nov. 30	3.79	May 9	2.70	July 7	2.30
Dec. 30	3.84	July 18	3.00	Sept. 30	2.30
1942, Jan. 28	3.69	Sept. 19	2.80	Dec. 30	2.40
1943, July 10	2.90	Dec. 21	2.80	1951, Mar. 31	3.40
July 22	2.80	1947, July 5	2.63	June 30	2.17
1944, Apr. 15	3.00	Oct. 16	2.35	Oct. 2	1.93
Nov. 13	2.70	1948, Apr. 16	3.05	1952, Mar. 28	1.95
1945, Feb. 23	3.10	Aug. 6	2.20	June 24	1.80
Aug. 30	2.80	Oct. 17	2.30	Sept. 26	1.50
Oct. 15	2.60	Dec. 31	2.65	Dec. 29	1.55
Dec. 29	3.20	1949, July 29	1.80		

LAFAYETTE COUNTY

Well 37. Dr. F. E. Linder. NE.¼, SE.¼, Sec.29, T.8 S., R.3 W., about 1 mile south of Oxford, southeast of owner's residence, 200 feet north of tenant house, and about 500 feet north of east-west road. Domestic water-table well, diameter 2.4 feet, measured depth 25.9 feet. Measuring point, top of rim of wooden planks, 2.3 feet above land surface and about 440 feet above mean sea level.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, June 3	20.83	1943, July 31	21.06	1945, June 1	20.34
July 6	19.42	Sept. 30	21.27	July 2	20.33
Aug. 4	19.62	Oct. 31	21.34	Aug. 1	20.56
Oct. 1	19.81	Nov. 30	21.32	Sept. 4	20.67
Dec. 3	20.08	Dec. 31	21.58	Oct. 1	20.61
1941, Jan. 1	19.77	1944, Jan. 31	21.65	Nov. 3	20.78
Dec. 26	20.64	Feb. 29	21.70	Dec. 1	21.33
1942, July 31	20.86	May 31	20.25	1946, Feb. 1	19.95
Sept. 28	20.98	June 30	20.43	Mar. 30	19.91
Oct. 29	21.09	July 31	20.41	May 1	19.96
Nov. 30	21.10	Sept. 30	20.81	July 1	20.07
Dec. 31	20.96	Oct. 31	20.90	Aug. 1	20.16
1943, Jan. 31	21.35	Nov. 30	20.89	Sept. 30	20.37
Feb. 28	21.64	1945, Jan. 3	20.95	Oct. 31	20.78
Mar. 31	21.71	Feb. 1	20.66	Nov. 30	20.41
Apr. 30	21.49	Mar. 29	20.01	Dec. 31	20.22
May 31	20.76	Apr. 29	20.00	1947, Aug. 5	20.35
June 30	20.93				

Measurements discontinued

LEE COUNTY

Well 36. U. S. Fish Hatchery, Tupelo. Used artesian well tapping the Eutaw sand, diameter 6 inches, depth 412 feet, completed January 27, 1928. Measuring point, top of opening in pump base, 1.0 foot above land surface and 263.3 feet above mean sea level.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1948, Apr. 15	47.11	1950, Dec. 29	50.70	1952, Mar. 27	66.88
1950, Mar. 21	53.50	1951, Mar. 31	51.85	June 23	86.60
July 6	76.50	June 30	70.37	Sept. 26	75.10
Sept. 29	51.65	Dec. 27	54.60	Dec. 29	50.80

LEFLORE COUNTY

Well 60. (Leflore 20 in Water-Supply Paper 576, p. 301) Mrs. D. B. Jameson. NW.¼, SW.¼, Sec.31, T.21 N., R.1 W., at Schlater, in northwest corner of lawn and across road from church. Drilled in 1915. Artesian domestic well, diameter 3 to 2 inches, reported depth 816 feet. Measuring point, top of 2-inch pipe on well cross, 1.5 feet above land surface and about 133.64 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1919, Sept. 1	30.00	1943, Apr. 2	13.6	1948, Apr. 18	7.88
1938, Sept. 27	10.10	July 4	12.9	July 30	9.00
1939, Feb. 14	14.10	Dec. 28	12.2	Oct. 15	8.85
1940, Mar. 12	16.06	1944, Apr. 29	11.6	1949, Jan. 1	10.95
June 26	17.16	1945, Jan. 4	13.1	July 20	6.32
July 27	15.26	Sept. 11	12.7	1950, Mar. 24	11.00
Dec. 28	14.76	Dec. 27	12.4	July 9	10.90
1941, July 31	13.46	1946, Mar. 5	12.8	Oct. 4	10.50
Nov. 27	14.16	May 7	10.8	1951, Jan. 8	10.90
Dec. 27	13.46	July 9	11.1	Apr. 2	10.70
1942, Apr. 1	12.56	Sept. 10	12.5	July 4	10.10
July 3	13.06	Dec. 16	11.2	Oct. 4	9.40
Dec. 22	13.26	1947, July 3	11.49	Dec. 31	10.10
				1952, Mar. 31	10.60
				June 27	8.90
				Sept. 30	5.90

Well 74. (Leflore 17 in Water-Supply Paper 576, p. 301) Rudolph Bernander. NW.¼, NW.¼, Sec.4, T.20 N., R.1 E., 1.75 miles south of Money, Miss., on east bank of swale about 300 feet southwest of Bernander home. Drilled in 1902. Artesian domestic well, diameter 3 to 2 inches, reported depth 380 feet. Measuring point, top of well cross, 3 feet above land surface and about 132.97 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1919, (?)	45.0	1939, Feb. 14	10.4	1940, June 27	12.85
1938, Oct. 7	11.0	1940, Mar. 12	13.13	July 27	12.83

Measurements discontinued

Well 134. (Leflore 9 in Water-Supply Paper 576, p. 301) E. D. Simmons. NE.¼, SE.¼, Sec.10, T.19 N., R.1 E., at Greenwood, in small well house at southeast corner of yard, east end of Washington St. Domestic artesian well, diameter 2 inches, reported depth about 600 feet. Measuring point, top of 4-inch pipe, 6.5 feet above land surface and about 137.8 feet above mean sea level.

WATER LEVEL, IN FEET BELOW MEASURING POINT

Date	Water level	Date	Water level	Date	Water level
1939, May 8	2.18	1939, Sept. 10	12.98	1940, Jan. 7	4.95
June 5	3.74	Oct. 1	7.97	Feb. 4	8.09
July 5	5.70	Nov. 1	5.78	Feb. 14	7.29
Aug. 1	10.16	Dec. 26	4.55		

Measurements discontinued

Well 136. (Leflore 135 in Water-Supply Paper 845, p. 163) A. P. Haynes. (Formerly owned by C. M. Journey) NE.¼, NW.¼, Sec.12, T.19 N., R.1 E., Greenwood, Miss., on lawn back of home, 1.5 miles northeast from junction in northeast Greenwood of gravel road an Y. & M.V.R.R. Drilled in 1928. Domestic artesian well, diameter 4 inches, depth 800 feet. Finished with 40 feet of screen. Measuring point, top of 6-inch elbow, 0.5 foot above land surface and 131.30 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1938, Oct. 21	22.8	1943, Apr. 3	35.5	1948, Aug. 3	27.90
1939, Feb. 14	36.8	July 5	33.4	Oct. 16	20.60
Sept. 11	34.3	Dec. 28	30.6	1949, Jan. 1	29.10
1940, Mar. 11	36.7	1944, Apr. 29	32.9	July 19	23.90
June 12	35.7	Dec. 14	31.7	1950, Mar. 24	30.25
July 30	36.0	1945, Sept. 6	32.0	July 9	26.10
Sept. 13	35.9	Dec. 28	32.4	Oct. 4	27.10
1941, Jan. 1	35.9	1946, Mar. 6	32.6	1951, Jan. 9	27.50
July 31	35.2	May 8	32.3	Apr. 2	28.90
Nov. 27	36.8	July 10	29.0	July 3	26.50
Dec. 27	35.7	Nov. 7	31.9	Dec. 31	27.50
1942, Apr. 1	36.3	Dec. 16	32.5	1952, Mar. 31	28.50
July 4	38.7	1947, July 3	31.0	June 27	25.50
Sept. 20	35.7	Oct. 18	(?) 9.4	Sept. 30	22.50
Dec. 23	35.9	1948, Apr. 17	29.40		

Well 152. City of Greenwood. NE.¼, NW.¼, Sec.15, T.19 N., R.1 E., on west side of city power plant and 40 feet east of center line of Cotton Ave. Unused artesian public well, diameter at top 6 inches, measured depth 660 feet. Measuring point, top of well casing, 2.5 feet above land surface and 148.11 feet above mean sea level. Water level affected by nearby wells. Water-stage recorder maintained on well since Feb. 1940.

WATER LEVELS AND ARTESIAN PRESSURES

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1940							
Mar. 30	0.77	May 22	-0.02	Oct. 31	0.37	Dec. 25	1.48
Apr. 23	1.37	Sept. 30	-0.79	Nov. 30	0.99		

MONTHLY HIGH WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1941							
Jan. 4	1.61	Apr. 5	1.34	1942			
Feb. 1	1.20	May 3	1.41	Jan. 1	10.49	Apr. 18	12.69
Mar. 1	1.15			Feb. 6	11.49	May 5	12.49
				Mar. 2	11.49	Dec. 25	11.39
1943							
Jan. 2	12.3	1944		1945		1946	
Mar. 31	13.9	Jan. 2	14.7	Jan. 6	14.2	Jan. 5	17.5
Apr. 10	14.3	Feb. 11	12.5	Feb. 3	17.6	Feb. 2	17.5
May 1	13.3	Mar. 11	14.0	Mar. 3	14.5	Mar. 9	17.5
June 3	13.5	Apr. 1	14.3	Apr. 7	15.4	Apr. 6	17.2
July 2	19.8	May 1	13.9	May 5	14.6	May 4	16.1
Aug. 2	14.4	June 3	13.9	June 2	16.1	June 8	11.5
Sept. 2	13.9	July 8	17.7	July 7	12.8	July 13	9.2
Oct. 6	12.8	Aug. 5	19.9	Aug. 4	12.5	Aug. 3	13.6
Nov. 5	12.6	Sept. 8	14.3	Sept. 1	11.5	Sept. 7	15.3
Dec. 4	13.5	Oct. 24	15.0	Oct. 6	12.9	Oct. 5	12.5
		Nov. 2	16.9	Nov. 3	12.7	Nov. 2	12.1
		Dec. 2	17.5	Dec. 1	17.3	Dec. 7	13.4
1947							
Jan. 8	15.5	1948		1949		1950	
Feb. 11	17.2	Jan. 20	19.2	Jan. ....	.....	Jan. 20	13.3
Mar. 23	13.8	Feb. 10	17.6	Feb. ....	.....	Feb. 2	12.8
Apr. 19	14.3	Mar. 23	15.1	Mar. ....	.....	Mar. ....	.....
May 26	17.9	Apr. 3	14.7	Apr. ....	.....	Apr. ....	.....
June 2	19.0	May 26	13.7	May 16	16.8	May ....	.....
July 21	16.2	June 27	19.3	June 9	14.8	June ....	.....
Aug. ....	.....	July 2	27.5	July 8	14.3	July ....	.....
Sept. 29	15.1	Aug. 20	15.7	Aug. ....	.....	Aug. ....	.....
Oct. 14	15.6	Sept. 5	14.5	Sept. 15	9.5	Sept. ....	.....
Nov. 10	14.8	Oct. ....	.....	Oct. 26	11.4	Oct. ....	.....
Dec. 28	13.5	Nov. ....	.....	Nov. 14	11.8	Nov. ....	.....
		Dec. ....	.....	Dec. 6	11.4	Dec. ....	.....
1952							
Jan. 19	9.1						
Feb. 28	8.2						
Mar. 31	9.3						
Apr. 6	9.3						
May 8	7.5						

OKTIBBEHA COUNTY

Well 2. (Well 2 in Water-Supply Paper 576, p. 371). Mississippi State College, NE.¼, SW.¼, Sec.1, T.18 N., R.14 E., 100 feet east of the northeast corner of the Civil Engineering laboratory. Unused public well, diameter at top 6 inches, reported depth 1,008 feet. Measuring point, top of well casing, 2.33 feet above land surface and 383.28 feet above mean sea level. Weekly measurements made from June 13, 1940 to Nov. 11, 1940; water-stage recorder maintained on well since Nov. 11, 1940.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1940							
June 13	177.06	Aug. 4	177.57	Oct. 7	178.92	Dec. 2	177.30
July 1	177.31	Sept. 7	177.90	Nov. 4	177.68		

MONTHLY HIGH WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1941		1942		1943		1944	
Jan. 16	176.53	Jan. 30	176.50	Jan. 16	177.3	Jan. 2	177.13
Feb. 13	176.48	Feb. 1	176.27	Feb. 5	177.2	Feb. 9	176.73
Mar. 31	176.22	Mar. 16	176.25	Mar. 27	177.0	Mar. 19	176.75
Apr. 3	176.14	Apr. 9	176.21	Apr. 12	177.0	Apr. 11	176.79
May 5	176.46	May 1	176.41	May 2	177.5	May 4	177.20
June 6	176.92	June 5	176.69	June 6	178.2	June 3	177.87
July 5	176.95	July 2	177.04	July 7	178.7	July 2	178.49
Aug. 2	177.67	Aug. 2	177.86	Aug. 2	179.0	Aug. 5	178.68
Sept. 6	178.20	Sept. 6	178.23	Sept. 19	178.8	Sept. 29	178.88
Oct. 29	178.27	Oct. 31	178.25	Oct. 13	178.7	Oct. 19	178.81
Nov. 22	177.64	Nov. 25	177.81	Nov. 27	178.4	Nov. 25	178.42
Dec. 23	177.07	Dec. 26	177.55	Dec. 8	178.2	Dec. 21	178.00
1945		1946		1947		1948	
Jan. 19	178.20	Jan. 19	178.58	Jan. 26	178.64	Jan. 4	179.45
Feb. 12	178.00	Feb. 10	178.21	Feb. 2	178.73	Feb. 1	179.40
Mar. 20	178.00	Mar. 16	178.29	Mar. 17	178.33	Mar. 7	178.65
Apr. 1	177.88	Apr. 8	178.58	Apr. 1	178.33	Apr. 4	179.20
May 3	178.57	May 11	178.50	May ----	-----	May 2	179.45
June 1	179.13	June 1	178.70	June ----	-----	June 6	180.30
July 4	179.74	July 30	179.74	July ----	-----	July 4	180.75
Aug. 3	179.90	Aug. 5	179.83	Aug. ----	-----	Aug. ----	-----
Sept. 29	179.91	Sept. 11	180.02	Sept. 25	180.60	Sept. ----	-----
Oct. 22	179.57	Oct. 31	179.54	Oct. 2	180.68	Oct. ----	-----
Nov. 1	179.56	Nov. 21	179.04	Nov. ----	-----	Nov. ----	-----
Dec. 24	178.77	Dec. ----	-----	Dec. ----	-----	Dec. ----	-----

QUITMAN COUNTY

Well 14. Dr. J. E. Furr, Marks, Miss., SE.¼, NE.¼, Sec.34, T.28 N., R.1 W., on lawn of residence, immediately west of Marks Hospital and 200 feet south of State highway 6. Unused domestic well, diameter 3 inches, reported depth 879 feet. Measuring point, top of 3-inch casing tee, 0.3 foot above land surface and 162.63 feet above mean sea level. Water-level recorder maintained on well from July 14, 1939 to June 2, 1940.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, June 30	20.30	1939, Nov. 4	18.30	1940, Apr. 13	19.07
July 14	19.60	Dec. 7	19.30	May 1	19.77
Aug. 18	19.40	1940, Jan. 9	19.12	June 1	20.27
Sept. 14	19.20	Feb. 15	18.47		
Oct. 23	19.20	Mar. 3	18.37		

Well 15. Town of Marks. SE.¼, NW.¼, Sec.35, T.28 N., R.1 W., at town water works, 25 feet north of tank. Artesian public well, diameter at top 6 inches, measured depth 806 feet. Measuring point, top of well casing, even with land surface and about 161.5 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Mar. 6	16.2	1941, Oct. 4	15.2	1943, Mar. 6	15.0
June 19	16.1	Nov. 1	15.3	Apr. 3	15.4
July 8	16.1	Dec. 6	15.2	May 1	15.3
Aug. 8	15.6	1942, Jan. 1	15.2	June 5	15.2
Sept. 3	16.8	Feb. 6	15.2	July 3	15.1
Oct. 1	15.7	Mar. 6	15.3	Aug. 14	14.2
Nov. 5	16.5	Apr. 10	16.0	Sept. 4	13.8
Dec. 8	15.9	May 4	15.7	Oct. 2	13.6
1941, Jan. 4	16.4	June 11	15.8	Dec. 18	12.8
Feb. 1	14.0	July 2	15.6	1944, Jan. 8	12.8
Mar. 1	16.8	Aug. 1	15.3	Feb. 5	12.9
Apr. 5	17.2	Sept. 11	15.0	Mar. 4	13.5
May 3	17.4	Oct. 3	14.9	Apr. 1	13.8
June 7	17.0	Nov. 7	14.9	May 6	13.5
July 5	16.8	Dec. 1	14.8	June 3	13.5
Aug. 2	17.0	1943, Jan. 2	15.0	July 1	13.5
Sept. 6	15.6	Feb. 6	15.0		

Well 21. W. R. Harrington, NE.¼, NE.¼, Sec.8, T.27 N., R.2 W., on gentle slope 15 feet west of plantation road, on east lawn of residence, about 200 feet south of State Highway 6, and 7.4 miles east of U. S. Highway 61 junction at Clarksdale. Used artesian domestic well, diameter at top 4 inches reduced to 2½ inches at screen, finished with 41 feet of screen, reported depth 1,589 feet. Measuring point, top of 4-inch casing tee, 1 foot below land surface and 164.19 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Mar. 7	37.71	1944, Apr. 1	31.40	1949, Jan. 2	34.80
Sept. 11	37.01	1945, Jan. 3	33.00	Mar. 31	34.80
Dec. 30	36.91	June 16	34.60	July 21	32.30
1941, July 22	35.71	Sept. 4	32.40	1950, Mar. 25	32.80
Nov. 26	37.61	1946, Mar. 5	34.40	July 10	32.80
Dec. 26	38.11	May 6	33.70	Oct. 4	29.60
1942, Apr. 3	35.81	July 8	33.00	1951, Jan. 2	25.55
July 2	36.51	Nov. 8	28.20	Apr. 3	32.60
Sept. 19	34.31	Dec. 15	30.40	July 3	33.10
Dec. 21	35.01	1947, July 3	28.00	1952, Mar. 31	32.20
1943, Apr. 1	35.50	1948, Apr. 18	32.20	Sept. 30	29.20
July 3	34.20	July 28	31.80		
Dec. 27	31.70	Oct. 15	33.80		

Well 32. City Cafe, Lambert, Miss., (Hamilton well in Water-Supply Paper 576, p. 407), SW.¼, SE.¼, Sec.15, T.27 N., R.1 W., at junction of Y. and M.V.R.R. and Main Street. In man hole under floor of restaurant. Drilled before 1911. Artesian well, diameter 2 inches, reported depth 720 feet. Measuring point, top of concrete drinking fountain on the east side of the cafe, 2.2 feet above land surface and 161.85 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1911, Nov. 8	40 (app)	1941, Dec. 26	7.10	1945, Jan. 3	6.10
1938, Nov. 18	8.20	1942, Apr. 3	7.07	Sept. 4	5.70
1939, Aug. 12	8.30	July 2	6.84	Dec. 26	6.30
1940, Mar. 6	6.05	Sept. 19	6.38	1946, Mar. 4	6.40
June 24	5.25	Dec. 21	6.35	May 6	6.40
Aug. 4	7.45	1943, Apr. 1	6.52	July 8	6.40
Dec. 28	4.65	July 5	6.35	Sept. 9	5.80
1941, July 22	6.90	Dec. 12	5.95	Dec. 15	6.10
Nov. 24	7.15	1944, Apr. 1	6.42	1947, July 3	5.94

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1948, Apr. 18	5.74	1950, Mar. 25	6.02	1951, July 3	5.34
July 28	5.50	July 10	5.65	Oct. 4	4.75
Oct. 15	5.10	Oct. 4	5.50	Dec. 31	5.20
1949, Jan. 3	5.92	1951, Jan. 9	5.50	1952, Mar. 31	5.50
July 21	5.50	Apr. 3	5.70	June 27	5.20

SHARKEY COUNTY

Well 43. (Cary well in Water-Supply Paper 576, p. 420). Cary Water Company, SE.¼, SW.¼, Sec.9, T.11 N., R.7 W., on east side of Deer Creek, 22 feet west from center line of U. S. Highway 61, in Cary, opposite gasoline service station. Used artesian municipal well, diameter 2½ inches, reported depth 747 feet. Measuring point, top of casing tee, 3 feet below surface of highway and 100.9 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, Feb. 10	21.6	1940, Mar. 16	21.2		
Aug. 17	17.1	June 11	20.7		

SUNFLOWER COUNTY

Well 39. E. L. Coleman, et al., NW.¼, SW.¼, Sec.28, T.21 N., R.3 W., 25 feet south of road in front lawn (now a vacant lot) of residence and 0.5 mile east of U. S. Highway 49-W at Doddsville. Used artesian well, diameter at top 3 inches, reported depth 1,180 feet. Measuring point, top of 2-inch casing elbow, 0.5 foot above land surface and about 127 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, June 26	30.5	1943, July 4	28.3	1947, July 3	24.82
July 27	31.5	Dec. 28	27.3	Oct. 18	23.20
Dec. 31	28.8	1944, Apr. 29	26.7	1948, Apr. 18	23.82
1941, July 23	31.3	1945, Jan. 4	26.6	July 30	23.65
Nov. 28	30.5	Sept. 11	26.8	Oct. 15	24.40
Dec. 26	26.9	Dec. 26	25.9	1949, Jan. 1	23.90
1942, Apr. 2	29.7	1946, Mar. 5	26.6	July 20	22.85
July 3	29.2	July 9	25.5	1950, Mar. 24	22.35
Dec. 22	28.7	Nov. 7	24.4	July 9	23.05
1943, Apr. 2	29.0	Dec. 16	24.6	Oct. 3	23.35

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1951, Jan. 8	23.35	1951, Oct. 4	23.35	1952, June 27	22.35
Apr. 2	23.45	Dec. 31	24.35	Sept. 30	19.35
July 3	22.85	1952, Mar. 30	23.25		

TALLAHATCHIE COUNTY

Well 24. (25 in Water-Supply Paper 576, p. 441). Town of Tutwiler, SW.¼, SW.¼, Sec. 20, T.25 N., R.2 W., behind garage on lawn of Harrison apartment. Drilled in 1911. Diameter 2 inches, reported depth 1,180 feet. Water probably from strata 810-880 feet below land surface. Measuring point, top of well tee, 3 feet above land surface and 158.07 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1919, (?)	40.0	1942, Dec. 21	9.40	1947, July 3	6.77
1938, Nov. 14	9.7	1943, Apr. 1	9.6	1948, Apr. 18	6.50
1939, Feb. 13	11.4	July 5	8.5	July 28	5.90
1940, Feb. 23	10.53	Dec. 12	8.4	Oct. 15	5.40
June 24	12.83	1944, Apr. 1	8.78	1949, Jan. 2	6.00
July 26	11.93	1945, Jan. 4	8.2	1950, Mar. 25	5.13
Dec. 28	11.23	Sept. 11	7.5	July 9	4.70
1941, July 23	10.16	Dec. 26	7.8	July 21	5.50
Nov. 27	10.30	1946, Mar. 5	8.5	1952, Mar. 30	5.30
Dec. 27	10.10	May 6	7.8	June 27	4.20
1942, Apr. 3	10.85	July 8	7.8	Sept. 30	4.30
July 3	9.65	Sept. 10	6.9		
Sept. 18	9.12	Dec. 16	6.4		

Well 68. Town of Sumner. NW.¼, NE.¼, Sec.11, T.24 N., R.2 W., immediately northeast of northeast foundation of tank. Used public supply artesian well, diameter at top 8 inches, reported depth 1,680 feet. Measuring point, top of 8-inch casing, 0.5 foot above land surface and 153.8 feet above mean sea level. Water-stage recorder maintained on well since Sept. 25, 1942.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Feb. 23	51.8	1941, July 23	57.7	1942, Apr. 3	60.5
June 27	59.8	Nov. 27	62.3	July 3	60.2
July 26	60.3	Dec. 27	59.5	Sept. 25	61.1
Dec. 28	21.1				

WATER LEVELS AND ARTESIAN PRESSURES

MONTHLY HIGH WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1942, Oct. 3	56.1	Nov. 2	57.0	Dec. 19	57.9

MONTHLY HIGH WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1943		1944		1945		1946	
Jan. 22	60.7	Jan. 9	64.5	Jan. 18	63.3	Jan. 28	68.5
Feb. 16	62.3	Feb. 10	64.1	Feb. 26	63.6	Feb. 2	64.5
Mar. 7	63.0	Mar. 4	62.7	Mar. 15	64.3	Mar. 27	61.5
Apr. 23	60.1	Apr. 26	64.5	Apr. 11	63.1	Apr. 30	64.5
May 19	59.9	May 1	65.5	May 31	64.2	May 1	65.1
June 19	60.5	June 10	64.5	June 1	64.0	June 1	62.5
July 30	60.5	July 14	64.5	July 4	62.6	July	-----
Aug. 4	60.5	Aug. 25	63.5	Aug. 31	61.5	Aug.	-----
Sept. 14	59.3	Sept. 8	64.5	Sept. 21	61.5	Sept. 27	55.5
Oct. 20	58.9	Oct. 20	62.5	Oct. 18	61.3	Oct. 17	56.0
Nov. 17	62.5	Nov. 13	62.5	Nov. 25	61.2	Nov. 30	57.0
Dec. 18	64.3	Dec. 14	62.5	Dec. 4	60.6	Dec. 3	65.5
1947		1948		1949		1950	
Jan. 6	70.0	Jan. 10	55.7	Jan. 7	56.5	Jan. 10	56.5
Feb. 26	96.5	Feb. 28	56.5	Feb. 5	56.5	Feb. 28	55.7
Mar. 3	84.5	Mar. 16	56.5	Mar. 20	56.1	Mar. 26	56.5
Apr. 1-30	56.5	Apr. 14	57.3	Apr. 11	56.9	Apr.	-----
May 1-5	56.5	May 9	56.5	May 3	56.9	May	-----
June 4-30	56.5	June 14	57.7	June 6	57.3	June	-----
July 1-4	55.5	July 27	56.5	July	-----	July 25	55.3
Aug. 13	55.5	Aug.	-----	Aug. 26	56.1	Aug. 27	54.9
Sept. 13	55.5	Sept.	-----	Sept. 7	55.3	Sept. 3	55.3
Oct. 8	56.0	Oct. 26	55.7	Oct.	-----	Oct. 20	56.5
Nov. 15	56.0	Nov. 1	56.1	Nov.	-----	Nov. 23	56.5
Dec. 1	55.5	Dec. 13	57.3	Dec.	-----	Dec. 20	56.5
1951				1952			
Jan. 27	55.0	July 21	60.0	Jan. 4	59.5	July 1	60.5
Feb. 8	64.0	Aug	-----	Feb.	-----	Aug. 7	60.0
Mar. 6	61.7	Sept.	-----	Mar. 31	15.5	Sept. 17	60.0
Apr.	-----	Oct.	-----	Apr. 9	58.0	Oct.	-----
May	-----	Nov. 15	48.9	May	-----	Nov.	-----
June 30	57.3	Dec. 8	54.9	June 24	60.0	Dec.	-----

Well 171. Phillip Stave Mill Company, Phillip, Miss., NW.¼, SW.¼, Sec.21, T.22 N., R.1 E., at southwest corner of mill building between railroad and first street east. Drilled in August 1931. Diameter 3 inches to 2 inches, reported depth 613 feet. Measuring point, top of well tee, 1 foot above land surface and about 139.26 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1931, Aug	a15.0	1942, Sept. 25	11.04	1946, Sept. 10	14.90
1938, Oct. 10	10.8	Dec. 22	11.74	Dec. 16	15.10
1939, Feb. 14	13.4	1943, Apr. 2	12.40	1947, July 3	15.11
1940, Mar. 12	13.04	July 4	10.40	Oct. 18	8.83
June 27	14.04	Dec. 28	10.90	1948, Aug. 3	12.90
July 27	14.14	1944, Apr. 1	13.56	Oct. 16	12.25
Dec. 31	13.84	1945, Jan. 4	13.50	1949, Jan. 1	13.40
1941, July 31	10.68	Sept. 11	12.30	1950, July 10	12.90
Nov. 27	12.70	Dec. 27	13.90	Oct. 4	13.00
Dec. 27	12.11	1946, Mar. 5	15.20	1951, Jan. 9	13.65
1942, Apr. 1	12.98	May 7	14.30	Apr. 2	14.10
July 3	11.93	July 9	14.80		

a. Reported by driller

Measurements discontinued

TUNICA COUNTY

Well 17. G. D. Perry, Sr., SW.¼, SE.¼, Sec.7, T.5 S., R.11 W., on the rear lawn 100 feet north of residence of Toby Perry, 2.1 miles south of Tunica and 1.3 miles west of U.S. Highway 61. Used artesian domestic well, diameter at top 4½ inches, reduced to 2 inches at screen, reported depth 1,806 feet. Measuring point, top of 4½ inch casing tee, 0.5 foot above land surface and about 193 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1940, Mar. 7	30.7	1944, Apr. 1	25.2	1948, Oct. 15	18.90
June 25	29.9	Dec. 13	23.0	1949, Jan. 2	21.40
July 26	28.8	1945, June 16	24.0	July 22	18.15
Sept. 11	28.6	Sept. 4	23.1	1950, Mar. 28	18.70
Dec. 30	32.6	Dec. 26	22.7	July 8	17.40
1941, July 23	29.4	1946, Mar. 5	23.3	Oct. 3	17.40
Nov. 28	27.4	May 6	22.3	1951, Jan. 8	17.20
Dec. 26	25.5	July 8	22.3	Apr. 2	17.00
1942, Apr. 3	28.5	Sept. 9	19.3	July 3	16.40
July 4	28.8	Nov. 8	20.2	Oct. 3	17.00
Sept. 17	26.3	Dec. 15	22.3	Dec. 29	17.20
Dec. 21	26.8	1947, July 3	21.53	1952, Mar. 30	17.20
1943, Apr. 1	27.2	1948, Apr. 18	21.33	June 26	14.70
July 4	26.8	July 28	19.10	Sept. 29	13.40
Dec. 27	23.2				

WASHINGTON COUNTY

Well 25. Wagner Plantation (formerly E. H. Fisher), SW.¼, SW.¼, Sec.10, T.18 N., R.6 W., 5 miles east of Leland, on crest of Indian mound west of home, 100 yards south of U. S. Highway 82. Used artesian domestic well, diameter 2 inches, reported depth 1,800 feet. Measuring point, top of casing tee, level with land surface and 122.87 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, May 15	42.30	1942, July 4	37.93	1945, Dec. 26	31.80
Sept. 11	40.50	Sept. 25	36.03	1946, Mar. 6	25.80
1940, Mar. 16	42.43	Dec. 23	37.63	May 8	33.30
June 26	42.53	1943, Apr. 2	37.80	July 8	34.10
July 30	40.13	July 5	36.70	Nov. 7	27.30
Dec. 31	40.63	Dec. 28	34.00	Dec. 18	32.40
1941, July 23	41.43	1944, Apr. 1	25.20	1947, July 4	25.47
Nov. 28	41.73	Dec. 13	23.00	Oct. 17	30.52
Dec. 27	38.13	1945, Jan. 4	34.40	1948, Apr. 17	32.71
1942, Apr. 2	40.03	Sept. 7	34.60	Aug. 3	24.16
				Oct. 16	29.75

Measurements discontinued

Well 65. W. D. Atterbury. NE.¼, NE.¼, Sec.25, T.16 N., R.7 W., at Estill in garden north of home, 100 feet west of U. S. Highway 61. Used artesian domestic well, diameter at top 5 inches, reported depth 1,950 feet. Measuring point, top of casing tee, 2.4 feet above land surface and 122.07 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, Mar. 8	80.10	1943, July 5	76.80	1948, Aug. 3	70.36
Aug. 16	81.30	Dec. 28	76.30	Oct. 16	69.36
1940, Mar. 16	81.20	1944, Apr. 30	75.80	1949, Jan. 1	67.36
June 26	79.73	1945, Jan. 4	74.50	July 20	70.35
July 30	79.63	Sept. 7	74.70	1950, Mar. 24	70.35
Dec. 31	77.93	Dec. 28	74.50	July 8	68.00
1941, July 24	80.53	1946, Mar. 7	75.70	Oct. 2	67.00
Nov. 28	78.23	May 8	66.90	1951, Jan. 1	65.35
Dec. 27	75.83	Sept. 11	73.70	Apr. 1	48.35
1942, Apr. 2	75.83	Nov. 7	68.60	July 2	46.35
July 4	75.83	Dec. 17	70.20	Oct. 3	47.35
Sept. 24	76.03	1947, July 4	70.33	Dec. 29	46.85
Dec. 23	76.33	Oct. 17	64.33	1952, Mar. 29	49.35
1943, Apr. 2	76.30	1948, Apr. 17	70.33	June 26	56.35
				Sept. 29	50.35

Well 70. Town of Hollandale. SW.¼, SE.¼, Sec.6, T.15 N., R.6 W., immediately behind jail, at west door of power plant. Unused municipal well, diameter 6 inches, depth 360.7 feet. Measuring point, top of concrete pump base, 5.2 feet above land surface and 119.60 feet above mean sea level. Measuring point, later changed to top of 6-inch casing, 0.2 foot above land surface. Water-stage recorder maintained on well from Aug. 16, 1939 to Dec. 23, 1942.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1939, Mar. 2	18.98	1940, Dec. 6	17.46	1942, Apr. 4	14.45
Aug. 17	21.04	1941, Jan. 4	15.02	May 5	13.13
Sept. 3	20.91	Feb. 1	14.63	June 10	14.31
Oct. 10	23.57	Mar. 1	14.10	July 8	15.16
Nov. 11	21.40	Apr. 5	13.25	Aug. 3	16.73
Dec. 21	23.56	May 3	13.64	Sept. 6	17.01
1940, Jan. 1	22.90	June 7	15.57	Oct. 2	17.14
Feb. 2	22.80	July 5	17.34	Nov. 1	17.14
Mar. 9	21.65	Aug. 2	17.41	Dec. 5	18.39
Apr. 7	19.47	Sept. 6	17.63	1946, May 8	12.91
May 12	17.77	Oct. 4	19.19	July 10	13.37
June 1	17.92	Nov. 1	18.78	Sept. 11	15.97
July 2	19.48	Dec. 6	16.87	Dec. 17	17.61
Aug. 8	17.65	1942, Jan. 3	16.30	1947, July 4	13.88
Sept. 1	16.96	Feb. 6	16.13	1948, Apr. 17	12.35
Oct. 1	18.13	Mar. 10	15.34	Aug. 3	7.45
Nov. 6	19.92				

Measurements discontinued

Well 82. J. W. Jordan well, Murphy's Ferry, Miss., NE.¼, SE.¼, Sec.27, T.15 N., R.5 W., on west slope of small creek northeast of Jordan home. Drilled in Jan. 1937. Diameter 3 to 2 inches, finished with 40 feet of screen. Measuring point, top of well tee, flush with land surface.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1937, Jan. 2	a14.0	1945, Jan. 4	11.3	1946, Mar. 7	11.3
1938, Dec. 9	14.1	Sept. 7	11.0		
1944, Apr. 30	12.3	Dec. 28	11.4		

Measurements discontinued

a. Reported by Driller

YAZOO COUNTY

Well 2. Town of Eden (2 in Water-Supply Paper 576, p. 503). SE.¼, SW.¼, Sec.8, T.13 N., R.1 W., across from post office on north side of street. Drilled in 1905. Used artesian municipal well, diameter 3 to 2 inches, reported depth 800 feet. Measuring point, top of 3-inch elbow above flushing valve, 6.7 feet above land surface.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1919, (?)	39.7 (app)	1946, Dec. 17	28.90	1950, Oct. 3	28.30
1939, Feb. 1	31.90	1947, July 4	28.42	1951, Jan. 8	26.40
1943, Apr. 3	29.80	Oct. 18	28.60	Apr. 2	29.10
1944, Apr. 14	30.70	1948, Apr. 17	29.73	July 3	24.40
1945, Jan. 5	29.10	Aug. 4	29.15	Oct. 5	19.40
Sept. 6	28.00	Oct. 16	28.10	Dec. 31	17.20
Dec. 28	25.20	1949, Jan. 1	29.10	1952, Mar. 30	16.40
1946, Mar. 7	29.90	Apr. 1	30.10	June 26	15.70
May 8	25.20	July 19	29.10	Sept. 29	11.90
July 10	28.00	1950, Mar. 23	30.15		
Sept. 11	27.80	July 9	29.70		

Well 25. Town of Yazoo City. (7 in Water-Supply Paper 576, p. 503) SW.¼, NE.¼, Sec.32, T.12 N., R.2 W., in manhole at west side of power plant. Drilled in 1906. Municipal artesian well, diameter 6 inches, reported depth 890 feet. Measuring point, center of tapped hole in 4-inch pipe at generator, 5 feet above land surface and 112.71 feet above mean sea level.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM

Date	Water level	Date	Water level	Date	Water level
1919, July 23	30.00	1941, July 24	28.89	1943, Dec. 28	22.00
1939, Jan. 17	27.00	1942, July 4	29.29	1944, Apr. 14	22.30
1940, Mar. 14	30.49	Sept. 22	28.59		
June 11	30.79	Dec. 23	27.89		
July 30	30.89	1943, Apr. 3	27.90		
Dec. 5	30.69	July 5	23.90		

Measurements discontinued



