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Water-Supply Paper 910

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

PART 5. NORTHWESTERN STATES

BY

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and others

Prepared in cooperation with the States of
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and other agencies

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INTRODUCTION

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

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

The regular publication of records of water levels and artesian pressure in the United States was begun by the Geological Survey in 1935, and from that year through 1939 one volume containing these data was published each year. The volumes were issued as Water-Supply Papers 777, 817, 840, 845, and 886. This series of reports is in a sense an inventory, year by year, of the ground-water supplies of those parts of the country that it covers. The number of observation wells and the quantity of records on water levels and artesian pressure obtained from them have increased gradually from year to year. As a result it has been deemed advisable to publish the records for 1940 in six volumes, each volume containing records for one of the sections into which the United States has been divided. (See fig. 1.) The present volume covers the northwestern section and gives records of water level or artesian pressure in about 927 observation wells in Idaho, Montana, Oregon, Utah, Washington, and Wyoming that were obtained by the Geological Survey and cooperating agencies. About 44 of these wells are equipped with automatic water-stage recorders. For some wells for which records had not heretofore been published complete records of water levels are given in this report, including those for years before 1940. For wells whose previous records have been published, however, this volume gives only current records.

If complete descriptions of the wells were given in one of the previous reports, only the well numbers or the well numbers and brief identifying descriptions are given in this report. The report includes about 7,150 individual measurements of water level or artesian pressure.

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

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

The precipitation in all the northwestern States was normal or above in 1940. Not all of the wells, however, responded to these favorable moisture conditions, and in many wells the water levels or artesian pressure declined during the year. The fluctuations of water level and artesian pressure in observation wells depend upon many complex factors, such as the distribution and amount of precipitation, location of outcrop areas of the water-bearing formations, permeability and specific yield of the water-bearing materials, depth of the water table below the land surface, and proximity of the observation wells to areas of heavy withdrawals. Consequently, it is usually not possible to find a simple relation between the changes in water level or artesian pressure and the departures from normal precipitation. The fluctuations that occur in

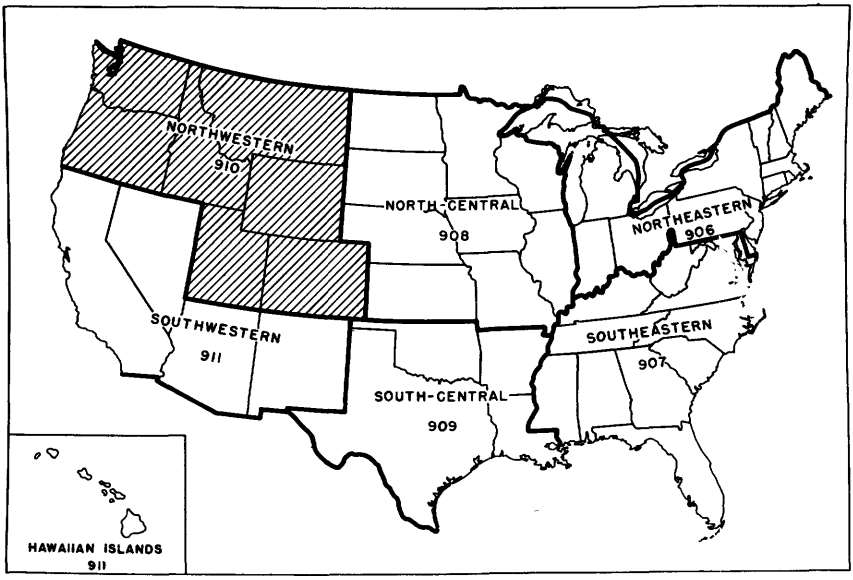

Figure 1.--Outline map of the United States, showing sections of the country covered by the six water-supply papers on water levels and artesian pressure in observation wells in 1940. The shaded section represents the part of the country covered by this volume.

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

Idaho.--The average of the water levels in 4 wells in Rathdrum Prairie area, Bonner and Kootenai Counties, was 0.89 foot lower at the end of 1940 than at the end of 1939. The precipitation was 3.74 inches below normal.

The average of the water levels in 9 water-table wells in Latah County was slightly higher in 1940 than in 1939, but the water levels in 2 artesian wells continued in 1940 the decline that has been in progress since the beginning of record in 1937. Near the end of 1940 the water levels in the artesian wells were an average of 7.10 feet below their average stage in 1937. The precipitation in 1940 in Latah County, as recorded by the station of the United States Weather Bureau at Moscow, Idaho, was 6.6 inches above normal.

Montana.--The average of the water levels in 39 wells in the valley and delta area between Flathead Lake and Kalispell, was slightly lower in the early part of 1940 than in the corresponding months of 1939, but in the later part of 1940 it was higher. The water levels rose an average of 0.57 foot in the year.

Oregon.--Observations on the water levels in wells were carried on in six areas in 1940--Baker Valley, Fort Rock Valley, Grande Ronde Valley, Harney Basin, Walla Walla Basin, and Willamette Valley. All the areas received more than normal precipitation during the first 3 or 4 months of the year. As a result, the spring water levels in the Grande Ronde Valley, Harney Basin, and Willamette Valley reached higher stages than in 1939 and in the Baker Valley they reached stages that were almost as high. Summer rainfall was slightly deficient, but rainfall in September and October was in excess of normal, and the water levels in wells in all the areas except Fort Rock Valley were higher at the end of 1940 than at the end of 1939. Average net changes of water level in the 6 areas in 1940 were as follows: A rise of 1.72 feet in 3 water-table wells in Baker Valley; a decline of 0.43 foot in 4 artesian wells in Fort Rock Valley; a rise of 0.86 foot in 3 water-table wells in Grande Ronde Valley; a rise of 0.11 foot in 9 water-table wells in Harney Basin; a decline of 0.96 foot in 16 water-table wells in Walla Walla Basin; and a rise of 7.35 feet in 11 water-table wells in Willamette Valley.

Utah.--The observation wells in Utah--of which there were 750 at the end of 1940--are distributed over the State; they tap water in practically all the important underground reservoirs, and the fluctuations of water level in them constitute a good index to the changes of water stored in the reservoirs. During 1940 the water levels in wells in most of the ground-water areas in Utah declined, thus continuing a rather general trend that was begun in 1939. Of 37 important ground-water areas in the

State, the data from observation wells indicate that the water levels declined in 24, rose in 11, and were practically unchanged in 2. For the most part, the computed average changes were small; they exceeded 1 foot in only 15 of the 37 areas. Rises in water level were most marked in Juab Valley, Juab County, and in Pavant Valley, Millard County, where the net rises were 3.8 and 3.4 feet, respectively. The greatest net decline, 1.8 feet, occurred in Cedar City Valley, Iron County, but water levels declined almost as much in Heber Valley, Utah Lake Valley, and Cache Valley.

In many areas in Utah the trend of ground-water levels has followed the trend of the precipitation, as shown by departures from normal precipitation. Thus lower water levels in most parts of Iron and Beaver Counties are correlated with subnormal precipitation, and higher water levels in Pavant Valley with above normal precipitation. In other areas, notably in Salt Lake, Davis, Weber, Box Elder, and Cache Counties, water levels in wells declined during 1940 although the precipitation at most nearby stations of the Weather Bureau was greater than normal. The probable explanation is that the months from May to August, inclusive, were very dry, with the precipitation throughout the State about one-third normal, and hence greater ground-water withdrawals were required during most of the growing season.

Washington.--The average of the water levels in 15 wells that tap water in the ground-water reservoir underlying the Spokane Valley, Spokane County, rose 1.24 feet from the autumn of 1939 to the autumn of 1940. Nevertheless, throughout most of the year, the water levels in the wells were lower than usual, and the average of the means between the lowest and highest water levels recorded in 1940 was 1.28 feet below any corresponding average yet recorded.

In 27 water-table wells in Whitman County the water levels were inordinately low in 1940. Despite normal precipitation early in the year the highest stages in the wells during late March and April were lower than those of 1939 in 23 of the wells. The lowest stages of the year were below those of 1939 in 22 wells, and the lowest stages on record occurred in 17 wells.

Wyoming.--Periodic observations were begun in November 1940 on the fluctuations of water level in wells in the Egbert-Pine Bluffs area, Laramie County. No complete records for 1940 are available but measurements made in 2 wells whose water levels were observed in 1915 indicate that the water levels in November 1940 were only ½ to ¾ feet lower than they were 25 years previously.

IDAHO

By John W. Robinson and George C. Taylor, Jr.

Measurements of water levels in wells were made in 1940 in two areas in Idaho which are extensions of areas covered by the observation well program in Washington. The two areas are: (1) the Rathdrum Prairie area, in Bonner and Kootenai Counties, which is an eastward extension of the Spokane Valley; and (2) the higher part of the basin of the South Fork of the Palouse River, in Latah County, which is adjacent to Whitman County, Washington. The scope of the investigations through which the records of water level are being collected in Idaho are described briefly in the Washington section of this volume.

Bonner and Kootenai Counties
Rathdrum Prairie

In 1940, a total of 49 measurements of water level were made in 4 wells in the Rathdrum Prairie area. Measurements were made monthly in three wells and bi-monthly in one well. The water levels in all the wells during 1940 were lower than average, perhaps owing to deficient precipitation in 1939 and 1940. The average of the water levels in the four wells at the end of 1940 was 0.89 foot lower than the average at the end of 1939. The following two tables summarize the water-level changes in the Rathdrum Prairie area in 1940 and in the previous decade.

Fluctuations, in feet, of water level in four wells in the Rathdrum Prairie area, 1940

	Maximum	Minimum	Average
Change (rise) from year-end water level of 1939 to highest level of 1940	3.55	0.41	2.38
Decline from highest level to year-end level, 1940	4.86	1.02	3.26
Net decline in 1940	1.31	0.61	0.88

Summary of average water-level fluctuations, in feet, in 3 wells in the Rathdrum Prairie area; also of annual precipitation, in inches, at Coeur d'Alene, Idaho; 1930-40

	Ground-water level		Annual precipitation at Coeur d'Alene		
Year	Annual net rise (+) or decline (-) of water level[a]	Accumulated rise (+) or decline (-) from Jan. 1930	Amount	Excess (+) or deficiency (-) [b]	Accumulated excess or deficiency from 1930
1930	- -	- -	17.49	-6.58	-6.58
1931	-6.26	-6.26	24.64	+0.55	-6.03
1932	-1.79	-8.05	29.88	+5.65	-0.38
1933	+9.14	+0.99	29.53	+5.30	+4.92
1934	+9.45	+10.44	27.12	+2.89	+7.81
1935	-0.95	+9.49	18.99	-5.41	+2.40
1936	-2.75	+6.74	20.12	-4.11	-1.71
1937	-4.30	+2.44	31.77	+7.54	+5.83
1938	+0.13	+2.57	20.53	-3.70	+2.13
1939	+2.45	+5.02	20.49	-3.74	-1.61
1940	-5.67	-0.65	-	-	-

The preceding table suggests a fairly definite correlation between fluctuations of the water levels in the wells and the precipitation. Thus, deficient rainfall in 1930 and 1931 apparently caused the low stages of the water table in January 1931 and January 1932; and high precipitation in 1932 and 1933 caused the highest stages of the decade in January 1934. The high stages in January 1934 probably were in part the result of the record freshet of the Spokane River in December 1933.

Latah County

In the part of the Palouse River Basin that lies in Latah County, Idaho, records of water level were obtained in 1940 for 11 observation wells, 9 of which tap unconfined water (water-table wells) and 2 tap confined water (non-flowing artesian wells). A water-stage recorder was operated on one of the water-table wells until September 30. Measurements were made monthly in seven of the water-table wells and one of the artesian wells, about weekly in the other water-table well, and semi-monthly in the other artesian well. Water-level measurements were discontinued in all except one well after October 7. The Geological Survey is continuing tri-monthly measurements in water-table well 7A, which was formerly equipped with a water-level recorder. A total of 129 individual measurements of water level were made in the year, excluding check measurements in the well equipped with a water-stage recorder.

The spring rises of the water levels in wells in 1940 were on the average slightly greater in Latah County than in Whitman County to the west. Unlike the water levels in wells in Whitman County, the lowest water levels of the year were higher than the lowest levels in 1939. The water level in one water-table well declined, however, to the lowest

a Based on measurements made in January of each year except 1933 and 1936, when measurements were made in March and February, respectively.
b Data from records of U. S. Weather Bureau.

Latah County--Continued.

stage on record. The precipitation was 6.6 inches above normal and was evenly distributed through the year. Heavy rainfall checked the seasonal decline of the water-levels by September, and by late December the water levels were in a rising phase. The water levels in both artesian wells declined to the lowest stage of record. The following table summarizes the fluctuations during 1940.

Summary of water-level changes, in feet, in observation wells in Latah County, 1940

Well	Highest level in spring of 1940: Rise since autumn of 1939	Highest level in spring of 1940: Net rise (+) or decline (-) from high level of 1939	Lowest level in autumn of 1940: Decline since spring of 1940	Lowest level in autumn of 1940: Net rise (+) or decline (-) from low level of 1939
Water-table wells				
7A	4.64	-0.52	4.27	+0.37
12	12.22	+2.23	11.93	+.29
27	4.18	-2.73	4.08	+.10
32	6.00	+1.57	5.02	+.98
41	.72	-.86	.31	+.41
42	.45	-.64	.....	....
44	.58	-.07	.68	a-.10
48	4.18	+2.30	3.19	+.99
49	6.31	-.95	5.93	+.38
Average	4.36	+0.04	4.43	+0.43
Non-flowing artesian wells				
39/5-7R1	3.09	-1.47	4.80	a-1.71
39/6-1Q1	2.06	-.04	2.45	a -.39
Mean	2.58	-0.76	3.62	-1.05

In Latah County, the average of the water levels in the water table wells was the highest on record at the beginning of observations in 1935. The greatest decline in average water level occurred in 1936, after deficient precipitation in 1935 and 1936; the greatest rise occurred in 1938, after the heavy precipitation of 1937. The water levels in the artesian wells have declined steadily since the beginning of record in 1937. The two tables that follow summarize the water-level fluctuation and the yearly precipitation in the five years of observation.

Summary of water-level changes, in feet, in observation wells in Latah County, 1936-40

	1936	1937	1938	1939	1940
Water-table wells					
Number of wells	4	9	9	9-10	9
Average yearly change in highest stage	-3.33	+0.84	+1.31	-1.47	+0.04
Accumulated yearly change	-3.33	-2.49	-1.18	-2.65	-2.61
Average yearly change in lowest stage	-1.04	+0.10	+0.18	-0.42	+0.43
Accumulated yearly change	-1.04	-0.94	-0.76	-1.18	-0.75
Non-flowing artesian wells					
Number of wells		2	2	2	2
Average yearly change in highest stage		.....	+0.01	-1.36	-0.76
Accumulated yearly change		.....	+0.01	-1.35	-2.11
Average yearly change in lowest stage		.....	+2.35	-2.65	-2.10
Accumulated yearly change			-2.35	-5.00	-7.10

a Declined to lowest level on record.

Latah County--Continued.

Summary of yearly precipitation, in inches, at Moscow, Idaho
(from U. S. Weather Bureau)

Year	1935	1936	1937	1938	1939	1940
Precipitation	15.99	16.98	26.71	16.45	15.48	28.44
Departure from normal	-5.76	-4.86	+4.87	-5.39	-6.36	+6.60
Accumulated departure since 1931	+6.00	+1.14	+6.01	+0.62	-5.74	+0.86

Bonner County
Rathdrum Prairie area

54/5W-27M1. J. C. Natvig. Local datum, 2,000 feet above preliminary sea-level datum and 1,996.95 feet above sea-level datum of 1929.

Water level, in feet above local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	190.04	May 8	189.73	July 31	190.56	Dec. 7	189.54
Mar. 22	189.86	June 14	190.27	Oct. 4	189.97		

Kootenai County

50/5W-1A1. Washington Water Power Co. well 96. Post Falls Irrigated District. Local datum, 1,950 feet above preliminary sea-level datum.

Water level, in feet above local datum, 1940

Jan. 22	a46.45	May 8	a47.92	July 31	a52.00	Oct. 29	a49.55
Feb. 28	46.35	June 3	a49.05	Aug. 29	a51.70	Dec. 7	a47.63
Mar. 23	a45.92	14	a49.28	Oct. 5	a50.07	30	a47.54
Apr. 24	a47.70	July 25	a52.40				

51/5W-33D1. Washington Water Power Co. well 58. Spokane International Railway Co. Local datum, 1,900 feet above preliminary sea-level datum.

Water level, in feet above local datum, 1940

Jan. 22	66.55	May 8	70.53	July 31	70.88	Oct. 29	68.95
Feb. 28	66.65	June 3	71.55	Aug. 29	70.85	Dec. 7	67.30
Mar. 22	67.83	14	71.17	Oct. 8	69.37	30	67.60
Apr. 24	70.30	July 25	71.35				

52/4W-11N1. H. G. Bings. Well caved; measurements discontinued.

53/4W-24D1. Washington Water Power Co. well 91. C. T. Jurgens. Local datum, 2,000 feet above preliminary sea-level datum and 1,996.95 feet above sea-level datum of 1929.

Water level, in feet above local datum, 1940

Jan. 19	20.12	May 8	21.08	July 31	22.77	Oct. 29	21.53
Feb. 28	19.38	June 3	20.43	Aug. 29	22.66	Dec. 7	20.34
Mar. 22	19.47	14	22.53	Oct. 4	21.76	30	20.13
Apr. 24	20.64	July 25	23.43				

Latah County
Palouse River area
Water-table observation wells.

7A. Latah County.

Daily noon water level, in feet above assumed datum, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.07	12.19	13.81	16.39	15.58	14.32	13.41	12.74	12.16	.....	....	....
2	12.08	12.21	14.10	16.41	15.57	14.28	13.38	12.72	12.15	.....	....	....
3	12.09	12.23	14.35	16.39	15.55	14.25	13.35	12.70	12.21	12.47	....	....
4	12.10	12.25	14.56	16.34	15.52	14.20	13.32	12.67	12.20	.....	....	....
5	12.10	12.25	14.73	16.36	15.48	14.17	13.30	12.65	12.22	.....	....	....
6	12.10	12.38	14.87	16.36	15.45	14.14	13.27	12.64	12.21	.....	....	....
7	12.10	12.41	15.02	16.31	15.40	14.12	13.24	12.62	12.20	.....	....	....
8	12.10	12.42	15.40	16.32	15.37	14.09	13.22	12.60	12.20	.....	....	....
9	12.11	12.44	15.95	16.38	15.33	14.05	13.20	12.58	12.20	.....	....	....
10	12.12	12.49	16.06	16.43	15.29	14.02	13.17	12.55	12.20	.....	....	....
11	12.12	12.51	16.09	16.38	15.24	14.00	13.14	12.53	12.20	.....	....	....
12	12.12	12.52	16.08	16.30	15.19	13.98	13.11	12.50	12.21	.....	....	....

a Pump operating in well.

Latah County--Continued.
Palouse River area
Water-table observation wells.

7A. Latah County--Continued.

Daily noon water level, in feet above assumed datum, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
13	12.12	12.55	16.07	16.21	15.15	13.95	13.08	12.47	12.21	....	....	.....
14	12.12	12.58	16.08	16.12	15.10	13.91	13.05	12.46	12.21	....	....	.....
15	12.11	12.59	16.09	16.03	15.06	13.87	13.02	12.44	12.22	....	....	.....
16	12.11	12.60	16.08	15.94	15.01	13.84	13.01	12.42	12.23	....	....	.....
17	12.11	12.63	16.07	15.86	14.97	13.81	12.98	12.40	12.24	....	....	.....
18	12.11	12.66	16.04	16.03	14.92	13.80	12.97	12.38	12.31	....	....	.....
19	12.10	12.68	16.02	15.87	14.88	13.77	12.93	12.36	12.31	....	....	.....
20	12.08	12.70	15.09	15.79	14.83	13.75	12.91	12.35	12.32	....	....	.....
21	12.07	12.74	15.94	15.73	14.79	13.72	12.88	12.33	12.32	....	....	.....
22	12.07	12.80	15.89	15.69	14.74	13.69	12.85	12.31	12.33	....	....	.....
23	12.07	12.85	15.83	15.66	14.69	13.65	12.84	12.29	12.33	....	....	.....
24	12.07	12.91	15.78	15.65	14.65	13.62	12.81	12.27	12.33	....	....	.....
25	12.07	12.98	15.76	15.65	14.60	13.61	12.78	12.25	12.33	....	....	.....
26	12.10	13.07	15.90	15.66	14.56	13.58	12.76	12.25	12.33	....	....	.....
27	12.12	13.21	16.03	15.67	14.51	13.54	12.81	12.23	12.34	....	....	.....
28	12.16	13.40	16.07	15.65	14.48	13.50	12.80	12.21	12.35	....	....	14.31
29	12.17	13.65	16.13	15.62	14.44	13.47	12.78	12.20	12.35	....	....	.....
30	12.18	.....	16.15	15.58	14.40	13.44	12.78	12.19	a12.37	....	....	.....
31	12.19	.....	16.18	.....	14.36	.....	12.77	12.17	.....	....	....	.....

12. G. Mix.

Water level, in feet above assumed datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	8.42	Apr. 18	20.12	July 19	12.63	Sept. 18	9.37
Feb. 16	14.00	May 17	18.85	Aug. 21	9.76	Oct. 7	b8.71
Mar. 21	20.64	June 19	15.49				

14. J. I. Heick. Measurements discontinued.

27. F. B. Laney.

Water level, in feet above assumed datum, 1940

Jan. 6	5.23	Mar. 5	7.51	Apr. 30	9.13	June 19	7.85
15	5.43	12	8.22	May 7	9.02	25	7.67
20	5.50	19	8.53	14	8.99	July 1	7.42
29	5.56	26	8.70	21	8.81	19	6.86
Feb. 6	5.76	Apr. 3	8.66	30	8.57	Aug. 21	5.94
13	5.87	9	8.74	June 5	8.32	Sept.18	5.24
20	6.17	16	9.07	10	8.32	Oct. 3	b5.11
27	6.80	23	9.19				

32. Federal Geological Survey.

Water level, in feet above assumed datum, 1940

Jan. 16	8.96	Apr. 16	14.96	July 19	10.71	Sept. 17	9.98
Feb. 16	9.41	May 18	13.01	Aug. 21	10.20	Oct. 2	b9.94
Mar. 21	14.07	June 19	11.84				

41. E. Snow.

Water level, in feet above assumed datum, 1940

Jan. 15	12.61	Apr. 20	12.46	July 19	12.63	Sept.17	12.76
Feb. 16	12.22	May 17	12.44	Aug. 21	12.65	Oct. 2	b12.82
Mar. 15	12.35	June 19	12.94				

42. South Moscow School.

Water level, in feet above assumed datum, 1940

Jan. 15	12.51	Apr. 20	12.96	June 19	12.93	Aug. 21	12.59
Feb. 16	12.58	May 17	12.57	July 19	12.59	Oct. 2	b12.67
Mar. 15	12.82						

a Recorder removed.
b Measurements discontinued.

Latah County--Continued.

Palouse River area

Water-table observation wells

44. J. L. Naylor.

Water level, in feet above assumed datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	13.37	Apr. 18	13.31	July 19	13.13	Sept.17	13.24
Feb. 16	13.48	May 18	13.23	Aug. 21	12.80	Oct. 2	a13.31
Mar. 21	13.37	June 19	13.24				

48. Ida Peterson.

Water level, in feet above assumed datum, 1940

Jan. 15	10.82	Apr. 16	15.00	July 19	12.92	Sept.19	11.93
Feb. 16	10.97	May 18	14.64	Aug. 21	12.33	Oct. 3	a11.81
Mar. 15	12.19	June 19	14.37				

49. S. Gerke.

Water level, in feet above assumed datum, 1940

Jan. 16	7.30	Apr. 18	13.07	July 19	8.20	Sept.18	7.14
Feb. 20	10.05	May 17	12.02	Aug. 21	7.80	Oct. 3	a7.43
Mar. 15	12.94	June 19	10.70				

Artesian observation wells

39/5-7R1. Inland Motor Freight, Moscow, Idaho

Water level, in feet above mean sea level minus 2,000, 1940

Jan. 6	507.26	Mar. 5	507.22	Apr. 30	506.78	July 19	503.44
20	507.03	19	507.33	May 30	507.12	Aug. 22	502.95
Feb. 6	507.74	Apr. 3	507.75	June 10	506.42	Sept.18	504.79
20	506.78	16	506.92	25	504.47	Oct. 7	503.86

39/6-1Q1. G. P. Mix, Moscow, Idaho.

Water level, in feet above mean sea level minus 2,000, 1940

Jan. 16	500.49	Apr. 20	501.84	July 19	500.33	Sept.18	499.39
Feb. 16	500.59	May 17	501.32	Aug. 21	500.17	Oct. 3	499.79
Mar. 21	501.77	June 19	500.42				

a Measurements discontinued.

FLATHEAD VALLEY BETWEEN FLATHEAD LAKE AND KALISPELL

By R. C. Cady

Periodic measurements in 39 wells in the valley and delta area between Flathead Lake and Kalispell were continued through 1940.[1/] To the 155 readings that have been collected since July 1928 were added 10 other readings.

Average monthly water levels and comparisons with those of 1939 and 1929 are given in the following table. In the early part of 1940 the water levels were slightly lower than in the corresponding months of 1939, but in the latter part of the year the 1940 levels were higher. The average water levels in 1940 were all lower than corresponding average water levels in 1929. The greatest difference was in the early part of the year.

The water level in well 33 could not be measured in August 1940, and a calculated substitute reading was inserted in computing the average water levels. This was done by comparing readings of the well with readings of nearby wells.

It will be noted that the water levels in the accompanying table are expressed in feet above the altitude 2,800 feet above sea level.

Average monthly water levels in observation wells in Flathead Valley, Mont., in 1940, and their differences from monthly averages in 1939 and 1929.

Month	Average 1940	Difference from average in 1939	Difference from average in 1929
January	86.15	.....	-1.50
February	.....	.....	.....
March	86.36	.....	-1.80
April	86.41	-.11	-1.64
May	86.46	-.40	-1.67
June	86.72	-.32	-1.66
July	.....	.....	.....
August	86.73	+.14	- .86
September	.....	.....	.....
October	86.71	+.35	- .59
November	86.66	.....	- .42
December	86.70	+.57	- .33

1/ See Water-Supply Papers 777, 817, 840, 845, and 886 for records of water level from 1928 to 1939.

Water levels, in feet above datum, 1940
(2,800 feet must be added to convert water levels to altitudes above sea level.)

Well No.	Jan. 12	Mar. 20	Apr. 19	May 18	June 24	Aug. 14	Aug. 29	Oct. 4	Nov. 14	Dec. 6
1	86.75	87.05	87.14	87.09	87.15	87.12	87.24	87.34	87.37	87.32
2	84.19	84.49	84.48	84.39	84.20	83.91	83.87	84.14	84.33	84.46
3	81.02	81.56	81.71	81.69	81.18	80.46	80.30	80.27	80.65	80.85
4	84.77	84.07	84.08	83.98	83.75	83.44	83.36	83.58	83.72	83.85
5	87.56	88.12	88.17	88.13	88.13	88.11	88.01	88.05	88.14	88.24
7	88.36	88.69	88.62	88.49	88.58	88.34	88.39	88.32	88.33	88.26
8	88.22	88.73	88.84	88.46	88.38	87.92	87.80	87.94	88.03	88.11
9	86.67	86.93	87.01	87.02	86.99	87.20	87.29	87.37	87.38	87.42
10	86.60	87.01	87.08	87.02	87.13	87.32	87.38	87.42	87.40	87.47
11	85.00	85.74	85.71	85.64	86.58	84.97	85.04	85.02	85.00	85.11
13	85.29	84.08	84.27	84.30	84.26	83.62	83.58	83.64	83.76	83.95
14	85.19	84.84	84.77	85.17	86.59	87.44	87.78	87.52	87.21	87.04
19	86.09	87.14	87.00	86.55	85.41	84.37	84.54	85.44	85.69	86.25
20	87.18	87.52	87.47	87.32	87.05	86.97	87.12	87.15	87.18	87.26
21	86.59	86.36	86.11	86.11	86.62	87.09	87.44	87.68	87.65	87.90
22	86.68	86.32	86.21	86.43	87.22	87.79	87.98	87.90	87.80	87.72
23	85.03	84.29	86.60	89.35	90.58	90.45	90.14	89.28	88.41	88.00
25	87.02	86.40	86.27	86.58	87.62	88.39	88.60	88.58	88.42	88.34
26	87.27	86.91	86.76	86.78	87.20	87.66	87.84	87.98	88.15	88.00
27	85.86	85.20	85.23	86.41	89.00	89.89	89.82	89.32	88.73	88.40
28	87.05	86.58	86.53	86.82	87.52	88.05	88.23	88.31	88.56	88.09
29	86.10	85.68	85.75	86.70	88.43	89.10	89.11	88.73	88.30	88.07
30	87.03	86.87	86.88	86.75	86.84	87.04	87.11	87.19	87.18	87.22
31	87.29	87.42	87.48	87.40	87.39	87.37	87.41	87.47	87.22	87.32
32	87.93	89.63	89.11	88.79	88.48	88.06	87.85	87.96	87.79	87.80
33	83.76	84.42	84.50	84.40	83.68	.....	.....	82.81	83.27	83.45
34	87.12	87.01	86.99	86.95	86.98	86.97	86.96	87.06	86.91	86.92
35	86.63	87.47	87.35	87.19	87.04	86.67	86.64	86.51	86.48	86.49
36	85.54	85.72	85.80	85.76	85.72	85.53	85.50	85.50	85.43	85.43
37	84.83	85.42	86.45	85.38	85.05	84.66	84.23	84.52	84.55	84.58
38	84.67	85.55	85.47	85.41	85.51	84.61	84.23	84.67	84.62	84.84
39	84.29	85.01	84.92	84.97	85.31	85.36	85.37	85.49	85.46	85.52
40	84.42	85.21	85.41	85.31	85.82	88.93	87.92	87.40	87.06	87.61
41	86.45	86.81	86.87	86.52	86.52	86.68	86.65	86.69	86.53	86.59
43	86.97	87.29	87.33	86.84	87.21	87.02	86.98	86.94	86.91	86.98
44	87.78	88.33	88.25	88.17	87.98	87.73	87.70	87.67	87.65	87.71
45	88.48	88.91	88.92	88.84	88.84	88.56	88.52	88.45	88.40	88.42
46	84.57	85.00	85.02	85.06	85.06	85.11	85.11	85.14	85.12	85.22
47	87.69	87.85	87.58	87.89	88.96	89.18	89.10	89.11	89.12	89.10
Average	86.15	86.36	86.41	86.46	86.72	86.73	86.61	86.71	86.66	86.70

OREGON

By Joseph E. Upson

Water levels in Oregon were measured during the decade from 1931 to 1940 in observation wells in 6 areas. In one area--the Harney Basin--measurements were made every year on four wells; in the other areas measurements were made intermittently. A continuing program in all 6 areas has been maintained since December 1938.

The following table summarizes the observed fluctuations of water level in five areas. Fluctuations of water level in the sixth area--the Walla Walla Basin--are discussed separately, as are those in the four wells in the Harney Basin that have been measured every year.

Summary of water-level fluctuations in representative observation wells in 5 areas in Oregon, 1930-40
(Unless otherwise stated in footnote, period of record ends December 1940)

Area	Date of initial measurement	Number of wells	Number of measurements	Kind of well
Baker Valley	June 1936	4	10	water-table
Fort Rock Valley	Sept. 1932	4	13	artesian
	Aug. 1938	1	9	water-table
Grande Ronde Valley	May 1936	3	11	water-table
Harney Basin	Dec. 1931	12	2	water-table and artesian
	Jan. 1936	7	13	water-table
Williamette Valley	Mar. 1930	10	a10	water-table

Summary of water-level fluctuations in representative observation wells in 5 areas in Oregon, 1930-40
(Unless otherwise stated in footnote, period of record ends December 1940)

Area	Average departures of water levels, in feet, above (+), or below (-) initial observed stages				Net change in period of record
	Maximum stage		Minimum stage		
Baker Valley	Mar. 1939	+0.93	Sept. 1939	-2.68	-0.92
Fort Rock Valley	Sept. 1932	0.00	Oct. 1940	c-3.16	-2.86
	Dec. 1938	+0.07	Nov. 1940	-0.47	-0.42
Grande Ronde Valley	June 1936	+0.03	Dec. 1939	-1.67	-0.81
Harney Basin					b+1.60
	May 1940	+3.16	Feb. 1936	-0.43	+0.40
Williamette Valley	Mar. 1936	+0.80	Dec. 1939	-9.38	-1.57

a In 1930 and from October 1935 to October 1936 many more measurements were made; for these periods only spring high stages, which mostly occurred in March, are used in the computation.
b Final measurements made in Dec. 1935.
c Includes interpolated water level.

For most areas water levels have been measured for too short a period or too irregularly to afford a correlation with fluctuations of the precipitation. In the Fort Rock Valley water levels in artesian wells have declined progressively, apparently without relation to fluctuations of precipitation. Withdrawals for irrigation in excess of recharge may have caused the decline; but the water levels in shallow water-table wells from which no withdrawals for irrigation are made have declined also and in a similar manner.

At the Harney Branch Experiment Station in the Harney Basin, Obil Shattuck and R. E. Hutchison, voluntary observers, have recorded monthly measurements since 1930 on two deep irrigation wells that tap confined water, and on two companion water-table wells. The water levels in one of the deep wells and in both shallow wells have also been measured by the Geological Survey 2 to 4 times a year since 1936. The following table shows the long-term fluctuations in one of the deep wells and in both shallow wells, by accumulated departures of the high stage of each spring (usually the highest stage of the year) from that of the preceding year. Water levels at that season reflect most of the spring recharge and precede the heavy summer withdrawals for irrigation.

Yearly departures, in feet, of spring high water levels from those of 1930 in 3 wells in the Harney Basin

Year	Rise (+), or decline (-), in feet		Accumulated departure of yearly precipitation from normal, in inches a/
	Artesian well 23/32-7L2	Average for water-table wells 23/32-7L1 and 23/32-7Q3	
1931	-0.7	-0.7	-1.15
1932	+ .3	- .25	-0.60
1933	+1.6	b- .15	+ .93
1934	-1.1	b+ .35	+ .37
1935	-1.3	- .2	-1.47
1936	-1.4	+ .5	+1.76
1937	-1.1	+ .15	+4.81
1938	+1.2	+2.5	+ .41
1939	+ .2	+1.45	-4.17
1940	+1.1	+2.8	c+5.94

Water-level fluctuations in the Harney Basin correspond fairly closely with fluctuations in the yearly precipitation. The water levels in the shallow wells rose in response to the excessive precipitation in 1937 and 1940. The water level in the artesian well also has risen with excessive precipitation, although the high stages of 1933, 1936, 1938, and 1940 declined slightly but progressively. Whether this decline is the

a From records of U. S. Weather Bureau; normal recomputed each year from 1931 to 1938.

b Includes one interpolated water level. c Approximate.

result of excessive withdrawal for irrigation, or of deficient replenishment by scant rainfall and runoff in the recharge area is not known.

In the Walla Walla Basin 77 observation wells were established in December 1932 and the water levels in them were measured periodically until September 1933 (see Water-Supply Paper 777, p. 154). In October 1935, 21 of the wells were reestablished, and the water levels in them have since been measured once or twice a month by the district watermaster, J. M. Spencer. In addition, float gages maintained on 2 wells since October 1935 have been read approximately every other day by the well owners. The following table shows fluctuations of water level in 20 wells observed since the autumn of 1932.

Average net departures, in feet, of yearly spring water levels from those of 1933 in observation wells in the Walla Walla Basin

Date	Number of wells	Departure; rise (+), recession (-) (feet)	Date	Number of wells	Departure; rise (+), recession (-) (feet)
1933	20	0.00	1938	b 18	-1.37
1936	a 19	+ .18	1939	b 17	+ .49
1937	20	- .51	1940	b 18	-2.95

Water-level fluctuations in the Walla Walla Basin do not follow local precipitation, which has diminished irregularly but continuously since 1930, but are determined largely by the stage of the Walla Walla River (see Water-Supply Paper 777, p. 154), a flashy stream fed by the precipitation on higher terrane.

Water levels in 1940

The water-level program in Oregon was carried on in 1940 by cooperation among the Geological Survey, the Oregon State Engineer, and the Oregon Agricultural Experiment Station. Two observation wells were discontinued and two new wells were established during the year.

In addition to the water-level program work was begun during the year on a reconnaissance investigation of ground-water conditions in Lake County in cooperation with the Oregon Agricultural Experiment Station. Results will be given ultimately in a separate report. A comprehensive report on the Harney Basin, in the semi-arid eastern part of the State, was published during the year as Geological Survey Water-Supply Paper 841.

a One well dry.
b Pumping levels excluded from average.

Two tables that follow show the scope of the water-level program and the trend of water levels during the year.

Scope of observation-well program in Oregon, 1940

Area	County or counties	Number of water-table wells	Number of artesian wells	Number of measurements
Baker Valley	Baker	5		15
Fort Rock Valley	Lake	3	4	24
Grande Ronde Valley	Union	4		12
Harney Basin	Harney	9	2	66
Walla Walla Basin	Umatilla	a 19		614
Willamette Valley	Benton, Clackamas, Lane, Linn, Marion, and Yamhill	12	1	38
Total		52	7	769

Average and extreme yearly rise (+), or decline (-), of water levels, in feet, in observation wells in Oregon, 1940

Area	Number of wells	Kind of well	Kind of change	Change
Baker Valley	3	water-table	average	+1.72
Fort Rock Valley	4	artesian	average	- .43
	1	water-table	net	- .16
Grande Ronde Valley	3	water-table	average	+ .86
Harney Basin	9	water-table	greatest rise	+ .72
			greatest decline	- .77
			average	+ .11
	2	artesian	average	+ .31
Walla Walla Basin	16	water-table	greatest rise	+5.39
			greatest decline	-10.32
			average	- .96
Willamette Valley	11	water-table	greatest rise	+17.04
			least rise	+1.89
			average	+7.35
	1	artesian	net	+5.93

All the areas in Oregon received more than normal precipitation during the first 3 or 4 months of 1940. As a result, the spring water levels in the Grande Ronde, Harney, and Willamette Valleys reached higher stages than in 1939 and in the Baker Valley they reached stages that were almost as high. Summer rainfall was slightly deficient, but rainfall in September and October was again in excess of normal. Consequently, in all areas except the Fort Rock Valley the water levels in December were higher in 1940 than in 1939. In the Fort Rock Valley rainfall in January, February, and March was only slightly above normal and the water levels continued to decline. Local rainfall in September and October caused the water levels to rise slightly in some wells in November.

a Includes one well in Walla Walla County, Wash., near State boundary.

Baker County

Baker Valley

Water levels in Baker County are expressed in feet above sea-level datum of 1929.

7/39-20N1. Water levels, in feet, 1940: May 16, 3,371.18; Oct. 10, 3,366.87; Dec. 20, 3,369.05.

8/39-22F1. Water levels, in feet, 1940: May 16, 3,379.61; Oct. 10, 3,378.37; Dec. 20, 3,379.78.

8/40-19D1. Water levels, in feet, 1940: May 16, 3,340.43; Oct. 10, 3,337.39; Dec. 20, 3,337.55.

8/40-23A1. Water levels, in feet, 1940: May 16, 3,343.58; Oct. 9, 3,342.70; Dec. 20, 3,343.06.

9/40-8N1. Water levels, in feet, 1940: May 16, a/; Oct. 9, a/; Dec. 20, a/.

Harney County

Harney Valley

Water levels in Harney County are expressed in feet above sea-level datum of 1929.

22/31-34N1. Frank Whiting. Artesian well. Water levels, in feet, 1940: May 17, 4,145.05; Oct. 9, 4,142.17; Dec. 21, 4,142.12.

23/31-3D2. Well 22/31-3D2 in Water-Supply Paper 886. Harney County. Water-table well. Water levels, in feet, 1940: May 17, 4,149.75; Oct. 8, 4,144.24; Dec. 21, 4,144.13.

23/31-14A3. Well 22/31-14A3 in Water-Supply Paper 886. Harney County. Water table well. Water levels, in feet, 1940: May 17, 4,134.41; Oct. 8, 4,131.46; Dec. 21, 4,131.17.

23/31-16E1. Harney County. Water-table well. Water levels, in feet, 1940: May 17, 4,142.45; Oct. 8, 4,138.04; Dec. 20, 4,137.87.

23/31-33E1. Harney County. Water-table well. Water levels, in feet, 1940: May 17, 4,132.08; Oct. 8, 4,126.10; Dec. 20, 4,126.29.

23/32-7L1. Harney Branch Experiment Station. Water-table well. Measurements on May 17, Oct. 8, and Dec. 21, 1940, by U. S. Geological Survey; all others by Obil Shattuck and R. E. Hutchison, voluntary observers.

Water level, in feet above sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	4,127.71	May 17	4,129.15	Aug. 31	4,130.70	Dec. 4	4,127.89
Mar. 1	4,129.19	June 1	4,133.11	Oct. 1	4,128.77	21	4,127.86
Apr. 1	4,129.67	July 1	4,133.17	8	4,128.63	31	4,128.05
May 2	4,129.47	Aug. 1	4,133.34	29	4,128.12		

23/32-7L2. Harney Branch Experiment Station. Artesian well. Measurements on May 17, Oct. 8, and Dec. 21, 1940, by U. S. Geological Survey; all others by Obil Shattuck and R. E. Hutchison, voluntary observers. See following table for record of monthly pumpage.

Water level, in feet above sea level, 1940

Feb. 1	4,126.97	May 2	4,129.13	Oct. 1	4,126.01	Dec. 4	4,127.28
Mar. 1	4,127.31	17	4,129.66	8	4,126.71	21	4,127.85
Apr. 1	4,128.28	Aug.31	4,122.08	29	4,126.98	31	4,127.50

a Dry.

Harney County--Continued.

23/32-7Q3. Harney Branch Experiment Station. Water-table well. Measurements on May 17, Oct. 8, and Dec. 21, 1940, by U. S. Geological Survey; all others by Obil Shattuck and R. E. Hutchison, voluntary observers.

Water level, in feet above sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	4,126.61	May 17	4,128.44	Aug. 31	4,127.64	Dec. 4	4,127.30
Mar. 1	4,127.14	June 1	4,129.01	Oct. 1	4,127.38	21	4,127.32
Apr. 1	4,127.49	July 1	4,128.93	8	4,126.81	31	4,127.32
May 2	4,128.00	Aug. 1	4,128.34	29	4,127.40		

23/32-30R1. Harney County. Water-table well. Water levels, in feet, 1940: May 17, 4,116.36; Oct. 8, 4,117.88; Dec. 20, 4,116.93.

24/31-28E1. Harney County. Water-table well. Water levels, in feet, 1940: May 17, 4,113.03; Oct. 8, 4,112.70; Dec. 20, 4,112.69.

24/32-24R1. Harney County. Water-table well. Water levels, in feet, 1940: May 17, 4,066.35; Oct. 8, 4,065.51; Dec. 20, 4,066.04.

Approximate monthly pumpage, in acre-feet, from two irrigation wells at the Harney Branch Experiment Station, 1940

Month	Well 23/32-7L2 a/	Well 23/32-7Q1 b/
May	31.9	19.4
June	62.3	40.8
July	48.5	29.6
August	29.3	17.0
September	.5	.4
May - September	172.5	107.2

Lake County

Fort Rock Valley

Unless otherwise stated, the water level in each well in Lake County is expressed in feet above an assumed datum, which is 10 feet below the measured or interpolated water level in that well on Sept. 4, 1932.

25/14-15E1. Harry Crampton. Water levels, in feet, 1940: May 18, 7.51; Oct. 6, 7.44; Dec. 21, 7.42.

26/15-22B1. Roy Morehouse (formerly H. W. Ostrom). Water levels, in feet, 1940: Nov. 21, 6.63; Dec. 21, 6.71.

27/15-4G1. H. M. Parks. Water levels, in feet, 1940: May 18, 5.12; Oct. 6, 5.59; Nov. 18, 7.49; Dec. 21, 6.96.

27/15-4G2. H. M. Parks. Water levels, in feet, 1940: May 18, 7.10; Oct. 6, 7.62; Nov. 18, 7.52; Dec. 21, 7.49.

27/17-22R2. W. D. Collins. New measuring point (2), top of concrete block at south side below pump base flange, flush with top of casing. Elevation approximately the same as former measuring point (1). Water levels, in feet, 1940: Oct. 7, 7.55; Nov. 19, 7.51; Dec. 21, 7.58.

27/18-6E1. W. D. Collins. Well caved; measurements discontinued.

27/18-6E2. W. D. Collins. In abandoned farm yard, between house and barn, and about 50 feet northeast of house. Unused domestic well. Cased with 8-inch stovepipe casing. Measuring point, top of casing on east side, 0.5 foot above land surface, 100 feet above arbitrary datum. Water levels, in feet, above arbitrary datum, 1940: May 23, 76.07; Oct. 7, 75.97; Nov. 19, 75.92; Dec. 21, 75.91.

27/18-7N1. M. S. Buchanan. Water levels, in feet, 1940: May 18, 7.58; Oct. 7, 3.10 c/; Nov. 19, 7.38; Dec. 21, 7.43.

a Pump operated May 18 to Aug. 17, and Sept. 4.
b Pump operated May 14 to Aug. 16, and Sept. 3.
c Water level affected by previous pumping.

Union County

Grande Ronde Valley

Water levels in Union County are expressed in feet above sea-level datum of 1929.

1/39-17K1. May 15, a/; Oct. 10, a/; Dec. 20, a/.

1/39-17L1. A. F. Furman. NE¼SW¼ sec. 17, T. 1 S., R. 39 E. About 200 yards southwest of well 1/39-17K1. Used drilled domestic well, diameter 4 inches, depth 44.6 feet. Measuring point, top of steel casing, 1 foot above land surface, 2 feet above measuring point of well 1/39-17K1, and about 2,736 feet above sea-level datum of 1929. Water levels, in feet, 1940: May 15, 2,712.0; Oct. 10, 2,711.78; Dec. 20, 2,711.50.

2/39-26F1. Water levels, in feet, 1940: May 15, 2,677.14; Oct. 10, 2,676.87; Dec. 20, 2,676.61.

3/38-10B1. Water levels, in feet, 1940: May 15, 2,726.34; Oct. 10, 2,720.88; Dec. 20, 2,721.45.

3/38-25B1. Water levels, in feet, 1940: May 15, 2,697.54; Oct. 10, 2,695.34; Dec. 20, 2,696.07.

Umatilla County

Walla Walla Basin

5N/35-1C1. John Clark.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	973.39	Apr. 26	972.84	July 12	967.65	Sept.10	967.33
Feb. 10	975.89	May 11	972.84	27	968.00	Oct. 11	964.32
Mar. 13	973.59	25	971.58	Aug. 10	966.58	Nov. 13	970.64
21	973.44	June 12	969.98	27	968.50	Dec. 11	969.38
Apr. 10	972.31	26	968.47				

5N/35-2C1. E. J. McSherry.

Water level, in feet above mean sea level, 1940

Jan. 10	956.86	Apr. 24	959.02	July 12	961.32	Sept.10	960.75
Feb. 9	957.87	May 10	960.31	26	961.23	Oct. 10	957.64
Mar. 12	957.05	24	961.78	Aug. 9	959.95	Nov. 12	956.77
21	956.59	June 11	961.95	27	960.57	Dec. 10	956.41
Apr. 9	957.31	25	961.56				

5N/35-3H1. J. M. Morse, Estate.

Water level, in feet above mean sea level, 1940

Jan. 10	921.70	Apr. 24	925.61	July 12	940.15	Sept.10	939.92
Feb. 9	922.72	May 10	936.68	26	939.32	Oct. 10	924.53
Mar. 12	927.47	24	939.23	Aug. 9	940.03	Nov. 12	921.45
21	922.08	June 11	940.85	27	940.22	Dec. 10	920.86
Apr. 9	922.41	25	b946.72				

6N/34-13R1. M. O. Beauchamp.

Water level, in feet above mean sea level, 1940

Jan. 11	641.45	Apr. 26	641.66	July 12	641.15	Sept.10	638.74
Feb. 9	641.29	May 10	641.44	26	640.72	Oct. 10	638.02
Mar. 12	641.27	24	641.86	Aug. 9	639.97	Nov. 12	638.13
21	641.24	June 11	641.85	27	639.33	Dec. 10	639.17
Apr. 9	641.44	25	641.47				

a Dry.
b Adjacent land being irrigated.

Umatilla County--Continued.

6N/35-14L. Conrad Miller.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	786.85	Apr. 25	782.43	July 12	782.23	Sept.10	782.51
Feb. 10	785.65	May 11	782.39	26	782.36	Oct. 11	782.22
Mar. 12	786.28	25	783.22	Aug. 9	782.60	Nov. 13	781.13
21	784.51	June 12	782.85	27	781.78	Dec. 11	a784.21
Apr. 10	783.53	26	783.55				

6N/35-20G1. Herman Markman.

Water level, in feet above mean sea level, 1940

Jan. 10	732.91	Apr. 27	733.27	July 12	729.67	Sept.10	725.62
Feb. 9	732.99	May 10	733.60	26	728.59	Oct. 10	726.77
Mar. 12	733.07	24	733.29	Aug. 9	727.46	Nov. 12	729.82
21	732.37	June 11	732.87	27	729.28	Dec. 10	730.25
Apr. 9	733.48	25	731.57				

6N/35-20Q1. ----- Jackson.

Water level, in feet above mean sea level, 1940

Jan. 10	732.30	Apr. 27	731.36	July 12	730.04	Sept.10	(b)
Feb. 9	729.94	May 10	734.04	26	728.14	Oct. 10	(b)
Mar. 12	730.04	24	734.94	Aug. 9	(b)	Nov. 12	729.72
21	730.03	June 25	732.77	27	(b)	Dec. 10	729.90
Apr. 9	730.62						

6N/35-21H1. ----- Behnke.

Water level, in feet above mean sea level, 1940

Jan. 10	767.95	Apr. 27	764.25	July 12	760.37	Sept.10	761.19
Feb. 9	768.54	May 10	763.47	26	761.14	Oct. 10	764.47
Mar. 12	768.06	24	767.46	Aug. 9	760.95	Nov. 12	766.24
21	765.29	June 11	767.89	27	761.14	Dec. 10	765.26
Apr. 9	768.10	25	761.94				

6N/35-24C1. William Pomeringin.

Water level, in feet above mean sea level, 1940

Jan. 11	820.65	Apr. 25	821.28	July 12	820.90	Sept. 10	820.55
Feb. 10	820.69	May 11	821.22	26	821.35	Oct. 11	820.79
Mar. 13	821.48	25	821.42	Aug. 9	821.21	Nov. 13	819.85
21	821.31	June 12	821.51	27	820.87	Dec. 11	820.32
Apr. 10	821.32	26	821.36				

6N/35-24Q1. C. B. Miller.

Water level, in feet above mean sea level, 1940

Jan. 11	851.09	Apr. 25	852.04	July 12	c837.94	Sept.10	842.90
Feb. 10	853.01	May 11	851.53	27	843.33	Oct. 11	846.38
Mar. 13	852.62	25	851.16	Aug. 10	844.17	Nov. 13	842.17
21	851.93	June 12	c842.58	27	843.51	Dec. 11	846.98
Apr. 10	852.63	26	842.23				

6N/35-26C2. Boerstler Estate.

Water level, in feet above mean sea level, 1940

Jan. 11	849.13	Apr. 25	846.78	July 12	841.45	Sept.10	847.88
Feb. 10	853.20	May 11	850.80	27	c839.16	Oct. 11	847.54
Mar. 13	848.92	25	854.50	Aug. 10	c840.67	Nov. 13	841.09
21	847.83	June 12	852.05	27	845.47	Dec. 11	843.76
Apr. 10	846.36	26	c842.49				

a Adjacent land being irrigated.
b Dry.
c Pumping.

Umatilla County--Continued.

6N/35-26P1. O. K. Goodman. Except as indicated by footnote, levels are from float-gage readings by owner.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1-5	(a)	Mar. 21	864.02	June 1	878.36	Aug. 11	868.02
7	864.92	21	864.03	3	876.90	13	866.72
9	865.69	23	b864.02	5	876.12	15	865.79
11	865.78	25	864.02	7	875.15	17	866.07
11	b865.80	27	864.02	9	874.13	19	865.37
13	865.73	29	864.02	11	873.87	21	865.30
15	865.59	31	864.02	12	b874.40	23	865.37
17	865.60	Apr. 1	864.02	13	873.54	25	865.50
19	865.15	3	864.02	15	873.21	27	865.62
21	864.97	5	864.02	17	872.72	27	b865.64
23	864.55	7	864.02	19	872.46	29	865.25
25	864.42	9	864.02	21	870.94	31	866.06
27	864.62	10	(a)	23	870.71	Sept. 1	866.29
29	865.07	11	864.02	25	869.24	3	865.95
31	866.72	13	864.02	26	b869.06	5	866.72
Feb. 1	867.47	15	864.02	27	868.45	7	867.43
3	868.37	17	864.02	29	869.52	9	868.97
5	868.51	19	864.02	July 1	867.75	10	b870.07
7	869.92	21	864.02	3	867.34	11	870.35
9	870.72	23	864.47	5	867.13	13	870.81
10	b871.27	25	865.22	7	866.94	15	873.12
11	871.31	27	b864.89	9	866.71	17	872.69
13	870.47	27	864.88	11	865.43	19	873.53
15	869.12	29	864.84	12	b865.44	21	871.54
17	867.74	May 1	864.80	13	865.45	23	870.52
19	869.22	3	866.34	15	865.15	25	869.97
21	867.02	5	867.90	17	864.52	27	870.22
23	865.92	7	869.70	19	864.34	29	867.02
25	864.07	9	872.62	21	865.23	Oct. 1	865.87
27	864.02	11	b877.27	23	865.32	3	864.47
29	868.59	11	877.63	25	865.12	5	864.79
Mar. 1	870.72	13	881.58	27	866.22	7	864.00
3	870.12	15	882.63	27	b866.47	9	863.99
5	868.32	17	883.24	29	868.37	11-31	(a)
7	867.37	19	883.75	31	869.52	Nov. 1	863.99
9	867.87	21	883.51	Aug. 1	869.82	3-29	(a)
11	866.35	23	884.00	3	870.93	Dec. 1	863.99
13	865.82	25	b880.96	5	869.44	3-31	(a)
13	b865.82	25	881.04	7	868.81		
15	865.31	27	879.82	9	867.64		
17	864.57	29	879.62	10	b867.80		
19	864.22	31	878.43				

6N/35-28H1. W. J. Rand.

Water level, in feet above mean sea level, 1940

Jan. 10	817.50	Apr. 27	817.56	July 12	816.99	Sept.10	816.33
Feb. 9	817.25	May 10	c816.83	26	816.41	Oct. 10	818.08
Mar. 12	817.99	24	818.39	Aug. 9	816.17	Nov. 12	817.78
21	817.73	June 11	818.33	27	816.14	Dec. 10	817.40
Apr. 9	817.49	25	817.76				

6N/35-28N1. Lottie McKnight.

Water level, in feet above mean sea level, 1940

Jan. 10	798.97	Apr. 26	802.33	July 12	798.16	Sept.10	796.41
Feb. 9	795.90	May 10	804.26	26	796.54	Oct. 10	802.64
Mar. 12	796.75	24	805.59	Aug. 9	797.23	Nov. 12	803.52
21	797.74	June 11	803.69	27	796.33	Dec. 10	797.82
Apr. 9	798.81	25	800.99				

a Dry.
b Tape measurement by J. M. Spencer, watermaster, District 5.
c Pumping.

Umatilla County--Continued.

6N/35-30M1. S. E. Givens.

Water level, in feet above mean sea level, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	674.89	Apr. 26	667.48	July 12	662.08	Sept.10	659.48
Feb. 9	667.88	May 10	667.89	26	661.62	Oct. 10	659.02
Mar. 12	669.03	24	667.37	Aug. 9	660.59	Nov. 12	665.46
21	668.46	June 11	667.23	27	659.49	Dec. 10	664.57
Apr. 9	665.61	25	663.94				

6N/35-34C1. Alpha Reese.

Water level, in feet above mean sea level, 1940

Jan. 10	841.92	Apr. 27	838.83	July 12	a833.90	Sept.10	838.62
Feb. 9	836.35	May 10	847.11	26	a832.60	Oct. 10	841.40
Mar. 12	837.05	24	855.17	Aug. 9	a834.00	Nov. 12	834.58
21	835.76	June 11	848.05	27	a833.55	Dec. 10	833.37
Apr. 9	833.93	25	841.48				

6N/35-36C1. Redfern.

Water level, in feet above mean sea level, 1940

Jan. 11	908.35	Apr. 26	901.52	July 12	886.60	Sept.10	889.10
Feb. 10	910.36	May 11	902.86	27	887.55	Oct. 11	(b)
Mar. 13	909.40	25	896.02	Aug. 10	887.82	Nov. 13	890.64
21	907.78	June 12	890.98	29	889.92	Dec. 11	891.02
Apr. 10	904.97	26	889.07				

6N/35-36H1. Walter Hermann. Except as indicated by footnote, levels are from float-gage readings by owner.

Water level, in feet above mean sea level, 1940

Jan. 11	c908.45	Apr. 29	910.65	July 9	901.11	Oct. 11	c894.79
Feb. 10	c909.98	May 1	911.37	12	c900.82	12	894.47
17	912.06	6	911.41	15	900.6	15	893.46
19	911.87	9	911.01	18	900.17	19	892.43
27	906.23	11	911.52	27	c898.62	21	892.04
Mar. 7	909.57	11	c911.52	Aug. 8	899.00	28	891.07
13	c912.43	14	913.01	10	c898.60	31	890.73
15	912.48	18	913.90	19	897.57	Nov. 7	890.25
21	c912.22	20	913.59	26	897.40	13	c890.62
26	912.14	25	c912.11	27	c897.30	15	890.71
27	912.17	26	911.97	30	897.51	19	890.84
Apr. 2	911.01	June 12	c907.83	Sept.10	c898.40	Dec. 9	893.12
4	910.72	13	907.57	12	898.48	11	892.86
5	910.68	23	905.34	23	899.22	16	891.60
9	911.34	25	904.11	25	899.33	23	891.30
10	c911.38	26	c903.73	27	899.70	26	891.72
19	911.10	28	903.14	30	898.88	28	891.79
20	910.89	30	902.76	Oct. 5	897.28	31	891.63
26	c910.15	July 8	901.24				

Walla Walla County

6N/35-16B1. Claude Winn.

Water level, in feet above mean sea level, 1940

Jan. 11	728.07	Apr. 25	728.86	July 12	725.35	Sept.10	724.98
Feb. 10	728.51	May 11	726.40	26	725.09	Oct. 10	726.23
Mar. 12	729.46	25	726.63	Aug. 9	725.05	Nov. 12	726.77
21	728.57	June 11	726.07	27	725.19	Dec. 10	727.16
Apr. 9	727.28	26	725.60				

a Pumping.
b Dry.
c Tape measurement by J. M. Spencer, watermaster, District 5.

Benton County

Willamette Valley

596. W. E. Thomas. Water levels, in feet above 1929 sea-level datum, 1940: May 12, 256.90; Oct. 5, 252.00; Dec. 22, 254.54.

Clackamas County

Willamette Valley

100. Pietro Presutti. Water levels, in feet above 1929 sea-level datum, 1940: May 10, 105.12; Oct. 3, 105.67; Dec. 22, 146.50.

Lane County

Willamette Valley

636. Junction City. Water levels, in feet above 1929 sea-level datum, 1940: May 12, 317.21; Oct. 5, 313.06; Dec. 22, 317.51.

680. Leo Sidwell. Water levels, in feet above 1929 sea-level datum, 1940: May 12, 378.11; Oct. 5, 376.54; Dec. 22, 378.50.

Linn County

Willamette Valley

421. Henry Hoefer. Water levels, in feet above preliminary sea-level datum, 1940: May 11, 166.69; Oct. 4, 162.31; Dec. 22, 165.16.

463. Oregon Agricultural Experiment Station. Water levels, in feet above 1929 sea-level datum, 1940: May 11, above 197.17; Oct. 5, 194.86.

553. J. H. Swatzka. Not measured in 1940.

568. Ray Fisher. Well caved; measurements discontinued.

590. Keeney School District 51. Water levels, in feet above 1929 sea-level datum, 1940: May 11, 281.41; Oct. 5, 276.57; Dec. 22, 282.65.

Marion County

Willamette Valley

158. W. J. Gering. Water levels, in feet above 1929 sea-level datum, 1940: May 11, 111.87; Oct. 4, 106.92; Dec. 22, 109.38.

171. Johnson School. Water levels, in feet above 1929 sea-level datum, 1940: May 11, 169.09; Oct. 4, 155.81; Dec. 22, 170.71.

172. W. F. Kiel (formerly D. A. Kiel). Water levels, in feet above 1929 sea-level datum, 1940: May 10, 184.37; Oct. 3, 169.78; Dec. 22, 185.25.

245. Agricultural Research Corporation (S. H. Brown). Water levels, in feet above 1929 sea-level datum, 1940: May 20, 164.90; Oct. 4, 157.91; Dec. 22, 162.72.

297. Gideon E. Stolz. Water levels, in feet above 1929 sea-level datum, 1940: May 11, 111.88; Oct. 4, 105.25; Dec. 22, 108.26.

318. Fred Lucht. Water levels, in feet above 1929 sea-level datum, 1940: May 11, 257.42; Oct. 4, 249.66; Dec. 22, 259.92.

Yamhill County

Willamette Valley

196. George Fuller. No measurements made in 1940.

UTAH

By H. E. Thomas and W. K. Bach

Ground-water investigations in Utah in cooperation with the State engineer have been in progress since 1935. This cooperative work includes (1) determination of the fluctuations of water level in most of the ground-water areas in the State, based upon measurements which are tabulated and summarized in this report and in similar annual reports beginning in 1936; and (2) detailed investigations of specific ground-water areas to determine the source, movement, disposal, quantity, and quality of the ground water, and to show the relation of present development to the maximum economic development of those areas. During detailed investigations, the number of observation wells in a particular area and the frequency of measurements are commonly increased considerably, with the result that the corresponding section of the annual report is greatly expanded. During 1940 a comprehensive study of Cedar City and Parowan Valleys, Iron County, has been completed and a report has been submitted which will soon be released to the public. A similar investigation was begun in Tooele Valley, Tooele County, and will be carried on during 1941. Work in Escalante Valley, in Beaver, Iron, and Washington Counties, is also being continued.

At the end of 1940 a total of 750 observation wells were included in the State-wide program. In addition, during 1940, measurements were made also in 358 other wells, chiefly in Iron and Utah Counties. At the end of the year there were 22 observation wells that had been equipped with automatic recorders for periods of a year or more, of which 12 were float recorders and 10 were pressure recorders. Moreover, for a part of 1940 automatic recorders were in operation on 15 other wells, of which 14 were float recorders and 1 was a pressure recorder.

The work of the Geological Survey constitutes only a part of the ground-water work done in Utah since 1935. In that year the State Legislature enacted a statute relating specifically to ground water,[1/] based upon the principle, well established in most western States, that water rights are

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1/ For a complete compilation of the statutes relating to water in Utah, see Humpherys, T. H., Laws of the State of Utah relating to water and water rights: compilation of statutes including those enacted by the 1939 Legislature, 1939.

acquired only by appropriation ("the appropriation must be for some useful and beneficial purpose, and as between appropriators, the first in time shall be first in rights"). Briefly, this legislation provides for the protection of existing rights to the use of ground water, and establishes a means for the orderly appropriation of that part of the ground-water supply not already appropriated. By this legislation the State engineer was given "general administrative supervision of the waters of the State (including ground water) and of the measurement, appropriation, apportionment, and distribution thereof". In order to undertake this supervision, it was necessary that the State engineer collect a vast amount of data concerning the diversions of ground water already made over the State. Accordingly he immediately began a program, undertaken largely in cooperation with the Works Projects Administration, the scope and progress of which are described in the several biennial reports of the State Engineer.[2/] The program involved location of every well, drain, or tunnel in the State with reference to a United States Government survey corner; determination of the elevation of each well in the more highly-developed areas with reference to sea-level datum; collection from well owners of information regarding details of construction and use of wells; field surveys to determine the quantity of water diverted from wells and to classify the quantity according to use; and an elaborate system of files to make this information readily accessible. The program, now essentially complete, has provided a great amount of information concerning individual wells, and has formed the basis for valuable summaries showing conditions in the State.

During the field surveys, the representatives of the State engineer have made at least one measurement of static level in the great majority of the wells in the State. Also, the supervision of the appropriation and distribution of ground water has frequently required that special tests be made to determine the extent of interference, which tests require many measurements of static level in wells. Still other measurements of static level have been made by the staff of the State engineer at the request of the Geological Survey as part of the observation-well program. The following tabulation of well measurements includes measurements by the State engineer in observation wells of the Geological Survey, but measurements in a far greater number of other wells in the State are not included.

2/ Humpherys, T. H., 22d biennial report of the State engineer to the Governor of Utah, for the biennium July 1, 1938, to June 30, 1940, pp. 26-45, 122-127, 1940; also the 21st and 20th biennial reports.

In addition to measurements by the Geological Survey and the State engineer, measurements of water level in selected wells have been made by the following agencies in the counties specified: Salt Lake City Corporation in Salt Lake County; Board of (Utah Lake) Canal Presidents in Utah County; and the Provo River Water Commissioner in Summit and Wasatch Counties. Only measurements made by these agencies in observation wells of the Geological Survey are listed in this report. The following table shows, by counties, the total number of observation wells, the number of observation wells that have been discontinued, the number of automatic recorders, and the number of periodic measurements recorded in this report.

Distribution, by counties, of observation wells in Utah

County	Number of observation wells		Number of periodic measurements	Wells with recording gages		
	At end of 1940	Discontinued during year		Throughout 1940		Part of year
				Float	Pressure	
Beaver	106	2	369	1	...	1
Box Elder	45	1	137	...	...	2
Cache	25	2	171	...	...	1
Davis	28	2	228	...	2	...
Duchesne	28	1	29	...	...	...
Garfield	10	...	29	...	...	...
Iron:						
Cedar City Valley	33	147	604	1	...	3
Escalante Valley	105	6	158	...	...	...
Parowan Valley	22	118	474	...	1	2
Juab	18	1	51	...	...	...
Millard	46	...	118	1		2
Morgan	15	...	73	...	...	...
Piute	6	...	12	...	...	...
Rich	22	...	158	...	...	...
Salt Lake	42	1	502	2	2	...
Sanpete	33	9	223	1	1	...
Sevier	16	3	70	...	1	...
Summit	15	4	132	...	...	1
Tooele	29	2	297	1	...	1
Uintah	11	...	11	...	...	...
Utah	41	55	606	...	3	1
Wasatch	8	...	66	2	...	1
Washington	3	1	7	...	...	...
Wayne	3	1	6	...	...	...
Weber:						
Ogden Valley	14	...	13	2	...	...
East Shore area	26	2	149	1	...	...
Total	750	358	4,693	12	10	15

Consumptive use of ground water

The State engineer has computed the quantities of ground water derived from the principal ground-water areas in the State. He has classified this quantity according to use, based upon "diversion and use surveys" during 1938 and 1939, as described in his twenty-second biennial report.[3] The 1939 survey included 19 of the 29 counties in the State. In nine of the remaining counties (Carbon, Daggett, Emery, Garfield, Grand, Kane, San Juan, Washington, and Wayne) the wells claimed according to the provisions of the ground-water laws number less than 125, and there has been very little ground-water development. In Sanpete County, where "diversion and use surveys" were discontinued by the State engineer because of lack of cooperation of well owners, nearly 1,800 wells are recorded, a total exceeded in only five counties and amounting to 6 or 8 percent of the wells in the State. It is considered likely that the discharge from wells in Sanpete County may amount to 5 to 10 percent of the total discharge computed by the State engineer for the rest of the State. These computations show that in the 19 counties that include all the other principal ground-water areas, total discharge from wells in the year beginning November 1, 1938, was about 201,500 acre-feet (equivalent to an average throughout the year of about 180,000,000 gallons a day. It is inferred therefore that total diversions from all wells in Utah were of the order of 210,000 to 220,000 acre-feet. The following table summarizes the findings of the State engineer's surveys, by counties, and is derived from tables in his twenty-second biennial report.[4]

Number and kinds of wells, uses of water from wells, in principal ground-water areas in Utah, based on surveys conducted by the State engineer during the period November 1938 to October 1939, inclusive. a/

County	Number and kinds of wells				Total discharge from all wells (second-feet)	Acre-feet consumed			
	Flowing	Pump	Not Used	Total		Irrigation	Miscellaneous	Waste	Total
Beaver	24	133	156	313	58	12,700	200	100	13,000
Box Elder	253	1,376	296	1,925	58	4,300	200	1,000	5,500
Cache	863	127	220	1,210	60	8,400	2,800	6,200	17,400
Davis	1,286	339	604	2,229	66	8,800	1,700	4,500	15,000
Duchesne	96	70	23	189	2	80	100	90	270
Iron	222	311	571	1,104	122	21,400	200	1,500	23,100
Juab	75	47	42	164	5	1,000	50	80	1,130
Millard	690	689	272	1,651	50	11,300	400	3,600	15,300
Morgan	2	45	11	58	1	10	70	100	180
Piute	88	7	8	103	5	800	--	500	1,300
Rich	0	40	8	48	1	--	--	--	--

3/ Humpherys, T. H., op. cit., pp. 33-39.

4/ Idem, tables 3 and 4, pp. 35, 37.

a/ Shallow wells excluded except in Box Elder, Davis, Salt Lake, and Utah Counties.

Number and kinds of wells, uses of water from wells, in principal ground-water areas in Utah, based on surveys conducted by the State engineer during the period November 1938 to October 1939, inclusive. a/

County	Number and kinds of wells				Total discharge from all wells (second-feet)	Acre-feet consumed			
	Flowing	Pump	Not Used	Total		Irrigation	Miscellaneous	Waste	Total
Salt Lake	4,012	978	1,667	6,647	105	6,700	18,800	4,000	29,500
Sevier	476	90	147	713	22	6,700	200	1,500	8,400
Summit	0	68	37	105	1	--	70	--	70
Tooele	693	180	274	1,147	29	5,500	700	1,300	7,500
Uintah	11	55	10	76	1	10	10	30	50
Utah	2,691	526	716	3,933	224	33,700	1,600	7,600	42,900
Wasatch	0	71	12	83	1	--	--	--	--
Weber	1,316	476	388	2,180	55	6,100	11,500	3,300	20,900
Totals	12,798	5,628	5,452	23,878	866	127,500	38,600	35,400	201,500

a/ Shallow wells excluded except in Box Elder, Davis, Salt Lake, and Utah Counties.

Summary of water-level fluctuations

Practically all the ground-water areas in Utah have one characteristic in common, a feature which contrasts strongly with ground-water areas in many other parts of the United States: They generally are of small area, and the distance between the recharge area and the principal areas of ground-water development or of natural discharge is ordinarily only a few miles. In such small systems the effect of recharge, which is ordinarily seasonal in character and greatest during the spring runoff from melting snow, is likely to be felt throughout a large part of the ground-water area within a few weeks or months. Seasonal fluctuations of water level in many ground-water areas are largely an effect of this seasonal recharge. Fluctuations of water level in wells in Cache Valley illustrate very well this type of fluctuation in one of the more highly developed areas. In some of the most intensively developed areas, on the other hand, the discharge from wells during the irrigation season causes fluctuations that completely mask any possible effect of seasonal recharge. Wells in the Pavant Valley, in Millard County, and in the north Utah Lake basin, in Utah County, afford

the best illustrations of this sort of fluctuation, in which water levels are highest during the winter and early spring, and lowest during the summer. Seasonal fluctuations in most ground-water areas are generally intermediate between these two types, and show to varying extent the effects both of seasonal recharge and of seasonal discharge.

Annual changes of water level, based upon measurements in wells at a corresponding time each year, might be expected to correlate more or less closely with precipitation and runoff during the same year, provided the natural regimen had not been profoundly disturbed by excessive ground-water development. During each of the past 4 years an attempt has been made to indicate the annual trend of water levels in most ground-water areas in Utah by computing the net annual change of water level in each well for which data are available and then computing the algebraic average change for the several observation wells in each area. The published figures were not by any means intended to represent the average change of water level throughout the ground-water area, and were put forth merely as tentative estimates of the general trend in the respective areas, pending detailed investigations in those areas.

In Cedar City Valley, after close study of the records from nearly a third of the wells in the area, 32 key wells were selected which are believed to be representative of the several ground-water subdivisions and of the valley as a whole. Comparison of the annual fluctuations in a large number of wells brought out certain features which appear to be applicable in other areas in the State. Thus, in any year the trend was generally the same in the great majority of wells, but the amount of change was likely to

be greater, whether up or down, in wells in the intensively developed district or in wells adjacent to heavily pumped wells than in wells in remote areas. It is suggested that in other areas similarly, changes over long periods will be comparable from year to year only if the same wells are used. Also, between the different ground-water areas in any particular year, the net changes shown are only rough bases for comparison, because the observation wells for one of the areas may be concentrated more within the intensively developed part of the area. Accordingly, the yearly changes for earlier years have been recalculated using, wherever possible, the same wells that are included in the averages for 1940. The following table shows the number of observation wells used in the computations. During earlier years, when records from all these wells are not available, the averages computed from a smaller number of wells are shown in parentheses. Averages are not shown for years when records are available from fewer than half the number of wells used in 1940.

Summary of net change in water level, in feet, in observation wells in Utah, 1936-40

Ground-water area	No. of observation wells[a]	Average net change, in feet, in group of observation wells						1940 Departure from normal rainfall (in.)[b]
		1936	1937	1938	1939	1940	Five years	
SOUTHWESTERN BOLSON PROVINCE								
Iron County:								
Cedar City Valley	32	-1.2	+1.6	+1.8	- .9	-1.8	- .5	-3.8
Parowan Valley	16	(- .2)	(+2.8)	(+1.7)	+ .2	...	...	-1.4
Escalante Valley	24	(- .1)	(+ .1)	0	- .1	- .3	- .4	-1.5
Beaver County:								
Escalante Valley	17	(+ .1)	+2.0	+2.1	- .3	-1.1	+2.8	-3.5
Beaver Valley	4	(+2.8)	- .4	- .6	-1.1	+1.0	+1.7	- .3
Millard County:								
Pavant Valley	13	(+1.0)	(+1.4)	+2.8	-4.5	+3.4	+4.1	+2.1
Sevier Desert	12	(+ .1)	(+ .1)	0	+ .1	0	+ .3	- .9
Millard and Juab Counties:								
Snake Valley	15	....	(- .4)	(+ .3)	- .6	- .5	...	-1.5
Juab County:								
Chicken Creek Valley	3	(+ .4)	(+ .6)	(+ .5)	-1.0	+ .7	+1.2	- .2
Juab Valley	6	(+4.5)	+2.9	+1.6	-2.0	+3.8	+10.8	- .4

a/ Averages based on smaller number of wells are shown in parentheses.
b/ At nearest rainfall station of the U. S. Weather Bureau.

Summary of net change in water level, in feet, in observation wells in Utah, 1936-40--Continued

Ground-water area	No. of observation wells[a]	Average net change, in feet, in group of observation wells						1940 Departure from normal rainfall (in.)[b]
		1936	1937	1938	1939	1940	Five years	
SOUTHWESTERN BOLSON PROVINCE--CONTINUED								
Utah County:								
Utah Lake Valley	25	(+4.3)	(+2.8)	+ .4	-2.1	-1.4	+4.0	- .3
South Utah basin[c]	9	(+2.2)	(+1.4)	+ .5	- .9	- .2	+3.0	+ .4
North Utah basin[c]	15	(+5.5)	(+3.7)	+ .4	-2.9	-2.2	+4.5	-3.2
Goshen Valley	3	....	(+ .8)	(+ .3)	- .1	- .6	...	-1.3
Cedar Valley	2	....	+1.8	+ .3	0	- .2	...	...
Tooele County:								
Rush Valley	5	(+ .2)	+ .4	+ .4	+ .2	+ .7	+1.9	- .3
Tooele Valley	15	(- .6)	(0)	+ .1	- .4	+ .4	- .5	+ .9
Grantsville basin[c]	7	(+ .2)	(- .3)	+ .4	- .2	+ .1	+ .2	...
Erda basin[c]	6	(- .9)	(- .2)	- .5	- .4	+ .9	-1.1	...
Salt Lake County:								
Jordan Valley	35	+2.2	+1.8	+ .8	- .9	-1.2	+2.7	+2.4
Davis County:								
East Shore area	20	(+4.4)	(+ .2)	- .7	-2.4	-1.1	+ .4	+1.6
South Davis basin[c]	10	(+7.2)	(+ .1)	- .9	-4.0	-1.0	+1.4	...
North Davis basin[c]	10	(+2.1)	(+ .3)	- .4	- .8	-1.2	0	+1.6
Weber County:								
East Shore area	19	(+1.6)	(+ .8)	+ .4	0	- .3	+2.4	+4.8
Box Elder County:								
East Shore area	8	(+3.6)	+2.8	- .8	- .4	+ .4	+5.6	+1.4
Lower Bear River Valley	7	....	+2.2	0	- .3	0	...	+3.9
West Box Elder area	14	....	...	...	-1.2	-1.0	...	+3.2
Cache County:								
Cache Valley	14	(+3.8)	+ .3	+ .2	-2.6	-1.5	+ .2	+ .5
MONTANA-ARIZONA PLATEAU PROVINCE								
Washington County:								
Virgin River Valley	2	....	+1.1	0	- .2	+ .1	...	+5.5
Garfield and Piute Counties:								
Upper Sevier Valley	10	....	...	- .2	- .8	-1.3	...	+1.9
Piute and Sevier Counties:								
Grass Valley	6	....	(0)	+ .1	- .6	- .3	...	...

[a] Averages based on smaller number of wells are shown in parentheses.
[b] At nearest rainfall station of the U.S. Weather Bureau.
[c] These units have been defined and tentatively outlined by the State engineer, pending further detailed study of the respective ground-water areas. See Humpherys, T. H., 22d Biennial Report, pp. 122-127, 1940.

Summary of net change in water level, in feet, in observation wells in Utah, 1936-40--Continued

Ground-water area	No. of observation wells[a]	Average net change, in feet, in group of observation wells						1940 Departure from normal rainfall (in.)[b]
		1936	1937	1938	1939	1940	Five years	
MONTANA-ARIZONA PLATEAU PROVINCE--CONTINUED								
Wayne County:								
Fremont Valley	3	....	+1.1	+2.2	-1.0	-1.0	....	-.2
Sevier and Sanpete Counties:								
Central Sevier Valley	15	(+1.2)	(+2.0)	+1.0	-.7	-.1	+3.4	+1.4
Sanpete County:								
Sanpete Valley	20	(+5.2)	(+.7)	-.1	-2.1	+1.6	+5.3	+1.3
Duchesne and Uintah Counties:								
Uinta Basin	17	....	+.3	+1.2	-2.2	-.8	...	+2.0
Uintah County:								
Ashley Valley	3	....	...	0	-1.7	+1.8	...	0
NORTHERN ROCKY MOUNTAIN PROVINCE								
Wasatch County:								
Heber Valley	5	(+2.6)	0	-.1	-.8	-1.6	+.1	-3.7
Summit County:								
Rhodes Valley	10	....	...	...	-1.1	-.4	...	...
Morgan County:								
Morgan Valley	10	....	-.2	-.2	-.9	+.1	...	-4.4
Weber County:								
Ogden Valley	12	+1.8	+.5	+.2	-.8	-.5	+1.4	...
Box Elder County:								
Mantua Valley	2	...	...	+.6	-.9	-1.2	...	...
Rich County:								
Bear Lake Valley	13	....	(+1.9)	-.9	+.2	-1.4	...	+.3
Upper Bear River Valley	7	....	(-.5)	+.6	-2.2	-1.3	...	-3.6

Utah lies within three ground-water provinces as outlined by Meinzer[5]--the Southwestern Bolson, the Montana-Arizona Plateau, and the Northern Rocky Mountain provinces-- which are approximately coextensive with the Utah portions of the Basin and Range, Colorado Plateaus, and Middle Rocky Mountain

a/ Averages based on smaller number of wells are shown in parentheses.
b/ At nearest rainfall station of the U. S. Weather Bureau.
5/ Meinzer, O. E., The occurrence of ground water in the United States: U. S. Geol. Survey Water-Supply Paper 489, pp. 309-314, 1923.

physiographic provinces as outlined by Fenneman.[6/] In the table, the ground-water areas are grouped according to ground-water provinces, and are listed approximately in order from south to north within the provinces. The grouping is tentative, and may be modified somewhat upon further study of the ground-water areas that lie close to the borders of the several provinces.

The ground-water areas of the Southwestern Bolson province have certain characteristics in common. Practically all of them occupy intermontane valleys that are bordered more or less completely by extensive upland masses so that they are generally not contiguous. Most of them contain ground-water reservoirs that are replenished largely by streams issuing from adjacent highlands. These streams ordinarily do not continue beyond the lower limit of the area, and may disappear by seepage and, in recent years, by man-made diversions within a very short distance after leaving these highlands. Natural discharge from the ground-water reservoirs is largely by evaporation, transpiration, and underflow; also, several of the valleys that are drained by streams contribute to those streams by ground-water seepage. Ground-water development is largely from wells located on the alluvial fans built by tributary streams.

On the other hand, most of the ground-water areas in the Plateau and Rocky Mountain provinces, particularly those near the western border of those provinces, are rather small intermontane valleys traversed by perennial mountain streams. Storage of ground water in these areas is on a much more temporary basis than in the areas of the Basin and Range province farther west, for it increases during the high stages of the streams in the spring, and decreases later in the year because of effluent seepage during low stages of the streams. Water-bearing strata in these areas might therefore be regarded primarily as conduits rather than reservoirs, through which water moves more slowly than in the stream channel. Ground-water development in these areas is generally unimportant because of the relatively plentiful supplies of surface water available, and a large proportion of the wells are for domestic and stock use.

During 1940 water levels declined in most of the ground-water areas in Utah, continuing a trend that was begun in 1939, after a rather general rise during the first three years of the cooperative investigation. Of 37 ground-water areas listed, the data from observation wells indicate that water levels declined in 24, rose in 11, and were practically unchanged in

2. For the most part, the computed average changes were fairly small;

6/ Fenneman, N.M., Physical divisons of the United States: U.S. Geol. Survey map, 1:7,000,000, 1930.

they exceeded 1 foot in only 15 of the 37 areas. Increases were most marked in Juab Valley, Juab County, and in Pavant Valley, Millard County, where net changes were, respectively, 3.8 and 3.4 feet. The greatest net decline, 1.8 feet, occurred in Cedar City Valley, Iron County, but water levels declined almost as much in Heber Valley, Utah Lake Valley, and Cache Valley.

In many areas the trend of ground-water levels has followed the trend of precipitation at the nearest rainfall station during 1940, as shown by the departures from normal precipitation at these stations. Thus lower water levels in most areas in Iron and Beaver Counties are correlated with subnormal precipitation at all stations in those counties, and the rise in Pavant Valley has evidently resulted from greater than normal precipitation as recorded at Fillmore. In other areas, notably in Salt Lake, Davis, Weber, Box Elder, and Cache Counties, water levels have declined during the year although rainfall at most stations from Salt Lake City north was greater than normal. The probable explanation is that the months from May to August, inclusive, were exceedingly dry, with precipitation throughout the State about one-third of normal, so that abnormal ground-water withdrawals were required during the principal growing season. Large excesses in precipitation were recorded during the last 4 months of 1940, but the effects of these storms had not reached the ground-water reservoir by the end of the year and thus had not offset the effect of the midsummer drought

In the 5 years since the current investigation was begun the trend of water levels has been upward in practically all the important ground-water areas in Utah. The ground-water levels in the State during 1935 were probably lower than at any other time on record, because of a succession of years of deficient precipitation with resulting subnormal recharge and increased withdrawals from wells. In three exceptional areas the ground-water levels at the end of 1940 were lower than at the end of 1935: In Cedar City Valley the net decline was 0.5 foot; in the portion of Escalante Valley within Iron County, 0.4 foot; and in Tooele Valley, chiefly because of a considerable decline in the eastern part ("Erda basin"), the decline was 0.5 foot. During the 5-year period the average annual precipitation in Utah, according to Weather Bureau data, was 1.8 inches above the 49-year average for the State, and the exceptional decline in these three areas indicates that ground-water conditions are critical and should be watched

closely. The State engineer has recognized the critical nature of conditions in these and other areas and has pointed out the need for court adjudication of water rights in each area.[7/] It should be pointed out that the 5-year decline of water levels in at least two of the areas may be partly due to natural conditions, for although the precipitation throughout the State has generally been above normal in those years, the average annual rainfall in 1936-40 at Tooele (in Tooele Valley) was 0.96 inch below the 35-year average established between 1898 and 1932, and the 5-year mean at Cedar City (in Cedar City Valley) was 1.43 inches below the 35-year average there.

During the 5-year period water levels rose an average of more than 5 feet in observation wells of three ground-water areas. In Jurb Valley, Juab County, the average rise was 10.8 feet, in the East Shore area of Box Elder County, 5.6 feet, and in Sanpete Valley, Sanpete County, 5.3 feet. The precipitation at stations in each of these areas (at Nephi, Brigham, and Manti) was above normal during the 5 years, and the rises are inferred to have resulted largely from greater than normal recharge. In Sanpete Valley the natural recharge was probably augmented by water that was diverted from headwaters of the San Rafael River through tunnels constructed by the United States Bureau of Reclamation and into the canyons that enter Sanpete Valley at the towns of Ephraim and Spring City. These tunnels were completed in 1937 and 1939 respectively. During the past 5 years the net rise of water levels in wells on the Ephraim Creek fan has been considerably greater than the average rise in other observation wells in the valley. Furthermore, the trend of water levels in most wells on this fan was upward in 1937 and in 1938 (after the diversions through the Ephraim tunnel were begun), whereas the trend was downward in most wells elsewhere in Sanpete Valley in those years.

In the two most populous valleys in the State, which are also the two areas of most intensive ground-water development, the trend of water levels during the past 5 years has been markedly upward, even though the precipitation in those years has been somewhat below normal. In Jordan Valley the average rise of water levels in the 5 years amounted to 2.7 feet, although the precipitation at Salt Lake City was about 97 percent of normal. And in Utah Lake Valley the net rise in water levels was 4.0 feet, while precipi-

7/ Humpherys, T. H., Op. cit. (22d biennial rept.), p. 40.

tation at three stations in the valley ranged from 80 to 92 percent of normal. The wells in these two valleys constitute approximately 40 percent of the total number of wells in the State, and the discharge from them comprises about one-third of the total ground-water diversion. The marked rise of water level in these areas during the past 5 years is believed to be due in large part, if not entirely, to the State engineer's program of conservation, which has greatly reduced wastage of water from flowing wells.

Table of well measurements

In the following tabulation observation wells are listed alphabetically by counties, and numerically within each county. The well number indicates the location of the well with reference to land subdivision, according to a system adopted by the State engineer, and described in his 20th Biennial Report, p. 87, 1936. Briefly, the State is divided into four quadrants by the Salt Lake base and meridian, and, according to the well-numbering system, these quadrants are designated by capital letters, thus: A for the northeast quadrant, representing townships north, ranges east; B for the northwest quadrant; C, southwest; and D, southeast. In the well number, the designation of the township is enclosed in parentheses, and includes one of these letters, a figure showing township, and a figure showing range. Thus, in the number of the first well of the tabulation, (C-26-10) 32cad1, the portion within parentheses indicates that the well is in T. 26 S., R. 10 W. The number following the parentheses designates the section, and the lower-case letters following the section number give the location of the well within the section, the first letter indicating the quarter section (the letters a, b, c, d, representing respectively the northeast, northwest, southwest, and southeast quarters, as before), and succeeding letters showing location within the quarter-section down to a 10-acre tract. Thus, number (C-26-10)32cad1 represents well number 1 in the SE¼NE¼SW¼ sec. 32, T. 26 S., R. 10 W. In the area surveyed from the Uinta special base and meridian (in Duchesne and Uintah Counties) the well numbers are derived in the same fashion, and are preceded by the letter "U".

The State claim numbers or application numbers are the numbers under which these wells are recorded by the State engineer, the claim numbers being reserved for those wells which were used prior to the passage of the ground-water law in March 1935. All altitudes given were determined by instrumental leveling by the State engineer. Descriptive data are given

only for those wells which have not appeared in prior publications, unless there are corrections or additions. Measurements were made by the Geological Survey, except as noted.

Artesian wells that were flowing when visited were closed for 10 minutes prior to measurement of the shut-in pressure. Many measurements based on this procedure, which would better be termed "10-minute recovery levels" rather than true static levels, have been published in the past few years, footnoted, of course, to indicate that the wells had been flowing recently. The detailed investigation in Parowan Valley has indicated that these 10-minute recovery levels generally do not correspond to true static levels and that there is no apparent relationship by which the position of the static level might be computed from them. Accordingly, very few of the measurements of 10-minute recovery level are published herein for wells in Parowan Valley, although hundreds of such measurements have been made there by the Geological Survey and by the State engineer during past years. For other ground-water areas in the State, in which numerous measurements of 10-minute recovery level were made during 1940, such measurements are included pending further study to learn whether such measurements generally have greater value than they appear to have in Parowan Valley.

Beaver County

(C-26-10)32cadl. State claim 10257. Burton Smithson. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 17, 16.45; Dec. 9, 17.49.

(C-26-10)32cdal. State claim 10259. Burton Smithson. Record begins in 1936. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: April 17, 3.28; Dec. 9, 2.72.

(C-27-10)21ab. John Armstrong & Sons. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 17, 54.93; Dec. 9, 55.32.

(C-27-10)29dbcl. State claim 13113. K. L. McGarry, Milford. Diameter 4 inches, depth 241 feet. Measuring point, top of 3-inch bushing, 1.2 feet above land surface. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: April 17, 6.5.

(C-28-7)21addl. State claim 8118. E. F. Baldwin.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 9	42.71	Apr. 29	39.83	Dec. 10	37.96
Apr. 8	42.61	Sept. 9	38.92		

(C-28-7)21daal. E. F. Baldwin. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	25.79	Apr. 29	23.92	Aug. 7	20.53	Dec. 10	22.53
Apr. 8	25.75	June 6	16.44	Sept. 9	23.35		

(C-28-10)6abb2. State application 11917. Oversewing Machine Co. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 17, 72.70; Dec. 9, 72.73.

(C-28-10)6ddcl. State claim 13114. Beaver County School District, Milford. Diameter 8 inches, depth 267 feet. Measuring point, top of iron at west side of opening, at land surface. Water level, in feet below measuring point, 1940: Apr. 17, 62.58.

(C-28-10)7abbl. State claim 6763. American Telephone & Telegraph Co., Milford. Diameter 6 inches, depth 153 feet. Measuring point, top of casing, 7.7 feet below land surface and 5010.45 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 17, 57.60.

(C-28-10)8abcl. State claim 13111. K. L. McGarry, Milford. Diameter 2 inches, depth 200 feet. Measuring point, top of casing, 0.8 foot above land surface and 4953.33 feet above sea level. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Apr. 17, 1.44.

(C-28-10)8cacl. State claim 14585. R. D. Clarke, Milford. Diameter 14 inches, depth 67 feet. Measuring point, top of casing, 2 feet above land surface and 4954.84 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 15, 0.43.

(C-28-10)8cdd. Milford. Diameter 6 inches. Measuring point, top of casing, 0.5 foot above land surface. Water level, in feet below measuring point, 1940: Apr. 15, 2.91.

Beaver County--Continued.

(C-28-10)8dbdl. State claim 14586. R. D. Clarke, Milford. Diameter 2 inches, depth 274 feet. Measuring point, top of 4" casing, 2.0 feet above land surface and 4960.41 feet above sea level. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Apr. 15, 0.6.

(C-28-10)8dccl. J. R. Murdock and James Thompson, Milford. Diameter 2 inches. Measuring point, top of casing, 0.8 foot above land surface and 4958.86 feet above sea level. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Apr. 15, 6.3.

(C-28-10)17cccl. State claim 11870 and 17173. R. L. Bradshaw, Milford. Diameter 14 inches, depth 92 feet. Measuring point, top of tie curbing west side, 0.8 foot above land surface. Water level, in feet below measuring point, 1940: Apr. 15, 6.44.

(C-28-10)17cdcl. State claim 1087. Ambrose Bradshaw, Milford. Diameter 14 inches, depth 60 feet. Measuring point, nail in west side of pump house, 1.0 foot above land surface and 4972.58 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 15, 7.36.

(C-28-10)18acal. State claim 1089. G. C. Goodwin. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	2.33	Apr. 15	1.45	July 6	3.90	Oct. 5	3.77
Feb. 3	2.00	May 4	1.62	Aug. 3	3.70	Nov. 2	3.20
Mar. 2	1.67	June 1	2.84	Sept.7	3.75	Dec. 7	2.20
Apr. 6	1.5						

(C-28-10)18acdl. State claim 1090. G. C. Goodwin, Milford. Diameter 14 inches, depth 75 feet. Measuring point, chisel mark on intake pipe, 3.5 feet below land surface and 4961.91 feet above sea level. Water level, below measuring point, 1940: Apr. 15, 2.02.

(C-28-10)19abcl. State claim 3358. Observations discontinued.

(C-28-10)19addl. State claim 6564. Peter Weidner. Record begins in 1936.

Water level,in feet with reference to measuring point, 1940

Jan. 6	+2.75	Apr. 6	a -9.25	July 6	a -17.35	Oct. 5	a -16.35
Feb. 3	+3.18	May 4	a -9.93	Aug. 3	a -20.30	Nov. 2	- 1.10
Mar. 2	+3.75	June 1	a -17.29	Sept. 7	- 3.00	Dec. 7	+ 1.65

(C-28-10)19bbcl. State claim 6352. C. T. Martin, Milford. Diameter 14 inches, depth 71 feet. Measuring point, top of tie cover over well, at land surface and 4970.46 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 16, 5.64.

(C-28-10)19ccdl. State claim 3993. C. L. Myers, Milford. Diameter 14 inches, depth 76 feet. Measuring point, top of tie curb, 0.8 foot above land surface and 4977.80 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 16, 6.59.

(C-28-10)19dddl. State claim 2041. Chester Haskell, Milford. Diameter 16 inches, depth 109 feet. Measuring point, edge of tie curb, south side, 1.5 feet below land surface and 4979.86 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 4.17.

(C-28-10)20bddl. State claim 2043. Chester Haskell, Milford. Diameter 16 inches, depth 85 feet. Measuring point, top of pit curbing at northwest corner, 1.0 foot below land surface. Water level, in feet below measuring point, 1940: April 15, a/23.92.

a Pumping

Beaver County--Continued.

(C-28-10)20ccd1. (C-28-10)20cc in Water Supply Paper 817. State claim 2044. Chester Haskell. Record begins in 1932. Depth 84 feet. Measuring point, top of 4 by 4-inch sill, east side of curb, 2.0 feet below land surface and 4982.11 feet above sea level. Water level, in feet below measuring point, 1940: April 15, 5.68.

(C-28-10)20ddc1. State claim 10287. Duluth Land Company, Milford. Diameter 14 inches, depth 64 feet. Measuring point, top of 2 by 4-inch cross piece, south side of opening, 0.4 foot above land surface and 4996.18 feet above sea level. Water level, in feet below measuring point, 1940: April 15, 13.54.

(C-28-10)29bcc1. State claim 13803. State Land Board, Milford. Diameter 14 inches, depth 70 feet. Measuring point, top of casing in pit, 3.0 feet below land surface and 4987.32 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 4.51.

(C-28-10)29bdd2. State claim 2531. H. D. Tanner, Milford. Diameter 10 inches, depth 47 feet. Measuring point, top of 4 by 6-inch cross beam under board cover, 0.2 foot below land surface and 4994.11 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 11.43.

(C-28-10)29coc1. State claim 7801. J. H. Weston, Milford. Diameter 14 inches, depth 74 feet. Measuring point, nail in south side of pit, 2.0 feet below land surface. Water level, in feet below measuring point, 1940: April 16, 7.24.

(C-28-10)29cdc1. State application 11742. J. H. Hanlon. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	7.85	Apr. 15	10.33	July 6	14.10	Oct. 5	12.30
Feb. 3	7.69	May 4	12.08	Aug. 3	15.05	Nov. 2	11.32
Mar. 2	7.58	June 1	12.68	Sept. 7	12.85	Dec. 7	10.55
Apr. 6	7.44						

(C-28-10)30acd1. State of Utah. Record begins in 1935.

Water level at noon, in feet below measuring point, January and February 1940 (from recorder charts)

Jan. 1	7.00	Jan. 16	6.78	Jan. 31	6.48	Feb. 15	6.32
2	6.95	17	6.72	Feb. 1	6.44	16	6.40
3	6.94	18	6.71	2	6.45	17	6.31
4	6.86	19	6.70	3	6.45	18	6.29
5	6.84	20	6.68	4	6.43	19	6.33
6	6.86	21	6.63	5	6.46	20	6.28
7	6.85	22	6.60	6	6.38	21	6.23
8	6.83	23	6.61	7	6.36	22	6.19
9	6.80	24	6.60	8	6.40	23	6.22
10	6.78	25	6.58	9	6.39	24	6.22
11	6.76	26	6.56	10	6.34	25	6.14
12	6.85	27	6.62	11	6.32	26	6.15
13	6.96	28	6.58	12	6.38	27	6.14
14	6.90	29	6.54	13	6.34	28	6.10
15	6.85	30	6.51	14	6.26	29	6.05

Beaver County--Continued.

(C-28-10)30acd1. State of Utah.--Continued.

Daily high and low water levels, in feet below measuring point, March-August 1940 (from recorder charts)

Day	March High	March Low	April High	April Low	May High	May Low	June High	June Low	July High	July Low	August High	August Low
1	a 6.15	....	6.79	7.02	9.53	10.36	10.73	10.99	9.73	10.40	10.62	10.84
2	6.06	6.80	6.74	7.53	9.14	9.74	a11.01	.....	10.40	10.90	10.37	10.71
3	6.31	6.53	6.99	7.57	8.49	9.22	11.05	11.34	10.50	10.94	10.33	10.61
4	6.30	6.66	6.96	7.76	8.39	9.28	a11.21	.....	10.03	10.60	10.46	10.91
5	a 6.27	....	7.07	8.45	9.28	9.55	a11.24	.....	10.49	10.65	10.67	11.05
6	a 6.25	....	8.14	8.84	a 9.64	....	a11.28	.....	10.16	11.02	10.76	11.17
7	a 6.18	....	a 8.95	....	8.82	9.47	a11.30	.....	11.08	11.31	10.75	11.05
8	6.15	7.18	9.00	9.26	8.07	8.82	10.70	11.40	10.89	11.30	10.59	10.75
9	6.67	7.64	a 9.33	....	a 7.96	....	11.15	11.35	11.04	11.58	a10.56	.....
10	7.09	7.98	9.20	9.42	7.61	8.06	10.45	11.40	a10.50	.....	a10.52	.....
11	6.77	7.20	a 9.48	....	7.63	8.60	9.85	10.45	10.53	11.20	a10.52	.....
12	a 6.67	....	a 9.55	....	7.94	8.79	9.42	9.85	10.38	11.09	a10.52	.....
13	a 6.52	....	8.34	9.59	8.78	9.83	9.37	9.72	10.80	11.32	a10.51	.....
14	a 6.38	....	8.90	9.18	8.85	9.86	9.72	10.10	10.61	11.08	10.53	10.94
15	a 6.28	....	8.48	9.30	8.37	8.85	10.10	10.42	11.08	11.28	10.83	11.25
16	a 6.24	....	8.00	8.93	8.32	9.54	a10.51	.....	10.16	11.15	10.96	11.20
17	a 6.26	....	8.75	9.33	8.53	9.88	10.23	10.64	10.09	10.48	10.88	11.10
18	a 6.23	....	8.19	9.31	9.18	10.05	10.64	10.82	10.40	10.74	a10.82	.....
19	a 6.18	....	8.47	9.40	9.63	10.05	10.36	10.87	10.07	10.65	a10.78	.....
20	a 6.15	....	8.23	9.57	8.75	9.96	10.61	10.93	9.99	10.34	a10.73	.....
21	8.14	7.46	8.56	9.61	9.41	10.25	a10.99	.....	10.11	10.72	a10.72	.....
22	7.00	7.88	8.75	9.72	10.25	10.58	10.44	11.02	10.37	10.79	a10.74	.....
23	7.89	8.45	8.39	8.86	a10.52	.....	10.06	10.55	a10.26	.....	a10.77	.....
24	7.25	8.50	8.02	8.53	10.30	10.69	10.19	10.63	a10.34	.....	a10.80	.....
25	6.85	7.25	8.53	9.61	10.69	10.85	10.10	10.91	a10.15	.....	a10.83	.....
26	6.67	7.47	8.92	9.92	10.14	10.86	10.66	10.94	a10.10	.....	a10.85	.....
27	7.47	8.02	9.81	10.13	10.57	10.80	10.68	11.10	10.08	10.90	a10.86	.....
28	6.95	7.48	a10.13	.....	a10.87	.....	10.44	11.12	10.71	11.00	a10.88	.....
29	6.86	7.74	9.73	10.28	a10.92	.....	9.47	10.44	10.59	10.95	a10.89	.....
30	7.74	8.10	9.64	10.34	a11.00	.....	9.47	10.40	a11.03	.....	a10.91	.....
31	7.02	7.60	....	.....	10.60	11.07	.....	.....	10.59	10.98	a10.95	.....

(C-28-10)30acd1. State of Utah.--Continued.

Daily high and low water levels, in feet below measuring point, September-November, 1940 (from recorder charts)

Day	September High	September Low	October High	October Low	November High	November Low
1	a 10.97	.....	.....	.....	a 10.21	.....
2	a 10.99	.....	.....	.....	a 10.16	.....
3	a 10.95	.....	.....	.....	a 10.08	.....
4	a 10.91	.....	.....	.....	a 10.09	.....
5	a 10.89	.....	a 12.22	.....	a 10.02	.....
6	a 10.90	.....	11.76	12.53	10.00	10.64
7	a 10.90	.....	11.88	12.51	10.21	10.45
8	a 10.89	.....	11.47	12.15	a 10.20	.....
9	a 10.84	.....	11.19	11.47	a 10.10	.....
10	a 10.81	.....	10.99	11.19	a 10.08	.....
11	a 10.80	.....	a 10.90	.....	a 9.96	.....
12	a 10.80	.....	a 10.77	.....	a 9.96	.....
13	a 10.79	.....	a 10.66	.....	a 9.91	.....
14	a 10.78	.....	a 10.61	.....	a 9.87	.....
15	a 10.81	.....	a 10.53	.....	a 9.82	.....
16	a 10.78	.....	a 10.52	.....	a 9.70	.....
17	a 10.77	.....	10.50	10.85	9.96	10.27
18	a 10.73	.....	a 10.53	11.04	9.78	10.05
19	a 10.71	.....	10.73	11.16	a 9.68	.....
20	a 10.69	.....	10.78	11.28	a 9.61	.....
21	a 10.92	.....	10.92	11.36	a 9.56	.....
22	a 10.66	.....	10.97	11.40	a 9.54	.....
23	a 10.61	.....	11.00	11.71	a 9.56	.....
24	10.62	11.22	11.12	11.75	a 9.50	.....
25	10.54	10.75	11.14	11.80	a 9.48	.....
26	10.53	11.34	10.87	11.40	a 9.49	.....

a Reading at 12:00 noon, daily fluctuation less than 0.2 foot.

Beaver County--Continued.

Daily high and low water levels, in feet below measuring point, September-November, 1940 (from recorder charts)--Continued

Day	September High	September Low	October High	October Low	November High	November Low
27	10.57	11.36	10.63	10.86	a 9.49	
28	a 10.42		a 10.55		a 9.44	
29	a 10.42		a 10.43		a 9.40	
30	10.44	11.36	a 10.36		a 9.39	
31			a 10.27			

(C-28-10)30acdl. State of Utah.--Continued.

Water level, at noon, in feet below measuring point, December 1940 (from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Dec. 1	9.39	Dec. 9	9.12	Dec. 17	8.97	Dec. 25	8.85
2	9.36	10	9.11	18	8.99	26	8.83
3	9.30	11	9.06	19	8.99	27	8.77
4	9.27	12	9.06	20	8.96	28	9.00
5	9.22	13	9.10	21	8.84	29	8.78
6	9.21	14	9.08	22	8.82	30	8.74
7	9.20	15	9.05	23	8.79	31	8.77
8	9.14	16	8.99	24	8.74		

(C-28-10)31addl. State claim 7640. F. W. Gospill. Record begins in 1932. Water levels, in feet below measuring point, 1940: April 16, 10.73; Dec. 9, 14.02.

(C-28-10)31bdd2. State claim 15171. State Land Board, Milford. Diameter 14 inches, depth 100 feet. Measuring point, top edge of tie curb, 1.5 feet above land surface and 5002.74 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 12.71.

(C-28-10)31ddc1. State claim 10289. Francis Investment Co. Record begins in 1932. Elevation of measuring point, 5013.59 feet above sea level. Well caved; observations discontinued after May 4, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 6	16.86	Mar. 2	16.97	Apr. 16	17.75
Feb. 3	16.97	Apr. 6	17.04	May 4	17.73

(C-28-10)32addl. Clinton Bond, Milford. Diameter 36 inches. Measuring point, top of plank well cover east side, level with land surface and 5013.84 feet above sea level. Water level, in feet below measuring point, 1940: April 17, 15.78.

(C-28-10)32bda1. State claim 8757. Lester Williams, Milford. Diameter 14 inches, depth 84 feet. Measuring point, top of curb at northeast corner, level with land surface and 5001.76 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 17, 8.58.

(C-28-10)32ccc1. State claims 2040 and 3838. R. W. Jones, Milford. Diameter 14 to 12 inches, depth 72 feet. Measuring point, top of concrete curb, 0.3 foot above land surface. Water level, in feet below measuring point, 1940: Apr. 16, 16.35.

(C-28-10)32cdc1. State claim 1421. Oral Williams, Milford. Diameter 14 inches, depth 85 feet. Measuring point, top of casing, 0.3 foot below land surface and 5013.85 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 15.40.

(C-28-10)32dbc1. State claim 1423. Oral Williams, Milford. Diameter 18 inches, depth 24 feet. Measuring point, top of curb, level with land surface. Water level, in feet below measuring point, 1940: Apr. 17, 19.37.

a Reading at 12:00 noon, daily fluctuation less than 0.2 foot.

Beaver County--Continued.

(C-28-10)33abal. State claim 10281. Duluth Land Co. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	14.55	Apr. 15	16.48	July 6	14.08	Oct. 5	12.70
Feb. 3	14.46	May 4	17.36	Aug. 3	14.55	Nov. 2	15.97
Mar. 2	16.30	June 1	17.96	Sept. 7	13.05	Dec. 7	15.00
Apr. 6	16.20						

(C-28-11)24accl. Measurements discontinued.

(C-28-11)24bdcl. Measurements discontinued.

(C-28-11)24daal. State claim 11221. John D. Johnson. Record begins in 1939. Elevation of measuring point, 4970.02 feet above sea level.

Water level, in feet below measuring point, 1940

Jan. 6	4.84	Apr. 16	3.45	Aug. 3	a 15.90	Oct. 5	6.60
Feb. 3	4.35	May 4	a 15.34	Sept. 7	a 14.30	Nov. 2	6.07
Mar. 2	3.64	June 1	a 20.90	Sept. 12	a 22.70	Dec. 7	5.55
Apr. 6	3.35	July 6	a 19.68				

(C-28-11)25abdl. State claim 10323. McGarry Investmert Co., Milford. Diameter 14 inches, depth 77 feet. Measuring point, top of 2 by 6-inch sill, southwest corner, level with land surface and 4977.14 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 16, 4.43.

(C-28-11)35addl. State claim 3. W. H. Hendrickson, Milford. Diameter 14 inches, depth 77 feet. Measuring point, top of brick curb, southwest corner, 0.3 foot above land surface and 4989.39 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 11.35.

(C-28-11)35dddl. State claim 3619. State of Utah. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 6	10.19	Apr. 6	9.45	Aug. 3	a 17.15	Nov. 2	12.43
Feb. 3	9.87	June 1	11.20	Sept. 7	13.05	Dec. 7	12.07
Mar. 2	9.48	July 6	a 17.00	Oct. 5	14.69		

(C-28-11)36aadl. State claim 7662. Sam Cline, Milford. Diameter 16 inches, depth 80 feet. Measuring point, nail in southeast corner of well curb, 0.7 foot below land surface and 4994.07 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 16, 8.08.

(C-28-11)36addl. George Malouf. Record begins in 1939.

Water level, in feet below measuring point, 1940

Jan. 6	6.87	Apr. 16	6.43	July 6	10.27	Oct. 5	12.20
Feb. 3	6.66	May 4	6.66	Aug. 3	10.6	Nov. 2	12.24
Mar. 2	6.31	June 1	8.47	Sept. 7	12.59	Dec. 7	10.60
Apr. 6	6.15						

(C-28-11)36bbal. State claim 5266. D. W. Muir. Record begins in 1932.

Water level, in feet below measuring point, 1940

Jan. 6	4.56	Apr. 16	3.55	July 6	4.78	Oct. 5	6.71
Feb. 3	4.20	May 4	3.63	Aug. 3	6.24	Nov. 2	6.26
Mar. 2	3.70	June 1	4.28	Sept. 7	6.85	Dec. 7	5.00
Apr. 6	3.52						

(C-28-11)36dccl. State claim 5143. J. C. Whittaker, Milford. Diameter 14 inches, depth 64 feet. Measuring point, top of curbing, northwest, 1.5 feet below land surface and 5003.44 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 14.32.

a Pumping

Beaver County--Continued.

(C-29-7)3cbbl. Harry Hodges. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 9	22.23	Apr. 29	13.90	Aug. 7	19.42
Apr. 8	14.80	June 6	9.67	Dec. 10	21.55

(C-29-7)17cddl. State claim 6919. Drought Relief Administration. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 9	23.61	June 6	1.77	Aug. 7	10.56	Dec. 10	21.80
Apr. 8	22.24	July 19	6.07	Sept. 12	13.82		

(C-29-7)28db. J. A. Nowers. Record begins in 1935.

Water level, in feet below measuring point, 1940

Feb. 9	16.87	July 19	11.48	Sept. 12	13.09	Nov. 26	15.90
Apr. 8	16.12	Aug. 7	12.42	25	13.90	Dec. 10	16.42
June 6	9.89	25	12.88	Oct. 25	14.92		

(C-29-8)25cael. State claim 13115. Beaver School District. Record begins in 1936. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 9	9.5	June 6	9.9	Dec. 10	9.4
Apr. 15	9.7	Sept. 12	9.3		

(C-29-8)28ccbl. Measurements discontinued.

(C-29-8)30accl. State claim 8119. Drought Relief Administration. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 9, 21.85; Apr. 15, 21.45; June 6, 20.29. Well plugged with debris in September; measurements discontinued.

(C-29-10)5bacl. State claim 6839. Pearl Malstrom, Milford. Diameter 14 inches, depth 82 feet. Measuring point, top of curbing, level with land surface and 5020.18 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 20.92.

(C-29-10)5cadl. State claim 10285. Duluth Land Co., Milford. Diameter 14 inches, depth 84 feet. Measuring point, top of casing, level with land surface and 5030.87 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 27.87.

(C-29-10)5cccl. State claim 7641. F. W. Gospill, Milford. Diameter 12 inches, depth 61 feet. Measuring point, top of well cover at discharge pipe, 0.2 foot below land surface and 5031.00 feet above sea level. Water level, in feet below measuring point, 1940: April 16, 28.00.

(C-29-10)6aadl. State claim 17295. Laura Cates. Record begins in 1932.

Water level, in feet below measuring point, 1940

Apr. 16	21.38	Oct. 5	24.93	Dec. 7	24.15
Sept. 7	25.47	Nov. 2	24.26		

Beaver County--Continued.

(C-29-10)6ddd1. State claim 13116. Duluth Land Co. Record begins in 1932.

Water level, at noon, in feet below measuring point (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	29.35	29.52	29.61	29.70	30.17	30.88	31.26	31.51
2	29.35	29.55	29.61	29.75	30.19	30.88	31.27	31.55
3	29.36	29.57	29.60	29.75	30.21	30.89	31.28	31.56
4	29.35	29.56	29.63	29.77	30.34	30.87	31.29	31.58
5	29.35	29.57	29.62	29.78	30.37	30.89	31.29	31.61
6	29.38	29.56	29.65	29.80	30.40	30.91	31.28	b 31.63
7 a	29.39	29.53	29.65	29.80	30.43	30.92	31.28	.....
8 a	29.39	29.56	29.61	29.82	30.47	30.90	31.27	.....
9 a	29.40	29.57	29.60	29.82	30.48	30.92	31.26	.....
10 a	29.40	29.55	29.59	29.84	30.48	30.94	31.25	.....
11 a	29.41	29.53	29.62	29.85	30.50	30.95	31.24	.....
12 a	29.41	29.57	29.67	29.87	30.52	30.97	31.22	.....
13 a	29.42	29.57	29.68	29.88	30.55	30.98	31.22	.....
14	29.44	29.51	29.67	29.86	30.56	30.99	31.22	.....
15	29.46	29.53	29.65	29.84	30.57	31.01	31.22	.....
16	29.46	29.60	29.62	29.88	30.59	31.04	31.24	.....
17	29.45	29.59	29.64	29.95	30.61	31.05	31.25	.....
18	29.45	29.57	29.66	29.89	30.63	31.07	31.28	.....
19	29.47	29.62	29.65	29.97	30.65	31.09	31.30	.....
20	29.47	29.64	29.64	29.98	30.66	31.11	31.32	.....
21	29.48	29.62	29.65	30.00	30.68	31.14	31.32	.....
22	29.48	29.60	29.64	30.03	30.70	31.15	31.34	.....
23	29.48	29.65	29.64	30.05	30.72	31.16	31.35	.....
24	29.48	29.65	29.66	30.04	30.73	31.17	31.37	.....
25	29.49	29.62	29.64	30.05	30.73	31.17	31.37	.....
26	29.50	29.59	29.65	30.06	30.74	31.18	31.39	.....
27	29.52	29.60	29.69	30.06	30.78	31.19	31.42	.....
28	29.53	29.61	29.70	30.10	30.80	31.22	31.44	.....
29	29.54	29.59	29.71	30.13	30.83	31.23	31.47	.....
30	29.53	.....	29.71	30.17	30.86	31.24	31.48	.....
31	29.53	.....	29.70	.....	30.88	.....	31.49	.....

Water levels, in feet below measuring point, September-December 1940: Sept. 7, 31.50; Oct. 5, 31.42; Nov. 2, 31.66; Dec. 7, 31.86.

(C-29-10)7eddl. State claim 10284. Duluth Land Co. Record begins in 1932.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	35.62	Apr. 6	35.9	June 1	35.64	Sept. 7	42.05
Feb. 3	36.04	" 17	36.13	July 6	36.00	Nov. 2	36.90
Mar. 2	35.80	May 4	36.13	Aug. 3	37.10	Dec. 7	37.14

(C-29-10)7bbd1. State claim 15658. S. D. Atkin, Milford. Diameter 14 inches, depth 80 feet. Measuring point, nail at southwest corner of pit, 0.8 foot below land surface and 5029.83 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 17, 27.17.

(C-29-10)16cccl. Daniel Hartman. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 9	48.82	June 12	49.73	Sept. 12	48.75
Apr. 15	49.15	Aug. 6	49.15	Dec. 10	48.68

a Water level estimated.

b Water-level recorder removed.

Beaver County--Continued.

(C-29-11)1addl. State claim 10290. Francis Investment Co. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	1.50	Apr. 6	1.35	June 1	a 10.72	Sept. 7	b 8.10
Feb. 3	1.45	16	1.67	July 6	a 10.99	Oct. 5	6.17
Mar. 2	1.34	May 4	1.70	Aug. 3	6.72	Dec. 7	5.34

(C-29-11)1cad2. State claim 156. E. A. Hodges, Milford. Diameter 14 inches, depth 60 feet. Measuring point, top of the cover, west side, 0.6 foot above land surface and 5013.16 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 16, 18.38.

(C-29-11)2dddl. J. H. Rollins. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 6	1.50	Apr. 16	1.46	July 6	3.75	Oct. 5	3.84
Feb. 3	1.30	May 4	2.77	Aug. 3	4.60	Nov. 2	3.20
Mar. 2	1.08	June 1	3.50	Sept. 7	3.26	Dec. 7	2.85
Apr. 6	1.43						

(C-29-11)4adbl. State claim 12129. O. F. Hubbell, Milford. Diameter 16 inches, depth 68 feet. Measuring point, top of floor of pump house, level with land surface. Water level, in feet below measuring point, 1940: Apr. 18, 8.19.

(C-29-11)10cadl. State claim 7643. H. W. Gospill. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 6	10.31	Apr. 6	9.67	July 6	10.60	Oct. 5	11.42
Feb. 3	10.15	18	9.72	Aug. 3	11.50	Nov. 2	11.01
Mar. 2	9.68	May 4	9.81	Sept. 7	11.60	Dec. 7	10.40
10	9.69	June 1	10.38				

(C-29-11)11accl. State claim 5771. C. M. Husbands, Milford. Diameter 5 inches, depth 53 feet. Measuring point, top of concrete curb, 0.5 foot above land surface. Water level, in feet above measuring point, 1940: April 18, 13.63.

(C-29-11)11cddl. State claim 7540. Preston Davis. Record begins in 1937.

Water level, in feet below measuring point, 1940

Jan. 6	18.63	Apr. 18	18.87	Aug. 3	20.88	Nov. 2	19.32
Feb. 3	18.47	May 4	18.99	Sept. 7	20.28	Dec. 7	18.84
Mar. 2	18.33	June 1	19.14	Oct. 5	19.47	9	19.12
Apr. 6	18.38	July 6	19.77				

(C-29-11)11ddcl. State claim 1169. W. W. Cook, Milford. Diameter 16 inches, depth 65 feet. Measuring point, top of lowest horizontal windmill brace, 2.2 feet above land surface. Water level, in feet below measuring point, 1940: April 18, 22.38.

(C-29-11)13cca. Diameter 14 inches. Measuring point, top of wooden casing, 1.2 feet above land surface. Water level, in feet below measuring point, 1940: April 18, 30.34.

(C-29-11)14addl. State claim 1167. W. W. Cook, Milford. Diameter 16 inches, depth 62 feet. Measuring point, top of tie cover spanning well, 0.5 foot above land surface and 5028.04 feet above sea level. Water level, in feet below measuring point, 1940: April 18, 24.1.

(C-29-11)15abdl. Milford State Bank. Record begins in 1936. Water levels, in feet below measuring point, 1940: April 18, 11.70; Dec. 9, 12.00.

a Pumping.

b Pumped recently.

Beaver County--Continued.

(C-29-11)20bbbl. Well destroyed; measurements discontinued.

(C-29-11)20ccc. Milford. Diameter 6 inches. Measuring point, top of iron clamp around discharge pipe, 1.2 feet above land surface. Water level, in feet below measuring point, 1940: April 19, 46.47.

(C-29-11)20dcdl. U. S. Geological Survey test well. Water levels, in feet below measuring point, 1940: April 19, 2.78; Dec. 9, 3.27.

(C-29-11)21dddl. State claim 8974. A. D. Thompson. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	20.60	Apr. 18	19.80	Aug. 3	23.05	Nov. 2	20.75
Feb. 3	20.45	May 4	20.68	Sept. 7	21.30	Dec. 7	20.48
Mar. 2	20.30	June 1	20.79	Oct. 5	20.78	9	20.43
Apr. 6	20.45	July 6	21.15				

(C-29-11)22addl. State claim 17158. P. V. Haworth, Milford. Diameter 14 inches, depth 65 feet. Measuring point, nail in north side of timber of well cover, 0.6 foot below land surface and 5027.28 feet above sea level. Water level, in feet below measuring point, 1940: April 18, 21.05.

(C-29-11)22dddl. State claim 10667. P. V. Haworth. Record begins in 1935.

Water level, in feet below measuring point, 1940

Jan. 6	26.85	Apr. 18	26.75	Aug. 3	28.40	Nov. 2	27.46
Feb. 3	26.82	May 4	26.94	Sept. 7	28.30	Dec. 7	27.02
Mar. 2	26.68	June 1	26.80	Oct. 5	27.50	9	27.04
Apr. 6	26.58	July 6	27.60				

(C-29-11)23bcdl. I. E. Leck, Milford. Diameter 14 inches. Measuring point, top of wood casing, 1.5 feet above land surface and 5034.09 feet above sea level. Water level, in feet below measuring point, 1940: April 18, 27.18.

(C-29-11)27bddl. State claim 2617. M. M. Muir, Milford. Diameter 12 inches, depth 75 feet. Measuring point, nail in southwest corner of pit, 1.4 feet below land surface and 5032.94 feet above sea level. Water level, in feet below measuring point, 1940: April 18, 24.40.

(C-29-11)27dcbl. State claim 2620. J. J. Weir, Milford. Diameter 12 inches, depth 68 feet. Measuring point, cross on casing under pump base, level with land surface and 5038.35 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 18, 28.86.

(C-29-11)29adal. Public Land. Record begins in 1936.

Water level, in feet below measuring point, 1940

Jan. 6	15.15	Apr. 18	14.97	Aug. 3	16.75	Nov. 2	15.94
Feb. 3	14.98	May 4	15.15	Sept. 7	15.50	Dec. 7	15.41
Mar. 2	14.74	June 1	15.30	Oct. 5	15.97	9	15.37
Apr. 6	15.0	July 6	15.83				

(C-29-11)29dddl. State claim 7161. S. J. and G. Cline. Record begins in 1935. Water level, in feet below measuring point, 1940: April 18, 16.05.

(C-29-11)35acc. Milford. Diameter 12 inches, depth 94 feet. Measuring point, top of 4 by 4-inch sill at southwest corner, 1.0 foot above land surface. Water level, in feet below measuring point, 1940: April 19, 50.77.

(C-29-11)35bcdl. (C-29-11)35bc in Water Supply Paper 817. Public Land. Record begins in 1935. Water level, in feet below measuring point, 1940: Apr. 19, 4.30.

Beaver County--Continued.

(C-30-10)12cda. T. L. Gray. Record begins in 1935.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 9	31.68	June 12	31.38	Dec. 10	31.37
Apr. 15	31.65	Sept. 12	29.82		

(C-30-11)4dcc1. Public Land. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 18, 27.85; Dec. 9, 27.98.

(C-30-11)6dccl. U. S. Geological Survey test well. Water level, in feet below measuring point, 1940: April 18, 8.55.

(C-30-11)11caa. Milford. Diameter 12 inches, depth 95 feet. Measuring point, top of 4 by 4-inch sill, 0.4 foot above land surface. Water level, in feet below measuring point, 1940: April 20, 43.05.

(C-30-12)3ddal. R. B. Norris, Nada. Diameter 5 inches. Measuring point, top of 6 by 6-inch curb, north side, 0.5 foot above land surface. Water level, in feet below measuring point, 1940: April 19, 45.75.

(C-30-12)4addl. T. J. Norris, Nada. Diameter 48 inches. Measuring point, top of well cover, 2.0 feet above land surface. Water level, in feet below measuring point, 1940: April 19, 111.80.

(C-30-12)9daal. Public Land, Nada. Diameter 48 inches, depth 32 feet. Measuring point, top of curb, west side, 1.3 feet above land surface and 5053.32 feet above sea level. Water level, in feet below measuring point, 1940: April 19, 30.35.

(C-30-12)10aaal. C. S. Hammond, Nada. Diameter 72 inches, depth 33 feet. Measuring point, top of platform, 0.4 foot above land surface and 5048.72 feet above sea level. Water level, in feet below measuring point, 1940: April 19, 31.42.

(C-30-12)10abb1. C. S. Hammond, Nada. Diameter 48 inches, depth 41 feet. Measuring point, top of concrete curb, west side, 0.5 foot below land surface and 5060.88 feet above sea level. Water level, in feet below measuring point, 1940: April 19, 38.86.

(C-30-12)11bbb1. D. L. Barnes. Record begins in 1935. Water levels, in feet below measuring point, 1940: April 19, 31.83; Dec. 9, 31.89.

(C-30-12)12bbb1. E. E. Gray. Record begins in 1935. Water levels, in feet below measuring point, 1940: April 18, 16.74; Dec. 9, 16.95.

(C-30-12)13bcb1. Beaver County. Record begins in 1939. Water levels, in feet below measuring point, 1940: April 23, 9.37; Dec. 9, 8.73.

(C-30-12)22aad1. U. S. Geological Survey test well. Water levels, in feet below measuring point, 1940: April 23, 6.73; Dec. 9, 7.27.

(C-30-12)28bac1. No measurements in 1940.

(C-30-12)28dab1. U. S. Geological Survey test well. Water level, in feet below measuring point, 1940: April 23, 4.13.

(C-30-12)29ddal. U. S. Geological Survey test well. Water level, in feet below measuring point, 1940: April 23, 8.38.

(C-30-12)31cab2. 31bdc1 in Water Supply paper No. 886. Ludwig Culmsee. Record begins in 1938. Water levels, in feet below measuring point, 1940: April 23, 17.08; Dec. 9, 17.55.

(C-30-12)33bbd1. No measurements made in 1940.

Beaver County--Continued.

(C-30-13)18dddl. Nada. Diameter 60 inches, depth 173 feet. Measuring point, top of iron clamp around discharge pipe, at land surface. Water level, in feet below measuring point, 1940: April 19, 172.50.

(C-30-13)20dda. Nada. Diameter 12 inches, depth 156 feet. Measuring point, top of casing, 1.0 foot below land surface. Water level, in feet below measuring point, 1940: April 19, 105.90.

(C-30-13)21dddl. Nada. Diameter 6 inches. Measuring point, top of casing, 3.3 feet above land surface. Water level, in feet below measuring point, 1940: April 19, 95.98.

(C-30-13)22dddl. State claim 13674. Blanch Showalter, Nada. Diameter 16 inches, depth 90 feet. Measuring point, top of 8 by 8-inch pump support, 0.9 foot above land surface. Water level, in feet below measuring point, 1940: April 19, 64.60.

(C-30-13)27cd. Nada. Diameter 12 inches, depth 137 feet. Measuring point, top of 12" casing, 1.0 foot above land surface. Water level, in feet below measuring point, 1940: April 22, 44.87.

(C-30-13)30bad. Nada. Diameter 60 inches, depth 87 feet. Measuring point, top of curb, north side, 0.5 foot above land surface. Water level, in feet below measuring point, 1940: April 19, 86.05.

(C-30-13)34ba. Nada. Diameter 60 inches, depth 37 feet. Measuring point, top of well cover, north side, level with land surface. Water level, in feet below measuring point, 1940: April 22, 34.98.

(C-30-13)34bbb. Nada. Diameter 14 inches, depth 69 feet. Measuring point, top of casing, level with land surface. Water level, in feet below measuring point, 1940: April 19, 45.70.

Box Elder County

(B-7-2)2abal. State claim 11922. Earl Lemon. Record begins in 1917. Water level, in feet with reference to measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	-0.38	July 29	+1.82	Sept. 29	+1.74	Nov. 21	+1.24
Apr. 4	+1.44	Aug. 24	+1.85	Oct. 10	+1.72	Dec. 19	+1.13
June 25	+2.35	Sept. 20	+1.87	29	+1.67	30	+0.95

(B-7-2)2cba3. State claim 2809. Delbert Cook. Record begins in 1936. Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 1	45.0	June 25	a 35.9	Dec. 19	46.20
Apr. 4	45.4	Oct. 10	41.75		

(B-7-2)11cdsl. State claim 1489. First Savings Bank of Ogden. Record begins in 1936.

Water level, in feet below measuring point, 1940

Feb. 1	21.16	June 25	20.86	Dec. 19	20.70
Apr. 4	21.23	Oct. 10	20.84		

(B-8-2)11bdcl. State claim 773. J. A. Ward. Record begins in 1935. Water level, in feet below measuring point, 1940

Feb. 1	53.82	June 25	51.95	Dec. 19	51.22
Apr. 4	54.47	Oct. 10	46.49		

a Found flowing.

Box Elder County--Continued.

(B-8-2)23cdb1. State claims 1284 and 8126. Willard Water Co. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 1	43.88	June 25	38.16	Dec. 19	42.66
Apr. 4	43.68	Oct. 10	42.27		

(B-8-2)26cac1. State claim 99. G. L. Braegger. Record begins in 1935.

Water level, in feet above measuring point, 1940

Feb. 1	27.3	June 25	a 23.5	Dec. 19	28.1
Apr. 4	28.5	Oct. 10	a 24.3		

(B-8-2)35add1. M. C. Marsh, Willard. Diameter 96 inches, depth 29 feet. Measuring point, top of platform, 0.6 foot above land surface. Water-level recorder installed September 20, 1940.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 21	25.90	Oct. 12	26.06	Nov. 1	26.10	Nov. 20	26.03
22	25.92	13	26.07	2	26.09	21	26.04
23	25.92	14	26.08	3	26.08	22	26.05
24	25.93	15	26.08	4	26.10	23	26.05
25	25.95	16	26.08	5	26.10	24	26.05
26	25.95	18	26.09	6	26.10	25	26.06
27	25.95	19	26.09	7	26.10	26	26.06
30	25.94	20	26.08	8	26.09	27	26.06
Oct. 1	25.96	21	26.07	9	26.08	28	26.05
2	25.95	22	26.08	10	26.11	29	26.05
3	25.97	23	26.08	11	26.11	30	26.07
4	26.01	24	26.07	12	26.10	Dec. 1	26.10
5	26.02	25	26.06	13	26.10	2	26.12
6	26.04	26	26.05	14	26.09	3	26.12
7	26.02	27	26.05	15	26.07	4	26.13
8	26.01	28	26.06	16	26.05	5	26.14
9	26.03	29	26.05	17	26.04	6	26.14
10	26.06	30	26.06	18	26.04	19	26.21
11	26.06	31	26.10	19	26.03		

(B-9-1)22ccc. Raymond Jeppeson. Record begins in 1937. Water levels, in feet below measuring point, 1940: Mar. 30, 25.46; June 22, 25.94; Dec. 16, 27.79.

(B-9-1)27bbb. Charles Jeppeson. Record begins in 1937. Water levels, in feet below measuring point, 1940: Mar. 30, 21.05; June 22, 21.74, Dec. 16, 21.86.

(B-9-2)12ccc1. State claim 499. G. D. Reeder. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 1	8.17	June 25	6.98	Dec. 19	6.95
Apr. 1	7.82	Oct. 10	7.57		

(B-9-2)12ccd1. State claim 500. G. D. Reeder. Record begins in 1937.

Water level, in feet below measuring point, 1940

Feb. 1	15.44	June 25	14.91	Dec. 19	15.52
Apr. 1	15.05	Oct. 10	15.30		

a Found flowing.

Box Elder County--Continued.

(B-9-2)14dac1. State claim 549. W. W. and J. F. Knudsen. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 1	19.76	June 25	a 28.9	Dec. 19	19.54
Apr. 1	19.62	Oct. 10	17.77		

(B-9-2)25bda1. State claim 268. First National Bank. Record begins in 1937.

Water level, in feet below measuring point, 1940

Feb. 1	24.46	June 25	20.05	Dec. 19	23.44
Apr. 4	24.70	Oct. 10	17.78		

(B-9-2)35dcd1. State claim 477. F. H. Hansen. Record begins in 1935.

Water level, in feet below measuring point, 1940

Feb. 1	42.20	June 25	38.26	Dec. 19	41.13
Apr. 4	43.00	Oct. 10	37.90		

(B-9-3)1bbb1. State claim 8477. Federal Land Bank. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 6.09; June 25, 4.66; Oct. 10, 5.79; Dec. 17, 6.51.

(B-10-3)8dc1. S. N. Cole. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 7.44; June 25, 9.06; Oct. 10, 9.47; Dec. 17, 9.08.

(B-10-3)9aaa1. Henry Berchtold. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 4.57; June 25, 3.44; Oct. 10, 3.60; Dec. 17, 4.5.

(B-10-3)32aaa. B. E. Stallings. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 1, 4.55; June 25, 4.27; Oct. 10, 4.32; Dec. 17, 3.65.

(B-10-15)26. (B-10-5)26 in Water Supply Paper 886. Grazing Service. Record begins in 1939. Water level, in feet below measuring point, 1940: Oct. 9, 94.72.

(B-10-18)28dca. Grazing Service. Record begins in 1939. Water level, in feet below measuring point, 1940: Oct. 9, 120.50.

(B-11-3)21bbb1. State claim 6250. J. A. House. Record begins in 1935. Water levels, in feet above measuring point, 1940: Apr. 1, 5.5; June 25, 6.2; Oct. 10, 5.9; Dec. 17, 6.1.

(B-11-3)21bbb2. (B-11-3)21bb1 in Water Supply Paper 886. J. A. House. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 4.96; June 25, 4.58; Oct. 10, 5.33; Dec. 17, 5.33.

(B-11-3)21bbb3. (B-11-3)21bb2 in Water Supply Paper 886. J. A. House. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 4.72; June 25, 3.92; Oct. 10, 3.94; Dec. 17, 3.97.

(B-11-4)11aaa1. State claim 3337. Fred Deininger. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 10.02; June 25, 10.05; Oct. 10, 8.98; Dec. 17, 9.67.

(B-11-4)14ba. I. D. Newman. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 1, 0.80; June 25, 0.88; Oct. 10, 1.02; Dec. 17, 0.85.

(B-11-18)2cdb1. Measurements discontinued.

a Pumping.

Box Elder County--Continued.

(B-11-18)22aa. A. L. Paskett. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 9, 23.15.

(B-11-18)23bb. Central Pacific Railroad. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 9, 23.09.

(B-12-3)11db2. R. D. McFarlane. Record begins in 1939. Water levels, in feet below measuring point, 1940: Apr. 1, 9.22; June 25, 6.10; Oct. 9, 10.12; Dec. 17, 11.43.

(B-12-4)11cb. State claim 14152. Adolph Harris. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 116.42; Oct. 9, 116.25.

(B-12-11)22. Grazing Service. Record begins in 1935. Water level, in feet below measuring point, 1940: Oct. 9, 9.83.

(B-12-11)28ba. Albert Crandall. Record begins in 1935. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Oct. 9, 0.15.

(B-12-14)2aa. (B-12-14)2ab in Water-Supply Paper 886. Albert Hirschie. Record begins in 1936. Water levels, in feet below measuring point: Oct. 12, 1938, 11.86; Sept. 29, 1939, 12.55; Oct. 9, 1940, 11.10.

(B-12-18)13a. Measurements discontinued.

(B-12-18)25ba. Measurements discontinued.

(B-12-18)35aa. George Blanthorne. Record begins in 1936. Measurement made ten minutes after stopping pump. Static level rarely obtained because of pumping. Water level, in feet below measuring point, 1940: Oct. 9, 37.70. Measurements discontinued.

(B-13-5)17bb. State claim 3776. R. A. Miller. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 1, 63.10; Oct. 9, 63.17.

(B-13-5)28cb. Joseph Aebischmer. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 62.25; Oct. 9, 62.78.

(B-13-6)1dacl. Deacon Brothers, Blue Creek. Diameter 4 inches. Measuring point, top of casing, 0.3 foot above land surface. Water levels, in feet below measuring point, 1940: Apr. 1, 153.80; Oct. 9, 153.95.

(B-13-13)28dd. L. G. Carter. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 9, 15.05.

(B-13-13)32aa. John Vance. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 9, 37.57.

(B-13-14)25cb. J. H. Kunzler. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 9, 16.56.

(B-13-14)26bd. W. A. Newman. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 9, 19.27.

(B-14-8)11ab. B. S. Cutler. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 49.00; Oct. 9, 48.73.

(B-14-9)10ad. Abe Rose. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 1, 98.90; Oct. 9, [a] 97.57.

(B-14-15)3dddl. M. A. Smith. Record begins in 1935. Measurement made ten minutes after pump stopped. Water level, in feet below measuring point, 1940: Oct. 9, 51.90.

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a Pumping intermittently prior to measurement.

Box Elder County--Continued.

(B-14-15)11cc. Mrs. C. B. Tracy. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 9, 27.24.

(B-15-14)36. H. Alberts. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 9, 8.25.

Cache County

(A-9-1)10add1. State claim 8135. Drought Relief Administration. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 7	a 27.66	Apr. 1	a 27.63	June 24	28.62
Mar. 9	a 27.59	May 1	a 28.13	Oct. 11	31.24

(A-10-1)4ab. O. H. Anderson. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7	a 11.09	Apr. 1	a 11.55	June 24	11.60	Dec. 17	11.36
Mar. 9	a 11.20	May 1	a 11.88	Oct. 11	10.97		

(A-11-1)3bda1. State claim 8136. Drought Relief Administration. Record begins in 1936.

Water level, in feet below measuring point, 1940

Feb. 7	a 36.85	Apr. 3	a 37.61	June 24	36.60	Dec. 17	37.66
Mar. 9	a 37.39	May 1	a 37.92	Oct. 11	38.57		

(A-11-1)5ab1. Measurements discontinued.

(A-11-1)8dda3. State claim 1199. Amalgamated Sugar Co. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 7	a 9.9	Apr. 1	a 9.9	June 24	b 8.5
Mar. 9	a 9.7	May 1	ab 8.8	Oct. 11	9.0

(A-11-1)8ddb2. State claim 1210. Amalgamated Sugar Co. Record begins in 1936.

Water level, in feet above measuring point, 1940

Feb. 7	a 11.9	Apr. 1	a 11.8	Dec. 17	b 10.4
Mar. 9	a 11.7	May 1	a 10.7		

(A-11-1)18ddd1. State claim 5950. Lovenus Olsen. Record begins in 1936. Found flowing prior to all measurements.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Feb. 7	a 2.45	12.0	June 11	0.23	5.5
Mar. 9	a 2.05	12.0	Oct. 11	1.02	...
Apr. 1	a 2.15	11.5	Dec. 16	1.65	...
May 1	a 1.60	11.1			

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

Cache County--Continued.

(A-11-1)30bbd2. L. S. Hill. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7	a 6.61	Apr. 1	a 6.83	June 24	8.75	Dec. 16	7.61
Mar. 9	a 6.86	May 1	a 7.37	Oct. 11	8.53		

(A-12-1)3bbb1. State claims 19 and 8129. Smithfield Irrigation Co. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 6	a 13.49	Apr. 2	a 15.46	June 24	7.62
Mar. 8	a 14.64	May 2	a 15.77	Dec. 16	13.02

(A-12-1)3bbb2. Nora Johnson. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 6	a 14.50	June 24	9.42	Dec. 16	15.00
Mar. 8	a 14.52	Oct. 10	12.97		

(A-12-1)16bcd1. State claim 11568. Logan City and Cache County. Record begins in 1936.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 30	ab 17.2	May 3	ab 14.7	Aug. 20	b 7.4	Dec. 17	b 17.5
Apr. 3	ab 17.3	June 24	b 10.3	Oct. 11	b 13.8		

(A-12-1)16cca1. State claim 10445. Benson Irrigation Co. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	a 40.9	Apr. 3	a 40.2	June 24	b 41.0	Dec. 17	41.7
Mar. 8	a 40.35	May 3	a 39.6	Oct. 11	b 41.3		

(A-12-1)28cdc1. Homa Andrew. Record begins in 1936. Elevation of measuring point, 4491.77 feet above sea level. Static level rarely obtained. Measurements discontinued after December 17, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	ab 0.0	Apr. 1	a 0.67	June 24	b 0.55	Dec. 17	b 0.78
Mar. 9	ab 0.44	May 3	a 1.07	Oct. 11	1.52		

(A-12-1)29bdd. Arnold Nielsen, Logan. Diameter 2 inches, depth 43 feet. Measuring point, top of coupling on casing, 0.3 foot above land surface. Water-level recorder installed August 24, 1940.

Water levels, at noon, in feet above measuring point, 1940 (from recorder charts)

Date	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	14.2	14.0	14.2	14.0
2	....	14.3	14.0	14.1	14.2
3	....	14.3	14.0	14.2	14.5
4	....	14.3	14.0	14.0	14.4
5	....	14.4	13.9	14.3	14.2
6	....	14.6	13.8	14.2	14.5
7	....	14.4	13.8	14.0	14.4
8	....	14.2	13.8	14.2	14.3
9	....	14.2	13.8	14.4	14.4
10	....	14.4	13.8	14.2	14.5
11	....	14.1	14.0	14.2	14.4
12	....	14.1	14.0	14.3	14.3
13	....	14.1	14.5	14.7	14.4

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

Cache County--Continued.

(A-12-1)29bdd. Arnold Nielsen.--Continued.

Water levels, at noon, in feet above measuring point, 1940 (from recorder charts)

Date	Aug.	Sept.	Oct.	Nov.	Dec.
14	....	14.1	14.0	14.2	14.5
15	....	14.1	14.2	14.3	14.3
16	....	14.1	14.0	14.3	14.5
17	....	14.1	14.0	14.2	14.5
18	....	14.1	14.0	14.4	14.4
19	....	14.0	14.2	14.4	14.2
20	....	14.1	14.2	14.6	14.2
21	....	13.8	14.0	14.2	14.4
22	....	13.8	14.0	14.0	14.3
23	....	13.8	14.0	....	14.3
24	13.9	13.8	14.0	....	15.0
25	14.5	13.8	14.3	14.3	14.4
26	14.4	13.8	14.0	14.5	14.3
27	14.4	14.0	14.2	14.5	14.3
28	14.2	14.0	14.3	14.3	14.4
29	14.1	14.0	14.5	14.3	14.4
30	14.3	14.0	14.3	14.4	14.2
31	14.2	....	14.0	....	14.5

(A-12-1)31dab1. State claim 2537. R. S. Painter. Record begins in 1936.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 6	a 33.4	Apr. 1	a 33.6	June 25	25.6
Mar. 9	a 33.7	May 1	a 33.0	Dec. 17	29.7

(A-13-1)16ccb1. State claim 14018. A. A. Miles. Record begins in 1937.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	a 3.9	Apr. 2	a 2.51	June 24	b 7.1	Dec. 16	4.7
Mar. 8	a 3.18	May 2	ab 2.38	Oct. 10	b 4.9		

(A-13-1)20acb1. State claim 1683. Measurements discontinued.

(A-13-1)29bdb1. State claim 1682. J. C. Cannell. Record begins in 1935.

Water level, in feet with reference to measuring point, 1940

Feb. 5	a -2.33	Apr. 2	a -3.90	June 24	b +1.77	Dec. 16	-1.90
Mar. 8	a -3.28	May 2	a -3.67	Oct. 10	-0.54		

(A-13-1)31ccc1. State claim 7531. Measurements discontinued.

(A-14-1)22bad1. State claim 17652. C. B. Stoddard. Record begins in 1938.

Water level, in feet above measuring point, 1940

Feb. 6	a 0.28	Apr. 2	a 3.5	June 24	b 8.3	Dec. 16	b 0.50
Mar. 8	a 0.90	May 2	a 6.5	Oct. 10	b 1.55		

(A-14-1)22bbd2. State claim 13458. H. H. Merrill. Record begins in 1936. Elevation of measuring point, 4461.63 feet above sea level. Measurements discontinued after December 16, 1940.

Water level, in feet above measuring point, 1940

Feb. 6	a 14.9	Apr. 2	a 17.4	June 24	24.0	Dec. 16	b 15.0
Mar. 8	a 14.6	May 2	a 19.4	Oct. 10	16.8		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

Cache County--Continued.

(A-14-1)34adb1. State claim 1373. Crockett Well Co. Record begins in 1935. Elevation of measuring point, 4545.32 feet above sea level.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	a 19.51	Apr. 2	a 13.91	June 24	5.56	Dec. 16	19.38
Mar. 8	a 16.08	May 2	a 13.45	Oct. 10	18.87		

(A-14-1)34cac1. State claim 10383. Victor Johnson. Record begins in 1936.

Water level, in feet above measuring point, 1940

Feb. 6	a 13.8	Apr. 2	a 17.7	June 24	b 12.35	Dec. 16	16.7
Mar. 8	a 16.1	May 2	a 18.0	Oct. 10	b 8.15		

(A-14-1)34dca1. State application 12652. Drought Relief Administration (Richmond Irrigation Co.). Record begins in 1937. Water level, outside of casing, in feet below measuring point, 1940: June 24, 1.75.

Water level, inside casing, in feet below measuring point, 1940

Feb. 6	a 5.69	Apr. 2	a 3.28	June 24	0.20	Dec. 16	5.06
Mar. 8	a 3.87	May 2	a 2.74	Oct. 10	6.00		

(B-11-1)3bcd1. State claim 15787. Utah Power and Light Co. Record begins in 1936. Elevation of measuring point, 4410.0 feet above sea level.

Water level, in feet above measuring point, 1940

Feb. 7	ab 4.7	Apr. 1	ab 5.2	June 24	b 4.45	Dec. 16	b 4.45
Mar. 9	ab 4.75	May 1	ab 4.8	Oct. 11	b 4.6		

(B-11-1)13bbc1. Alma Olsen. Record begins in 1936.

Water level, in feet above measuring point, 1940

Feb. 7	a 38.85	Apr. 1	a 38.4	June 24	30.25	Dec. 16	37.3
Mar. 9	a 38.2	May 1	a 38.1	Oct. 11	36.5		

(B-11-1)35caa1. State claim 1475. J. A. Lieshman. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Apr. 1	a 12.0	June 24	b 11.45	Dec. 16	b 11.1
May 1	ab 10.8	Oct. 11	b 10.6		

(B-11-1)35dad1. State claim 5932. Andrew Hutchenson. Record begins in 1935. Elevation of measuring point, 4507.81 feet above sea level.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Feb. 7	ab 3.7	3.8	June 24	b 2.8	2.8
Mar. 9	ab 3.55	3.9	Oct. 11	b 1.98	....
Apr. 1	ab 3.6	3.3	Dec. 16	b 2.70	....
May 1	ab 2.3	2.5			

(B-12-1)8cdb2. State claim 16851. Edward Edwards. Record begins in 1936. Elevation of measuring point, 4433.15 feet above sea level.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7	ab 6.9	Apr. 2	ab 7.0	June 25	b 6.6	Dec. 17	b 5.9
Mar. 9	ab 6.9	May 2	ab 6.9	Oct. 10	b 6.1		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pound flowing.

Cache County--Continued.

(B-12-1)26cdb1. Measurements discontinued.

(B-13-1)30aac1. State claim 2757. E. R. Ballard. Record begins in 1936.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Feb. 7	ab 16.4	1.8	May 2	ab 15.4	1.7
Mar. 9	ab 16.1	1.8	June 25	b 15.4	1.6
Apr. 2	ab 14.9	1.6	Dec. 17	b 14.8	...

Davis County

(A-2-1)6acc3. Measurements discontinued.

(A-2-1)6cdd1. Measurements discontinued.

(A-2-1)6dcd1. Measurements discontinued.

(A-2-1)7aab1. Measurements discontinued.

(A-2-1)7aad. Measurements discontinued.

(A-2-1)7acd4. Measurements discontinued.

(A-2-1)7dac2. Measurements discontinued.

(A-2-1)7dba11. Measurements discontinued.

(A-2-1)7dbb1. Measurements discontinued.

(A-2-1)7ddc1. Measurements discontinued.

(A-2-1)17cba2. Measurements discontinued.

(A-2-1)17ccb1. State claim 11318. Will Holbrook. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	a 33.92	Mar. 6	a 35.91	May 1	a 35.17	Nov. 28	33.30
Feb. 2	a 34.27	Apr. 2	a 36.55	June 21	29.69		

(A-2-1)18aab1. Measurements discontinued.

(A-2-1)18aab2. Measurements discontinued.

(A-2-1)18aab. Measurements discontinued.

(A-2-1)18abd. T. Q. Williams.

Water level, at noon, in feet above measuring point, 1940

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	15.1	14.7	14.9	15.7	17.7	15.8	16.4	12.5	11.4	14.8	15.3	15.0
2	15.1	14.7	14.9	15.8	15.0	15.5	16.0	11.0	11.4	14.8	15.4	15.0
3	15.2	14.7	14.9	15.8	15.0	18.8	14.1	10.2	11.1	15.0	15.3	15.0
4	15.3	14.7	15.1	16.0	16.0	18.3	13.1	11.0	10.4	15.0	15.4	14.8
5	15.4	14.8	15.1	16.0	17.7	19.0	13.7	10.6	11.8	15.1	15.1	14.8
6	....	14.8	15.1	16.2	16.5	20.0	14.5	11.6	11.8	15.1	15.1	14.8
7	....	14.7	15.1	16.2	18.3	20.8	14.6	11.3	11.9	15.4	15.2	14.8
8	....	14.7	15.1	16.5	18.4	20.7	13.3	10.3	11.9	15.4	15.2	14.7
9	....	14.7	15.1	16.2	18.3	20.2	12.1	10.4	12.6	15.3	15.1	14.8
10	15.2	14.6	15.1	16.5	18.3	20.5	12.7	11.4	11.5	15.3	15.3	14.7

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

Davis County--Continued.

(A-2-1)18abd. T. Q. Williams.--Continued.

Water level, at noon, in feet above measuring point, 1940

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	14.8	14.6	15.1	16.2	18.5	20.2	13.4	12.1	11.0	15.2	15.2	14.6
12	14.9	14.7	15.1	16.7	18.5	20.3	12.0	12.1	11.5	15.3	15.2	14.7
13	....	14.7	15.0	16.8	18.8	17.2	11.4	11.9	12.1	15.3	15.2	....
14	....	14.7	15.0	17.0	18.8	18.5	13.7	10.8	12.7	15.4	15.2	....
15	....	14.8	15.1	16.7	18.8	19.5	14.0	10.7	13.6	15.6	15.2	....
16	....	14.8	15.1	16.7	19.0	19.0	13.0	10.2	14.0	15.4	15.2	....
17	....	14.3	14.8	16.6	18.2	15.8	13.0	11.3	14.4	15.4	15.2	14.5
18	....	14.3	15.3	16.7	18.8	16.0	13.4	11.3	14.4	15.4	15.1	14.4
19	....	14.7	15.3	16.8	18.9	15.4	13.7	11.4	14.4	15.4	15.0	14.4
20	....	14.7	15.4	16.9	19.2	15.0	13.8	11.3	14.4	14.4	15.0	14.0
21	....	14.9	15.4	16.8	19.0	16.8	12.6	11.3	14.5	14.2	15.0	14.2
22	....	14.8	15.2	16.8	19.1	14.7	14.0	10.4	14.6	14.1	15.0	14.2
23	....	14.7	....	15.4	18.5	16.0	12.2	11.0	14.6	14.0	15.0	14.3
24	....	14.7	....	16.2	16.5	15.0	13.0	10.9	14.3	15.1	15.2	14.2
25	....	14.9	15.7	16.8	18.0	17.5	13.0	11.1	14.1	15.1	15.2	....
26	....	15.0	15.4	16.9	18.5	17.5	11.6	11.1	13.5	15.2	15.0	14.3
27	14.8	15.0	15.4	17.0	18.6	16.4	12.9	11.0	13.6	15.2	15.0	14.2
28	14.7	15.0	15.6	17.2	16.5	15.5	13.0	10.8	13.8	15.2	15.0	14.2
29	14.7	15.0	15.7	17.4	19.0	15.8	13.2	11.3	14.7	15.3	15.0	14.2
30	14.7	....	15.7	17.6	16.3	15.3	11.2	11.7	14.8	15.3	15.0	....
31	14.7	....	15.6	....	16.3	....	12.7	11.7	....	15.3	....	....

(A-2-1)18abdl4. Measurements discontinued.

(A-2-1)18adal. Measurements discontinued.

(A-2-1)18ada2. Measurements discontinued.

(A-2-1)18ada3. Measurements discontinued.

(A-2-1)18baal. State claim 5391. F. W. Cottrell. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	29.7	Mar. 6	a 30.2	May 1	a 33.9	Nov. 28	31.2
Feb. 2	31.2	Apr. 1	a 31.7	June 21	30.6		

(A-2-1)18bab. Measurements discontinued.

(A-2-1)18cab8. Measurements discontinued.

(A-2-1)18dba. Measurements discontinued.

(A-2-1)18dba3. State claim 10464. A. E. M. Bangerter. Record begins in 1938.

Water level, in feet above measure point, 1940

Jan. 2	6.9	Mar. 6	a 6.2	May 1	a 9.2	Nov. 28	6.1
Feb. 2	6.7	Apr. 2	a 7.0	June 21	8.2		

(A-2-1)18dbd. Measurements discontinued.

(A-2-1)18ddcl. Measurements discontinued.

(A-2-1)19aadl. State claim 2059. Moses Holbrook. Record begins in 1937.

Water level, in feet below measuring point, 1940

Jan. 2	67.83	Mar. 7	a 67.48	Apr. 2	a 65.14	June 2[illegible]	64.81
Feb. 2	66.37	30	65.16	May 2	a 65.00	Nov. 28	65.20

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Davis County--Continued.

(A-2-1)19dbc1. State claim 1447. Bountiful City Corp. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	73.76	Mar. 7	74.39	May 2	70.18	Nov. 28	74.51
Feb. 1	74.21	Apr. 2	73.52	June 21	68.70		

(A-3-1)31bdd1. Measurements discontinued.

(A-3-1)31cbc1. State claim 12505. R. A. Moss. Record begins in 1936.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Jan. 2	b 10.4	1.8	May 1	ab 8.2	....
Feb. 2	b 10.7	1.9	June 21	b 10.0	1.9
Mar. 6	ab 8.5	1.8	Nov. 28	b 9.9	....
Apr. 1	ab 7.6	....			

(B-2-1)13acc2. Measurements discontinued.

(B-2-1)24aab7. Measurements discontinued.

(B-2-1)25bad2. State claim 12452. Myrtle Hatch. Record begins in 1935.

Water level, in feet with reference to measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	b +0.87	Mar. 30	b +0.17	May 2	ab +0.82	Nov. 28	-0.88
Feb. 2	b +0.59	Apr. 2	ab +0.30	June 21	-0.85		

(B-2-1)26aad1. State claim 3656. Clyde Hatch. Record begins in 1935.

Water level, in feet above measuring point, 1940

Jan. 2	42.6	Mar. 7	a 41.9	May 2	a 41.3	Nov. 28	40.3
Feb. 2	42.1	Apr. 2	a 41.4	June 21	37.4		

(B-2-1)27ddd4. State claim 12034. Albert Thalman. Record begins in 1936.

Water level, in feet above measuring point, 1940

Jan. 2	28.5	Mar. 7	a 28.0	May 2	a 23.4	Nov. 28	26.7
Feb. 2	28.6	Apr. 2	a 27.4	June 21	18.3		

(B-2-1)34ada3. State claim 9308. M. H. Dearden. Record begins in 1936.

Water level, in feet above measuring point, 1940

Jan. 2	18.7	Mar. 7	a 18.4	May 2	a 14.4	Nov. 28	13.6
Feb. 2	18.6	Apr. 2	a 18.5	June 21	10.2		

(B-2-1)35ada6. State claim 949. A. I. Lemon. Measurements by W. S. Lemon. Record begins in 1935.

Water level, in feet above measuring point, 1940

Jan. 12	11.07	Jan. 30	10.87	Feb. 25	10.98	Mar. 22	11.15
14	11.07	Feb. 1	10.83	27	10.99	25	10.72
17	11.08	4	10.81	Mar. 1	10.93	29	10.08
20	11.08	8	10.88	3	10.94	Apr. 8	10.12
25	11.06	14	10.89	14	10.91	15	11.06
26	11.07	17	10.96	18	11.06	20	10.33
27	11.06	20	11.06	20	11.08	25	10.50

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

Davis County--Continued.

(B-2-1)35ada6. State claim 949. A. I. Lemon.--Continued.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 30	10.24	Aug. 14	5.86	Sept. 12	5.72	Oct. 2	6.24
May 1	10.10	18	5.73	14	5.82	5	6.20
3	9.38	22	5.84	16	5.88	9	6.32
6	9.20	24	5.92	17	5.86	12	6.45
11	9.20	29	5.78	20	5.95	16	6.42
15	8.74	Sept. 1	5.63	24	5.95	20	6.40
21	8.58	7	5.59	27	6.22	25	6.40

(B-2-1)36bad2. State claim 4550. M. P. Parkin. Record begins in 1936. Measurements between June 6, 1939 and October 6, 1939 (W.S.P.886) do not show the true static level in well. Plug removed prior to measurement of June 21, 1940. Water levels, in feet below measuring point, 1940: June 21, 21.93; Nov. 28, 22.32.

(B-2-1)36bbd1. State claim 951. A. I. Lemon. Record begins in 1934.

Water level, at noon, in feet, with reference to measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+3.0	+3.2	+3.3	+3.5	+2.8	+1.8	+1.1	+0.8	-0.1	-0.5	0.0	+2.0
2	+3.0	+3.3	+3.4	+3.0	+3.0	+1.6	+1.4	+0.6	-0.2	-0.5	+0.4	+1.7
3	....	+3.4	+3.3	+3.3	+2.9	+1.4	+1.5	+0.6	-0.6	-0.6	+0.2	+2.0
4	....	+3.2	+3.4	+3.3	+2.9	+1.8	+1.5	+0.6	-0.6	-0.4	+0.4	+1.8
5	....	+3.0	+3.4	+3.3	+2.4	+0.9	+1.5	+0.6	-0.6	-0.2	+0.7	+1.8
6	....	+3.2	+3.3	+3.0	+2.3	+1.4	+1.5	+0.5	-0.6	-0.3	+1.0	+1.8
7	....	+3.3	+3.3	+3.2	+2.3	+1.8	+1.4	+0.5	-0.4	-0.2	+1.2	+2.0
8	....	+3.0	+3.6	+3.2	+2.3	+1.4	+1.2	+0.5	-0.4	-0.2	+1.3	+2.0
9	....	+3.2	+3.5	+3.3	+2.2	+1.4	+1.2	+0.5	-0.4	-0.3	+1.5	+1.7
10	+3.3	+3.4	+3.5	+3.1	+2.3	+1.5	+1.2	+0.5	-0.4	-0.5	+1.0	+1.8
11	+3.0	+3.1	+3.2	+3.2	+2.6	+1.9	+1.4	+0.4	-0.3	-0.4	+1.0	+1.7
12	+2.8	+3.0	+3.2	+3.4	+2.4	+1.9	+1.5	+0.4	-0.4	-0.3	+1.0	+1.6
13	+2.7	+3.2	+3.1	+3.6	+2.0	+1.8	+1.5	+0.3	-0.4	-0.1	+1.1	+1.6
14	+3.0	+3.5	+3.3	+3.9	+2.2	+1.8	+1.5	+0.2	-0.4	-0.2	+1.1	+1.7
15	+3.2	+3.5	+3.5	+3.8	+2.0	+1.7	+1.5	+0.2	-0.4	-0.2	+1.2	+1.7
16	+3.2	+3.2	+3.8	+3.6	+1.9	+1.7	+1.1	+0.2	-0.4	0.0	+1.5	+1.8
17	+3.2	+3.3	+3.5	+3.5	+2.0	+1.7	+1.3	+0.2	-0.4	0.0	+1.5	+2.2
18	+3.3	+3.2	+3.3	+3.6	+1.9	+1.8	+1.0	+0.1	-0.5	-0.1	+1.5	+2.0
19	+3.2	+3.2	+3.5	+3.8	+1.9	+1.8	+1.0	+0.2	-0.8	-0.1	+1.5	+1.8
20	+3.2	+3.1	+3.8	+3.5	+1.9	+1.6	+1.0	+0.2	-0.8	-0.1	+1.5	+1.7
21	+3.1	+3.2	+3.8	+3.2	+1.8	+1.5	+1.1	+0.2	-0.5	-0.1	+1.5	+1.9
22	+2.8	+3.4	+3.9	+3.3	+1.6	+1.5	+1.1	+0.3	-0.3	-0.1	+1.3	+2.0
23	+2.9	+3.4	+4.0	+3.5	+1.8	+1.4	+1.2	-0.2	-0.4	+0.1	+1.4	+2.3
24	+3.0	+3.5	+4.0	+3.3	+1.8	+1.4	+1.2	0.0	-0.4	+0.1	+1.5	+2.5
25	+3.0	+3.5	+4.0	+3.3	+1.9	+1.6	+1.1	0.0	-0.7	+0.1	+1.5	+2.3
26	+3.0	+3.4	+3.7	+3.3	+1.8	+1.5	+1.1	-0.1	-0.5	-0.1	+1.5	+2.0
27	+3.2	+3.5	+3.3	+2.9	+1.7	+1.5	+1.0	-0.1	-0.1	-0.3	+1.5	+2.4
28	+3.0	+3.8	+3.2	+2.9	+1.8	+1.5	+1.0	+0.0	-0.6	-0.4	+1.6	+2.0
29	+3.0	+3.8	+3.4	+2.6	+1.8	+1.5	+1.0	-0.2	-0.5	-0.1	+1.9	+2.2
30	+3.0	....	+3.5	+2.5	+1.8	+1.0	+0.8	-0.1	-0.5	-0.5	+2.0	+2.2
31	+3.1	....	+3.6	....	+1.8	....	+0.7	0.0	....	-0.5	....	+2.0

(B-2-1)36ccb1. State claim 17108. Farmers State Bank. Record begins in 1931.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	0.86	Mar. 7	a 1.36	May 2	a 2.69	Nov. 28	2.67
Feb. 2	1.41	Apr. 2	a 1.50	June 21	4.86		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Davis County--Continued.

(B-3-1)15aabl. State claim 8156. Drought Relief Administration. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 2	16.41	May 22	a 15.9	Nov. 28	16.48
Feb. 2	16.32	June 21	16.21		

(B-3-1)24aaa4. State claim 10019. Lagoon Resort. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	7.6	Mar. 6	a 8.3	May 1	a 8.4	Nov. 28	6.8
Feb. 2	8.25	Apr. 1	a 8.2	June 21	4.2		

(B-3-1)24aadl. State claim 10012. Lagoon Resort. Record begins in 1935.

Water level, in feet above measuring point, 1940

Jan. 2	6.6	Mar. 6	a 6.8	May 1	a 7.3	Nov. 28	6.0
Feb. 2	6.8	Apr. 1	a 6.6	June 21	6.2		

(B-3-1)24aad3. State claim 10010. Lagoon Resort. Record begins in 1935.

Water level, in feet above measuring point, 1940

Jan. 2	8.65	Mar. 6	a 8.5	May 1	a 8.8	Nov. 28	7.1
Feb. 2	8.65	Apr. 1	a 8.2				

(B-4-1)19cd. Charles Layton. Record begins in 1935.

Water level, in feet below measuring point, 1940

Jan. 2	0.17	Apr. 1	a 0.45	June 21	1.46	Nov. 28	2.82
Mar. 6	a 0.62	May 1	a 0.89				

(B-4-1)30ba. W. W. Evans. Record begins in 1935.

Water level, in feet below measuring point, 1940

Jan. 2	4.08	Mar. 6	a 4.34	May 1	a 3.67	Nov. 28	3.85
Feb. 2	4.32	Apr. 1	a 4.19	June 21	3.70		

(B-4-1)33bbbl. State claim 12013. J. E. Flint. Record begins in 1936.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Jan. 2	b 3.44	5.7	May 1	ab 2.30	4.2
Feb. 4	ab 3.4	5.56	June 21	b 2.00	3.9
Mar. 6	ab 3.15	5.36	Nov. 28	b 1.05	...
Apr. 1	ab 2.40	5.15			

(B-4-1)34cbc3. State claim 14733. Kaysville Canning Corp. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 2	5.09	Mar. 6	a 5.08	May 1	a 5.39
Feb. 2	4.99	Apr. 1	a 5.14	Nov. 28	6.36

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

Davis County--Continued.

(B-4-2)1dccl. State claim 8139. Drought Relief Administration. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 2	176.49	Mar. 30	176.60	Nov. 28	177.57
Feb. 1	176.45	June 21	176.92		

(B-4-2)9caal. State claim 11285. A. D. Miller. Record begins in 1937.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	21.9	Mar. 6	a 22.2	May 1	ab 20.8	Nov. 28	b 19.2
Feb. 3	21.7	Apr. 1	a 21.2	June 21	b 16.6		

(B-4-2)10daal. State claim 8143. Drought Relief Administration. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 2	36.82	Mar. 30	36.82	Nov. 28	38.76
Feb. 2	36.49	June 21	c 48.2		

(B-4-2)16adal. (B-4-2)16ada2 in Water Supply Paper No. 886. State claim 12573. C. W. Smedley. Record begins in 1937. Measurements discontinued after November 28, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	21.75	Mar. 6	a 21.3	May 1	a 21.5	Nov. 28	20.2
Feb. 3	20.4	Apr. 1	a 21.7	June 21	16.8		

(B-4-2)20bbbl. State claim 12532. George Sandoz. Record begins in 1937.

Water level, in feet above measuring point, 1940

Jan. 2	30.6	Mar. 6	a 29.4	May 1	a 29.2	Nov. 28	27.5
Feb. 3	30.95	Apr. 1	a 29.5	June 21	b 18.35		

(B-5-1)29bdbl. No measurements in 1940.

(B-5-2)25bbcl. State application 11838. Drought Relief Administration. Record begins in 1936. Water levels, in feet below measuring point, 1940: Jan. 2, 185.89; Feb. 1, 185.75; Mar. 30, 185.60: pump installed. Measurements discontinued.

(B-5-3)36adal. State claim 3074. Mary Stoddard. Record begins in 1935.

Water level, in feet above measuring point, 1940

Jan. 2	28.2	Mar. 6	a 29.55	May 1	a 29.8	Dec. 18	26.3
Feb. 3	28.7	Apr. 1	a 29.6	June 22	25.5		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

c Pumping.

Duchesne County

U(B-1-1)31ddb. Morris Woodward. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 24, 7.53.

U(B-4-3)2badl. State application 12553. Duchesne City. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 23, 2.54. Water draining into well at time of measuremert, water level probably fluctuates with river stages.

U(C-1-2)4adcl. State claim 8162. Drought Relief Administration. Record begins in 1936. Pump stopped 10 minutes before measuring. Water level, in feet below measuring point, 1940: Sept. 24, 16.30.

U(C-1-2)15bbcl. State claim 2152. R. M. Clarke. Found flowing 4.0 gallons per minute prior to measurement. Water level, in feet above measuring point, 1940: Sept. 24, 10.8.

U(C-1-2)27aaa. State claim 8169. Drought Relief Administration. Record begins in 1935. Found flowing 5.4 gallons per minute prior to measurement. Water level, in feet above measuring point, 1940: Sept. 24, 13.6.

U(C-1-3)28dcdl. D. H. Allred. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 23, 10.82.

U(C-1-3)31cca5. R. A. Lister. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 23, 5.05.

U(C-1-4)14aadl. State application 12748. U. S. Forest Service. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 23, 3.84.

U(C-1-4)28dccl. State claim 8170. Drought Relief Administration. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 23, 3.47.

U(C-1-5)13ada2. State claim 6006. Brigham Stephenson. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 23, 12.38.

U(C-1-5)13ada3. State claim 8165. Drought Relief Administration. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 23, 5.24.

U(C-2-1)15ddcl. State application 12977. R. Q. Warnock. Water pressure too high for pressure gage, Sept. 23, 1940. Pressure head above 53 feet. Measurements discontinued.

U(C-2-1)20dcdl. No measurement in 1940.

U(C-2-1)22bb. State application 12440. E. H. Peterson. Record begins in 1937. Water level, in feet above measuring point, 1940: Sept. 23, 41.0.

U(C-2-1)22bcbl. State claim 958. Stephen Wogac. Record begins in 1935. Water level, in feet above measuring point, 1940: Sept. 23, 36.0.

U(C-2-2)13cccl. State claim 1861. J. O. Griffin. Record begins in 1939. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Sept. 24, 1.00.

U(C-2-2)23bacl. State claim 1658. City of Roosevelt. Record begins in 1935. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Sept. 24, 10.9.

U(C-2-3)10dad. George Vangundy. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 23, 18.45.

U(C-2-3)28da. Drought Relief Administration. Record begins in 1935. Water level, in feet below measuring point, 1940: Sept. 23, 2.10.

Duchesne County--Continued.

U(C-2-3)33ccd1. Eldon B. Thompson. Record begins in 1939. Found flowing 0.25 gallon per minute prior to measurement. Water level, in feet above measuring point, 1940: Sept. 23, 4.5.

U(C-2-5)2bbc1. State claim 8161. Drought Relief Administration. Record begins in 1935. Water level, in feet below measuring point, 1940: Sept. 23, 5.97.

U(C-2-5)2bc. Talmadge School. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 23, 5.48.

U(C-3-3)8cddl. Henry Richins. Record begins in 1936. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Sept. 23, 11.5.

U(C-3-3)17da. Frank Horricks. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 23, 8.15.

U(C-3-4)7cal. Knight Investment Co. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 23, 99.40. Measurements discontinued.

U(C-3-4)7ca2. Knight Investment Co. Record begins in 1938. Water level, in feet below measuring point, 1940: Sept. 23, 122.90.

U(C-3-4)21aa. Knight Investment Co. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 23, 98.98.

U(C-3-4)22ba. Knight Investment Co. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 23, 151.5[illegible].

U(C-3-5)36dc. Well destroyed.

U(C-4-2)5bb. Drought Relief Administration. Record begins in 1935. Water level, in feet below measuring point, 1940: Sept. 23, 4.27.

U(C-4-3)3cb. State claim 13129. Roy Taylor. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 23, 9.05.

U(C-4-3)4bdc1. State application 12568. U. S. Bureau of Reclamation. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 23, 2.65.

Garfield County

(C-31-2)10cb. Gus Lambson. Record begins in 1937. Water levels, in feet below measuring point, 1940: Mar. 25, 16.65; Dec. 7, 14.27.

(C-32-2)2. T. W. Roberts. Record begins in 1937. Water levels, in feet below measuring point, 1940: Mar. 25, 15.75; Dec. 7, 15.32.

(C-33-5)16cd. W. C. Tebbs. Record begins in 1935. Water levels, in feet below measuring point, 1940: Mar. 25, 15.22; Aug. 5, 15.35; Dec. 7, 15.44.

(C-33-5)28bcd1. State application 11739. Annie Wilcock. Record begins in 1937. Water levels, in feet below measuring point, 1940: Mar. 26, 41.13; Aug. 5, 43.18; Dec. 7, 46.55.

(C-34-5)8adb2. D. Woodward. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 25	14.50	Aug. 28	10.50	Nov. 14	13.1	Dec. 7	13.73
Aug. 5	8.75	Oct. 25	12.20	28	13.4		

Garfield County--Continued.

(C-34-5)28db. Reed Hayward. Record begins in 1936. Water levels, in feet below measuring point, 1940: Mar. 25, 16.68; Dec. 7, 13.92.

(C-35-4)34dca1. State claim 5140. Chas. and Will Proctor. Record begins in 1938. Water levels, in feet below measuring point, 1940: Mar. 25, 6.20; Sept. 16, 9.60; Dec. 7, 8.71.

(C-36-3)7. J. A. Cope. Record begins in 1938. Water levels, in feet below measuring point, 1940: Mar. 25, 4.30; Sept. 16, 7.50; Dec. 7, 6.60.

(C-36-3)18bdc1. State claim 9492. Measurements discontinued.

(C-36-3)18bdd1. R. G. Syrett. Record begins in 1938. Water levels, in feet below measuring point, 1940: Mar. 25, 89.93; Sept. 16, 84.09.

(C-36-5)29da. J. A. Yardley. Record begins in 1935. Water levels, in feet below measuring point, 1940: Mar. 25, 33.47; Dec. 7, 29.75.

Iron County - Cedar City Valley

(C-33-10)31adb1. State claim 17645. C. A. Hatch. Water levels, in feet below measuring point, 1940: Apr. 1, a/54.02; May 1, a/54.08; June 12, 54.62. Measurements discontinued.

(C-33-11)29ccb1. J. S. Green. Measurements discontinued.

(C-33-11)30ddd1. State claim 6005. G. P. Stapley. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Apr. 1	a 35.14	May 1	a 35.01	Dec. 2	35.58
24	35.02	June 4	a 34.99		

(C-33-11)31aad1. Measurements discontinued.

(C-33-11)33dbb1. State claim 5137. T. R. Adams and Bros. Water levels, in feet below measuring point, 1940: Apr. 1, a/10.76; May 1, a/10.78; June 11, 11.17. Measurements discontinued.

(C-33-12)11aaa1. State claim 2239. Mortenson and Holyoak. Water level, in feet below measuring point, 1940: Apr. 24, 37.00. Measurements discontinued.

(C-33-12)14dca1. State claim 2240. Mortenson and Holyoak. Water levels, in feet below measuring point, 1940: Apr. 1, a/46.18; Apr. 24, 46.20; May 1, a/46.25. Measurements discontinued.

(C-34-10)6ccc1. State claim 11213. Benson and Orton. Record begins in 1938. Water level, in feet below measuring point, 1940: Apr. 1, a/13.22. New measuring point, top end of timber at northwest corner of curb, at land surface, about 3 feet below old measuring point. Measurements after Apr. 1 below new measuring point: May 1, a/9.20; June 12, 10.1; June 19, a/10.25; Dec. 2, 10.38.

(C-34-10)31cbc1. Myron S. Jones. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 2, a/0.40; May 2, a/0.10; June 20, a/0.40; Dec. 2, 0.79.

(C-34-11)2dda1. U. S. Geol. Survey test well. On Webster Bettridge's property.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 11	2.66	June 9	4.08	June 12	4.18	June 15	4.29
June 6	3.98	10	4.10	13	4.26	16	4.33
8	b 4.05	11	4.13	14	4.25	17	4.36

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Water stage recorder installed.

Iron County - Cedar City Valley--Continued

(C-34-11)2ddal.--Continued.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 18	4.40	June 30	4.78	July 16	5.15	July 27	5.34
19	4.43	July 1	4.76	17	5.15	28	5.37
20	4.47	2	4.75	18	5.15	29	5.40
21	4.52	3	4.78	19	5.16	30	5.42
22	4.55	4	4.81	20	5.17	31	5.45
23	4.59	5	4.83	21	5.19	Aug. 1	5.47
24	4.62	6	4.87	22	5.20	2	5.49
25	4.66	7	4.90	23	5.23	3	5.52
26	4.69	8	4.93	24	5.25	4	5.54
27	4.72	9	4.97	25	5.28	5	5.55
28	4.75	10	5.00	26	5.31	6	a 5.57
29	4.78						

(C-34-11)3ccb1. State claim 11587. H. L. Adams. New measuring point, top of ell, 0.36 foot above old measuring point and 5384.96 feet above sea level. Water levels, in feet below measuring point, 1940: Apr. 1, b/0.10; Apr. 11, 0.22; May 1, b/0.17; June 11, 0.25. Measurements discontinued.

(C-34-11)3ccb2. U. S. Geol. Survey test hole. On H. L. Adams' property. Water levels, in feet below measuring point, 1940: Apr. 11, 2.01; June 11, 2.94. Measurements discontinued.

(C-34-11)4bdd1. U. S. Geol. Survey test well. On H. L. Adams' property. Water levels, in feet below measuring point, 1940: Apr. 11, 18.52; June 11, 19.71. Measurements discontinued.

(C-34-11)5cda1. Public Land. Water levels, in feet below measuring point, 1940: Apr. 1, b/28.13; May 1, b/28.06. Measurements discontinued.

(C-34-11)9ccd1. State claim 5226. Measurements discontinued.

(C-34-11)9cdc1. Don Carlos Evans. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 1, b/22.55; May 1, b/22.47; June 13, b/22.62; Dec. 2, 23.13.

(C-34-11)10cbd1. U. S. Geol. Survey test well. On Sarah Evans' property. Water levels, in feet below measuring point, 1940: Apr.11, 18.01; June 12, 18.86. Measurements discontinued.

(C-34-11)10dcb1. (C-34-11)10ddd in Water Supply Paper 886. Public Land. Water level, in feet below measuring point, 1940: Apr. 11, 18.28. Measurements discontinued.

(C-34-11)11ccb1. U. S. Geol. Survey test well. On Webster Bettridge's property. Water levels, in feet below measuring point, 1940: Apr. 11, 10.52; June 7, 10.67. Measurements discontinued.

(C-34-11)13bab1. State claim 10293. Dr. J. W. Bergstrom (formerly Matilda Bettridge). Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 1, b/1.62; Apr. 11, 1.52; May 1, b/1.43; June 12, 1.38. Measurements discontinued.

(C-34-11)13bab2. U. S. Geol. Survey test well. On J. W. Bergstrom's property. Water levels, in feet below measuring point, 1940: Apr. 11, 7.10; June 12, 7.86. Measurements discontinued.

(C-34-11)15bab1. (C-34-11)15bab in Water Supply Paper 886. E. L. Childs. Water levels, in feet below measuring point, 1940: Apr. 1, b/17.52; May 1, b/17.50; June 11, 17.87. Measurements discontinued.

a Water level recorder removed. Measurements discontinued.

b Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Iron County - Cedar City Valley--Continued.

(C-34-11)20ddd1. State claim 2824. E. E. Williams. Water levels, in feet below measuring point, 1940: Apr. 1, a/21.76; Apr. 9, 21.72; May 2, a/21.69. Measurements discontinued.

(C-34-11)22bda1. Iron County. Water levels, in feet below measuring point, 1940: Apr. 2, a/16.13; May 2, a/16.13. Measurements discontinued.

(C-34-11)22ccc1. State claim 4876. E. L. Crooks. Water levels, in feet below measuring point, 1940: Apr. 2, a/16.69; May 2, a/16.68; June 11, 17.13. Measurements discontinued.

(C-34-11)29bad1. E. E. Williams. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Apr. 2	a 24.90	May 2	a 24.89	Dec. 2	25.22
9	24.90	June 19	a 24.93		

(C-34-11)29ddd1. George Parry. Diameter 3 inches. Measuring point, top of concrete pump foundation, 0.4 foot above land surface and 5443.34 feet above sea level. Water level, in feet below measuring point, 1940: July 16, 16.75. Measurements discontinued.

(C-34-11)32cba1. State claim 17514. David Murie. Diameter 72 inches, depth 26 feet. Measuring point, top of board spanning well on north side, 1.0 foot above land surface and 5458.65 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 9, 23.42. Measurements discontinued.

(C-34-11)33acc1. State claim 17688. Perry Mackelprong. Water levels, in feet below measuring point, 1940: Apr. 2, a/14.63; May 2, a/15.08. Measurements discontinued.

(C-34-11)34aaa1. U. S. Geol. Survey test well. On Wm. H. Wood's property. Water level, in feet below measuring point, 1940: Apr. 11, 20.12. Measurements discontinued.

(C-34-11)36adc1. State claim 13704. S. M. Clark. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 3, a/5.75; May 2, a/6.85; June 11, 7.15. Measurements discontinued.

(C-34-11)36cbc2. State claim 10820. George Grimshaw. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 2, a/17.63; May 2, a/17.60; June 20, a/18.11; Dec. 2, 18.73.

(C-35-10)7cad1. State application 12056. J. M. Jones. Measurements discontinued after May 2, 1940.

Water level, in feet below measuring point, 1940

Jan. 12	a 34.33	Mar. 12	a 34.00	May 2	ab 48.45
Feb. 12	a 34.27	Apr. 2	ab 44.91		

(C-35-10)7cdd1. State claim 15342. Measurements discontinued.

(C-35-10)18cba1. Richard Williams, Enoch. Diameter 3 inches. Measuring point, top of concrete pump base, 5.0 feet below land surface and 5552.53 feet above sea level. Water level, in feet below measuring point, 1940: Mar. 14, 34.70. Measurements discontinued.

(C-35-10)18cbb1. Richard Williams. Record begins in 1937. Owner given as Parson Webster in Water Supply Paper 886.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	a 46.26	Apr. 2	a 47.60	May 17	a 52.60	Dec. 2	51.27
Mar. 12	a 45.23	May 2	a 51.49	June 19	a 53.70		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumping.

Iron County - Cedar City Valley--Continued.

(C-35-11)1accl. State claim 8964. J. N. Smith and Douglas Clark. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 11, 10.25; June 11, 8.6. Measurements discontinued.

(C-35-11)1cdcl. State claim 17278. Ray Grimshaw. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	a 3.15	Mar. 12	a 3.00	May 2	a 3.35	June 17	a 4.25
Feb. 12	a 3.25	Apr. 2	a 2.93	17	a 3.60	Dec. 2	4.60

(C-35-11)2dddl. State claim 13751. Frank Grimshaw. Measurements discontinued after May 2, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 12	a 15.37	Mar. 12	a 14.84	May 2	a 14.39
Feb. 12	a 15.20	Apr. 2	a 14.49		

(C-35-11)4bbdl. State claim 14009. Wm. H. Wood. Measurements discontinued after June 11, 1940.

Water level, in feet below measuring point, 1940

Jan. 12	a 5.21	Mar. 12	a 5.55	May 2	a 5.88
Feb. 12	a 5.42	Apr. 2	a 5.67	June 11	6.26

(C-35-11)4bbd2. Wm. H. Wood. Measurements discontinued after June 11, 1940.

Water level, in feet below measuring point, 1940

Jan. 12	a 12.14	Mar. 12	a 11.75	May 2	a 13.29
Feb. 12	a 11.95	Apr. 2	a 11.63	June 11	14.63

(C-35-11)4cadl. State claim 10359. H. W. Webster, Cedar City. Diameter 2 inches. Measuring point, end of 2 inch outlet pipe (slope distance through pipe), 1.7 feet above land surface and 5470.60 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 3, 2.30. Measurements discontinued.

(C-35-11)4cad2. H. W. Webster, Cedar City. Diameter 3½ inches. Measuring point, top of 3 inch casing, 1.5 feet above land surface and 5469.55 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 3, 7.80. Measurements discontinued.

(C-35-11)4ddal. State claim 5121. Federal Land Bank. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	a 2.67	Apr. 2	a 2.20	May 17	a 6.25	June 17	a 10.05
Feb. 12	a 2.53	May 2	a 4.97	June 11	7.52	Dec. 2	6.05
Mar. 12	a 2.31						

(C-35-11)4dda2. Federal Land Bank. Measurements discontinued after June 11, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 12	a 9.56	Mar. 12	a 9.54	May 2	a 11.00
Feb. 12	a 9.14	Apr. 2	a 9.08	June 11	13.00

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Iron County - Cedar City Valley--Continued.

(C-35-11)5bcdl. State claim 17336. Trehorne Leigh. Measurements discontinued after May 2, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 12	a 25.00	Mar. 12	a 24.75	May 2	a 24.69
Feb. 12	a 24.92	Apr. 2	a 24.72		

(C-35-11)8cddl. State claim 13703. Charles Corry. Record begins in 1937.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.72	12.28	12.01	11.91	b18.18	.....	b22.76	b22.62	....	....	....	....
2	12.66	12.33	11.98	11.83	b18.34	.....	b23.65	b23.62	....	....	....	15.22
3	12.65	12.30	11.98	11.80	b19.15	.....	b22.14	24.19	....	....	....	....
4	12.67	12.29	11.96	11.92	b18.70	.....	b22.46	24.26	....	....	....	....
5	12.59	12.34	11.92	12.12	b18.48	.....	b22.57	c24.35	....	....	....	....
6	12.57	12.29	11.95	12.34	b17.59	.....	b21.80	.....	....	....	....	....
7	12.59	12.28	12.09	12.48	b17.95	21.13	b21.15	.....	....	....	....	....
8	12.60	12.26	11.92	12.69	b17.62	b20.88	b21.84	.....	....	....	....	....
9	12.59	12.33	12.00	b12.76	b16.83	b21.10	b21.04	.....	....	....	....	....
10	12.56	12.26	11.88	b14.37	b16.66	b21.80	21.65	.....	....	....	....	....
11	.....	12.28	11.86	b15.82	b18.05	b22.14	.....	.....	....	....	....	....
12	.....	12.24	11.95	b14.81	b17.63	22.40	.....	.....	....	....	....	....
13	.....	12.30	11.93	b14.45	b17.53	22.20	.....	.....	....	....	....	....
14	12.54	12.21	11.90	b14.84	b17.06	22.10	.....	.....	....	....	....	....
15	12.57	12.15	11.87	.....	b17.99	b21.46	23.43	.....	....	....	....	....
16	12.56	12.31	11.90	.....	b18.74	b21.95	b22.15	.....	....	....	....	....
17	12.54	12.17	11.86	.....	b18.34	b22.05	b22.45	.....	....	....	....	....
18	12.46	12.13	11.86	b17.70	19.35	23.33	b22.98	.....	....	....	....	....
19	12.46	12.15	11.92	b18.23	b19.32	.....	b22.20	.....	....	....	....	....
20	12.47	12.22	11.84	18.43	b19.86	22.28	b22.50	.....	....	....	....	....
21	12.43	12.12	11.81	b17.72	b20.06	22.53	23.39	.....	....	....	....	....
22	12.47	12.06	11.97	b18.32	20.55	22.50	b21.50	.....	....	....	....	....
23	12.46	12.08	11.81	b18.58	b20.65	22.62	b22.76	.....	....	....	....	....
24	12.39	12.22	11.82	b17.77	21.00	22.71	23.42	.....	....	....	....	....
25	12.45	12.08	11.78	b17.76	21.11	22.76	23.31	.....	....	....	....	....
26	12.41	12.02	12.00	b18.30	21.21	22.75	23.48	.....	....	....	....	....
27	12.41	12.02	11.95	b17.22	b19.90	b21.77	b23.03	.....	....	....	....	....
28	12.40	12.10	11.90	b16.69	b21.00	b21.88	b23.20	.....	....	....	....	....
29	12.47	12.01	11.90	b18.35	21.33	b22.28	23.93	.....	....	....	....	....
30	12.36	.....	11.85	b17.97	21.42	b22.84	b23.60	.....	....	....	....	....
31	12.32	.....	11.83	.....	.....	.....	b23.70	.....	....	....	....	....

(C-35-11)8dddl. State claim 11597. Ira Heaton. Diameter 5 inches. Measuring point, top of 2 inch windmill discharge pipe, 3.0 feet below land surface and 5491.6 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 3, 12.00. Measurements discontinued.

(C-35-11)9abdl. State claim 13700. Thomas J. and Ada Webster. Diameter 2 inches, depth 203 feet. Measuring point, top of collar on casing, 1.0 foot above land surface and 5479.57 feet above sea level. Measurements discontinued after April 3, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 12, 1938	a 7.16	Aug. 13, 1938	a 9.95	Mar. 14, 1940	a 6.36
June 9	a 6.4	Sept. 8	a 10.66	Apr. 3	6.23
July 16	a 8.98				

(C-35-11)9addl. Federal Land Bank. Measurements discontinued after June 11, 1940.

Water level, in feet with reference to measuring point, 1940

Jan. 12	a +3.51	Mar. 12	a +4.75	May 2	a -1.06
Feb. 12	a +3.7	Apr. 3	a +4.8	June 11	-4.96

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b High water level for 24 hours; daily fluctuation greater than 0.2 foot.

c Water-stage recorder removed.

Iron County - Cedar City Valley--Continued.

(C-35-11)9bcdl. State claim 13475. J. C. Heaton and L. B. Corry. Diameter 2 inches, depth 130 feet. Measuring point, bottom of hole in casing, 0.2 foot above land surface and 5480.18 feet above sea level. Measurements discontinued after April 3, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 12, 1938	a 7.39	Aug. 13, 1938	a 10.39	Mar. 14, 1940	a 6.05
June 9	a 7.23	Sept. 8	a 10.71	Apr. 3	5.94
July 12	a 9.5				

(C-35-11)9dbdl. Le Roy Bauer, Cedar City. Diameter 2 inches. Measuring point, top of casing, 1.5 feet above land surface and 5488.46 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 3, 10.40. Measurements discontinued.

(C-35-11)10bbdl. State claim 6738. Federal Land Bank. Diameter 2 inches, depth 215 feet. Measuring point, top of casing, and 5481.08 feet above sea level. Measurements discontinued after April 3, 1940.

Water level, in feet below measuring point, 1938, 1940

May 11, 1938	a 4.07	Aug. 13, 1938	a 14.17	May 14, 1940	a 9.56
June 9	a 0.42	Sept. 8	a 16.08	Apr. 3	9.22
July 13	a 11.20				

(C-35-11)10cccl. State claim 6739. Federal Land Bank. Diameter 8 inches, depth 459 feet. Measuring point, top of concrete curbing. Measurements discontinued after June 21, 1940.

Water level, in feet below measuring point, 1938, 1940

May 12, 1938	a 4.42	Apr. 3, 1940	5.17	Apr. 27, 1940	b 15.80
June 9	a 3.75	14	a 5.02	June 21	c 25.23

(C-35-11)10ccdl. State claim 6741. Federal Land Bank, Berkley. Diameter 2 inches, depth 145 feet. Measuring point, top of tee on casing, 1.0 foot above land surface and 5495.63 feet above sea level. Water levels, in feet below measuring point: May 11, 1938, a/5.03; June 9, 1938, a/3.45; Mar. 14, 1940, a/5.70; Apr. 3, 1940, 4.95. Measurements discontinued.

(C-35-11)10cddl. State claim 6740. Federal Land Bank. Diameter 8 inches, depth 499 feet. Measuring point, top of concrete foundation, 1.0 foot above land surface and 5494.82 feet above sea level. Measurements discontinued after April 3, 1940.

Water level, in feet below measuring point, 1938, 1940

May 11, 1938	a 1.0	July 13, 1938	a 3.95	Sept. 8, 1938	a 7.19
June 9	a 1.41	Aug. 13	a 4.34	Apr. 3, 1940	1.03

(C-35-11)10dbd3. State claim 13701. Owen Matheson. Found flowing prior to all pressure measurements. Measurements discontinued after May 2, 1940.

Water level, in feet, with reference to measuring point, 1940

Jan. 13	a +0.86	Mar. 12	a +2.65	May 2	a -0.54
Feb. 12	a +2.52	Apr. 3	a +2.43		

(C-35-11)10dddl. State claim 17218. Olive Maxwell. Diameter 4 inches, depth 166 feet. Measuring point, top of casing, 0.7 foot above land surface and 5493.47 feet above sea level. Water level, in feet below measuring point, 1940: Mar. 14, a/11.14. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Probably pumped recently.

c Not pumping.

Iron County - Cedar City Valley--Continued.

(C-35-11)11accl. State claim 15815. Walker Davis. Measurements discontinued after May 3, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 12	a 14.27	Mar. 12	a 13.72	May 3	a 13.54
Feb. 12	a 13.97	Apr. 3	a 13.50		

(C-35-11)11dccl. State claim 5093. Clifton P. Halterman. Water level, in feet below measuring point, 1940: Apr. 1, 0.82. Measurements discontinued.

(C-35-11)12dddl. State application 12455. West Enoch Irrigation Association. Water levels, in feet below measuring point, 1940: Jan. 13, a/19.61; Feb. 12, a/18.88; Mar. 12, a/18.36. Measurements discontinued.

(C-35-11)13cacl. Arthur Bullock and Sons, Cedar City. Diameter 3 inches. Measuring point, top of 3 inch casing, 3.0 feet above land surface and 5508.22 feet above sea level. Measurements discontinued after July 19, 1940.

Water level, in feet below measuring point, 1938, 1940

June 9, 1938	a 3.77	Sept. 6, 1938	a 4.99	Apr. 1, 1940	3.68
July 7	a 3.38	Mar. 23, 1940	a 3.75	July 19	7.08
Aug. 12	a 4.47				

(C-35-11)13cac2. Arthur Bullock and Sons. Diameter 2 inches. Measuring point, top of 2 inch casing, 2.5 feet above land surface and 5507.18 feet above sea level. Measurements discontinued after July 19, 1940.

Water level, in feet below measuring point, 1938, 1940

June 9, 1938	a 1.04	Sept. 6, 1938	a 2.78	Apr. 1, 1940	0.82
July 7	a 1.21	Mar. 23, 1940	a 1.41	July 19	5.42
Aug. 12	a 1.22				

(C-35-11)13ddb2. State claim 8178. Drought Relief Administration. Measurements discontinued after May 3, 1940.

Water level, in feet below measuring point, 1940

Jan. 13	a 36.05	Mar. 12	a 34.81	Apr. 3	ab 52.18
Feb. 12	a 35.30	23	a 34.57	May 3	ab 56.41

(C-35-11)14bdbl. State claim 5054. Roice Nelson. Measurements discontinued after May 3, 1940.

Water level, in feet below measuring point, 1940

Jan. 13	a 9.24	Mar. 12	ab 11.63	May 3	ac 13.72
Feb. 13	a 9.18	23	a 9.23		

(C-35-11)14dabl. State claim 14000. David Murie. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	a 2.42	Mar. 12	a 2.44	May 3	ad 20.35	Dec. 2	5.30
Feb. 13	a 2.39	Apr. 3	ad 16.62	June 21	ad 22.54		

(C-35-11)14dddl. (C-35-11)23aaal in Water Supply Paper 840. State claim 14001. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumping.

c Not Pumping.

d Adjacent well pumping.

Iron County - Cedar City Valley--Continued.

(C-35-11)14ddd3. Geo. and David Murie. Measurements discontinued after April 3, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 13	a 22.28	Mar. 13	a 22.47	Apr. 3	a 22.38
Feb. 13	a 22.07	23	a 22.12		

(C-35-11)15aacl. State claim 1220. H. D. Haight. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	a 8.36	Mar. 13	a 8.33	May 3	a 8.43	Dec. 2	9.65
Feb. 13	a 8.64	Apr. 3	a 8.34	June 12	7.76		

(C-35-11)15dabl. Diameter 2 inches. Measuring point, top of ell on casing, 1.0 foot above land surface and 5515.04 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 27, 12.40. Measurements discontinued.

(C-35-11)15dba2. State claim 1213. Sherman Haight, Cedar City. Diameter 2 inches, depth 227 feet. Measuring point, top of casing, 0.6 foot above land surface and 5506.75 feet above sea level. Measurements discontinued after March 23, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 13, 1938	a 6.54	July 7, 1938	a 6.21	Sept. 6, 1938	a 7.28
June 7	a 6.80	Aug. 12	a 6.99	Mar. 23, 1940	a 5.04

(C-35-11)16aabl. State claim 10524. G. W. Perry, Cedar City. Diameter 6 inches, depth 115 feet. Measuring point, top of casing, 3.5 feet above land surface and 5499.53 feet above sea level. Water levels, in feet below measuring point, 1938 and 1940: May 16, 1938, a/6.5; June 9, 1938, a/5.3; Mar. 23, 1940, a/6.47. Measurements discontinued.

(C-35-11)16acbl. E. M. Owens, Enoch. Measuring point, top of casing at east side, level with land surface and 5495.22 feet above sea level. Water levels, in feet below measuring point, 1940: Mar. 23, a/2.93; Apr. 3, 3.00; May 3, a/2.66; June 11, 3.57. Measurements discontinued.

(C-35-11)16dbal. Mellin Bros. Incorrectly given as Maillin Bros. in Water Supply Paper 886. Measurements discontinued after July 19, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	a 6.27	Mar. 13	a 5.65	Apr. 3	a 6.11	June 11	b 27.08
Feb. 13	a 6.05	Apr. 1	5.43	May 3	a 12.50	July 19	b 28.90

(C-35-11)17acdl. State claims 12823 and 17234. Federal Land Bank. Diameter 2 inches, depth 114 feet. Measuring point, top of ell on casing, 1.3 feet above land surface and 5501.25 feet above sea level. Measurements discontinued after April 9, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 17, 1938	a 11.65	Aug. 13, 1938	a 12.40	Mar. 23, 1940	a 15.17
June 9	a 11.91	Sept. 8	a 12.92	Apr. 9	15.05
July 27	a 12.37				

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Adjacent well pumping.

Iron County - Cedar City Valley--Continued.

(C-35-11)17dcdl. State application 12341. H. B. Liston. Measurements discontinued after May 3, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 13	a 17.31	Mar. 13	a 17.00	May 3	a 20.46
Feb. 13	a 17.13	Apr. 3	a 16.86		

(C-35-11)19bdal. State claim 4882. John Sherratt. Measurements discontinued after May 3, 1940.

Water level, in feet below measuring point, 1940

Jan. 13	a 23.29	Mar. 13	a 21.05	May 3	a 28.47
Feb. 13	a 22.04	Apr. 3	a 25.43		

(C-35-11)20abdl. State claim 17333. K. L. Jones, Cedar City. Diameter 2 inches. Measuring point, top of ell on casing, 2.7 feet above land surface and 5515.72 feet above sea level. Measurements discontinued after April 9, 1940.

Water level, in feet below measuring point, 1938, 1939 and 1940.

May 10, 1938	a 13.50	Feb. 25, 1939	12.36	Mar. 25, 1939	12.07
June 27	a 18.49	Mar. 11	12.26	Apr. 3, 1940	14.25
Aug. 13	a 18.55	18	12.14	9	16.20
Sept. 9	a 19.35				

(C-35-11)21bacl. Henry H. McConnell. Measurements discontinued after May 8, 1940.

Water level, in feet below measuring point, 1940

Jan. 13	a 16.71	Mar. 13	a 15.68	May 8	a 24.55
Feb. 13	a 16.24	Apr. 3	a 15.74		

(C-35-11)21ccd2. State claim 4880. A. Frank Walker, Cedar City. Diameter 12 inches, depth 173 feet. Measuring point, base of pump, 0.6 foot above land surface and 5540.2 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 1, 31.47. Measurements discontinued.

(C-35-11)21dbdl. State claim 1222. Don C. Urie. Record begins in 1939.

Water level, at noon, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.45	26.03	25.71	25.26	26.38	27.83	29.14	30.38	31.34	30.85	30.49	30.10
2	26.43	26.05	25.65	25.29	26.40	27.87	29.18	30.42	31.27	30.82	30.48	30.08
3	26.42	26.04	25.64	25.26	26.44	27.94	29.20	30.46	31.34	30.84	30.46	30.05
4	26.38	26.03	25.64	25.30	26.49	27.96	29.23	30.47	31.38	30.83	30.48	30.04
5	26.37	26.04	25.60	25.37	26.54	28.00	29.27	30.50	31.42	30.93	30.44	30.02
6	26.38	26.00	25.62	25.44	26.58	28.06	29.34	30.54	31.48	30.93	30.43	30.02
7	26.37	25.97	25.59	25.47	26.64	28.09	29.35	30.50	31.37	30.87	30.41	30.01
8	26.35	26.00	25.55	25.52	26.70	28.15	29.39	30.59	31.34	30.79	30.39	29.98
9	26.34	25.99	25.52	25.55	26.72	28.21	29.46	30.62	31.21	30.80	30.35	29.96
10	26.33	25.93	25.51	25.59	26.71	28.25	29.51	30.64	31.13	30.78	30.39	29.95
11	26.32	25.91	25.53	25.62	26.78	28.26	.....	30.68	31.10	30.76	30.36	29.93
12	26.27	25.94	25.57	25.64	26.79	28.30	.....	30.71	31.07	30.73	30.36	29.92
13	26.32	25.90	25.50	25.62	26.85	28.35	.....	30.75	31.09	30.71	30.34	29.94
14	26.31	25.85	25.51	25.60	26.90	28.41	.....	30.78	31.16	30.70	30.33	29.93
15	26.30	25.87	25.48	25.56	26.94	28.46	29.74	30.81	31.13	30.67	30.30	29.91
16	26.26	25.92	25.46	25.62	26.94	28.50	29.75	30.86	31.07	30.64	30.22	29.87
17	26.22	25.86	25.48	25.71	26.92	28.54	29.75	30.90	31.07	30.63	30.25	29.85
18	26.22	25.82	25.42	25.71	27.00	28.60	29.82	30.91	31.02	30.62	30.22	29.86
19	26.23	25.85	25.45	25.70	27.06	28.64	29.86	30.92	31.00	30.60	30.23	29.85
20	26.21	25.83	25.42	25.72	27.10	28.69	29.91	30.93	30.97	30.61	30.23	29.83
21	26.20	25.79	25.41	25.73	27.17	28.75	29.96	30.93	30.96	30.69	30.19	29.80
22	26.19	25.76	25.40	25.74	27.24	28.80	29.99	30.96	30.95	30.74	30.21	29.77

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Iron County - Cedar City Valley--Continued.

(C-35-11)21dbdl.--Continued.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
23	26.17	25.78	25.38	25.74	27.30	28.86	29.98	30.97	30.92	30.78	30.21	29.75
24	26.16	25.78	25.38	25.86	27.43	28.90	30.04	30.95	30.91	30.79	30.17	29.73
25	26.16	25.73	25.35	25.99	27.47	28.94	30.03	31.03	30.92	30.71	30.15	29.77
26	26.15	25.72	25.34	26.07	27.52	28.97	30.11	31.11	30.91	30.64	30.16	29.76
27	26.15	25.73	25.33	26.15	27.59	29.01	30.17	31.14	30.89	30.61	30.14	29.71
28	26.13	25.70	25.33	26.23	27.63	29.07	30.23	31.18	30.90	30.60	30.11	29.71
29	26.11	25.67	25.32	26.29	27.69	29.11	30.28	31.24	30.89	30.56	30.09	29.69
30	26.08	.....	25.29	26.35	27.74	29.13	30.31	31.27	30.87	30.55	30.09	29.68
31	26.06	.....	25.27	.....	.....	.....	30.35	31.32	.....	30.51	.....	29.69

(C-35-11)21dccl. State claim 11599. Wilford Fife. Record begins in 1931.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	a 29.12	Apr. 1	27.90	May 8	ab 54.10	June 25	ab 61.15
Feb. 13	a 28.65	3	a 27.94	27	ab 54.65	Dec. 2	33.55
Mar. 13	a 28.19						

(C-35-11)22aabl. Measurements discontinued.

(C-35-11)22acbl. State claim 6801. Federal Land Bank. Measurements discontinued after June 12, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 13	a 10.03	Mar. 13	a 10.75	May 8	ab 24.60
Feb. 13	a 9.73	Apr. 3	a 11.03	June 12	12.87

(C-35-11)22adcl. Measurements discontinued.

(C-35-11)22dacl. State claim 15884. Myron F. Higbee, Cedar City. Diameter 4 inches, depth 82 feet. Measuring point, at opening in top of concrete well cover, 0.5 foot above land surface and 5535.00 feet above sea level. Measurements discontinued after April 3, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 19, 1938	a 24.9	July 27, 1938	a 23.68	Sept. 6, 1938	a 25.62
June 13	a 21.67	Aug. 13	a 24.70	Apr. 3, 1940	27.50

(C-35-11)23abbl. State claim 5052. Mrs. B. Nelson, Cedar City. Diameter 4 inches. Measuring point, hole in casing, 6.8 feet below land surface and 5524.50 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 27, 24.38. Measurements discontinued.

(C-35-11)23cbal. State claim 5053. Roice Nelson. New measuring point, top of hole in casing, 5540.36 feet above sea level. Measurements discontinued after May 8, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 34.11	Mar. 13	a 34.36	May 8	a 35.79
Feb. 13	a 34.20	Apr. 3	a 34.76		

(C-35-11)27acal. State claim 5222. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumping.

Iron County - Cedar City Valley--Continued.

(C-35-11)27accl. State claim 382. Fernleigh Gardner. Record begins in 1931.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 40.75	May 8	a 45.10	Aug. 31	53.88	Nov. 25	46.29
Feb. 13	a 40.20	28	ab 55.15	Sept. 9	ab60.08	Dec. 2	45.95
Mar. 13	a 39.80	June 27	ab 57.70	26	50.21	28	45.18
Apr. 3	a 39.44	July 31	c 52.23	Oct. 26	47.51		

(C-35-11)27bab2. State claim 1216. Measurements discontinued.

(C-35-11)27cddl. State claim 8182. Drought Relief Administration. Water levels, in feet below measuring point, 1940: Feb. 13, a/56.34; Mar. 13, a/55.83; Apr. 3, a/55.77; May 8, a/59.80. Measurements discontinued.

(C-35-11)27dbbl. State claim 5223. Measurements discontinued.

(C-35-11)28aacl. State claim 14222. Ether Perry and Bros. Water level, in feet below measuring point, 1940: Apr. 1, 35.20. Measurements discontinued.

(C-35-11)28badl. State claim 13708. Gardner and Hintze, Cedar City. Diameter 4 inches, depth 100 feet. Measuring point, top of casing, 2.32 feet above land surface and 5546.78 feet above sea level. Measurements discontinued after April 9, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 20, 1938	a 35.37	July 29, 1938	a 35.85	Aug. 1, 1938	a 36.00
June 14	a 35.33	30	a 35.9	3	a 36.13
July 27	a 35.84	31	a 35.92	Apr. 9, 1940	35.98

(C-35-11)28dbcl. State claim 17601. Lawrence Bracken. Measurements discontinued after May 8, 1940.

Water level, in feet below measuring point, 1940

Jan. 15	a 50.50	Mar. 13	a 49.03	May 8	a 50.74
Feb. 13	a 49.87	Apr. 4	a 48.90		

(C-35-11)29abd2. State claim 11603. Kumen Jones. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 31.53	Mar. 13	a 31.11	May 8	a 33.41	Dec. 2	34.73
Feb. 14	a 31.24	Apr. 4	a 31.09	June 28	a 35.60		

(C-35-11)29acdl. State claim 13512. H. L. Jones, Cedar City. Diameter 12 inches, depth 300 feet. Measuring point, top of hole in turbine pump base, 1.2 feet above land surface and 5544.22 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 1, 33.47. Measurements discontinued.

(C-35-11)29addl. State claim 11606. Kumen Jones. Water level, in feet below measuring point, 1940: Apr. 1, 35.65. Measurements discontinued.

(C-35-11)29dbdl. State claim 1230. Measurements discontinued.

(C-35-11)29dcbl. State claim 15782. E. T. and E. J. Higbee. Diameter 4 inches, depth 95 feet. Measuring point, top of casing, 4.5 feet below land surface and 5541.10 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 27, 33.46. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Pumping.
c Pump stopped 4 hours prior to measurement.

Iron County - Cedar City Valley--Continued.

(C-35-11)29dcd1. State claim 490. Thurman Higbee. Water level, in feet below measuring point, 1940: Apr. 1, 40.25. Measurements discontinued.

(C-35-11)29dcd2. State application 1365. E. T. and E. J. Higbee, Cedar City. Diameter 12 inches, depth 204 feet. Measuring point, top of pump base at hole, 1 foot above land surface and 5552.64 feet above sea level. Water levels, in feet below measuring point: Sept. 13, 1939, 46.70; Apr. 9, 1940, 41.29. Measurements discontinued.

(C-35-11)30acd1. State claim 11604. Kumen L. Jones. Diameter 4 inches, depth 150 feet. Measuring point, top of casing, 0.5 foot above land surface and 5525.57 feet above sea level. Measurements discontinued after Apr. 3, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 23, 1938	a 14.68	July 28, 1938	a 20.09	Sept. 9, 1938	a 21.96
June 10	a 14.55	Aug. 15	a 21.02	Apr. 3, 1940	15.40

(C-35-11)30bbd1. State claim 11607. Kumen L. Jones. Diameter 6 inches. Measuring point, top of 6 inch casing, 0.7 foot above land surface and 5514.66 feet above sea level. Measurements discontinued after Apr. 3, 1940.

Water level, in feet below measuring point, 1938, 1940

May 23, 1938	a 25.54	Aug. 15, 1938	a 25.84	Apr. 3, 1940	25.42
June 10	a 24.87	Sept. 9	a 26.02		

(C-35-11)30caa1. State claim 17823. John Sherratt. Measurements discontinued after Aug. 5, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 20.45	Mar. 13	a 20.25	May 8	a 20.69	Aug. 5	22.10
Feb. 14	a 20.33	Apr. 4	a 20.40	June 10	21.00		

(C-35-11)30caa2. State claim 34. John Sherratt. Measurements discontinued after Aug. 5, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 19.44	Mar. 13	a 19.18	June 10	20.62
Feb. 14	a 19.26	Apr. 4	a 19.16	Aug. 5	21.78

(C-35-11)30dcc1. State claim 14004. Orson J. Bryant, Cedar City. Diameter 3⅛ inches, depth 164 feet. Measuring point, top of casing, 0.2 foot above land surface and 5525.60 feet above sea level. Water levels, in feet below measuring point: May 23, 1938, a/14.30; June 10, 1938, a/14.70; Apr. 3, 1940, 15.75. Measurements discontinued.

(C-35-11)31acd1. State claim 13498. Heber Jensen. Record begins in 1931.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 25.91	Mar. 13	a 24.86	May 8	a 29.56	July 1	ab 63.35
Feb. 14	a 25.26	Apr. 4	a 25.98	31	ab 62.82	Dec. 2	30.17

(C-35-11)31add1. State claim 17519. Federal Land Bank. Diameter 16 inches, depth 200 feet. Measuring point, top of 1 by 12-inch plank of well cover, 1.0 foot above land surface and 5539.53 feet above sea level. Measurements discontinued after Apr. 1, 1940.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumping.

Iron County - Cedar City Valley--Continued.

(C-35-11)31addl.--Continued.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 23, 1938	a 29.15	July 28, 1938	a 30.38	Sept. 9, 1938	a 31.67
June 14	a 28.58	Aug. 15	a 30.94	Apr. 1, 1940	28.90

(C-35-11)31ccdl. State claim 11596. Thomas Higbee. Diameter 3½ inches, depth 160 feet. Measuring point, top of tee on casing, 0.8 foot above land surface and 5524.07 feet above sea level. Measurements discontinued after Apr. 1, 1940.

Water level, in feet below measuring point, 1938, 1940

May 23, 1938	a 14.20	July 28, 1938	a 15.86	Sept. 9, 1938	a 17.82
June 14	a 14.17	Aug. 20	a 16.95	Apr. 1, 1940	17.47

(C-35-11)32acal. State application 12242. Donald Whitney. Measurements discontinued after May 8, 1940.

Water level, in feet below measuring point, 1940

Jan. 15	a 44.56	Mar. 15	a 43.22	May 8	a 48.08
Feb. 14	a 43.83	Apr. 4	a 42.95		

(C-35-11)32addl. State claim 6935. Measurements discontinued.

(C-35-11)32add2. Le Roy Davis, Cedar City. Diameter 12 inches, depth 200 feet. Measuring point, top of pump base at inspection opening, 0.8 foot above land surface and 5565.36 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 1, 50.30. Measurements discontinued.

(C-35-11)32ccdl. State claim 5098. Measurements discontinued.

(C-35-11)32cddl. State claim 11595. C. R. Matheson. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 45.91	Mar. 15	a 44.45	May 8	a 45.73	Dec. 2	48.80
Feb. 14	a 45.10	Apr. 4	a 44.16	July 2	a 47.88		

(C-35-11)33aacl. State claim 5126. Cottonwood Pump and Irrigation Co. Record begins in 1931.

Water level, in feet below measuring point, 1940

Jan. 15	a 63.79	Apr. 4	ab 76.74	May 31	ab 85.2	Sept. 23	ab 85.5
Feb. 14	a 63.09	May 8	ab 83.80	July 1	ab 85.6	Dec. 2	69.15
Mar. 15	a 62.09						

(C-35-11)33abdl. State claim 11590. Measurements discontinued.

(C-35-11)33bacl. State claim 5131. F. L. and A. C. Biederman, Cedar City. Diameter 12 inches, depth 239 feet. Measuring point, top of hole in turbine pump base at air line, 2.5 feet above land surface and 5568.0 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 1, 55.95. Measurements discontinued.

(C-35-11)33cddl. State claim 411. Alex and Ezra Rollo. Measurements discontinued after May 8, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 72.87	Mar. 15	a 71.22	May 8	a 74.42
Feb. 14	a 71.89	Apr. 4	a 71.09		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumping.

Iron County - Cedar City Valley--Continued.

(C-35-11)33dbc1. State claim 14012. Measurements discontinued.

(C-35-12)13dad1. C. and C. Wooster. Measurements discontinued after May 21, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 51.78	Mar. 15	a 51.81	May 21	a 52.18
Feb. 13	a 51.67	Apr. 4	a 51.82		

(C-35-12)25ddd1. State of Utah. Measurements discontinued after May 20, 1940.

Water level, in feet below measuring point, 1940

Jan. 16	a 19.78	Mar. 15	a 19.79	May 20	a 19.89
Feb. 13	a 19.68	Apr. 4	a 19.79		

(C-35-12)34aac1. Federal Land Bank. Measurements discontinued after June 10, 1940.

Water level, in feet below measuring point, 1940

Jan. 16	a 7.40	Mar. 15	a 7.14	May 20	a 7.36
Feb. 14	a 7.24	Apr. 4	a 7.06	June 10	7.85

(C-35-12)34dcd1. State claim 4873. R. J. and W. M. Shay. Record begins in 1936. New measuring point, bottom of hole in casing, 0.62 foot below land surface and 5484.76 feet above sea level.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	a 15.92	Mar. 15	a 15.58	May 20	a 15.85	Dec. 2	16.85
Feb. 14	a 15.67	Apr. 4	a 15.45	July 2	a 16.60		

(C-35-12)36daa1. State application 11745. J. D. and G. W. Foster, Cedar City. Diameter 12½ inches, depth 400 feet. Measuring point, top of casing, 2.0 feet above land surface and 5518.94 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 3, 11.82. Measurements discontinued.

(C-36-10)21caa1. State claim 8183. Drought Relief Administration. Water levels, in feet below measuring point, 1940: Jan. 18, a/32.50; Feb. 15, a/30.63; Mar. 22, a/25.70; Apr. 4, a/24.40. Measuremerts discontinued.

(C-36-11)5dcb1. State claim 5091. W. H. Bullock, Parowan, Utah. Diameter 12 inches, depth 144 feet. Measuring point, bottom of split in casing, level with land surface and 5554.73 feet above sea level. Water levels, in feet below measuring point, 1940: Apr. 1, 43.48; Apr. 6, 44.49; Apr. 11, 45.17; Apr. 27, b/58.70. Measurements discontinued.

(C-36-11)6aaa1. State claim 13493. Leonard Hargrave, Cedar City. Diameter 12 inches, depth 255 feet. Measuring point, top of casing, level with land surface and 5542.77 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 11, 34.98. Measurements discontinued.

(C-36-11)6aad1. State claim 17943. Leonard Hargrave. Measurements discontinued after May 21, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 16	a 31.22	Mar. 15	a 30.22	Apr. 11	33.65
Feb. 15	a 30.64	Apr. 5	a 33.08	May 21	a 35.48

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumping.

Iron County - Cedar City Valley--Continued.

(C-36-11)6bdal. State claim 13504. Sidney Ashdown, Cedar City. Diameter 4 inches, depth 156 feet. Measuring point, top of casing, 2.0 feet above land surface and 5528.69 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 1, 18.36. Measurements discontinued.

(C-36-11)6cccl. State claim 15881. James Smith, Cedar City. Diameter 4½ inches, depth 190 feet. Measuring point, top of hole in casing, 4.4 feet below land surface and 5511.00 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 9, 9.65. Measurements discontinued.

(C-36-11)7baal. State claim 4180. Alfred Stuki. Measurements discontinued after May 21, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 16	a 21.05	Mar. 15	a 19.85	May 21	a 28.05
Feb. 7	a 20.63	Apr. 5	a 22.41		

(C-36-11)7dbcl. State claim 17267. Hugo Hunt. Diameter 6 inches, depth 147 feet. Measuring point, top of casing, 0.8 foot above land surface and 5527.04 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 1, 20.80. Measurements discontinued.

(C-36-11)8aabl. State claim 13494. Leonard Hargrave. Record begins in 1935.

Water level, in feet below measuring point, 1940

Feb. 7	a 52.87	Apr. 5	a 52.78	Dec. 2	58.27
Mar. 15	a 52.10	May 21	a 59.04		

(C-36-11)8bbal. State application 11977. Alfred Stuki. Water levels, in feet below measuring point, 1940: Apr. 9, 36.30; Apr. 12, a/37.58. Measurements discontinued.

(C-36-11)8bbdl. State claim 13983. Lawrence Bess. Water level, in feet below measuring point, 1940: Apr. 1, 34.38. Measurements discontinued.

(C-36-11)8cabl. Measurements discontinued.

(C-36-11)8cbbl. State claim 317. Lehi Jones. Measurements discontinued after May 21, 1940.

Water level, in feet below measuring point, 1940

Jan. 16	a 27.39	Mar. 15	a 26.75	May 21	a 29.51
Feb. 15	a 27.07	Apr. 5	a 26.69		

(C-36-11)8dabl. State claim 4259. Los Angeles and Salt Lake Railroad. Water levels, in feet below measuring point, 1940: Feb. 10, 62.22; Apr. 11, b/69.19; Apr. 12, 62.11. Measurements discontinued.

(C-36-11)10bccl. State claim 12680. Southern Utah Power Co., Cedar City. Diameter 10 inches. Measuring point, top of casing, 0.8 foot above land surface and 5686.34 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 6, 154.64. Measurements discontinued.

(C-36-11)18aba2. State claim 17383. Jacob Smith. Record begins in 1936.

Water level, at noon, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	22.77	22.46	22.28	22.12	25.42	26.90	27.92	28.67
2	22.75	22.45	22.28	22.12	25.46	26.93	27.94	28.72
3	22.73	22.45	22.27	22.13	25.51	26.97	.....	28.74
4	22.72	22.44	22.27	22.22	25.53	27.01	.....	28.76
5	22.70	22.43	22.27	22.23	25.54	27.05	.....	c 28.78
6	22.68	22.42	22.27	22.30	25.61	27.09	.....	.....
7	22.67	22.41	22.26	22.60	25.75	27.10	.....	.....

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Pumping.
c Water stage recorder removed.

Iron County - Cedar City Valley--Continued.

(C-36-11)18aba2.--Continued.

Water level, at noon, in feet below measuring point, 1940

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
8	22.66	22.40	22.22	.....	25.89	27.15	.....	.....
9	22.66	22.38	22.21	.....	26.00	27.20	.....	.....
10	22.65	22.38	22.20	.....	26.05	27.23	.....	.....
11 a	22.63	22.38	22.19	22.90	26.08	27.24	.....	.....
12 a	22.61	22.38	22.19	24.11	26.13	27.27	.....	.....
13 a	22.59	22.38	22.19	24.29	26.14	27.30	.....	.....
14	22.59	22.36	22.19	24.42	26.18	27.33	.....	.....
15	22.59	22.35	22.19	24.51	26.23	27.35	.....	.....
16	22.57	22.35	22.19	24.60	26.28	27.38	28.20	.....
17	22.56	22.35	22.19	24.74	26.33	27.41	28.22	.....
18	22.55	22.34	22.18	24.88	26.36	27.43	28.23	.....
19	22.54	22.34	22.18	25.00	26.41	27.45	28.25	.....
20	22.53	22.33	22.17	25.09	26.46	27.48	28.31	.....
21	22.53	22.33	22.16	25.17	26.51	27.51	28.34	.....
22	22.52	22.31	22.16	25.21	26.55	27.56	28.38	.....
23	22.51	22.31	22.16	25.25	26.60	27.61	28.42	.....
24	22.51	22.31	22.16	25.29	26.62	27.67	28.45	.....
25	22.50	22.30	22.16	25.32	26.65	27.71	28.47	.....
26	22.49	22.30	22.16	25.33	26.69	27.76	28.49	.....
27	22.49	22.29	22.15	25.33	26.72	27.79	28.51	.....
28	22.49	22.28	22.14	25.34	26.76	27.82	28.54	.....
29	22.49	22.28	22.14	25.36	26.79	27.86	28.58	.....
30	22.48	.....	22.13	25.39	26.83	27.89	28.62	.....
31	22.47	.....	22.13	.....	.....	.....	28.64	.....

Water level, in feet below measuring point, Dec. 2, 25.65

(C-36-11)18adal. State claim 4881. Henry C. Esplin. Water level, in feet below measuring point, 1940: Apr. 9, 39.1. Measurements discontinued.

(C-36-11)18cdcl. State claim 15422. Wayne Montgomery. Measurements discontinued after May 21, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 16	b 27.11	Mar. 15	b 26.96	Apr. 9	26.93
Feb. 15	b 27.00	Apr. 5	b 26.92	May 21	b 27.59

(C-36-11)18daal. State claim 17277. David Thorley. Water level, in feet below measuring point, 1940: Apr. 9, 84.60. Measurements discontinued.

(C-36-12)1aaa2. State claim 13995. M. J. MacFarlane. Record begins in 1931. Water levels, in feet below measuring point, 1940: Jan. 16, b/13.80; Feb. 15, b/11.38; Mar. 15, b/10.86; Dec. 2, 15.05.

(C-36-12)1adal. Fred Barnson. Measurements discontinued after May 21, 1940.

Water level, in feet below measuring point, 1940

Jan. 16	b 11.58	Mar. 16	b 10.44	Apr. 5	b 10.24
Feb. 15	b 10.91	Apr. 1	10.15	May 21	b 13.00

(C-36-12)1bbbl. State claim 9772. Federal Land Bank, Cedar City. Diameter 6 inches, depth 190 feet. Measuring point, top of bushing in casing, 1.8 feet above land surface and 5500.59 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 3, 16.25. Measurements discontinued.

(C-36-12)1dccl. Isaac Parry. Unused well. Diameter 2 inches. Measuring point, top of casing, 0.7 foot below land surface and 5505.23 feet above sea level. Water levels, in feet below measuring point: May 28, 1938, b/4.12; June 17, 1938, b/4.35; July 30, 1938, b/9.88; Apr. 3, 1940, 4.63. Measurements discontinued.

a Estimated from chart.

b Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Iron County - Cedar City Valley--Continued.

(C-36-12)2adb1. Lawrence Hanchett. Measurements discontinued after May 21, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 16	a 12.66	Mar. 16	a 12.31	Apr. 13	12.45
Feb. 15	a 12.38	Apr. 8	a 12.30	May 21	a 13.72

(C-36-12)3bba1. State claim 13663. Wm. R. Palmer. Water levels, in feet below measuring point, 1940: Jan. 16, a/5.42; Mar. 16, a/5.24; Apr. 8, a/5.17; May 21, a/5.55. Measurements discontinued.

(C-36-12)3cba1. State claim 13662. Wm. R. Palmer. Measurements discontinued after May 21, 1940.

Water level, in feet below measuring point, 1940

Jan. 16	ab 2.07	Mar. 16	ab 1.96	May 21	ab 2.00
Feb. 15	ab 2.17	Apr. 8	ab 1.99		

(C-36-12)9aaa1. State application 12955. Erastus L. Jones. Found flowing prior to all measurements. Measurements discontinued after May 21, 1940.

Water level, in feet above measuring point, 1940

Jan. 16	a 2.94	Mar. 16	a 3.20	May 21	a 2.49
Feb. 15	a 3.10	Apr. 8	a 3.30		

(C-36-12)9dcb1. State claim 5234. H. B. Robinson. Found flowing prior to all measurements. Measurements discontinued after May 21, 1940.

Water level, in feet above measuring point, 1940

Jan. 16	a 6.7	Mar. 16	a 6.8	May 21	a 6.05
Feb. 15	a 6.6	Apr. 8	a 7.05		

(C-36-12)10ada1. State claim 1218. D. G. Wolfskill, Queatchupah. Diameter 12 inches, depth 389 feet. Measuring point, top of discharge pipe, 1.0 foot above land surface and 5479.48 feet above sea level. Found flowing 30 gallons per minute prior to measurement. Water level, in feet above measuring point, 1940: Apr. 10, 1.70. Measurements discontinued.

(C-36-12)10dda1. State claim 15946. D. G. Wolfskill. Diameter 4 inches, depth 397 feet. Measuring point, top of 4 inch casing, 0.7 foot above land surface and 5477.56 feet above sea level. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Apr. 10, 3.60. Measurements discontinued.

(C-36-12)12dac1. State claim 13716. Webster Leigh. Water levels, in feet below measuring point, 1940: Jan. 17, a/11.81; Feb. 15, a/11.73; Mar. 16, a/10.91; Apr. 8, a/11.61. Measurements discontinued.

(C-36-12)12dba1. State claim 15411. Branch Agricultural College. Record begins in 1936.

Water level, in feet below measuring point, 1940

Jan. 17	a 17.06	Mar. 16	a 16.55	May 21	ac 48.82
Feb. 15	a 16.55	Apr. 8	a 17.19	Dec. 2	19.95

(C-36-12)13ada1. State claim 13978. Harmel Bauer, Cedar City. Diameter 4½ inches. Measuring point, top of casing, 2.3 feet above land surface and 5511.65 feet above sea level. Measurements discontinued after Apr. 9, 1940.

Water level, in feet below measuring point, 1938, 1940

May 27, 1938	a 16.81	July 28, 1938	a 17.65	Sept. 7, 1938	a 18.09
June 17	a 16.60	Aug. 20	a 18.10	Apr. 9, 1940	16.92

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Casing corroded, probably leaking.

c Pumping.

Iron County - Cedar City Valley--Continued.

(C-36-12)13bdal. State claim 9774. Measurements discontinued.

(C-36-12)14bbdl. G. H. Pratt. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 17	a 9.80	Mar. 21	a 9.49	May 21	a 9.70
Feb. 15	a 9.59	Apr. 8	a 9.43	Dec. 2	10.37

(C-36-12)14cbcl. Trehorne Jones, Cedar City. Diameter 3 inches. Measuring point, top of casing, 1.0 foot above land surface and 5477.87 feet above sea level. Water levels, in feet below measuring point: June 8, 1938, a/2.05; Apr. 3, 1940, 2.00. Measurements discontinued.

(C-36-12)16bbal. State claim 13515. H. L. and E. L. Jones, Cedar City. Diameter 1½ inches. Measuring point, top of casing, 1.0 foot below land surface and 5458.52 feet above sea level. Found flowing prior to all measurements. Water levels, in feet above measuring point: Aug. 9, 1938, a/11.65; Apr. 10, 1940, 12.0; June 10, 1940, 11.5. Measurements discontinued.

(C-36-12)16bccl. State claim 13518. H. D., E. L. and L. M. Jones. Depth 92 feet. Found flowing prior to all measurements. Measurements discontinued after June 10, 1940.

Water level, in feet above measuring point, 1940

Jan. 17	a 1.75	Mar. 21	a 2.40	May 21	a 1.98
Feb. 15	a 2.12	Apr. 8	a 2.48	June 10	1.63

(C-36-12)20ddcl. State claim 13516. Jones Bros., Queatchupal. Record begins in 1940. Diameter 2 inches. Measuring point, top of ell on casing, 0.2 foot above land surface and 5475.88 feet above sea level. Water levels, in feet below measuring point, 1940: Apr. 10, 2.87; June 10, 2.99; Dec. 2, 3.25.

(C-36-12)21ccbl. State claim 10673. D. C. Bullock and others. Found flowing prior to all measurements. Measurements discontinued after Dec. 2, 1940.

Water level, in feet above measuring point, 1940

Jan. 17	a 9.2	Apr. 8	a 9.35	Dec. 2	9.2
Mar. 21	a 9.45	May 21	a 9.25		

(C-36-12)21ccb2. State claim 10674. D. C. Bullock and others, Cedar City. Diameter 2 inches, depth 50 feet. Measuring point, top of ell over casing, 1.0 foot above land surface and 5454.90 feet above sea level. Found flowing prior to all measurements. Water levels, in feet above measuring point: Aug. 9, 1938, a/6.1; Apr. 10, 1940, 5.5. Measurements discontinued.

(C-36-12)23dddl. State claim 17279. David Thorley. Water levels, in feet below measuring point, 1940: Jan. 18, a/23.83; Mar. 22, a/b/27.62; Apr. 8, a/23.92; May 22, a/24.37. Measurements discontinued.

(C-36-12)26cbbl. State claim 13747. Cox and Thorley. Record begins in 1938. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 21, a/3.85; Apr. 8, a/3.65; May 22, a/3.70; Dec. 3, 3.40.

(C-36-12)27dacl. State claim 6857. Edw. V. Hardy, Hamiltons Fort. Diameter 2 inches. Measuring point, top of ell on casing, 1.0 foot above land surface and 5461.90 feet above sea level. Found flowing prior to all measurements. Water levels, in feet above measuring point: July 23, 1938, 6.0; Apr. 10, 1940, 5.5. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumped frequently.

Iron County - Cedar City Valley--Continued.

(C-36-12)28cccl. A. P. Spilsbury. Record begins in 1938. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 17	a 4.40	Apr. 8	a 4.45	June 10	a 5.0
Mar. 21	a 4.90	May 21	a 5.2	Dec. 2	4.4

(C-36-12)29aaal. State claim 6011. Henry H. Lunt, Queatchupah. Diameter 2 inches, depth 145 feet. Measuring point, top of elbow on casing, 2.0 feet above land surface and 5467.95 feet above sea level. Found flowing prior to all measurements. Water levels, in feet above measuring point: Aug. 9, 1938, a/3.5; Apr. 10, 1940, b/3.42. Measurements discontinued.

(C-36-12)29dabl. State claim 6010. Henry H. Lunt, Queatchupah. Diameter 3 inches, depth 168 feet. Measuring point, top of elbow on casing, 1.5 feet above land surface and 5472.85 feet above sea level. Water levels, in feet above measuring point: Aug. 9, 1938, a/1.0; Apr. 10, 1940, 0.55. Measurements discontinued.

(C-36-12)29dab2. Henry H. Lunt, Queatchupah. Measurements discontinued after May 21, 1940.

Water level, in feet below measuring point, 1940

Jan. 17	a 12.05	Apr. 8	a 11.55	May 21	a 11.73
Mar. 21	a 11.51	10	11.55		

(C-36-12)29dbbl. State claim 6009. Henry H. Lunt, Queatchupah. Diameter 12 inches, depth 280 feet. Measuring point, top of discharge pipe, 1.0 foot above land surface and 5493.78 feet above sea level. Water levels, in feet below measuring point: May 6, 1938, a/20.41; June 18, 1938, a/21.16; Aug. 10, 1938, a/20.46; Apr. 10, 1940, 20.5. Measurements discontinued.

(C-36-12)33ccbl. A. P. Spilsbury, Queatchupah. Diameter 2 inches. Measuring point, top of casing, 1.0 foot above land surface and 5465.02 feet above sea level. Found flowing prior to all measuremerts. Water levels, in feet above measuring point: Aug. 9, 1938, a/12.3; Apr. 10, 1940, 10.6. Measurements discontinued.

(C-36-12)33ccb2. A. P. Spilsbury, Queatchupah. Diameter 2 inches. Measuring point, top of ell on casing, 1.2 feet above land surface and 5465.50 feet above sea level. Found flowing prior to all measuremerts. Water levels, in feet above measuring point: Aug. 10, 1938, a/8.2; Apr. 10, 1940, 7.0. Measurements discontinued.

(C-36-12)33dbcl. A. P. Spilsbury. Found flowing prior to all measurements. Measurements discontinued after June 10, 1940.

Water level, in feet above measuring point, 1940

Jan. 17	a 18.5	Apr. 8	a 18.85	June 10	19.0
Mar. 21	a 18.8	May 22	a 18.8		

(C-37-12)3cccl. State claims 12826 and 16359. Frank P. Thorley (Federal Land Bank). Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Jan. 17, a/5.6; Mar. 21, a/6.15; Apr. 9, a/5.4; May 22, a/5.35. Measurements discontinued.

(C-37-12)3dddl. State claim 5129. M. M. Vandenberghe. Water levels, in feet above measuring point, 1940: Jan. 17, a/6.3; Mar. 21, a/6.65; Apr. 9, a/c/4.15. Measurements discontinued.

(C-37-12)4bacl. A. P. Spilsbury, Queatchupah. Diameter 2 inches. Measuring point, top of ell on casing, 0.8 foot above land surface and 5452.64 feet above sea level. Found flowing prior to all measurements. Water levels, in feet above measuring point: Aug. 10, 1938, a/20.5; Apr. 10, 1940, 19.5. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing 12 gallons per minute.
c Flowing.

Iron County - Cedar City Valley--Continued.

(C-37-12)4bcal. State claim 13750. Dr. Frank Palmer, Queatchupah. Diameter 3 inches. Measuring point, top of casing, 0.5 foot above land surface and 5463.37 feet above sea level. Water levels, in feet above measuring point: Aug. 10, 1938, a/12.4; Apr. 10, 1940, 10.8. Measurements discontinued.

(C-37-12)5aad3. State claim 7855. Federal Land Bank. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Jan. 17, a/2.67; Mar. 21, a/2.35; Apr. 9, a/2.35; May 22, a/2.43. Measurements discontinued.

(C-37-12)9aadl. State claim 13989. George W. Foster. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Jan. 17, a/4.0; Mar. 21, a/4.3; Apr. 9, a/4.4; May 22, a/4.15. Measurements discontinued.

(C-37-12)9addl. State claim 13991. George W. Foster. Water levels, in feet below measuring point, 1940: Mar. 21, a/5.17; Apr. 9, a/5.14; Apr. 10, 5.14; May 22, a/5.27. Measurements discontinued.

(C-37-12)9baal. State claim 16350. Platt Watson. Record begins in 1938. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Mar. 21	a 2.08	Apr. 10	2.28	Dec. 2	1.84
Apr. 9	a 2.05	May 22	a 2.04		

(C-37-12)10acal. State claim 16629. R. S. Tiernan. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 21, a/7.65; Apr. 9, a/7.95; May 22, a/7.9; June 10, 7.7. Measurements discontinued.

(C-37-12)11cbbl. State claim 15847. J. G. Pace, Hamiltons Fort. Diameter 6 inches, depth 90 feet. Measuring point, top of casing, 0.4 foot above land surface and 5469.71 feet above sea level. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Apr. 10, 3.60. Measurements discontinued.

(C-37-12)11dbcl. Oliver Berkhelder. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 18	a 10.07	Apr. 9	a 9.66	June 10	10.35
Mar. 21	a 9.74	May 22	a 9.96	Dec. 2	11.00

(C-37-12)13cccl. State claim 13752. J. C. Platt, Kanarraville. Diameter 6 inches, depth 122 feet. Measuring point, top of casing, 0.5 foot above land surface and 5563.49 feet above sea level. Water levels, in feet below measuring point: Aug. 11, 1938, a/61.32; Apr. 10, 1940, 96.27. Measurements discontinued.

(C-37-12)14abdl. John G. Pace. Measurements discontinued after May 23, 1940.

Water level, in feet below measuring point, 1940

Jan. 18	a 15.98	Apr. 9	a 15.92	May 23	a 16.65
Mar. 22	a 15.90	10	15.94		

(C-37-12)14dccl. State claim 13753. John W. Platt. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 18	a 33.84	Apr. 9	a 33.54	Dec. 2	43.50
Mar. 22	a 33.60	May 23	a 51.34		

(C-37-12)14dddl. Measurements discontinued.

(C-37-12)22cbcl. State application 12071. W. J. Williams. Water levels, in feet below measuring point, 1940: Jan. 18, a/88.36; Mar. 22, a/88.34; Apr. 9, a/88.35. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Iron County - Cedar City Valley--Continued.

(C-37-12)23acb1. State claim 13010. Federal Land Bank. Record begins in 1935. Water levels, in feet below measuring point, 1940: Jan. 18, a/51.50; Mar. 22, a/51.25; Apr. 9, a/51.23; Dec. 2, 54.95.

(C-37-12)23bca1. State claim 11212. C. N. Quin, Kanarraville. Diameter 6 inches, depth 150 feet. Measuring point, top of casing, 0.8 foot above land surface and 5494.38 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 7, 31.00. Measurements discontinued.

(C-37-12)34abb1. State claims 1646 and 8184. Kanarra Field and Reservoir Co. Record begins in 1934.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Mar. 22	a 43.32	May 23	ab 65.74	Dec. 2	47.95
Apr. 13	a 42.00	July 9	ab 67.8		

(C-38-12)3bcb1. (C-38-12)3bca1 in Water Supply Paper 886. State application 12845. Ford and Williams. Record begins in 1937. Water levels, in feet below measuring point, 1940: Mar. 22, a/69.61; Apr. 9, a/69.63; May 23, a/69.85; Dec. 2, 70.45.

Iron County - Escalante Valley

(C-31-12)9abb1. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 23, 78.12.

(C-31-12)9cbc1. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 23, 61.85.

(C-31-12)17cad1. Record begins in 1940. Stock well, diameter 48 inches, depth 49 feet. Measuring point, top of 8 by 8-inch tie north of hole for pipe, 1.0 foot above land surface. Equipped with windmill. Water level, in feet below measuring point, 1940: Apr. 23, 46.64.

(C-31-12)19ccd1. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 23, 50.55.

(C-31-13)1a1. State claim 6486. Oscar Stephenson. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 23, 27.62; Dec. 9, 27.77.

(C-31-13)1a2. Oscar Stephenson. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 23, 27.60; Dec. 9, 27.74.

(C-31-13)4cdd1. Pearl Boeck. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 22, 24.57; Dec. 9, 24.77.

(C-31-13)6adc1. State claim 17348. Myrtle Colvin. Diameter 36 inches, depth 70 feet. Measuring point, bottom of flange of pump base, 1.0 foot above land surface. Water level, in feet below measuring point, 1940: Apr. 22, 51.28.

(C-31-13)7dd. Diameter 48 inches, depth 60 feet. Measuring point, top of curb, 1.4 feet above land surface. Water level, in feet below measuring point, 1940: 58.93.

(C-31-13)8dbc1. State claim 11588. H. L. Adams. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 22, c/37.35; Dec. 9, 36.63.

(C-31-13)21abb1. Public Land. Record begins in 1935. Water level, in feet below measuring point, 1940: Apr. 23, 22.00. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumping.

c Pumping intermittently.

Iron County - Escalante Valley--Continued.

(C-31-13)27bcdl. State claim 11567. H. M. Couch, Lund, Utah. Domestic and stock well, diameter 48 inches, depth 252 feet. Measuring point, top of tie curb near southeast corner, 0.3 foot below land surface. Water level, in feet below measuring point, 1940: Apr. 23, 41.40

(C-31-13)33cccl. LeMont Lowe. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 23, 34.16; Dec. 9, 34.22.

(C-31-14)9bcdl. State claim 13999. Francis W. Leigh, Cedar City, Utah. Diameter 6 inches, depth 47 feet. Measuring point, top of hole in pump base, 0.8 foot above land surface. Water level, in feet below measuring point, 1940: Apr. 22, a/44.15.

(C-31-14)28caal. State claim 6008. J. A. Paramore, Parowan, Utah. Diameter 6 inches, depth 157 feet. Measuring point, top of old pump base, 2.5 feet above land surface. Water level, in feet below measuring point, 1940: Apr. 22, b/140.26.

(C-32-12)6cbb. Diameter 60 inches, depth 68.5 feet. Measuring point, top of well cover at hole on south side, 1.0 foot above land surface. Water level, in feet below measuring point, 1940: Apr. 24, 61.10.

(C-32-12)34ddal. W. L. Adams. Record begins in 1939. Water levels, in feet below measuring point, 1940: Apr. 1, c/10.10; Apr. 24, 11.32; May 1, c/10.11; Dec. 2, 11.07.

(C-32-13)7dccl. State claim 5227. Oscar E. Frahske, Lund, Utah. Diameter 8 inches, depth 60 feet. Measuring point, top of well cover, at south side of pump house, level with land surface and 5093.79 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 24, 55.40.

(C-32-13)9bddl. State claim 5229. Alma Frahske. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 24, 37.83; Dec. 9, 37.76.

(C-32-13)9bdd2. State claim 5228. Measurements discontinued.

(C-32-14)10dccl. U. S. Geol. Survey test well. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 24, 10.80.

(C-32-14)12ccdl. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 24, 22.75.

(C-32-14)19bddl. J. H. Johnson, Lund, Utah. Diameter 60 inches, depth 44.2 feet. Measuring point, top of concrete cover, at manhole, 0.6 foot above land surface. Water level, in feet below measuring point, 1940: Apr. 22, 44.2.

(C-32-14)28bbbl. State claim 17227. Joseph Dyson. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 23, 2.36; Dec. 9, 2.96.

(C-32-14)30babl. J. H. Johnson, Lund. Diameter 60 inches, depth 34 feet. Measuring point, top of concrete curb under board cover, 0.5 foot above land surface. Water level, in feet below measuring point, 1940: Apr. 22, 32.20

(C-32-14)32addl. U. S. Geol. Survey test well. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 12.97.

(C-33-14)8cccl. U. S. Geol. Survey test well. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 9.10.

(C-33-14)15dbdl. Owner's number 46½. Grazing Service. Record begins in 1939. Water levels, in feet below measuring point, 1940: Apr. 25, d/37.47; Dec. 4, 32.90.

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a Pumping intermittently.
b Pumping stopped 10 minutes prior to measurement.
c Measurement by Utah State Engineer in cooperation with Works Projects Administration.
d Well rig at well. Pump and pipe removed.

Iron County - Escalante Valley--Continued.

(C-33-14)19adbl. U. S. Geol. Survey test well. Record begins in 1939. Water levels, in feet below measuring point, 1940: Jan. 4, a/6.55; Apr. 25, 6.32.

(C-33-14)36dd. Bank of Southern Utah. Record begins in 1936. Water level, in feet below measuring point, 1940: Apr. 25, 69.80.

(C-33-15)12aaal. Public Land. Record begins in 1939. Water levels, in feet below measuring point, 1940: Apr. 25, 19.92; Dec. 4, 19.85.

(C-33-15)13cbbl. Iron County. Record begins in 1939. Water levels, in feet below measuring point, 1940: Apr. 25, 15.74; Dec. 4, 16.52.

(C-33-15)19bccl. Robins and Maguire. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 25, 78.74; Dec. 4, 78.77.

(C-33-15)25bbbl. Public Land. Record begins in 1939. Water levels, in feet below measuring point, 1940: Apr. 25, 2.25; Dec. 4, 2.98.

(C-33-15)27cdal. Public Land. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 17.55.

(C-33-15)31bbcl. Clayton Phillips. Water level, in feet below measuring point, 1940: Apr. 25, 23.21. Measurements discontinued.

(C-33-15)31cbbl. Jesse Carlson. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 25, 28.01; Dec. 4, 28.33.

(C-33-15)33dcbl. State claim 13492. Arlie Fourman. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 25, 10.80; Dec. 4, 11.14.

(C-33-15)34dddl. U. S. Geol. Survey test well. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 8.74.

(C-33-15)36cccl. U. S. Geol. Survey test well. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 7.65.

(C-33-16)13dddl. Measurements discontinued.

(C-33-16)19dddl. Clarence Lynd. Record begins in 1938. New measuring point, top of 2 by 6-inch plank spanning well, 0.5 foot above land surface and 5202.07 feet above sea level. Water levels, in feet below measuring point, 1940: Apr. 26, 66.80; Dec. 4, 67.30.

(C-33-16)25bbal. Anson H. Emerine. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 25, 54.64.

(C-33-16)29cdbl. Donji Ikeda. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 26, 28.55; Dec. 4, 28.80.

(C-33-16)32abal. State claim 4278. Union Pacific Railroad. Record begins in 1935. Water level, in feet below measuring point, 1940: Apr. 26, 19.00. Measurements discontinued.

(C-33-17)25addl. Nunzio Fucarino. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, b/63.52.

(C-33-17)29dcbl. Frank Webster. Record begins in 1938. Water level, in feet below measuring point, 1940: Apr. 26, 108.22.

(C-34-14)31cccl. U. S. Geol. Survey test well. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 13, 13.97.

(C-34-15)1aadl. State claims 5230 and 10672. Bank of Southern Utah. Record begins in 1935. Found flowing 3.9 gallons per minute prior to measurement. Water level, in feet above measuring point, 1940: Apr. 25, 2.65.

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a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumping.

Iron County - Escalante Valley--Continued.

(C-34-15)1aad2. U. S. Geol. Survey test well. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 1.87.

(C-34-15)6cbb2. Rollo F. Bromman. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 25, 6.98.

(C-34-15)10ddd1. Measurements discontinued.

(C-34-15)16ccc1. Record begins in 1939. Water level, between 12½ and 8-inch casing, in feet below measuring point, 1940: Apr. 25, 4.88. Water level in 8-inch casing, in feet below measuring point, 1940: Apr. 25, 5.32.

(C-34-15)16ccc2. U. S. Geol. Survey test well. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 8.00.

(C-34-15)17bbb1. Public Land. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 9.90.

(C-34-15)27daa2. U. S. Geol. Survey test well. On property of K. L. McGarry. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 11.16.

(C-34-15)31bbb1. U. S. Geol. Survey test well. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 25, 7.31.

(C-34-16)7aab2. State claim 17296. Jos. M. Robinson. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 16.82.

(C-34-16)7ccd1. Measurements discontinued.

(C-34-16)9bcc1. Fred Pinafrock. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 26, 10.77; Dec. 4, 12.00.

(C-34-16)9cbc1. Augustus Lott. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 26, 9.30; Dec. 4, 10.14.

(C-34-16)10bab2. A. E. McGarry. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 10.19.

(C-34-16)15ccc2. Inland Investment Co. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 26, 3.18.

(C-34-16)17dcc2. Public Land. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 26, 1.30; Dec. 4, 1.93.

(C-34-16)18aac1. Charles E. Aye. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 13.90.

(C-34-16)21dcc2. Public Land. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 12, 11.62.

(C-34-16)26ccc2. Public Land. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 26, 11.53.

(C-34-16)27ccc2. Measurements discontinued.

(C-34-16)28bcc2. Fred Fisher. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 12, 1.87; Dec. 4, 2.50.

(C-34-16)28ccc2. J. H. Davis. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 12, 3.73.

(C-34-16)30abb1. Dudley F. Shelley. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 12, 4.17.

(C-34-16)30ddc2. State claim 11721. Dudley F. Shelley. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 12, 1.78.

Iron County - Escalante Valley--Continued.

(C-34-16)31bcc3. Sarah B. Endicott. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 12, a/3.70; Dec. 4, 2.80.

(C-34-16)33cdc2. Utah Land Security Co. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 26, 16.43.

(C-34-16)33cddl. Utah Land Security Co. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 13.03.

(C-34-17)1dabl. Freda Spooner. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 26, 21.47; Dec. 4, 22.40.

(C-34-17)9dddl. William Haigh. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 26, 31.77; Dec. 4, 31.95.

(C-34-17)10bbcl. Ada F. Randall. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 26, 33.75.

(C-34-17)18addl. Ole Martinsen estate. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 55.62.

(C-34-17)24bcc2. William Maston. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 15.35.

(C-34-17)24cbbl. State claim 6835. Marvin Hughes. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 26, 15.52; Dec. 4, 15.95.

(C-34-17)27abal. Lena Murphy. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 28.44.

(C-34-17)28abbl. Public Land. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 41.82.

(C-35-12)18ddd2. State claim 11258. Columbia Steel Co. Record begins in 1935. Water levels, in feet below measuring point, 1940: Jan. 15, b/2.80; Mar. 15, b/2.41; Apr. 4, b/2.29; May 20, b/2.32.

(C-35-15)3accl. State claim 3791. R. D. Clarke estate. Water level, in feet below measuring point, 1940: Apr. 12, 15.10. Measurements discontinued.

(C-35-15)3dccl. State claim 3790. R. D. Clarke estate. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 12, 15.57; Dec. 4, 15.90.

(C-35-15)3dcc2. State claim 3788. R. D. Clarke estate. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 12, 14.70; Dec. 4, 15.37.

(C-35-15)4dcc2. Anna E. Lloyd. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 12, 9.15.

(C-35-15)6cddl. Frank Bridel. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 12, 14.63; Dec. 4, 15.87.

(C-35-15)10bdc2. State application 12134. Walter Martin. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 12, 16.76; Dec. 4, 18.10.

(C-35-15)11bbbl. Marvel Del Vecchio. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 12, 18.03.

(C-35-15)20bcdl. Public Land. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 13, 23.18.

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a Pumped some during day.

b Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Iron County - Escalante Valley--Continued.

(C-35-15)30acc2. Hugh Ash. Record begins in 1936. Water level, in feet below measuring point, 1940: Apr. 13, 29.47.

(C-35-16)3bcdl. State claim 3792. R. D. Clarke estate. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 26, 15.77; Dec. 4, 16.64.

(C-35-16)6bbcl. Fortunatus Thompson. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 26, 17.87; Dec. 4, 18.45.

(C-35-16)7bbbl. State claim 13661. H. L. Austin. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 12, 18.60; Dec. 4, 19.77.

(C-35-16)7ccb2. Ole Martinsen estate. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 12, 19.84; Dec. 4, 20.75.

(C-35-16)9cdcl. W. and U. Hasegawa. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 12, 15.37; Dec. 4, 16.17.

(C-35-16)10bdal. State claim 13760. K. Miyake. Owner given as Robt. D. Clarke in Water Supply Paper 886. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 12, 2.13.

(C-35-16)15abcl. J. E. Harris. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 12, 17.70; Dec. 4, 18.40.

(C-35-16)17badl. State claim 2230. S. and K. Kase. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 12, 3.50: Dec. 4, 4.32.

(C-35-16)17cda2. State claim 16463. Ira Caldwell. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 12, 2.28.

(C-35-16)18cdc4. Napoleon Boutin. Record begins in 1937. New measuring point, top of well cover, 0.2 foot below old measuring point, 0.8 foot above land surface and 5160.89 feet above sea level. Water level, in feet below measuring point, 1940: Apr. 26, 20.38.

(C-35-16)20dccl. State claim 11630. Eva Hard. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 13, 21.55. Measurements discontinued.

(C-35-16)22addl. State claim 10337. R. C. Inatomi. Record begins in 1937. Water levels, in feet below measuring point, 1940: Apr. 12, 1.24; Dec. 4, 1.90.

(C-35-16)22bbal. Chas. Erickson. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 21.17.

(C-35-16)22ccdl. Lyman and Heber Sevy. Record begins in 1939. Water level, in feet below measuring point, 1940: Apr. 12, 18.82.

(C-35-17)1bcc. Geo. Pershall estate. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 7.70.

(C-35-17)3bbbl. State claim 8432. John L. Sevy. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 26, 46.27; Dec. 4, 46.36.

(C-35-17)13bdcl. State claim 14228. Austin D. Moyle. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 27.43.

(C-35-17)13cbcl. Gordon Moyle. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 26, 27.18.

(C-35-17)21addl. Measurements discontinued.

Iron County - Escalante Valley--Continued.

(C-35-17)25cddl. Henry Brenn. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 13, 35.25; Dec. 4, 35.80.

(C-36-15)8dbdl. Charles Hart. Record begins in 1939. Water levels, in feet below measuring point, 1940: Apr. 13, 118.62; Dec. 4, 119.38.

(C-36-16)4bl. State claim 1396. Measurements discontinued.

(C-36-16)5al. State claim 8431. John L. Sevy and Sons. Record begins in 1937. Water level, in feet below measuring point, 1940: Apr. 13, 44.82.

(C-36-16)16ddal. Chas. Erickson. Water level, in feet below measuring point, 1940: Apr. 13, 57.72. Measurements discontinued.

(C-36-17)1cccl. State claim 3349. John C. Benson. Record begins in 1936. Water level, in feet below measuring point, 1940: Apr. 13, 69.79.

Iron County - Parowan Valley

(C-32-8)1adal. Iron County. Record begins in 1939.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	a 50.45	Apr. 3	a 50.40	June 4	a 50.39	Sept. 7	50.42
Feb. 5	a 50.54	21	a 50.39	July 17	a 50.40	Oct. 1	a 50.40
Mar. 4	a 50.46	May 1	a 50.39	Aug. 19	a 50.41	Dec. 1	50.40

(C-32-8)12cddl. J. E. Tolton Investment Co., Parowan. Diameter 2 inches. Measuring point, top of casing, 1.1 feet above land surface and 5793.31 feet above sea level. Water levels, in feet, with reference to measuring point, 1940: Mar. 6, a/+0.70; Apr. 20, a/+0.63; Sept. 10, a/-1.70. Measurements discontinued.

(C-32-8)13dbcl. Measurements discontinued.

(C-32-8)14dadl. State claim 12762. R. F. Starley. Measurements discontinued after Sept. 10, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 8	a 10.7	Apr. 2	a 10.6	Sept. 10	ab 6.4
Feb. 5	a 10.6	May 1	a 11.1		

(C-32-8)15dadl. State claim 17850. O. C. Snow, Parowan. Diameter 2 inches, depth 190 feet. Measuring point, top of casing, 0.5 foot above land surface and 5761.52 feet above sea level. Water levels, in feet above measuring point, 1940: Apr. 21, a/3.0; Sept. 10, a/b/1.65. Measurements discontinued.

(C-32-8)23dbal. U. V. Limb, Paragonah. Diameter 6 inches, depth 23 feet. Measuring point, top of discharge pipe, 2.35 feet above land surface and 5793.70 feet above sea level. Measurements discontinued after Sept. 2, 1940.

Water level, in feet below measuring point, 1937-38, 1940

Dec. 27, 1937	a 18.6	July 15, 1938	a 21.10	Sept. 2, 1940	18.5
June 15, 1938	a 21.60	Aug. 8	a 21.24		

(C-32-8)23dcbl. U. V. Limb, Paragonah. Diameter 3 inches, depth 47 feet. Measuring point, top of casing, and 5793.90 feet above sea level. Water levels, in feet below measuring point, 1940: Mar. 6, a/15.39; Apr. 21, a/15.22; Sept. 12, 15.35. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing prior to measurement.

Iron County - Parowan Valley--Continued.

(C-32-8)26bdal. State application 12159. M. L. Dailey, Paragonah. Diameter 60 inches, depth 18+ feet. Measuring point, top of steel pump support frame, 0.9 foot above land surface and 5798.71 feet above sea level. Measurements discontinued after Sept. 12, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
June 15, 1938	a 17.3	Aug. 8, 1938	a 15.6	July 16, 1940	18.85
July 15	a 15.7	Sept. 8	a 16.3	Sept. 12	b

(C-32-8)26bda2. State claim 13478. M. L. Dailey, Paragonah. Diameter 2 inches, depth 200 feet. Measuring point, top of reducer on casing, 1.0 foot above land surface and 5789.40 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 6, a/3.3; Sept. 10, a/c/3.2. Measurements discontinued.

(C-32-8)27dcal. A. F. Robinson, Paragonah. Diameter 2 inches. Measuring point, top of casing, 0.3 foot above land surface and 5752.16 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 7, a/29.6; Sept. 10, a/c/26.2. Measurements discontinued.

(C-32-8)32acbl. Rex Ward, Paragonah. Diameter 3 inches. Measuring point, top of end of discharge pipe, 1.2 feet above land surface and 5730.82 feet above sea level. Water level, in feet above measuring point, 1940: Mar. 15, a/19.2. Measurements discontinued.

(C-32-8)32bdd3. W. H. McGinty, Paragonah. Diameter 3 inches. Measuring point, top of 3 inch ell, 1.3 feet above land surface and 5731.09 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 15, a/2.2; Sept. 12, c/0.50. Measurements discontinued.

(C-32-8)32cccl. W. H. McGinty. Given as Rex Ward in Water Supply Paper 886. Measurements discontinued after Sept. 12, 1940.

Water level, in feet above measuring point, 1940

Jan. 8	a 6.3	Mar. 15	a 9.6	Sept. 12	c 4.6
Feb. 5	a 6.5	Apr. 2	a 7.2		

(C-32-8)34aad2. State claim 18167. J. C. Robinson, Paragonah. Diameter 2 inches. Measuring point, top of bead on ell, 1.0 foot above land surface and 5763.64 feet above sea level. Water levels, in feet above measuring point, 1940: Apr. 24, a/11.6; Sept. 10, a/11.6. Measurements discontinued.

(C-32-8)34abd2. State claim 13484. J. E. Lister, Paragonah. Diameter 2 inches. Measuring point, top of casing, 0.2 foot above land surface and 5751.18 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 6, a/33.3; Apr. 24, a/30.2; Sept. 12, 30.6. Measurements discontinued.

(C-32-8)34baal. A. F. Robinson, Paragonah. Diameter 2 inches. Measuring point, top of vertical casing, 1.5 feet above land surface and 5741.05 feet above sea level. Measurements discontinued after Sept. 10, 1940.

Water level, in feet above measuring point, 1938, 1940

July 15, 1938	a 13.1	Sept. 8, 1938	a 14.3	Apr. 24, 1940	a 18.0
Aug. 8	a 14.3	Mar. 7, 1940	a 18.6	Sept. 10	a 17.0

(C-32-8)35bcbl. State claim 5683. H. N. Edwards. Record begins in 1939.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	ac 8.9	Apr. 2	ac 8.9	June 5	a 6.4	Aug. 20	a 9.2
Feb. 1	a 10.3	21	ac 8.4	July 17	a 8.4	Oct. 1	a 9.6
Mar. 4	ac 9.4	May 1	ac 8.3				

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Dry.
c Found flowing prior to measurement.

Iron County - Parowan Valley--Continued.

(C-33-8)4accl. State claim 15960. H. J. Mitchell, Paragonah. Diameter 4 inches. Measuring point, top of casing, level with land surface and 5736.54 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 7, a/18.9; Sept. 4, a/b/7.5. Measurements discontinued.

(C-33-8)4cccl. State claim 15966. H. J. Mitchell, Parowan. Diameter 4 inches. Measuring point, top of casing, 0.6 foot above land surface and 5725.19 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 7, a/21.6; Sept. 4, a/b/5.5. Measurements discontinued.

(C-33-8)4cdd3. State claim 15969. Harold Mitchell. Water levels, in feet above measuring point, 1940: Mar. 4, a/25.6; Sept. 12, b/6.6. Measurements discontinued.

(C-33-8)7ccal. State claim 6930. Phillip Benson, Parowan. Diameter 3 inches, depth 100 feet. Measuring point, top of vertical casing, 0.5 foot above land surface and 5691.13 feet above sea level. Water levels, in feet above measuring point: Jan. 19, 1939, a/22.4; Mar. 15, 1940, a/19.0; Sept. 11, 1940, b/9.7. Measurements discontinued.

(C-33-8)9aaal. State claim 15961. H. J. Mitchell, Parowan. Diameter 4 inches. Measuring point, top of vertical tee, 1.0 foot above land surface and 5763.15 feet above sea level. Measurements discontinued after Sept. 4, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Mar. 12	a 14.7	June 11	a 8.4	Sept. 4	ab 9.2
Apr. 26	a 10.4	July 30	a 9.2		

(C-33-8)9bad3. State claim 15964. H. J. Mitchell, Parowan. Diameter 3 inches. Measuring point, top of casing, 1.5 feet above land surface and 5739.54 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 12, a/27.3; Sept. 4, a/b/6.9. Measurements discontinued.

(C-33-8)15bbdl. State claim 18610. Walter Talbot, Paragonah. Diameter 2 inches, depth 200 feet. Measuring point, top of 2 inch ell, 0.5 foot below land surface and 5762.99 feet above sea level.

Water level, in feet above measuring point, 1940

Mar. 12	a 7.1	June 20	a 5.8	Sept. 5	ab 5.4
May 6	a 6.8	July 31	a 5.8		

(C-33-8)15cbdl. Eva Talbot and others. Measurements discontinued.

(C-33-8)17ccdl. State claim 13702. T. W. Jones, Paragonah. Diameter 2 inches, depth 40 feet. Measuring point, top of bead on ell, 0.3 foot above land surface and 5724.40 feet above sea level. Measurements discontinued after Sept. 6, 1940.

Water level, in feet above measuring point, 1940

Mar. 12	a 11.7	June 14	a 9.6	Sept. 6	a 8.1
May 6	a 11.2	July 31	a 9.7		

(C-33-8)17cddl. T. W. Jones, Paragonah. Diameter 2 inches. Measuring point, top of casing, 1.0 foot above land surface and 5734.25 feet above sea level. Measurements discontinued after Sept. 6, 1940.

Water level, in feet above measuring point, 1938-40

June 8, 1938	a 6.5	Jan. 14, 1939	a 5.9	June 14, 1940	a 6.2
July 12	a 5.8	Mar. 12, 1940	a 7.3	July 31	a 7.3
Aug. 3	a 5.5	May 6	a 6.3	Sept. 6	a 5.9
Sept. 6	a 5.5				

(C-33-8)17dddl. State claim 10325. T. R. Robinson, Paragonah. Diameter 2 inches. Measuring point, top of bead on ell, 1.6 feet above land surface and 5756.03 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 12, a/18.0; July 31, a/15.0; Sept. 6, a/15.8; Oct. 9, a/17.0. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing prior to measurement.

Iron County - Parowan Valley--Continued.

(C-33-8)18abc1. State claim 11722. Eva Talbot. Measurements discontinued after Apr. 2, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 8	a 21.6	Mar. 6	a 23.8	Apr. 2	a 24.2
Feb. 16	a 22.1	13	a 24.2		

(C-33-8)18abc2. State claim 11723. Eva Talbot and others, Parowan. Diameter 2 inches. Measuring point, top of vertical casing, 1.5 feet above land surface and 5715.70 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 13, a/11.6; Sept. 6, a/7.0. Measurements discontinued.

(C-33-8)18acb1. State claims 11724 and 13718. Eva Talbot and others, Parowan. Diameter 2 inches, depth 140 feet. Measuring point, top of vertical casing, 0.9 foot above land surface and 5715.57 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 13, a/32.0; Sept. 6, a/b/18.6. Measurements discontinued.

(C-33-8)19ddd1. State claim 15143. State of Utah. Measurements discontinued after May 6, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	a 19.4	Mar. 5	a 19.8	Apr. 3	a 20.3	May 6	a 19.2
Feb. 5	a 19.3	13	a 20.2	May 2	a 19.2		

(C-33-8)19ddd2. State claim 15144. State Land Board, Parowan. Diameter 2 inches, depth 250 feet. Measuring point, top of bead on ell, at land surface and 5734.48 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 16, a/20.4; May 6, a/19.2; Sept. 6, a/8.8. Measurements discontinued.

(C-33-8)19ddd3. State claim 15145. State Land Board, Parowan. Diameter 2 inches, depth 250 feet. Measuring point, top of bead on ell, 1.4 feet above land surface and 5735.89 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 13, a/31.1; Sept. 5, a/b/25.0. Measurements discontinued.

(C-33-8)20aad1. T. R. Robinson. Measurements discontinued after Sept. 9, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	a 14.7	Mar. 6	a 15.0	Apr. 2	a 15.5	Sept. 9	a 14.4
Feb. 5	a 14.9	14	a 15.2	Aug. 1	a 14.4		

(C-33-8)20acd4. State claim 4296. J. R. Topham, Paragonah. Diameter 2 inches, depth 228 feet. Measuring point, top of bead on ell, 0.5 foot above land surface and 5753.26 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 13, a/25.8; Sept. 9, a/18.0. Measurements discontinued.

(C-33-8)20cdd4. State claim 7874. Federal Land Bank, Parowan. Diameter 2 inches, depth 125 feet. Measuring point, top of tee, 0.3 foot above land surface and 5754.11 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 13, a/13.5; Sept. 9, a/b/5.6. Measurements discontinued.

(C-33-8)28bbb1. State claim 15133. State Land Board, Parowan. Diameter 4 inches, depth 350 feet. Measuring point, bottom of hole in shoulder of pump base, 1.2 feet above land surface and 5783.41 feet above sea level. Water levels, in feet below measuring point, 1940: July 17, 12.27; Sept. 7, 12.16; Dec. 5, 12.28.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing prior to measurement.

Iron County - Parowan Valley--Continued.

(C-33-8)29bbd1. State claim 13981. S. T. Topham, Paragonah. Diameter 2 inches, depth 160 feet. Measuring point, top of ell, 2.4 feet above land surface and 5747.14 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet above measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
Aug. 1, 1938	a 6.2	Mar. 14, 1940	a 11.0	Sept. 9, 1940	b 4.8
Sept. 1	a 6.2	May 10	a 9.1		

(C-33-8)29bdd1. A. E. Topham, Paragonah. Diameter 60 inches, depth 35 feet. Measuring point, top of plank spanning well, level with land surface and 5765.90 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet below measuring point, 1938-40

June 4, 1938	a 9.8	Aug. 1, 1938	a 9.9	Jan. 17, 1939	a 12.3
July 8	a 9.6	Sept. 1	a 10.8	Sept. 9, 1940	10.60

(C-33-8)29bdd2. A. E. Topham, Paragonah. Diameter 2 inches. Measuring point, top of ell, 0.9 foot above land surface and 5771.64 feet above sea level. Water levels, in feet above measuring point: Jan. 17, 1939, a/1.85; Mar. 14, 1940, a/6.4; Sept. 11, 1940, 2.1. Measurements discontinued.

(C-33-8)29caa3. State claim 11803. S. T. Topham, Paragonah. Diameter 2 inches, depth 275 feet. Measuring point, top of discharge pipe, 0.5 foot above land surface and 5764.32 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 14, a/11.8; May 10, a/9.9; Sept. 8, b/8.3. Measurements discontinued.

(C-33-8)29caa4. State claim 13982. S. T. Topham, Paragonah. Diameter 2 inches. Measuring point, top of ell, 0.8 foot above land surface and 5773.26 feet above sea level. Found flowing prior to all measurements. Measurements discontinued after Sept. 10, 1940.

Water level, in feet above measuring point, 1937-38, 1940

Dec. 15, 1937	a 3.7	Sept. 1, 1938	a 4.7	June 6, 1940	a 7.2
June 4, 1938	a 4.0	Mar. 14, 1940	a 7.6	Aug. 2	a 7.4
July 8	a 4.3	May 10	a 7.4	Sept. 10	a 7.0
Aug. 1	a 4.7				

(C-33-8)29ccd1. State claim 17351. H. E. Owens, Parowan. Diameter 2 inches. Measuring point, top of ell, 1.0 foot above land surface and 5766.46 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 14, a/7.8; Aug. 3, a/5.8; Sept. 10, a/b/3.4. Measurements discontinued.

(C-33-8)29ccd2. State claim 17350. H. E. Owens, Parowan. Diameter 2 inches. Measuring point, top of ell, 0.9 foot above land surface and 5768.03 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 14, a/11.4; Sept. 10, a/b/8.6. Measurements discontinued.

(C-33-8)30dad1. State claim 1265. M. E. Prethers, Paragonah. Diameter 2 inches, depth 80 feet. Measuring point, top of casing, 0.6 foot above land surface and 5747.21 feet above sea level. Water levels, in feet above measuring point: Jan. 16, 1939, a/18.0; Mar. 14, 1940, a/21.3; Sept. 10, 1940, 16.8. Measurements discontinued.

(C-33-8)30dad2. State claim 15892. M. E. Prethers, Paragonah. Diameter 2 inches, depth 80 feet. Measuring point, top of ell, level with land surface and 5746.45 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 14, a/28.7; Aug. 3, a/27.3; Sept. 10, a/b/26.2. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing prior to measurement.

Iron County - Parowan Valley--Continued.

(C-33-8)30dddl. W. T. Davenport. Measurements discontinued after May 10, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 5	a 2.46	Apr. 3	a 2.47	May 10	a 2.45
Mar. 5	a 2.46	May 2	a 2.51		

(C-33-8)31acbl. State claim 4780. T. A. Topham, Paragonah. Diameter 2 inches. Measuring point, top of ell, 1.0 foot above land surface and 5762.43 feet above sea level. Water levels, in feet above measuring point: Jan. 17, 1939, a/10.6; Mar. 14, 1940, a/11.9; Aug. 3, a/10.6; Sept. 7, 1940, 10.7. Measurements discontinued.

(C-33-8)31bdbl. State claim 13979. W. H. Boardman, Paragonah. Diameter 4½ inches, depth 325 feet. Measuring point, top of end of discharge pipe, 0.3 foot above land surface and 5765.13 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 14, a/7.8; Sept. 7, b/2.50; Sept. 10, b/2.8. Measurements discontinued.

(C-33-9)1daal. State claim 4740. H. A. Mitchell estate, Paragonah. Diameter 3 inches. Measuring point, top of casing, 0.2 foot above land surface and 5734.37 feet above sea level. Water levels, in feet above measuring point: Aug. 24, 1938, a/3.1; Sept. 19, 1938, a/3.3; Mar. 15, 1940, a/5.8; May 14, 1940, a/5.0; Sept. 12, 1940, 3.72. Measurements discontinued.

(C-33-9)1dadl. State claim 4744. Henry Mitchell estate. Measurements discontinued after May 14, 1940.

Water level, in feet above measuring point, 1940

Jan. 9	a 8.5	Mar. 1	a 10.6	May 14	a 9.3
Feb. 6	a 9.9	Apr. 2	a 7.2		

(C-33-9)1dad2. State claim 4743. Henry Mitchell estate. Record begins in 1938.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 9	a 15.2	Mar. 1	a 16.5	Apr. 2	a 16.3	Sept. 12	14.7
Feb. 16	a 16.0	15	a 16.5	May 1	a 15.8		

(C-33-9)1dad3. State claim 4742. H. A. Mitchell estate, Parowan. Diameter 2 inches. Measuring point, top of casing, 1.0 foot above land surface and 5718.26 feet above sea level. Water levels, in feet above measuring point, 1940: May 14, a/4.8; Sept. 12, 4.5. Measurements discontinued.

(C-33-9)1ddal. State claim 4741. Henry Mitchell estate. Water levels, in feet below measuring point, 1940: Feb. 6, a/8.4; Mar. 1, a/8.7; Mar. 15, a/6.0; May 1, a/5.4. Measurements discontinued.

(C-33-9)11aaal. State claim 5123. Lenora Stubbs, Parowan. Diameter 3 inches, depth 342 feet. Measuring point, top of casing, 1.0 foot above land surface and 5722.50 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 15, a/13.0; May 14, a/10.8; Sept. 12, 8.9. Measurements discontinued.

(C-33-9)11aaa2. State claim 5124. Lenora Stubbs, Parowan. Diameter 3 inches, depth 200 feet. Measuring point, top of casing, 0.4 foot above land surface and 5721.68 feet above sea level. Measurements discontinued after Sept. 12, 1940.

Water level, in feet above measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
Aug. 24, 1938	a 4.4	Mar. 15, 1940	a 9.2	Sept. 12, 1940	5.45
Oct. 19	a 5.5	May 14	a 7.4		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing prior to measurement.

Iron County - Parowan Valley--Continued.

(C-33-9)11acbl. State claim 5134. Emil Witte. Water levels, in feet above measuring point, 1940: Jan. 9, a/12.4; Feb. 6, a/12.8; Mar. 1, a/13.1; Sept. 12, b/8.4. Measurements discontinued.

(C-33-9)11acb2. State claim 5135. E. Witte and M. Ayres, Paragonah. Diameter 3 inches, depth 250 feet. Measuring point, top of casing, 0.9 foot above land surface and 5719.35 feet above sea level. Water levels, in feet above measuring point: Aug. 24, 1938, a/6.3; Mar. 15, 1940, a/10.1; Sept. 12, 1940, b/5.4. Measurements discontinued.

(C-33-9)13ddd2. J. O. Decker, Parowan. Diameter 2 inches. Measuring point, top of ell, 2.1 feet above land surface and 5710.52 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 15, a/3.70; Sept. 10, b/0.65. Measurements discontinued.

(C-33-9)14adcl. State claim 6929. Eva W. Jensen, Parowan. Diameter 3 inches, depth 550 feet. Measuring point, top of casing, 1.1 feet above land surface and 5712.00 feet above sea level. Water levels, in feet above measuring point: Jan. 20, 1939, a/8.6; Mar. 18, 1940, a/10.8; Sept. 10, 1940, b/1.18. Measurements discontinued.

(C-33-9)14ccal. State claim 6488. W. M. Eyre estate, Parowan. Diameter 4½ inches, depth 550 feet. Measuring point, top of ell, 1.4 feet above land surface and 5718.94 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 18, a/13.9; Sept. 10, b/4.10. Measurements discontinued.

(C-33-9)14cccl. State claim 6489. W. M. Eyre estate. Measurements discontinued after Apr. 2, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 9	a 19.2	Mar. 6	a 21.8	Apr. 2	a 20.2
Feb. 6	a 20.5	18	a 20.9		

(C-33-9)14dcdl. State claim 18768. R. Fox and H. C. Eyre, Parowan. Diameter 3 inches. Measuring point, top of ell, 1.5 feet above land surface and 5723.80 feet above sea level. Water levels, in feet, with reference to measuring point, 1940: Mar. 18, a/+8.6; July 16, -0.55; Sept. 10, -1.33. Measurements discontinued.

(C-33-9)23dddl. T. E. Fowler, Parowan. Diameter 2 inches. Measuring point, top of casing, 2.3 feet above land surface and 5708.85 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 18, a/17.7; Sept. 10, b/0.57. Measurements discontinued.

(C-33-9)24abal. State claim 10202. Anrie Decker.

Water level, at noon, in feet above measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	18.5	19.7	20.7	20.4	17.1	13.2	12.5	11.4	11.3	13.4	15.5
2	....	18.7	19.7	20.7	20.4	17.0	13.4	12.5	11.2	11.5	13.7	15.5
3	....	18.7	19.7	20.9	20.3	16.9	13.5	12.6	11.2	11.7	13.7	15.6
4	....	18.7	19.7	20.9	20.1	16.8	13.6	12.5	c 3.5	11.7	13.6	15.8
5	....	18.5	19.9	21.1	19.9	16.6	13.7	12.4	c 3.3	11.7	13.6	16.0
6	....	18.7	19.8	21.0	19.8	16.5	13.6	12.5	c 3.0	11.8	13.8	16.1
7	....	18.8	20.0	20.8	19.6	16.4	13.6	12.5	c 3.0	11.8	13.9	16.1
8	....	18.7	20.2	21.0	19.6	16.3	13.6	12.7	c 3.2	11.9	14.1	16.0
9	....	....	20.1	21.1	19.5	16.2	13.6	12.6	c 3.1	12.0	14.1	16.0
10	....	....	20.0	21.1	19.4	16.2	13.6	12.6	c 3.0	12.0	13.8	16.1
11	....	....	19.9	21.2	19.2	16.2	13.6	12.5	c 2.6	12.2	13.9	16.2
12	....	....	20.0	21.2	18.9	16.0	13.6	12.5	8.1	12.2	14.0	....
13	....	....	20.0	21.2	18.8	16.1	13.4	12.6	9.4	12.3	14.1	....
14	....	....	20.1	21.4	18.8	16.0	13.2	12.5	9.9	12.3	14.1	....
15	....	....	20.2	21.4	18.8	c 5.5	13.2	12.4	10.1	12.4	14.2	....
16	....	....	20.2	21.2	18.6	c 5.0	13.0	12.4	10.1	12.6	14.4	....

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing prior to measurement.
c Well flowing through faucet.

Iron County - Parowan Valley--Continued.

(C-33-9)24abal.--Continued.

Water level, at noon, in feet above measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
17	....	....	20.0	21.2	18.3	a 4.7	13.0	12.3	10.2	12.6	14.5	....
18	....	....	20.0	21.2	18.3	a 4.6	13.0	12.2	10.3	12.6	14.5	....
19	....	19.3	20.2	21.3	18.2	a 4.5	12.9	12.2	10.4	12.7	14.5	....
20	....	19.2	20.3	21.2	18.1	a 4.4	12.9	12.2	10.4	12.7	14.6	....
21	....	....	20.5	21.2	18.0	a 4.3	12.8	12.2	10.6	12.7	14.5	17.0
22	....	19.5	20.6	21.1	18.0	a 4.0	12.7	12.1	10.6	12.7	14.8	17.0
23	....	19.6	20.7	21.0	17.9	a 4.0	12.6	12.0	10.7	12.8	14.8	17.3
24	....	19.6	20.8	21.0	18.0	a 3.9	12.6	12.0	10.7	12.9	14.8	....
25	....	19.6	20.7	21.0	17.7	10.6	12.6	11.8	10.9	13.0	15.0	17.0
26	....	19.5	20.5	20.8	17.6	12.6	12.6	11.7	11.0	13.0	15.1	17.1
27	18.3	19.7	20.6	20.5	17.4	12.9	12.5	11.7	11.3	12.9	....	17.5
28	18.3	19.8	20.8	20.5	17.4	13.7	12.5	11.7	11.2	12.9	....	17.3
29	18.2	20.0	20.8	20.4	17.3	13.3	12.5	11.7	11.2	13.0	15.5	17.4
30	18.4	....	20.8	20.3	17.3	13.2	12.5	11.6	11.2	13.2	15.5	17.3
31	18.4	....	21.0	....	17.2	....	12.5	11.5	....	13.3	....	17.4

(C-33-9)24bddl. State claim 17657. Iron County, Parowan. Diameter 4 inches. Measuring point, top of ell, 1.4 feet above land surface and 5707.43 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 18, b/14.0; Sept. 10, c/3.60. Measurements discontinued.

(C-33-9)24ccc1. D. H. Waid, Parowan. Diameter 2 inches. Measuring point, top of casing, 0.8 foot below land surface and 5708.70 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 18, b/33.1; Sept. 10, c/13.8. Measurements discontinued.

(C-33-9)24cdd1. State claims 12261 and 17353. W. L. Adams. Measurements discontinued after Sept. 10, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 6	b 32.0	Mar. 18	b 33.0	May 2	b 25.8
Mar. 6	b 32.6	Apr. 2	b 33.3	Sept. 10	c 9.1

(C-33-9)25bdc1. John Taylor, Parowan. Diameter 2 inches. Measuring point, top of ell, level with land surface and 5728.93 feet above sea level. Water levels, in feet, with reference to measuring point, 1940: Mar. 18, b/+10.0; Sept. 10, -2.10. Measurements discontinued.

(C-33-9)25cdd3. State claim 17710. State Land Board. Water levels, in feet, with reference to measuring point, 1940: Mar. 19, b/+5.1; July 17, -9.34. Measurements discontinued.

(C-33-9)26add2. State claim 19597. M. E. Trimmer, Parowan. Diameter 2 inches. Measuring point, top of casing, 0.5 foot above land surface and 5722.93 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 19, b/5.5; Sept. 10, c/2.05. Measurements discontinued.

(C-33-9)26bbb1. State claim 12820. Federal Land Bank. Measurements discontinued after Sept. 10, 1940.

Water level, in feet above measuring point, 1940

Jan. 9	b 20.8	Feb. 28	22.8	Sept. 10	c 3.20
Feb. 6	b 22.2	Mar. 29	21.7		

(C-33-9)26bdc1. State claims 6758 and 6754. Federal Land Bank, Parowan. Diameter 2 inches, depth 60 feet. Measuring point, top of casing, 0.7 foot above land surface and 5714.87 feet above sea level. Water levels, in feet, with reference to measuring point, 1940: July 17, b/+2.06; Sept. 10, -2.5. Measurements discontinued.

a Well flowing through faucet.
b Measurement by Utah State Engineer in cooperation with Works Projects Administration.
c Found flowing prior to measurement.

Iron County - Parowan Valley--Continued.

(C-33-9)26cacl. State claim 6751. Federal Land Bank, Parowan. Diameter 2 inches, depth 123 feet. Measuring point, top of casing, 0.4 foot above land surface and 5725.37 feet above sea level. Water levels, in feet, with reference to measuring point: June 30, 1938, a/0.00; July 17, 1940, -4.40; Sept. 10, 1940, -4.91. Measurements discontinued.

(C-33-9)26cad2. State claim 6755. Federal Land Bank, Parowan. Diameter 2 inches, depth 270 feet. Measuring point, top of casing, 1.4 feet above land surface and 5726.32 feet above sea level. Water levels, in feet, with respect to measuring point, 1940: Mar. 29, a/+17.8; Sept. 10, -0.55. Measurements discontinued.

(C-33-9)27aac3. John Miller, Parowan. Diameter 2 inches, depth 100 feet. Measuring point, top of end of discharge pipe, 1.0 foot above land surface and 5707.33 feet above sea level. Water levels, in feet above measuring point, 1940: Mar. 29, a/30.8; Sept. 9, b/10.3. Measurements discontinued.

(C-33-9)27cadl. J. P. Bayles, Parowan. Diameter 2 inches. Measuring point, top of casing, 0.5 foot above land surface and 5720.95 feet above sea level. Water levels, in feet, with reference to measuring point, 1940: Mar. 30, a/+8.7; Sept. 9, -15.81. Measurements discontinued.

(C-33-9)27cad2. J. P. Bayles, Parowan. Diameter 2 inches. Measuring point, top of coupling, 0.1 foot above land surface and 5720.50 feet above sea level. Water levels, in feet, with reference to measuring point, 1940: Mar. 30, a/+6.8; Sept. 9, -18.10. Measurements discontinued.

(C-33-9)27dbc4. State claim 18624. Thomas Taylor, Parowan. Diameter 2 inches, depth 226 feet. Measuring point, top of casing, 0.3 foot above land surface and 5723.43 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet, with reference to measuring point, 1937-38, 1940

Date	Water level	Date	Water level	Date	Water level
Dec. 18, 1937	a -0.12	July 23, 1938	a -18.55	Oct. 15, 1938	a -8.34
May 26, 1938	a -7.98	Aug. 15	a -18.81	Mar. 30, 1940	a +5.40
June 28	a-17.20	Sept.14	a -19.45	Sept. 9	-17.74

(C-33-9)28abdl. State claim 17259. John Dolorinski. Record begins in 1938.

Water level, in feet, with reference to measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 9	a +12.9	Mar. 2	a +14.8	Apr. 2	a +15.3	July 19	-0.72
Feb. 6	a +14.0	30	a +15.2	May 3	a +14.0	Sept. 9	-3.50

(C-33-9)28acal. State claim 17260. John Dolorinski, Parowan. Diameter 8 inches. Measuring point, top of casing, 0.2 foot above land surface and 5714.78 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet, with reference to measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 26, 1938	a -0.73	Aug. 15, 1938	a-15.95	July 19, 1940	-14.45
June 28	a -12.50	Sept. 12	a -5.0	Sept. 9	-15.47
July 22	a -14.78	Mar. 30, 1940	a+10.7		

(C-33-9)28addl. C. G. Paramore, Parowan. Diameter 3 inches. Measuring point, top of ell, 1.7 feet above land surface and 5719.18 feet above sea level. Water levels, in feet, with reference to measuring point, 1940: Mar. 30, a/+8.6; July 19, -16.67; Sept. 9, -16.85. Measurements discontinued.

(C-33-9)32ccdl. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing prior to measurement.

Iron County - Parowan Valley--Continued.

(C-33-9)32ccd2. State claim 17335. Alfred Wilcox. Record begins in 1938.

Water level, in feet, with reference to measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 9	a + 9.7	Mar. 30	a +10.0	May 3	a -0.95	Sept. 7	-14.00
Feb. 6	a +10.2	Apr. 2	a + 7.8	July 17	-12.42	Dec. 5	+ 6.0
Mar. 2	a +10.7						

(C-33-9)32cdd1. State claim 19510. E. E. Meyers estate, Parowan. Diameter 3 inches. Measuring point, top of casing, 0.2 foot above land surface and 5703.13 feet above sea level. Measurements discontinued after Sept. 7, 1940.

Water level, in feet, with reference to measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 25, 1938	a - 1.98	Sept. 13, 1938	a-14.90	July 17, 1940	-12.90
June 28	a -11.00	Oct. 15	a -8.11	Sept. 7	-14.82
July 24	a -13.35	Mar. 30, 1940	a +6.6		

(C-33-9)32cdd2. State claim 19511. Edward Stubbs, Parowan. Diameter 2 inches. Measuring point, top of casing, 0.2 foot above land surface and 5703.05 feet above sea level. Measurements discontinued after Sept. 8, 1940.

Water level, in feet, with reference to measuring point, 1937-38, 1940

Dec. 17, 1937 a - 1.20	July 22, 1938 a -17.63	Mar. 30, 1940 a + 1.30
May 25, 1938 a -11.22	Sept.13 a -19.05	July 17 -19.03
June 28 a -15.60	Oct. 15 a -13.70	Sept. 8 -21.48

(C-33-9)32cdd3. State claim 19513. Edward Stubbs, Parowan. Diameter 2 inches. Measuring point, top of casing, 0.2 foot above land surface and 5703.07 feet above sea level. Measurements discontinued after July 17, 1940.

Water level, in feet, with reference to measuring point, 1937-38, 1940

Dec. 17, 1937 a + 1.12	July 22, 1938 a -18.47	Oct. 15, 1938 a -12.79
May 25, 1938 a - 8.50	Aug. 13 a -34.75	Mar. 30, 1940 a + 1.88
June 28 a -16.70	Sept.13 a -19.70	July 17 -18.70

(C-33-9)32dad2. State claim 17338. State Land Board, Parowan. Diameter 4 inches. Measuring point, top of ell, 1.0 foot above land surface and 5703.41 feet above sea level. Water levels, in feet below measuring point, 1940: July 17, 14.4; Sept. 9, 15.84. Measurements discontinued.

(C-33-9)32dcd1. State claim 10619. State Land Board, Parowan. Diameter 3 inches. Measuring point, top of casing, 0.4 foot above land surface and 5703.72 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet below measuring point, 1938, 1940

May 25, 1938 a 4.60	Aug. 13, 1938 a 19.80	July 17, 1940 15.37
June 28 a 13.80	Sept.13 a 17.05	Sept. 9 16.60
July 22 a 15.75	Oct. 15 a 9.25	

(C-33-9)32dcd3. State claim 16543. State Land Board, Parowan. Diameter 2 inches. Measuring point, top of tee on casing, 0.7 foot above land surface and 5703.90 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet below measuring point, 1938, 1940

May 25, 1938 a 9.40	Aug. 13, 1938 a 15.52	Mar. 31, 1940 a 1.25
June 28 a 12.60	Sept.13 a 15.05	Sept. 9 14.78
July 22 a 14.03	Oct. 15 a 11.15	

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Iron County - Parowan Valley--Continued.

(C-33-9)32dddl. State claim 10620. State of Utah. Measurements discontinued after Dec. 5, 1940.

Water level, in feet, with reference to measuring point, 1939, 1940

Date	Water level	Date	Water level	Date	Water level
Oct. 27, 1939	a -9.90	Feb. 6, 1940	a + 2.40	July 17, 1940	-23.77
Nov. 20	a -6.63	Mar. 2	a + 2.8	Sept. 7	-24.58
Dec. 6	a -1.27	Apr. 2	a + 0.45	Dec. 5	- 3.45
Jan. 9, 1940	a +0.87	May 3	a -12.0		

(C-33-9)33bbdl. State claim 1232. Arthur Joseph, Parowan. Diameter 4½ inches, depth 400 feet. Measuring point, top of ell, 1.0 foot above land surface and 5706.93 feet above sea level. Water levels, in feet below measuring point, 1940: July 19, 17.46; Sept. 9, 18.30. Measurements discontinued.

(C-33-9)34aad3. Eugene Warren, Parowan. Diameter 3 inches, depth 300 feet. Measuring point, top of casing, 1.7 feet above land surface and 5737.15 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet, with reference to measuring point, 1938, 1940

May 24, 1938	a - 7.14	Aug. 12, 1938	a -15.04	Mar. 31, 1940	a + 2.40
June 25	a -13.40	Sept.13	a -14.75	Sept. 9	-17.18
July 21	a -14.15	Oct. 14	a - 4.64		

(C-33-9)34aad5. Eugene Warren, Parowan. Diameter 2 inches. Measuring point, top of ell, 1.9 feet above land surface and 5737.30 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet, with reference to measuring point, 1937-38, 1940

Dec. 20, 1937	a + 0.06	Aug. 12, 1938	a -15.56	Mar. 31, 1940	a + 1.60
May 21, 1938	a - 8.25	Sept.13	a -15.52	July 17	-20.37
June 25	a -14.08	Oct. 14	a - 5.87	Sept. 9	-15.94
July 21	a -15.02				

(C-33-9)34cbd2. State claim 5694. Mary Marsden. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	a 20.35	Mar. 31	a 19.48	May 3	ab 38.40	Sept. 9	47.03
Feb. 6	a 19.78	Apr. 2	a 19.90	Sept. 7	c 49.4	Dec. 5	25.07
Mar. 4	a 19.36						

(C-33-9)34dbd2. State claim 16046. Oscar Lyman. Water levels, in feet below measuring point, 1940: Jan. 12, a/1.24; Sept. 9, 18.68. Measurements discontinued.

(C-33-9)34dbd3. O. M. Lyman, Parowan. Diameter 2 inches, depth 40 feet. Measuring point, top of casing, 1.8 feet above land surface and 5756.00 feet above sea level. Water levels, in feet below measuring point: July 9, 1938, 40.90; Dec. 28, 1938, 1.52; Sept. 9, 1940, 19.30. Measurements discontinued.

(C-33-9)34dcdl. State claim 6750. Federal Land Bank. Record begins in 1935. Measuring point changed to bottom of pump base, 2.18 feet above former measuring point, which was top of concrete curb.

Water level, in feet below measuring point, 1940

Jan. 12	a 6.02	Mar. 4	a 4.86	Apr. 2	a 5.00	Dec. 5	9.74
Feb. 6	a 5.41	31	a 4.70	May 3	ab 54.93		

(C-33-9)34dddl. State claim 13496. J. B. Dalton, Parowan. Diameter 12 inches, depth 515 feet. Measuring point, top of casing, level with land surface and 5773.5 feet above sea level. Water levels, in feet below measuring point, 1940: Sept. 8, 38.40; Dec. 5, 24.00.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Pumping.

c Pump shut off 10 minutes prior to measurement.

Iron County - Parowan Valley--Continued.

(C-33-9)35bbc3. State claim 13508. Clark Orton. Measurements discontinued after Sept. 9, 1940.

Water level, in feet, with reference to measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 12	a +6.3	Mar. 4	a +9.4	July 17	-10.86
Feb. 6	a +8.5	May 2	a -5.40	Sept. 9	-13.80

(C-33-9)35ddd1. State claim 13812. State of Utah. Record begins in 1937.

Water level, in feet below measuring point, 1940

Jan. 12	a 35.10	Mar. 4	a 34.81	May 2	ab 46.94
Feb. 6	a 34.54	Apr. 1	a 33.60	Dec. 5	39.53

(C-33-9)36aaa1. State claim 5136. Emerson Adams. Measurements discontinued after Sept. 10, 1940.

Water level, in feet above measuring point, 1940

Jan. 9	a 7.6	Mar. 6	a 8.8	May 2	a 2.00
Feb. 5	a 7.8	Apr. 2	a 9.2	Sept. 10	c 0.60

(C-33-9)36bbc1. State claim 1264. R. W. Hulet. Measurements discontinued after Dec. 5, 1940.

Water level, in feet below measuring point, 1940

Jan. 8	a 5.00	Mar. 4	a 4.00	May 2	a 21.40
Feb. 5	a 4.60	Apr. 2	a 4.10	Dec. 5	8.70

(C-33-9)36dcd1. State claim 494. H. L. Adams. Record begins in 1933.

Water level, in feet below measuring point, 1940

Jan. 8	a 38.20	Mar. 4	a 36.15	Sept. 7	d 55.0
Feb. 5	a 36.82	Apr. 2	a 36.02	Dec. 5	41.35

(C-33-10)25cdb1. (C-33-10)25cdd1 in Water-Supply Paper 887. State claim 19517. Edgar Benson, Parowan. Diameter 2 inches, depth 85 feet. Measuring point, top of casing, 0.5 foot below land surface and 5684.5 feet above sea level. Water level, in feet below measuring point, 1940: Sept. 8, 0.56. Measurements discontinued.

(C-33-10)25cdd1. State claim 10612. Edgar Benson, Parowan. Diameter 144 inches, depth 15 feet. Measuring point, top of curb at spike, 1.0 foot above land surface and 5685.43 feet above sea level. Water levels, in feet below measuring point, 1940: July 19, 1.96; Sept. 8, 1.90. Measurements discontinued.

(C-34-8)5bca1. (C-34-8)5bb in Water-Supply Paper 886. Drought Relief Administration. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	a 23.52	Mar. 5	a 22.41	Apr. 2	a 21.93	Sept. 7	24.06
Feb. 5	a 23.31	16	22.05	May 8	a 22.02	Dec. 5	24.85

(C-34-9)1daa1. State claim 18525. Robert Hughes, Parowan. Diameter 6 inches, depth 70 feet. Measuring point, top of casing, 1.0 foot above land surface and 5825.60 feet above sea level. Water levels, in feet below measuring point, 1940: Mar. 30, 60.68; Sept. 9, 67.30. Measurements discontinued.

(C-34-9)2ccc1. State claim 13659. J. R. Lister estate, Parowan. Diameter 4¼ inches, depth 84 feet. Measuring point, top of casing, 0.35 foot above land surface and 5821.07 feet above sea level. Water level, in feet below measuring point, 1940: Mar. 30, 54.95. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Pumping.
c Found flowing prior to measurement.
d Measurement made immediately after pumping.

Iron County - Parowan Valley--Continued.

(C-34-9)3bda1. C. C. Connel, Parowan. Diameter 2 inches. Measuring point, top of casing, 1.4 feet above land surface and 5763.62 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet below measuring point, 1937-38, 1940

Date	Water level	Date	Water level	Date	Water level
Dec. 28, 1937	a 7.04	July 21, 1938	a 22.61	Oct. 13, 1938	a 8.78
May 18, 1938	a 21.12	Aug. 11	a 21.98	Mar. 30, 1940	0.79
June 23	a 22.85	Sept. 12	a 13.41	Sept. 9	14.40

(C-34-9)3bda3. C. C. Connel, Parowan. Diameter 2 inches. Measuring point, top of casing, 1.9 feet above land surface and 5764.64 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet below measuring point, 1937-38, 1940

Dec. 28, 1937	a 8.34	July 21, 1938	a 23.69	Oct. 13, 1938	a 10.97
May 18, 1938	a 22.19	Aug. 11	a 22.95	Mar. 30, 1940	1.76
June 23	a 24.03	Sept. 12	a 14.21	Sept. 9	15.30

(C-34-9)3cba2. State claim 7882. Federal Land Bank. Record begins in 1937.

Water level, at noon, in feet below measuring point, 1940
(from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	6.62	Jan. 27	6.17	Feb. 16	5.68	Mar. 4	5.39
2	6.55	28	6.15	18	5.57	5	5.35
3	6.53	29	6.10	19	5.44	6	5.34
4	6.45	30	6.05	20	5.45	7	5.36
6	6.47	31	5.98	21	5.40	8	5.25
7	6.56	Feb. 1	5.91	22	5.51	9	5.22
9	6.45	2	5.87	23	5.57	10	5.17
10	6.46	3	5.87	24	5.54	11	5.20
11	6.43	4	5.77	25	5.48	12	5.39
12	6.31	5	5.78	26	5.36	13	5.34
20	6.30	6	5.87	27	5.44	14	5.29
21	6.27	10	5.74	28	5.47	15	5.26
22	6.25	11	5.66	29	5.41	16	5.19
23	6.22	12	5.70	Mar. 1	5.44	17 b	5.17
24	6.25	13	5.69	2	5.50	30 c	5.08
25	6.22	14	5.56	3	5.35	Sept.9 c	17.67
26	6.18	15	5.53				

(C-34-9)3cbc1. State claim 14187. J. H. Pendleton, Parowan. Diameter 4½ inches, depth 238 feet. Measuring point, top of ell, 1.0 foot above land surface and 5765.44 feet above sea level. Measurements discontinued after Sept. 9, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 18, 1938	a 12.60	Aug. 11, 1938	a 17.07	Mar. 30, 1940	5.73
June 23	a 17.00	Sept. 12	a 11.77	Sept. 9	14.23
July 21	a 16.90	Oct. 13	a 11.79		

(C-34-9)3cbc2. State claim 17419. J. H. Pendleton, Parowan. Diameter 2 inches. Measuring point, top of ell, 2.0 feet above land surface and 5767.15 feet above sea level. Water levels, in feet below measuring point, 1940: Mar. 30, 3.05; Sept. 9, 15.40. Measurements discontinued.

(C-34-9)4dcd1. State claim 13988. F. W. Pendleton, Parowan. Diameter 4½ inches, depth 144 feet. Measuring point, top of hole in pump base, 1.6 feet above land surface and 5767.36 feet above sea level. Water levels, in feet below measuring point, 1940: Mar. 30, 4.17; Sept. 9, 11.00. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Water level recorder removed.
c Tape measurement.

Iron County - Parowan Valley--Continued.

(C-34-9)5bcal. State claim 3718. H. D. Bayles, Parowan. Diameter 3 inches. Measuring point, top of casing, 0.9 foot above land surface and 5705.83 feet above sea level. Measurements discontinued after Sept. 8, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 17, 1938	a 5.55	Aug. 11, 1938	a 20.07	July 18, 1940	16.93
June 22	a 15.10	Sept. 12	a 18.53	Sept. 8	18.50
July 20	a 17.32	Oct. 13	a 12.78		

(C-34-9)5dabl. State claim 5088. H. E. Bayles, Parowan. Diameter 4½ inches, depth 300 feet. Measuring point, top of casing, level with land surface and 5718.8 feet above sea level. Water levels, in feet below measuring point, 1940: July 18, 27.48; Sept. 8, 27.58. Measurements discontinued.

(C-34-9)5dadl. State claim 5089. J. C. Robinson, Parowan. Diameter 10 inches, depth 665 feet. Measuring point, top of casing, 1.0 foot below land surface and 5727.20 feet above sea level. Water levels, in feet below measuring point: July 20, 1938, a/44.40; Oct. 13, 1938, a/31.79; Mar. 11, 1939, a/16.70; Sept. 8, 1940, 44.78.

(C-34-9)6bcdl. State claim 13506. G. D. Hyatt. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7	a 3.42	Mar. 16	3.08	Apr. 1	a 2.98	July 18	4.20
Mar. 4	a 3.10	30	3.05	May 3	a 3.18	Sept. 8	4.75

(C-34-9)6dbdl. State claim 11562. J. W. Bentley, Parowan. Diameter 3 inches, depth 356 feet. Measuring point, top of ell on casing, 1.5 feet above land surface and 5706.06 feet above sea level. Water levels, in feet above measuring point: Mar. 13, 1939, a/9.8; Sept. 8, 1940, b/2.13. Measurements discontinued.

(C-34-9)7bbal. State claim 5125. G. A. Lowe, Jr., Parowan. Diameter 2 inches, depth 110 feet. Measuring point, top of ell, 0.5 foot above land surface and 5698.15 feet above sea level. Water levels, in feet below measuring point, 1940: July 18, 0.60; Sept. 8, 1.10. Measurements discontinued.

(C-34-9)7bddl. State claim 4869. P. H. Gurr, Parowan. Diameter 6 inches, depth 100 feet. Measuring point, top of casing, 1.1 feet above land surface and 5713.74 feet above sea level. Water levels, in feet below measuring point, 1940: Mar. 30, 16.83; Sept. 9, 17.81. Measurements discontinued.

(C-34-9)8addl. State claim 4872. P. H. Gurr, Parowan. Diameter 3 inches, depth 500 feet. Measuring point, top of ell, 1.2 feet above land surface and 5750.36 feet above sea level. Measurements discontinued after Sept. 8, 1940.

Water level, in feet, with reference to measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 14, 1938	a -0.60	Aug. 11, 1938	a -2.05	July 18, 1940	-1.73
June 20	a -1.95	Sept.10	a -1.80	Sept. 8	-2.70
July 20	a -2.80	Apr. 1, 1940	a +9.0		

(C-34-9)8add2. State claim 17494. P. H. Gurr, Parowan. Diameter 2 inches. Measuring point, top of coupling on casing, 0.2 foot above land surface and 5751.54 feet above sea level. Measurements discontinued after Sept. 8, 1940.

Water level, in feet, with reference to measuring point, 1938, 1940

May 16, 1938	a -15.82	Aug. 11, 1938	a -18.02	July 18, 1940	-17.45
June 20	a -16.85	Sept.10	a -15.49	Sept. 8	-17.85
July 20	a -17.74	Oct. 13	a + 1.08		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing prior to measurement.

Iron County - Parowan Valley--Continued.

(C-34-9)8bddl. State claim 4868. P. H. Gurr, Parowan. Diameter 6 inches, depth 100 feet. Measuring point, top of coupling on casing, 1.0 foot above land surface and 5735.72 feet above sea level.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
May 16, 1938	a 29.05	Sept. 12, 1938	a 29.19	July 18, 1940	27.75
June 21	a 29.15	Oct. 13	a 29.45	Sept. 8	28.35
July 20	a 29.35	Mar. 11, 1939	a 27.50	Dec. 5	28.40
Aug. 11	a 29.35	Apr. 1, 1940	a 27.06		

(C-34-9)8dbdl. State claim 4866. P. H. Gurr, Parowan. Diameter 72 inches. Measuring point, top edge of curbing, 0.6 foot below land surface and 5747.02 feet above sea level. Measurements discontinued after Sept. 8, 1940.

Water level, in feet below measuring point, 1938, 1940

May 16, 1938	a 6.25	Aug. 11, 1938	a 4.79	July 18, 1940	3.75
June 21	a 4.22	Sept.10	a 4.67	Sept. 8	4.40
July 20	a 5.10	Oct. 12	a 2.58		

(C-34-9)9baa2. State claim 17798. Daniel Crawford, Parowan. Diameter 4½ inches, depth 275 feet. Measuring point, top of casing, 0.3 foot below land surface and 5758.71 feet above sea level. Water levels, in feet below measuring point, 1940: Mar. 30, 1.25; July 18, 19.15; Sept. 8, 16.95. Measurements discontinued.

(C-34-9)9bbd3. State claim 5788. Horace Evans. Measurements discontinued after Sept. 8, 1940.

Water level, in feet, with reference to measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	a +3.80	Mar. 4	a + 4.8	July 18	-19.75	Sept. 8	c -18.57
Feb. 7	a +4.3	May 3	a -16.60	Sept. 8	b -19.67		

(C-34-9)9bcal. State claim 4867. P. H. Gurr, Parowan. Diameter 3 inches. Measuring point, top of casing, 0.55 foot above land surface and 5759.72 feet above sea level. Measurements discontinued after Sept. 8, 1940.

Water level, in feet below measuring point, 1938, 1940

Date	Water level	Date	Water level	Date	Water level
May 3, 1938	a 28.45	Aug. 10, 1938	a 30.02	July 18, 1940	31.40
June 21	a 29.48	Sept.10	a 29.15	Sept. 8	26.82
July 19	a 29.78	Oct. 13	a 5.65		

(C-34-9)9bcc3. State claim 17496. P. H. Gurr, Parowan. Diameter 2 inches. Measuring point, top of ell on casing, 2.0 feet above land surface and 5755.23 feet above sea level. Water levels, in feet below measuring point, 1940: Apr. 1, a/0.50; July 18, 27.50; Sept. 8, 27.34. Measurements discontinued.

(C-34-9)9bcc4. State claim 17495. P. H. Gurr, Parowan. Diameter 4 inches. Measuring point, top of casing, 0.45 foot above land surface and 5756.6 feet above sea level. Measurements discontinued after Sept. 8, 1940.

Water level, in feet below measuring point, 1938, 1940

May 13, 1938	a 7.20	Aug. 11, 1938	a 9.02	July 18, 1940	9.18
June 12	a 8.50	Sept.10	a 9.03	Sept. 8	10.20
July 19	a 8.66	Oct. 13	a 1.10		

(C-34-9)9cddl. State claim 17788. J. B. Adams, Parowan. Diameter 2½ inches, depth 70 feet. Measuring point, top of reducer on casing, 0.2 foot above land surface and 5787.37 feet above sea level. Water levels, in feet below measuring point, 1940: Mar. 30, 1.28; July 18, 1.46. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Adjacent well (C-34-9)9bbd3 pumping.

c Adjacent well (C-34-9)9bbd3 shut off 10 minutes prior to measurement.

Iron County - Parowan Valley--Continued.

(C-34-9)9dbcl. State claim 1224. L. J. and T. D. Adams, Parowan. Diameter 6 inches, depth 450 feet. Measuring point, top of concrete curb, 0.3 foot above land surface and 5786.94 feet above sea level. Measurements discontinued after Sept. 8, 1940.

Water level, in feet below measuring point, 1938-40

Date	Water level	Date	Water level	Date	Water level
June 23, 1938	a 36.50	Sept. 10, 1938	a 36.50	Mar. 30, 1940	24.91
July 19	a 36.50	Oct. 12	a 29.73	July 18	36.10
Aug. 10	a 37.02	Feb. 24, 1939	a 24.80	Sept. 8	37.02

(C-34-9)10bddl. State claim 8801. A. R. Barnes.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	51.53	54.90	56.59	58.11	59.30	60.48	58.91	58.35	57.51
2	.....	.....	.....	51.63	54.97	56.63	58.17	59.38	60.03	58.67	58.34	57.48
3	.....	.....	.....	51.59	54.73	56.67	58.06	59.44	59.95	58.76	58.28	57.40
4	.....	.....	a51.69	51.56	54.80	56.71	58.17	59.45	60.06	58.66	58.41	57.37
5	.....	.....	.....	51.55	54.94	56.81	.....	59.47	60.16	58.65	58.22	57.32
6	.....	.....	.....	.....	54.92	56.95	58.24	59.53	60.18	58.59	58.34	57.30
7	.....	a52.19	.....	51.6	55.10	.....	58.18	59.53	60.25	58.61	58.45	57.31
8	.....	.....	.....	51.65	55.21	56.99	58.13	59.58	60.33	58.57	58.28	57.25
9	.....	.....	.....	51.66	55.26	57.05	58.28	59.60	60.28	58.50	58.15	57.17
10	.....	.....	.....	51.72	55.20	57.11	58.32	59.55	60.19	58.81	58.37	57.16
11	.....	.....	.....	51.78	55.32	57.14	58.41	59.70	60.00	58.82	58.21	57.10
12	a52.96	.....	.....	52.02	55.38	57.16	58.44	59.76	59.74	58.89	58.20	57.05
13	.....	.....	.....	52.15	55.44	57.23	58.35	59.82	59.55	59.01	58.20	.....
14	.....	.....	a51.53	52.18	55.45	57.30	58.50	59.78	59.42	59.05	58.17	.....
15	.....	.....	.....	52.23	55.50	57.38	58.56	59.87	59.32	59.07	58.08	.....
16	.....	.....	.....	52.45	55.38	57.30	58.56	59.96	59.58	59.03	58.01	.....
17	.....	.....	b51.47	53.15	55.55	57.32	58.60	59.97	59.98	59.10	57.93	.....
18	.....	.....	51.48	53.48	55.65	57.46	58.60	60.03	59.31	59.15	58.00	.....
19	.....	.....	51.42	53.72	55.75	57.56	58.60	60.05	59.10	58.83	57.95	.....
20	.....	.....	51.38	53.97	55.82	57.55	.....	60.05	59.00	58.68	57.90	.....
21	.....	.....	51.39	54.10	55.93	57.64	.....	59.94	59.15	58.65	57.79	.....
22	.....	.....	51.39	54.21	56.05	57.68	.....	60.06	59.13	58.72	57.81	.....
23	.....	.....	51.36	54.31	56.12	57.77	.....	59.75	58.76	58.87	57.80	.....
24	.....	.....	51.37	54.43	56.13	57.81	.....	59.75	58.94	58.81	57.73	.....
25	.....	.....	51.29	54.47	56.15	57.79	.....	59.91	.....	58.80	57.66	.....
26	.....	.....	51.29	54.48	56.21	57.87	.....	60.08	.....	58.74	57.66	.....
27	.....	.....	51.24	54.28	56.17	57.96	59.10	60.25	58.90	58.58	57.64	.....
28	.....	.....	51.29	54.65	56.29	58.03	59.15	60.32	58.78	58.44	57.65	.....
29	.....	.....	51.68	54.67	56.38	58.05	59.25	60.39	58.66	58.37	57.49	.....
30	.....	.....	51.64	54.89	56.48	58.03	59.25	60.45	58.60	58.42	57.46	.....
31	.....	.....	51.58	.....	56.54	.....	59.29	60.45	.....	58.36	.....	.....

(C-34-9)16cddl. State claim 5818. Federal Land Bank. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 29.59	Mar. 30	29.10	May 3	a 29.25	Sept. 8	31.67
Feb. 7	a 29.21	Apr. 1	a 29.08	Aug. 6	30.81	Dec. 3	32.44
Mar. 4	a 29.07						

(C-34-9)21badl. State claim 18420. G. A. Lowe, Jr., Parowan. Diameter 6 inches, depth 100 feet. Measuring point, top of sleeve on casing, 0.8 foot above land surface and 5809.8 feet above sea level. Water levels, in feet below measuring point, 1940: Mar. 30, 23.05; Sept. 8, 27.80. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Water level recorder installed Mar. 17, 1940.

Iron County - Parowan Valley--Continued.

(C-34-9)22acdl. State claim 6434. H. M. Davenport. Measurements discontinued after Sept. 11, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	122.10	Feb. 9	120.52	Mar. 30	119.55	Sept. 11	126.60
Feb. 7	122.05	Mar. 14	119.69	Aug. 6	125.85		

(C-34-10)11dccl. State claim 18010. Rulon Lyman. Record begins in 1938. Claim 18010 reports well 82 feet deep, 5 feet in diameter, dug Mar. 1933. During February and March 1940 the well was deepened to 90 feet and 4 inch casing installed, then well filled around casing. Measuring point, after reconstruction, is top of 4-inch casing, 2.4 feet above surface, and 5773.38 feet above sea level.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 70.40	May 3	70.38	Dec. 5	69.78
Mar. 30	69.73	Sept. 8	71.70		

(C-34-10)13cbal. Parowan. Diameter 3 inches. Measuring point, bottom of hole in casing, 0.5 foot above land surface and 5746.92 feet above sea level. Water levels, in feet below measuring point, 1940: Apr. 2, b/31.47; Sept. 8, 32.10. Measurements discontinued.

(C-34-10)24abcl. State application 12115. R. J. Green. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	a 55.95	Mar. 30	55.83	May 3	b 55.85	Dec. 3	56.62
Feb. 7	a 55.88	Apr. 1	b 55.88	Sept. 8	56.57		

(C-34-10)24abdl. State claim 10523. R. J. Green. Water levels, in feet below measuring point, 1940: Feb. 7, a/50.59; Mar. 4, a/50.59; Mar. 30, 50.30; Apr. 1, a/50.59. Measurements discontinued.

(C-34-10)24cdal. State application 12241. Measurements discontinued.

(C-34-10)24ddcl. Summit. Water levels, in feet below measuring point, 1940: Feb. 10, 132.31; Mar. 14, 132.30; Mar. 30, 132.30; Sept. 8, 132.82. Measurements discontinued.

Juab County

(C-11-15)30c. Grazing Service. Record begins in 1939. Measuring point changed to top of casing at level of concrete floor, 1.0 foot below measuring point in Water-Supply Paper 886. Water level, in feet below measuring point, 1940: Sept. 13, 31.18.

(C-11-16)6cc. J. H. Guilmette. Record begins in 1938. Water level, in feet below measuring point, 1940: Sept. 13, c/24.75.

(C-11-17)1bdcl. State claim 8190. Drought Relief Administration. Record begins in 1938. Water level, in feet below measuring point, 1940: Sept. 13, 4.88.

(C-12-1)36dcal. State claim 2227. Orson Cazier. Record begins in 1935. Water levels, in feet below measuring point, 1940: June 3, 20.70; Dec. 3, 19.85.

(C-13-18)13d. David Howells. Record begins in 1938. Water level, in feet above measuring point, 1940: Sept. 13, d/1.62.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Pump stopped 15 minutes prior to measurement.
c Windmill pumping.
d Found dripping.

Juab County--Continued.

(C-13-18)14dcc. Will Parker. Record begins in 1938. Water level, in feet below measuring point, 1940: Sept. 13, 17.55.

(C-13-18)23aab2. Chas. Nielson. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 13, 7.40.

(C-14-1)27ccdl. Federal Land Bank. Measurements discontinued.

(C-14-5)36cccl. State claim 12951. Federal Land Bank. Record begins in 1935. Water level, in feet below measuring point, 1940: Apr. 30, 93.73. Measurements discontinued.

(C-14-18)3. State application 12809. Public Land. Northernmost of three wells. Record begins in 1938. Water level, in feet above measuring point, 1940: Sept. 13, 5.3.

(C-14-18)3. Public Land. Southernmost of three wells. Record begins in 1938. Water level, in feet above measuring point, 1940: Sept. 13, 4.7.

(C-15-1)4dd. C. H. Johnson. Record begins in 1938. Water levels, in feet with reference to measuring point, 1940: Feb. 6, +0.41; Mar. 27, +0.48; June 3, -0.10; Dec. 3, +0.55.

(C-15-1)4dd. C. H. Johnson. West one of two wells. Record begins in 1938. Water levels, in feet below measuring point, 1940: Feb. 6, 0.83; Mar. 27, 0.69; June 3, 0.83; Dec. 3, 0.90.

(C-15-1)11babl. State claim 3120. Mrs. Nicholine Powell. Record begins in 1938. Water levels, in feet below measuring point, 1940: Feb. 6, 4.96; Mar. 27, 5.15; June 3, 4.31; Dec. 3, 2.68.

(C-15-1)12abal. State claim 10223. R. C. Mangelson. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 6, 61.86; Mar. 27, 60.34; June 3, 60.27; Dec. 3, 59.61.

(D-11-1)9bbb4. State claim 3099. J. L. and H. J. Fowkes. Record begins in 1935. Water levels, in feet above measuring point, 1940: Feb. 6, 7.4; Mar. 27, 7.1; June 3, 6.5, found flowing; Dec. 3, 9.3.

(D-11-1)31abc. Loren Keyte. Record begins in 1936. Water levels, in feet below measuring point, 1940: Feb. 6, 2.64; Mar. 27, 2.40; June 3, 2.43; Dec. 3, 1.90.

(D-12-1)19cdcl. State claim 4397. P. P. Christenson. Record begins in 1935. Water levels, in feet above measuring point, 1940: Feb. 6, a/12.0; Mar. 27, 12.5; June 3, a/14.6; Dec. 3, 14.1.

(D-13-1)6cbcl. (D-13-1)6ccbl in Water-Supply Paper 886. State claim 8188. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	26.59	Aug. 8	24.11	Sept. 7	24.82	Nov. 26	25.00
Mar. 27	25.54	25	24.50	Nov. 1	26.60	Dec. 3	24.78
June 3	24.24						

(D-14-1)6baal. C. H. Garrett. Water levels, in feet below measuring point, 1940: Feb. 6, 197.64; Mar. 27, 197.68; Dec. 3, 197.50.

Kane County

(C-43-5)24dbdl. Measurements discontinued.

(C-44-5)6cbbl. Measurements discontinued.

a Found flowing prior to measurement.

Millard County

(C-15-4)9dc. C. F. Olsen. Record begins in 1935. Water level, in feet below measuring point, 1940: Apr. 30, 33.73. Dec. 11, well buried, measurements discontinued.

(C-15-4)20dc. Spencer Nielson. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 30, 125.78; Dec. 11, 125.30.

(C-15-5)1aa. I. P. Hinckley. Record begins in 1936. Water levels, in feet below measuring point, 1940: Feb. 12, 101.92; Apr. 30, 101.85; Dec. 11, 101.42.

(C-15-7)17da. I. H. Losee. Record begins in 1937. Found flowing prior to measurements. Water levels, in feet above measuring point, 1940: Apr. 29, 2.62; Dec. 11, 2.16.

(C-15-8)23bba1. State claim 12279. C. D. Ashby. Record begins in 1938. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 29, 2.62; Dec. 11, 2.68.

(C-16-7)1dc. State claim 6643. H. W. Steiner. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 29, 4.25; Dec. 11, 5.7.

(C-16-7)4abb1. L. N. Hinckley. Record begins in 1935. Found leaking through plug prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 29, 3.85; Dec. 11, 3.00.

(C-16-7)7ccb1. Millard County. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 29, 5.08; Dec. 11, 4.96.

(C-16-7)21acd1. Martin Tanner. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 29, 16.67; Dec. 11, 16.80.

(C-16-7)34cda1. State claim 13205. Utah-Idaho Sugar Co. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 30, 16.22; Dec. 11, 16.24.

(C-16-8)15ddd3. State claim 12335. Frank Foot. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 29, 1.79; Dec. 11, 1.78.

(C-16-19)4add1. State claim 6827. J. H. Singleton. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 13, 29.87.

(C-17-6)7acc2. Henry Forrester. Record begins in 1936. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 29, 5.4; Dec. 11, 5.3.

(C-17-6)7dbb2. H. H. Sherwood. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 29, 3.41; Dec. 11, a/5.32.

(C-17-6)33dcc1. State claim 10288. Duluth Land Co. Record begins in 1935. Water levels, in feet above measuring point, 1940: Apr. 29, 5.85; Dec. 10, 5.30.

(C-17-7)20cbb1. State claim 12287. Wm. J. Webb. Record begins in 1936. Found flowing through hole in plug prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 29, 5.35; Dec. 11, 5.3.

(C-17-7)25daa1. Investors Finance Co. Record begins in 1935. Water levels, in feet above measuring point, 1940: Apr. 29, 3.80; Dec. 10, 4.23.

(C-17-7)30aaa1. J. G. Parry. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 29, 1.96; Dec. 11, 1.85.

(C-18-5)5bba1. State claim 4261. Union Pacific Railroad. Record begins in 1935. Water levels, in feet above measuring point, 1940: Feb. 12, 28.4; Apr. 29, 28.55; Dec. 10, 26.2.

a Pump just started.

Millard County--Continued.

(C-18-5)28accl. State claim 16404. Lawrence Clark. Record begins in 1936. Water levels, in feet below measuring point, 1940; Apr. 29, 13.65; Dec. 10, 14.30.

(C-18-7)5aaa2. Sarah A. Webb. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 29, 4.8; Dec. 11, 5.4.

(C-18-19)20dadl. Mrs. Ward Robinson. Record begins in 1937. Water level, in feet below measuring point, 1940: Sept. 13, 31.57.

(C-18-19)20dddl. State claim 7420. Louise Robinson. Water level, in feet below measuring point, 1940: Sept. 13, 31.75.

(C-19-4)32bccl. State claim 4263. Union Pacific Railroad. Record begins in 1936. Water levels, in feet below measuring point, 1940: Feb. 12, 17.62; Apr. 29, 17.35; June 13, 17.20; Dec. 10, 17.30.

(C-19-5)4abal. State claim 16402. Lawrence Clark, McCormick. Diameter 6 inches. Measuring point, top of casing, 0.8 foot above land surface. Water levels, in feet below measuring point: Dec. 19, 1939, 23.15; Feb. 12, 1940, 23.04; Apr. 29, 1940, 23.00; Dec. 10, 1940, 23.74.

(C-19-5)4ddal. State claim 16405. Lawrence Clark. Record begins in 1936. Water levels, in feet below measuring point, 1940: Feb. 12, 34.20; Apr. 29, 34.14; Dec. 10, 34.13.

(C-19-5)22acbl. Utah State Road Commission. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 12, 17.74; Apr. 29, 17.10; June 13, 17.06; Dec. 10, 17.79.

(C-20-5)9adal. State claim 4732. Edgar Turner. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Apr. 1	a 10.5	May 1	ab 7.1	Dec. 9	21.2
29	b 6.7	June 13	b 5.7		

(C-20-5)13dadl. C. H. Day. Record begins in 1937.

Water level, in feet below measuring point, 1940

Feb. 12	48.46	May 2	a 48.86	Dec. 10	49.22
Apr. 2	a 48.77	June 13	48.94		

(C-20-5)22bccl. State claim 7671. Mary E. Rowley. Record begins in 1936. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Feb. 12	6.6	Apr. 29	6.5	June 13	6.8
Apr. 1	a 7.3	May 1	a 6.8	Dec. 9	6.55

(C-20-19)6bcc. G. A. Bellander. Record begins in 1936. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Sept. 13, 6.2.

(C-20-19)7aab. G. S. Quayte. Record begins in 1936. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Sept. 13, 6.1.

(C-20-19)7bbd. Marcus Sorenson. Record begins in 1936. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Sept. 13, 1.68.

(C-20-19)16bdcl. F. G. Schumaker. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 13, 3.46.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

Millard County--Continued.

(C-21-4)9bbd1. John Carling. Record begins in 1939.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	23.12	May 2	a 31.42	Aug. 8	32.77	Dec. 10	34.27
Mar. 28	23.53	June 13	32.03	Sept. 9	33.22		
Apr. 2	a 23.55						

(C-21-5)3bbb1. Dal Huntsman. Record begins in 1936.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 12	25.33	Apr. 29	25.42	June 13	25.17
Apr. 1	a 25.17	May 1	a 25.41	Dec. 10	25.34

(C-21-5)17ccd1. State claim 2664. Harry Johnson. Record begins in 1935. Water levels, in feet above measuring point, 1940: Feb. 2, 29.9; Apr. 1, a/23.5; May 1, b/9.9. Well cannot be shut in completely; observations discontinued.

(C-21-5)21aba1. State of Utah. Record begins in 1929.
Water level, at noon, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.86	13.24	12.79	15.25	21.36	.....	22.40	22.65	22.94	22.54	17.45	13.74
2	.....	13.27	12.64	16.05	21.35	22.16	22.45	22.70	22.90	22.30	17.02	13.70
3	13.74	13.29	12.67	16.28	21.41	22.20	22.46	23.15	22.93	22.37	16.84	13.63
4	13.73	13.23	.....	17.08	.....	22.18	22.37	22.73	22.88	22.09	16.85	13.60
5	13.84	13.22	.....	17.50	21.53	22.23	23.00	23.30	22.95	22.11	.....	13.53
6	13.83	13.12	12.58	17.67	21.55	22.33	23.20	23.44	22.94	22.09	.....	13.51
7	.....	12.98	12.53	17.80	21.61	22.31	23.05	23.48	22.93	22.07	.....	13.46
8	.....	12.97	12.36	17.92	21.65	22.42	22.57	23.50	22.92	21.63	.....	13.44
9	13.73	12.92	12.57	17.56	21.67	22.35	22.57	23.15	22.71	21.52	.....	13.29
10	13.72	12.83	12.65	17.90	21.67	22.33	22.59	22.90	22.83	21.39	15.66	13.24
11	13.70	12.82	13.00	18.12	21.69	22.31	22.61	22.80	22.85	21.34	15.60	13.09
12	13.58	12.89	13.22	19.55	21.71	22.35	22.63	23.21	22.89	21.28	15.60	12.99
13	13.74	12.82	.....	.....	21.74	22.39	22.57	23.35	22.89	21.17	15.53	13.05
14	13.67	12.76	13.85	.....	21.75	22.42	23.15	23.39	22.87	21.11	15.42	12.99
15	13.67	12.96	13.77	.....	21.77	22.42	22.62	22.82	.....	21.28	15.30	12.92
16	13.61	12.97	13.98	.....	21.81	22.47	22.60	23.47	22.87	20.11	15.20	12.85
17	13.56	12.84	14.04	.....	21.88	22.44	22.56	22.86	22.88	19.39	15.05	12.84
18	13.55	12.88	14.04	.....	21.87	22.48	22.70	23.87	22.73	19.02	15.00	12.89
19	13.57	.....	14.03	20.60	21.90	22.44	.....	23.58	22.72	18.71	14.93	12.88
20	13.55	12.77	14.02	20.65	21.89	22.42	.....	23.44	22.74	18.43	14.87	12.80
21	13.59	12.68	.....	20.79	21.94	22.38	22.53	22.85	22.73	18.32	14.75	12.70
22	13.57	12.83	14.40	20.82	21.96	22.40	23.00	22.84	22.72	18.30	.....	12.62
23	.....	12.85	15.17	20.88	21.99	22.45	23.15	22.85	22.83	18.12	.....	12.53
24	.....	12.76	15.47	20.96	.....	22.31	22.63	23.05	22.75	18.01	.....	12.52
25	.....	.....	15.67	21.01	22.00	22.35	23.05	23.60	22.68	17.98	.....	12.58
26	.....	.....	15.67	21.06	22.06	22.39	23.15	23.61	22.75	17.87	.....	12.53
27	.....	12.91	15.76	21.14	22.05	22.35	23.40	22.97	22.71	17.73	.....	.....
28	.....	12.90	15.78	21.20	22.13	22.47	.....	22.97	22.76	17.69	13.90	.....
29	.....	12.80	15.88	21.20	22.17	22.41	23.35	22.98	22.75	17.67	13.78	.....
30	.....	.....	15.15	21.33	22.19	22.44	23.49	22.94	22.63	17.64	13.75	12.29
31	13.34	.....	15.04	.....	22.21	.....	22.72	22.96	.....	17.57	.....	12.33

(C-21-5)33dcc1. State claims 71, 6337, and 7831. Andrew Dahlquist. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 12	1.01	May 1	a 6.99	Dec. 10	c 2.6
Apr. 1	a 2.00	June 13	8.08		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing prior to measurement.
c Estimated.

Millard County--Continued.

(C-21-5)34bddl. R. E. Sweeting. Record begins in 1935.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	44.58	43.60	42.95	43.57	47.76	48.55	48.92	49.56
2	44.58	43.56	42.88	44.15	47.76	48.55	48.98	49.57
3	44.56	43.55	42.86	44.42	47.77	48.56	49.02	49.91
4	44.51	43.51	42.87	44.69	47.80	48.61	49.03	49.81
5	44.49	43.50	42.85	44.86	47.91	48.62	49.05	49.99
6	44.49	43.40	43.00	.....	47.90	48.65	49.10	50.00
7	44.49	43.30	43.00	45.25	47.93	48.69	.....	a 49.83
8	44.40	43.32	43.00	45.37	47.93	48.67	.....	.....
9	44.40	43.33	43.05	45.55	47.95	48.65	49.15	.....
10	44.40	43.24	43.07	45.93	47.95	48.67	49.17	.....
11	44.40	43.15	43.13	46.12	47.95	48.67	49.18	.....
12	44.30	43.20	43.31	46.27	47.97	48.72	49.20	.....
13	44.34	43.17	43.31	46.34	47.99	48.74	49.23	.....
14	44.34	43.07	43.25	46.36	47.99	48.75	49.24	.....
15	.....	.....	43.11	46.39	.....	48.76	49.26	.....
16	.....	.....	43.05	46.61	.....	48.75	49.28	.....
17	44.28	43.10	43.06	46.83	48.10	48.75	49.26	.....
18	44.26	43.00	43.10	46.88	48.13	48.77	49.32	.....
19	44.01	43.01	43.10	46.95	48.14	48.75	49.34	.....
20	44.20	43.01	43.09	47.03	48.13	48.75	49.37	.....
21	44.19	42.96	43.10	.....	48.15	48.78	49.39	.....
22	44.17	42.86	43.13	47.20	48.22	48.76	49.37	.....
23	44.12	42.95	43.20	47.22	48.21	48.84	49.49	.....
24	44.09	.....	43.36	47.29	48.17	48.83	49.45	.....
25	44.08	.....	43.36	47.35	48.19	48.83	49.41	.....
26	44.08	.....	43.42	47.40	48.21	48.82	49.45	.....
27	44.08	.....	43.43	47.50	48.29	48.82	49.58	.....
28	44.08	.....	43.51	47.62	48.30	48.84	49.63	.....
29	44.08	.....	43.53	47.68	48.33	48.90	.....	.....
30	43.96	.....	43.52	47.72	48.37	48.91	49.78	.....
31	43.72	.....	43.40	.....	48.42	.....	49.64	.....

Water levels, in feet below measuring point: Sept. 9, 50.10; Dec. 10, 44.16

(C-22-5)17accl. State claim 3296. Wm. Blake. Record begins in 1935. Elevation of measuring point, 4732.56 feet above sea level.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 12	24.0	May 1	bc 20.3	Dec. 10	26.1
Apr. 1	b 25.3	June 13	c 16.3		

(C-22-5)32dacl. Frank Paxton. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	36.70	Aug. 16	35.34	Sept. 13	35.67	Oct. 3	35.83
Apr. 1	36.48	17	35.37	14	35.69	4	35.85
May 1	34.47	18	35.38	15	35.69	5	35.85
June 12	34.28	19	35.40	16	35.69	6	35.87
Aug. 7	d 35.19	Sept. 4	35.62	17	35.72	7	35.86
8	35.22	5	35.62	18	35.72	8	35.81
9	35.22	6	35.64	19	35.74	9	35.84
10	35.25	7	35.65	20	35.75	10	35.86
11	35.26	8	35.67	21	35.75	11	35.86
12	35.27	9	35.66	22	35.75	12	35.85
13	35.29	10	35.66	30	35.82	13	35.85
14	35.30	11	35.67	Oct. 1	35.82	14	35.84
15	35.32	12	35.65	2	35.81	15	35.84

a Water stage recorder removed August 8, 1940.

b Measurement by Utah State Engineer in cooperation with Works Projects Administration.

c Found flowing.

d Water level recorder installed. Succeeding data are water levels at noon from recorder charts.

Millard County--Continued.

(C-22-5)32dac1.--Continued.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 16	35.88	Nov. 2	35.76	Nov. 19	35.62	Dec. 13	35.27
17	35.89	3	35.74	20	35.63	14	35.27
18	35.89	4	35.78	21	35.59	15	35.25
19	35.90	5	35.76	22	35.60	16	35.22
20	35.90	6	35.76	30	35.45	17	35.20
21	35.89	7	35.73	Dec. 1	35.45	18	35.21
22	35.89	8	35.72	2	35.46	19	35.22
23	35.89	9	35.68	3	35.44	20	35.21
24	35.87	10	35.72	4	35.41	21	35.17
25	35.86	11	35.71	5	35.39	22	35.14
26	35.81	12	35.72	6	35.37	23	35.12
27	35.82	13	35.74	7	35.36	24	35.10
28	35.85	14	35.74	8	35.34	25	35.13
29	35.87	15	35.72	9	35.30	26	35.14
30	35.86	16	35.67	10	35.30	27	35.08
31	35.80	17	35.64	11	35.28	28	35.08
Nov. 1	35.79	18	35.62	12	35.25		

(C-22-19)6bc. Dennis Smith. Record begins in 1936. Pumping slowly prior to measuring, pump stopped 10 minutes before measurement. Water level, in feet below measuring point, 1940: Sept. 13, 63.65.

(C-23-19)9cb. Thomas Dearden. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 13, 17.08.

(C-23-19)9cc. Fred Loper. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 13, 13.82.

(C-24-7)25. Frank Paxton, Kanosh. Diameter 8 inches, depth 197 feet. Measuring point, top of casing, 1.0 foot above land surface. Water levels, in feet below measuring point, 1940: June 12, 170.92; Dec. 10, 170.87.

Morgan County

(A-3-2)14dc. Earl Walker. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 9	55.35	Apr. 4	54.77	Aug. 30	53.24
Feb. 14	55.57	June 26	51.50	Nov. 30	54.92

(A-3-2)24cba1. (A-3-2)24cb in Water-Supply Paper 886. State claim 12405. Hyrum Adams. Record begins in 1936.

Water level, in feet below measuring point, 1940

Jan. 9	17.55	Apr. 4	17.10	Aug. 30	17.00
Feb. 14	17.66	June 26	12.25	Nov. 30	17.62

(A-4-2)6cda. Axel Olsen. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 9	25.68	Apr. 4	24.00	Aug. 30	24.6
Feb. 14	25.48	June 26	24.62	Nov. 30	24.55

(A-4-2)8ccd1. State claim 12133. L. H. Kobabe, Morgan. Dug well, 36 inches square, depth reported 44 feet. Measuring point, top of concrete curb, level with land surface. Water levels, in feet below measuring point: Nov. 24, 1939, a/30.6; Aug. 30, 1940, 26.09; Nov. 30, 1940, 18.57.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Morgan County--Continued.

(A-4-2)15ccc. (A-4-2)15cc in Water-Supply Paper 886. State claim 6594. Jake Pentz. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 8	21.83	Apr. 4	22.40	Aug. 30	22.10
Feb. 14	22.34	June 26	21.81	Nov. 30	21.97

(A-4-2)17dbd[1]. (A-4-2)17da in Water-Supply Paper 886. Heber Anderson estate. Record begins in 1936.

Water level, in feet below measuring point, 1940

Jan. 9	15.39	Apr. 4	14.95	Aug. 30	16.05
Feb. 14	15.03	June 26	13.26	Nov. 30	14.92

(A-4-2)26cc. J. C. Little. Records begin in 1936.

Water level, in feet below measuring point, 1940

Jan. 9	16.15	Apr. 4	17.84	Aug. 30	11.29
Feb. 14	17.18	June 26	10.13	Nov. 30	13.76

(A-4-2)27dddl. State claim 14744. J. C. Little. Records begin in 1936. Measuring point changed to top of casing, 4.4 feet below top of concrete floor, which was previous measuring point.

Water level, in feet below measuring point, 1940

Jan. 9	9.15	Apr. 4	10.90	Aug. 30	4.30
Feb. 14	a 10.24	June 26	3.44	Nov. 30	6.87

(A-4-2)28baal. State claim 9247. Morgan County School District. Record begins in 1936.

Water level, in feet below measuring point, 1940

Jan. 9	25.81	Apr. 4	25.80	Aug. 30	25.18
Feb. 14	25.93	June 26	24.32	Nov. 30	25.62

(A-4-2)35cddl. (A-4-2)35cd in Water-Supply Paper 886. State claim 11785. Albert Wiggins. Record begins in 1936. Well deepened 20 feet, Apr. 4, 1940. Water levels, in feet below measuring point, 1940: Jan. 9, dry; June 26, 19.20; Aug. 30, 19.29; Nov. 30, 27.62.

(A-4-2)36cbdl. State application 11813. Morgan County. Record begins in 1936. Water levels, in feet below measuring point, 1940: Jan. 8, 38.92; Feb. 14, 39.91; Apr. 4, 41.16; June 26, 29.07.

(A-4-3)31bcc. Morgan County. Record begins in 1937. Water levels, in feet below measuring point, 1940: Jan. 8, 24.66; Apr. 4, 24.62; Aug. 30, 21.95; Nov. 30, 23.35.

(A-4-3)31cabl. (A-4-3)31bdc in Water-Supply Papers 845 and 886. State claim 12410. Como Springs Resort Co. Record begins in 1937.

Water level, in feet below measuring point, 1940

Jan. 8	4.87	Apr. 4	5.20	Aug. 30	4.42
Feb. 14	5.06	June 26	4.15	Nov. 30	4.12

(A-4-4)30aac2. State claim 5670. J. A. Millyard, Devils Slide. Dug well, 36 inches square, depth 14.5 feet. Measuring point, top of concrete curb, southeast corner, 0.5 foot above land surface. Water levels, in feet below measuring point, 1940: Aug. 30, 11.38; Nov. 30, 11.38.

(A-5-1)27db. Emma R. France. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level inside of casing	Water level outside of casing	Date	Water level inside of casing	Water level outside of casing
Jan. 9	1.85	1.95	June 26	0.80	1.52
Feb. 14	1.66	2.01	Aug. 30	1.20	2.14
Apr. 4	1.53	1.56	Nov. 30	2.03	2.06

a Pumped recently.

Piute County

(C-27-1)15cbb1. State claim 12745. Talmage Bagley. Record begins in 1938. Water levels, in feet below measuring point, 1940: Mar. 25, 10.45; Dec. 6, 11.05.

(C-27-1)27abc2. State claim 2905. H. B. Crandall. Record begins in 1937. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 25, a/1.45; Dec. 6, 1.39.

(C-30-2)32a. -------. Record begins in 1938. Water levels, in feet below measuring point, 1940: Mar. 25, 17.21; Dec. 7, 18.2.

(C-30-3)15bba. O. P. Jessen. Record begins in 1935. Water levels, in feet below measuring point, 1940: Mar. 25, 26.32; Dec. 7, 23.84.

(C-30-4)14dc. Earl Whitaker. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 25, 3.93; Dec. 7, 4.05.

(C-30-4)25bcc1. State claim 8210. Drought Relief Administration. Record begins in 1938. Water levels, in feet below measuring point, 1940: Mar. 25, 21.54; Dec. 7, 21.45.

Rich County

(A-9-7)16ba. State claim 8218. Drought Relief Administration. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	39.90	May 22	32.56	Aug. 28	42.42	Oct. 16	43.17
Feb. 28	37.14	July 3	35.74	Oct. 8	42.67	Dec. 3	40.17
Apr. 10	35.74						

(A-9-7)16bd. State claim 8217. Measurements discontinued.

(A-9-7)25cbc. (A-9-7)25 in Water-Supply Paper 886. Deseret Livestock Co. Record begins in 1939. Water level, in feet below measuring point, 1940: Oct. 8, 16.65.

(A-9-8)17ac. State claim 6837. S. Francis and Sons Co. Record begins in 1938.

Water level, in feet below measuring point, 1940

Apr. 10	6.65	July 3	4.54	Oct. 8	7.40	Dec. 3	7.16
May 22	3.04	Aug. 28	7.37	16	7.29		

(A-10-7)20aaa1. State claim 1886. Joseph Hatch. Record begins in 1937.

Water level, in feet below measuring point, 1940

Jan. 16	13.07	May 22	6.13	Aug. 28	10.16	Oct. 16	11.09
Feb. 28	13.31	July 3	8.47	Oct. 8	11.70	Dec. 3	10.14
Apr. 10	13.69						

(A-11-7)9cd1. F. H. Jackson. Record begins in 1936.

Water level, in feet below measuring point, 1940

Jan. 16	14.90	May 22	9.85	Aug. 28	14.46	Oct. 18	13.70
Feb. 28	16.70	July 3	11.47	Oct. 8	13.87	Dec. 3	13.07
Apr. 10	13.35						

(A-11-7)9cd2. F. H. Jackson. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 8, 18.08.

(A-11-7)21bc. Loren Jackson. Record begins in 1937.

Water level, in feet below measuring point, 1940

Jan. 16	12.08	Apr. 10	9.13	July 3	8.16	Oct. 8	11.69
Feb. 28	12.34	May 22	5.77	Aug. 28	10.83	16	11.81

a Flowing 1.5 gallons per minute.

Rich County--Continued.

(A-12-7)26bbl. William Hoffman. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 8, 9.47.

(A-12-7)26bb2. William Hoffman. Record begins in 1936.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	9.26	May 22	4.87	Aug. 28	9.38	Oct. 16	10.15
Feb. 28	9.78	July 3	6.26	Oct. 8	10.47	Dec. 3	9.55
Apr. 10	5.21						

(A-13-5)10bbbl. Thomas Hodges. Record begins in 1937.
Water level, in feet below measuring point, 1940

Jan. 15	17.96	May 21	12.94	Aug. 15	13.70	Oct. 10	14.40
Feb. 27	16.55	June 27	13.26	Oct. 8	14.35	Dec. 2	15.86
Apr. 9	16.81						

(A-13-5)10bbb2. Thomas Hodges. Record begins in 1937.
Water level, in feet below measuring point, 1940

Jan. 15	15.70	May 21	17.05	Aug. 15	16.17	Oct. 10	16.63
Feb. 27	18.71	June 26	15.81	Oct. 8	16.63	Dec. 2	17.89
Apr. 9	18.99						

(A-13-5)21ad. Drought Relief Administration. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 8, 10.25.

(A-13-5)22bd. Willis Brothers. Record begins in 1936.
Water level, in feet below measuring point, 1940

Jan. 15	20.81	May 21	21.77	Aug. 15	20.76	Oct. 10	21.53
Feb. 27	21.20	June 27	20.87	Oct. 8	21.50	Dec. 2	21.98
Apr. 9	21.50						

(A-13-5)22da. Max Green. Record begins in 1936.
Water level, in feet below measuring point, 1940

Jan. 15	16.54	May 21	16.55	Aug. 15	17.66	Oct. 10	18.04
Feb. 27	16.55	June 27	16.90	Oct. 8	18.31	Dec. 2	18.84
Apr. 9	16.59						

(A-13-5)25db. Willis Brothers. Record begins in 1936. Water level, in feet below measuring point, 1940: Oct. 8, 5.62.

(A-13-6)30bb. Rich County. Record begins in 1936. Found flowing prior to all measurements.
Water level, in feet above measuring point, 1940

Apr. 9	4.26	June 27	3.83	Oct. 8	3.70	Dec. 2	3.50
May 21	4.28	Aug. 15	3.29	10	3.52		

(A-14-5)16cdc. Mrs. David Cook. Record begins in 1936.
Water level, in feet below measuring point, 1940

Date	Water level inside of casing	Water level outside of casing	Date	Water level inside of casing	Water level outside of casing
Jan. 15	23.87	24.28	Aug. 15	12.33	14.20
Feb. 27	25.85	26.08	Oct. 8	17.22	18.25
Apr. 9	26.75	26.91	10	17.66	18.65
May 21	15.75	17.18	Dec. 2	23.01	23.45
June 27	10.05	11.49			

(A-14-5)21bda. (A-14-5)21bd in Water-Supply Paper 886. J. W. Gibbons. Record begins in 1936.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	21.24	May 21	15.18	Aug. 15	11.06	Oct. 10	15.79
Feb. 27	23.28	June 22	8.67	Oct. 8	15.50	Dec. 2	20.34
Apr. 9	24.29						

Rich County--Continued.

(A-14-5)21bdb. Alex Johnson. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 15	20.33	Apr. 9	23.61	June 27	6.66
Feb. 27	22.57	May 21	13.19	Dec. 2	19.30

(A-14-5)21bd. Thomas Hodges. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	16.28	May 21	11.94	Aug. 15	7.70	Oct. 10	11.98
Feb. 27	19.61	June 27	5.92	Oct. 8	11.72	Dec. 2	16.65
Apr. 9	20.48						

(A-14-5)21cd. C. W. Pope. Record begins in 1936.

Water level, in feet below measuring point, 1940

Jan. 15	7.49	May 21	7.45	Aug. 15	6.91	Oct. 10	7.02
Feb. 27	7.65	June 27	6.59	Oct. 8	7.00	Dec. 2	7.43
Apr. 9	8.04						

(A-14-5)34cc. State claim 8219. Measurements discontinued.

(A-15-5)32cd. L. E. Scofield. Record begins in 1937.

Water level, in feet below measuring point, 1940

Feb. 27	25.79	May 21	13.70	Aug. 15	16.77	Oct. 10	22.20
Apr. 9	27.01	June 27	7.20	Oct. 8	22.30	Dec. 2	25.47

Salt Lake County

(B-1-1)6ccal. State claim 747. Rudy Gun Club. Record begins in 1931. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 2, 16.0; Apr. 3, 16.1; June 19, 16.2.

(B-1-1)26ddc2. L. T. Farnsworth. Record begins in 1937. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 2, 4.75; Apr. 3, 4.8; June 19, 4.3; Nov. 27, 3.52.

(B-1-1)33cdal. State claim 8867. Salt Lake City Corporation. Records begin in 1935. Measurements by Salt Lake City Corporation.

Water level, in feet above measuring point, 1940

Jan. 11	14.7	Apr. 12	14.85	July 15	14.3	Oct. 14	12.9
30	14.95	30	14.7	Aug. 9	14.2	Nov. 19	13.3
Feb. 14	14.8	June 3	14.7	29	14.1	Dec. 5	13.05
Mar. 8	15.15	28	14.25	Sept.30	13.1	26	13.4
26	15.0						

(B-1-1)36abcl. Utah Oil Company. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet below measuring point, 1940

Jan. 3	6.59	Apr. 26	5.43	July 19	9.20	Oct. 8	13.10
16	6.55	May 7	5.62	Aug. 15	11.20	29	12.37
26	6.20	20	5.90	20	11.56	Nov. 6	12.34
Feb. 2	6.12	31	6.73	26	11.94	14	12.22
20	5.39	June 13	6.77	Sept. 3	12.40	Dec. 3	11.42
Mar. 6	6.82	25	7.56	13	12.64	16	9.63
22	5.31	July 2	8.00	24	12.73	27	9.83
Apr. 10	5.52	15	8.70	Oct. 1	12.97		

Salt Lake County--Continued.

(C-1-1)2cda1. J. D. Brown. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet, with reference to measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	+3.30	Mar. 26	+3.30	Aug. 9	+0.20	Nov. 19	+2.75
30	+3.40	Apr. 12	+3.30	29	+1.70	Dec. 5	+2.85
Feb. 14	+3.45	30	+1.80	Sept.30	+2.60	26	+2.85
Mar. 8	+3.40	June 28	-0.10	Oct. 14	+2.50		

(C-1-1)15abb2. State claim 9172. Eva M. Davis. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet above measuring point, 1940

Jan. 11	4.20	Apr. 12	4.40	July 18	4.30	Oct. 14	3.10
30	4.20	30	4.20	Aug. 9	2.50	Nov. 19	3.60
Feb. 14	4.20	June 3	3.20	29	2.30	Dec. 5	3.45
Mar. 8	4.35	28	2.70	Sept.30	2.90	26	2.80
26	4.25	July 15	2.70				

(C-1-1)22bda1. State claim 2199. Wm. Gedge. Record begins in 1931. Water levels,in feet above measuring point, 1940: Feb. 3, 9.5; Apr. 3, 9.4; June 19, a/7.5; Nov. 27, 9.7.

(C-1-1)28cdd1. State claim 7548. Edna M. Hill. Record begins in 1931. Water levels, in feet above measuring point, 1940: Apr. 2, 16.65; June 19, a/12.1; Nov. 26, 18.8.

(C-1-1)33abb1. State claim 7547. W. D. Hill. Record begins in 1931. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 3, 16.6; Apr. 2, 15.3; June 19, 10.6; Nov. 26, 17.6.

(C-1-2)5bbb1. State claim 13403. Morton Salt Co. Record begins in 1931. Valve open to plant prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 3, 18.2; Apr. 3, 18.2; June 19, 17.9; Nov. 26, 16.4.

(C-1-2)19bdd1. State claim 11821. Utah Copper Co. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 3, 2.58; Apr. 2, 2.74; June 19, 2.51; Nov. 26, 2.42.

(C-1-2)19dad1. State claim 5828. Utah Copper Co. Record begins in 1931. Water levels, in feet above measuring point, 1940: Feb. 3, 9.0; Apr. 2, 7.9; June 19, a/7.0; Nov. 26, 8.9.

(C-1-2)21add1. State claim 16791. Esther Beagley. Record begins in 1931. Water levels, in feet above measuring point, 1940: Feb. 3, 11.7; Apr. 2, 10.4; June 19, 10.75; Nov. 26, 11.2.

(C-1-2)22cbb1. Franklin E. Fowler. Record begins in 1931. Measuring point changed to top of ell on casing, 0.30 foot above former measuring point. Water levels, in feet above measuring point, 1940: Feb. 3, 11.3; Apr. 2, a/10.9; June 19, 11.6; Nov. 26, 12.5.

(C-1-2)25dcc1. State claim 4641. Hannah Nielsen. Record begins in 1937. Found valve open to barn prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 3, 30.3; Apr. 2, 30.1; June 19, 21.3; Nov. 26, 32.4.

(C-1-3)15bdc1. State application 1391. Measurements discontinued.

(C-2-1)1bab2. State claim 4058. C. S. Walters. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet above measuring point, 1940

Jan. 15	18.6	Apr. 22	18.0	July 18	13.1	Oct. 26	17.5
29	18.4	May 14	16.2	Aug. 8	12.65	Nov. 2	17.6
Feb. 16	18.8	28	15.2	27	13.0	23	17.6
Mar. 8	19.3	June 13	14.5	Sept. 9	14.6	Dec. 9	18.1
22	19.1	27	13.3	24	15.2	26	17.85
29	19.0						

a Found flowing.

Salt Lake County--Continued.

(C-2-1)10badl. Emma B. Lindsay. Record begins in 1931. Water levels, in feet below measuring point, 1940: Feb. 3, 10.44; Apr. 2, 13.85; June 19, 14.93; Nov. 27, 9.37.

(C-2-1)22bd. W. A. Diamond. Record begins in 1931.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 9	a 74.10	May 1	a 78.43	Aug. 19	a 73.14	Oct. 25	a 71.93
29	a 74.90	27	a 77.73	28	a 72.66	Nov. 12	a 72.83
Feb. 3	75.12	June 17	a 76.57	Sept. 7	a 72.42	Dec. 5	a 73.65
23	a 75.85	Aug. 5	a 74.05	24	a 71.74	28	a 74.70
Mar. 29	a 77.22						

(C-2-1)24adcl. State claim 16012. J. D. Blain. Record begins in 1931. Water levels, in feet below measuring point, 1940: Feb. 3, 23.45; Apr. 2, 24.15; June 19, 22.83; Nov. 27, 22.80.

(C-2-1)24ccc2. J. R. Smith. Record begins in 1931. Measuring point raised 3.0 feet. Water levels, in feet below measuring point, 1940: Feb. 3, 5.38; Apr. 2, 5.66; June 19, 5.02; Nov. 27, 5.18.

(C-2-1)36abal. Agnes Jenkins. Record begins in 1931. Water levels, in feet below measuring point, 1940: Feb. 3, 67.02; Apr. 2, 67.55; June 19, 66.75. Measurements discontinued.

(C-3-1)14bdcl. State claim 9501. B. H. Beckstead. Record begins in 1931. Water levels, in feet below measuring point, 1940: Feb. 3, 11.49; Apr. 2, 12.74; June 19, 11.77; Nov. 27, 10.72.

(C-3-1)15cadl. Lillian Dodd. Record begins in 1939. Water levels, in feet below measuring point, 1940: Feb. 3, 51.96; Apr. 2, 53.60; June 19, 53.18; Nov. 27, 51.04.

(C-3-1)25aa. Sproul Bros. Record begins in 1931.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 3	34.28	June 19	34.47	Nov. 27	33.90
Apr. 2	34.92	Sept. 9	33.28		

(C-3-1)26cadl. Frank Bagley. Record begins in 1931. Water levels, in feet above measuring point, 1940: Feb. 3, 17.8; Apr. 2, 17.3; June 19, 18.5.

(C-3-1)27cddl. J. R. Dansie and others. Record begins in 1931. Water levels, in feet below measuring point, 1940: Feb. 3, 29.54; Apr. 2, 32.08; June 19, 28.97; Nov. 27, 27.78.

(D-1-1)5addl. State claim 4838. Salt Lake City Corporation.

Water level, at noon, in feet below measuring point, 1940

(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	100.92	100.83	100.98	101.00	101.56	101.49	101.24	114.57	118.84	106.82	104.18	102.65
2	100.91	100.85	100.86	101.18	101.45	101.47	101.26	114.84	119.00	106.61	104.08	102.62
3	100.94	100.90	100.89	101.20	101.45	101.48	101.23	115.08	118.19	106.60	104.04	102.52
4	100.83	100.92	100.93	101.21	101.41	101.40	101.19	115.30	116.28	106.47	104.13	102.52
5	100.85	101.01	100.89	101.23	101.54	101.50	101.21	115.52	115.20	106.40	103.99	102.46
6	100.93	.....	100.96	101.28	101.55	101.49	101.60	115.72	114.23	106.35	103.94	102.52
7	100.94	.....	100.91	101.24	101.60	101.36	102.37	115.92	113.70	106.12	103.84	102.52
8	100.88	100.97	100.79	101.29	101.64	101.49	102.60	.....	113.08	105.93	103.79	102.42
9	100.89	101.02	100.79	101.29	101.64	101.42	104.48	.....	112.50	105.94	103.67	102.44
10	100.90	100.88	100.80	101.36	101.59	101.39	105.74	.....	112.11	105.90	103.80	102.43
11	100.90	100.90	100.84	101.39	101.58	101.34	106.21	.....	111.60	105.79	103.74	102.38
12	100.78	100.97	101.05	101.42	101.57	101.30	107.24	.....	111.22	105.65	103.81	102.32

a Measurements by Salt Lake City Corporation.

Salt Lake County--Continued.

(D-1-1)5addl.--Continued.

Water level, at noon, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
13	100.97	100.93	101.10	101.34	101.63	101.27	108.20	.....	.....	105.52	103.76	102.50
14	101.03	100.76	101.03	101.21	101.59	101.23	108.92	117.06	.....	105.45	103.65	102.51
15	101.03	100.85	100.94	101.10	101.58	.....	109.52	.....	.....	105.31	103.55	102.49
16	100.98	101.05	100.86	101.25	101.59	.....	108.20	.....	.....	105.17	103.40	102.35
17	100.87	100.95	101.04	101.41	101.58	.....	107.20	.....	.....	105.13	103.28	102.26
18	100.89	100.87	101.04	101.39	101.61	.....	107.45	.....	109.34	105.08	103.18	102.33
19	100.90	101.00	101.00	101.34	101.57	.....	109.02	.....	109.13	104.97	103.24	102.41
20	100.90	100.99	100.96	101.37	101.52	101.14	109.97	.....	108.88	104.84	103.17	102.38
21	100.90	100.43	100.95	101.36	101.58	101.15	110.67	117.95	108.63	104.74	103.13	102.29
22	100.89	100.80	100.93	101.35	101.64	101.13	111.25	.....	108.40	104.69	103.19	102.22
23	100.84	100.89	100.93	101.30	101.61	101.22	111.70	.....	108.18	104.67	103.20	102.11
24	100.84	100.96	100.97	101.34	101.55	101.20	112.15	.....	108.00	104.57	103.05	102.10
25	100.87	100.84	100.89	101.31	101.49	101.12	112.46	.....	107.83	104.49	102.98	102.33
26	100.84	100.81	100.91	101.29	101.50	101.12	112.78	.....	107.61	104.39	102.96	102.34
27	100.95	100.84	100.95	101.37	101.55	101.16	113.10	.....	107.35	104.38	102.83	102.20
28	100.96	.....	101.07	101.44	.....	101.20	113.32	117.41	107.28	104.45	102.71	102.31
29	100.90	100.78	101.10	101.46	101.54	101.17	113.71	117.96	107.16	104.34	102.60	102.20
30	100.86	.....	101.06	101.54	101.55	101.19	114.02	118.37	106.99	104.33	102.61	102.19
31	100.82	.....	101.04	.....	101.53	.....	114.33	118.67	.....	104.27	.....	102.35

(D-1-1)6ccdl. Royal Laundry. Record begins in June 1934. Measurements by Salt Lake City Corporation.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	13.13	May 7	11.97	Aug. 19	15.20	Sept. 30	16.53
Feb. 1	12.82	31	11.90	28	16.70	Oct. 30	16.64
Mar. 6	12.34	June 25	12.40	Sept. 4	16.03	Dec. 18	16.03
Apr. 10	11.96						

(D-1-1)7abd6. Salt Lake City Corporation. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet above measuring point, 1940

Jan. 3	6.3	Apr. 10	6.7	July 2	5.0	Oct. 8	5.65
15	6.8	30	5.8	Aug. 17	4.1	29	6.45
26	6.15	May 7	5.45	21	4.05	Nov. 6	6.55
Feb. 1	6.65	20	4.9	27	4.0	Dec. 3	6.3
20	6.95	31	4.45	Sept. 4	4.55	16	6.35
Mar. 6	6.75	June 13	4.4	24	4.7	27	6.4
18	6.7	25	4.05				

(D-1-1)9acal. State claim 4836. Salt Lake City Corporation.

Water level, at noon, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	145.33	145.39	143.62	142.49	142.73	143.26	143.79	144.65	145.23	.....	146.28
2	.....	145.37	145.21	143.67	142.39	142.73	143.29	143.87	144.64	.....	.....	146.32
3	.....	145.35	145.24	143.66	142.30	142.79	143.25	143.87	.....	.....	.....	146.32
4	.....	145.46	145.27	143.59	142.42	142.68	143.23	143.89	.....	.....	.....	146.32
5	.....	145.49	145.24	143.54	142.35	142.89	143.28	143.94	.....	.....	.....	146.27
6	.....	145.25	145.27	143.56	142.40	142.88	143.29	143.92	.....	.....	.....	146.29
7	.....	145.32	145.24	143.47	142.42	142.76	143.30	.....	.....	.....	145.79	146.35
8	.....	145.43	145.10	143.48	142.47	142.94	143.30	.....	.....	.....	145.78	146.36
9	145.50	145.42	145.07	143.43	142.45	142.94	143.35	.....	.....	.....	145.80	146.37
10	145.52	145.23	145.02	143.45	142.42	142.95	143.40	.....	.....	.....	145.91	146.37
11	145.48	145.31	145.00	143.40	142.42	142.97	143.39	.....	144.84	.....	145.96	146.32
12	145.46	145.39	145.08	143.32	142.52	142.97	143.40	.....	144.86	.....	146.01	146.40
13	145.45	145.26	144.99	143.19	142.46	142.97	143.43	.....	144.87	.....	145.98	146.55
14	145.43	145.19	.....	143.03	.....	142.97	143.44	.....	144.93	.....	145.94	146.53
15	145.39	145.37	.....	142.89	.....	142.99	143.47	.....	144.90	.....	145.96	146.53

Salt Lake County--Continued.

(D-1-1)9acal.--Continued.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	145.33	145.51	.....	143.03	.....	143.02	143.54	.....	144.89	.....	.....	146.48
17	145.36	145.28	.....	143.06	142.49	143.05	143.47	.....	144.94	.....	.....	146.52
18	145.43	145.29	.....	142.90	142.52	143.07	143.55	.....	144.98	.....	.....	146.59
19	145.43	145.43	.....	142.82	142.49	143.02	143.55	.....	145.09	.....	.....	146.56
20	145.48	145.35	.....	142.86	142.53	.....	143.56	.....	145.05	.....	146.00	146.63
21	145.37	145.27	144.28	142.78	142.60	.....	143.59	.....	145.07	.....	146.09	146.58
22	145.40	145.30	144.16	142.65	142.63	.....	143.60	144.38	145.08	.....	146.06	146.53
23	145.40	145.32	144.10	142.60	142.66	.....	143.61	144.50	145.09	145.48	146.11	146.65
24	145.44	145.38	144.04	142.62	142.65	.....	143.62	144.44	145.13	.....	146.14	146.55
25	145.48	145.27	143.94	142.59	142.66	.....	143.61	144.46	145.18	145.56	146.12	146.81
26	145.41	145.21	143.88	142.57	142.67	143.11	143.58	144.54	145.15	145.56	146.15	146.72
27	145.53	145.35	143.88	142.47	142.66	143.19	143.65	144.54	145.06	145.61	146.16	146.59
28	145.50	145.27	143.86	142.53	142.68	143.20	143.71	144.59	145.19	145.70	146.17	146.71
29	145.43	145.20	143.85	142.55	142.69	143.18	143.76	144.60	145.25	145.65	146.19	146.67
30	145.39	.....	143.77	142.60	142.71	143.21	143.79	144.63	145.23	.....	146.26	146.72
31	145.36	.....	143.77	.....	142.72	.....	143.78	144.63	.....	.....	.....	146.88

(D-1-1)19bbal. State claim 13468. Salt Lake County Hospital. Record begins in 1934. Measurements by Salt Lake City Corporation.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	16.8	June 13	7.2	Aug. 31	6.95	Sept. 24	9.8
30	15.8	22	7.05	Sept. 4	7.25	Oct. 3	12.45
Feb. 14	17.1	27	6.6	5	8.9	11	14.4
24	17.4	July 9	6.5	6	9.2	21	13.4
Mar. 28	19.1	27	5.7	7	9.3	28	13.7
Apr. 23	11.5	Aug. 3	5.6	9	8.7	Nov. 19	12.6
May 16	9.0	9	6.2	12	8.35	Dec. 5	13.55
28	8.5	9	5.3	16	9.0	21	13.8
June 3	8.5	17	6.5	17	8.4	26	14.05
10	7.9	24	6.8				

(D-1-1)20cdc4. Louis Lund. Record begins in 1932. Measurements by Salt Lake City Corporation.

Water level, in feet above measuring point, 1940

Jan. 15	3.48	May 6	2.41	July 27	0.55	Oct. 1	2.20
26	3.78	16	1.66	Aug. 15	0.17	8	2.00
Feb. 1	3.89	29	1.40	21	0.10	29	2.30
16	3.86	June 13	1.51	27	0.30	Nov. 6	3.00
Mar. 4	4.00	24	0.88	Sept. 4	0.37	14	2.15
18	4.03	28	0.88	6	1.01	Dec. 4	2.50
Apr. 9	3.74	July 12	0.75	16	0.90	16	2.57
19	2.98	19	0.70	24	1.31	27	3.00

(D-1-1)21accl. State claim 33. Utah State Prison. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet below measuring point, 1940

Jan. 10	76.05	Apr. 5	76.93	July 19	82.67	Oct. 2	80.18
19	76.02	19	75.74	Aug. 20	86.17	23	78.00
31	76.09	May 6	74.16	26	86.90	Nov. 8	77.33
Feb. 14	76.12	June 28	77.62	Sept. 3	87.62	26	78.00
Mar. 1	76.37	July 13	82.17	9	87.36	Dec. 20	78.04
15	76.54						

(D-1-1)30bbc9. L. W. Amodt. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet above measuring point, 1940

Mar. 26	14.2	June 3	5.2	July 15	2.70	Aug. 9	2.60
28	15.2	13	3.6	20	2.65	17	3.20
Apr. 26	13.5	22	3.15	27	2.35	24	3.10
May 17	6.1	27	2.50	Aug. 3	2.45	31	3.85
28	4.9	July 9	2.80	9	3.40	Sept. 4	4.50

Salt Lake County--Continued.

(D-1-1)30bbc9.--Continued.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 5	6.4	Sept. 16	6.9	Oct. 11	11.9	Nov. 2	13.5
6	7.0	17	6.9	18	11.9	14	13.0
9	7.25	24	8.0	26	11.9	19	12.8
12	6.4	Oct. 3	11.4				

(D-1-1)31caa2. State claim 4120. William Sorenson. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet above measuring point, 1940

Jan. 11	13.6	Apr. 9	14.4	Aug. 8	6.2	Nov. 2	12.95
29	13.4	22	11.6	27	7.1	23	12.0
Feb. 16	13.6	July 8	6.6	Sept.24	9.4	Dec. 26	11.8

(D-1-1)31cad4. State claim 4121. William Sorenson. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet above measuring point, 1940

Jan. 11	12.5	Mar. 16	12.95	July 8	5.4	Nov. 2	11.75
29	12.1	Apr. 9	13.0	Aug. 8	4.6	23	11.2
Feb. 16	12.55	22	10.65	27	5.6	Dec. 26	11.55
24	12.8	May 16	8.3	Sept.24	8.6		

(D-2-1)4dbd4. Eugene Templeman. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet below measuring point, 1940

Jan. 9	0.10	May 1	2.52	Aug. 27	2.25	Oct. 18	2.25
17	0.46	14	1.72	31	2.36	23	2.25
29	0.60	24	1.57	Sept. 3	2.42	30	2.29
Feb. 7	0.70	June 5	0.60	6	2.34	Nov. 12	2.37
21	0.98	14	0.60	12	2.68	29	3.04
Mar. 14	1.47	26	0.45	23	2.83	Dec. 17	2.25
Apr. 1	1.70	July 31	1.35	28	2.90	23	2.40
18	2.31	Aug. 14	1.81	Oct. 4	2.10		

(D-2-1)5aaa1. State claim 6685. May L. Davis. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet, with reference to measuring point, 1940

Jan. 16	+1.10	May 25	-0.67	Aug. 19	-2.70	Oct. 5	-0.45
29	+1.00	June 10	-0.40	Sept. 3	-2.17	15	-0.05
Feb. 17	+0.90	25	-1.50	5	-2.00	23	+0.10
Mar. 8	+1.10	July 2	-1.10	7	-1.60	Nov. 22	+0.40
Apr. 9	+1.00	8	-1.80	9	-1.29	Dec. 7	+0.80
22	+0.65	Aug. 2	-2.50	17	-1.55	27	+1.00
May 7	0.00	10	-2.60	26	-1.40		

(D-2-1)7bcd1. State claim 1530. American Smelting and Refining Co.

Water level, at noon, in feet above measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.9	21.7	21.7	21.1	20.6	18.5	16.3	15.6	15.6	17.7	20.1	20.5
2	21.1	21.8	21.7	20.8	20.9	18.0	16.8	15.6	15.7	18.2	20.0	20.4
3	....	21.9	21.6	21.0	20.5	17.7	16.6	15.3	15.5	18.0	19.2	20.3
4	21.4	21.7	21.6	21.0	....	18.3	17.1	15.5	15.4	18.1	20.0	20.8
5	20.5	21.6	21.6	21.1	19.8	18.0	17.1	15.7	15.9	18.1	19.9	20.8
6	20.8	21.9	21.6	20.8	19.6	18.8	16.2	15.6	16.1	18.5	19.7	21.0
7	21.5	21.8	21.7	20.8	19.0	19.1	15.9	15.2	16.7	18.4	19.9	21.3
8	21.3	21.6	21.8	20.8	18.8	18.3	16.0	15.4	17.0	18.4	20.2	21.0
9	21.5	21.7	21.7	20.9	18.8	18.0	15.8	15.5	17.0	18.3	20.2	20.9
10	21.4	21.9	21.7	20.9	19.2	18.2	15.7	15.3	16.7	18.2	19.3	20.8
11	21.3	21.6	21.6	20.9	19.0	18.2	15.6	14.8	16.3	18.9	19.8	20.8
12	21.5	21.6	21.6	21.1	18.6	18.4	15.7	15.3	16.2	19.0	19.6	....
13	....	21.6	21.6	21.1	18.1	18.0	15.7	15.3	16.3	19.2	19.7	....
14	21.4	21.8	21.5	20.7	18.3	17.7	15.6	14.9	16.3	19.0	20.0	....
15	21.4	21.8	21.9	20.3	18.7	17.7	15.5	15.5	16.4	19.0	20.1	....

Salt Lake County--Continued.

(D-2-1)7bcd1.--Continued.

Water level, at noon, in feet above measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	21.4	21.7	21.9	....	18.2	17.8	15.6	15.3	16.5	19.0	20.2	....
17	....	21.7	21.7	....	18.2	17.7	16.2	15.4	16.2	19.2	20.1	20.8
18	....	21.6	21.6	20.7	18.2	17.2	15.8	15.1	16.5	19.1	20.0	20.6
19	21.3	21.6	21.5	20.5	18.3	17.0	16.0	15.1	16.3	19.0	20.2	21.0
20	....	21.6	21.6	20.5	18.2	16.7	15.7	15.2	16.7	19.0	20.0	20.7
21	....	21.7	21.7	20.1	18.4	16.6	15.7	15.2	17.0	19.0	19.8	20.8
22	....	21.7	21.8	20.2	18.5	16.5	....	15.3	17.1	18.8	20.0	21.1
23	21.2	21.7	21.5	19.9	18.9	16.4	....	15.0	17.2	19.0	20.0	21.1
24	....	21.7	21.8	20.1	18.7	16.5	....	14.9	17.0	19.0	20.0	21.0
25	....	21.7	21.5	20.4	18.2	16.6	....	15.0	16.8	19.5	19.7	21.0
26	....	21.7	21.0	20.5	18.4	16.4	16.0	15.3	17.4	19.3	19.7	21.0
27	....	21.7	20.9	20.0	18.0	16.2	15.4	15.4	17.5	19.6	19.7	21.2
28	....	21.8	20.9	20.2	18.2	15.9	15.8	15.4	17.2	19.8	20.2	20.9
29	....	22.0	21.2	20.4	18.4	16.0	15.7	15.3	17.4	19.7	20.4	21.0
30	....	....	21.4	20.5	18.3	15.8	15.6	15.4	17.7	19.6	20.3	21.1
31	21.7	....	21.3	....	18.5	....	15.2	15.5	....	20.4	....	20.9

(D-2-1)8ada3. Chester Cahoon. Record begins in 1931.

Water level, at noon, in feet above measuring point, Jan.-May, 1940
(from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	9.7	Feb. 10	10.3	Mar. 14	10.2	Apr. 9	9.9
2	9.6	11	9.9	15	10.5	10	9.8
3	9.7	12	10.0	16	10.4	11	10.0
4	9.7	13	10.1	17	10.0	12	10.1
5	9.7	14	10.3	18	10.1	13	10.3
6	9.6	15	10.4	19	10.2	14	10.2
8	9.6	16	10.4	20	10.4	15	10.1
9	9.6	17	10.4	21	10.4	16	10.0
10	9.7	18	10.1	22	10.6	17	10.1
17	10.2	19	10.2	23	10.5	19	10.3
24	10.0	20	10.4	24	10.5	20	10.3
25	10.0	21	10.4	25	10.3	21	10.0
26	10.1	22	10.3	26	10.0	22	9.9
27	10.0	23	10.3	27	9.6	23	9.9
28	10.0	24	10.3	28	9.5	24	9.8
29	10.1	25	10.5	29	9.7	25	10.1
30	10.0	26	10.3	30	10.0	26	10.0
31	10.1	27	10.3	31	9.8	27	9.8
Feb. 1	10.1	28	10.6	Apr. 1	9.9	28	9.8
2	10.4	29	10.7	2	9.5	29	9.7
3	10.5	Mar. 1	10.3	3	9.8	30	9.9
4	10.3	2	10.2	4	9.9	May 1	10.2
5	10.0	3	10.4	5	10.0	2	10.3
6	10.4	4	10.3	6	9.9	3	10.2
7	10.4	5	9.8	7	10.0	4	10.1
8	9.9	6	10.0	8	9.7	5	9.8
9	10.0	13	10.2				

(D-2-1)8ada3. Chester Cahoon.--Continued.

Daily high and low water levels, May-Sept., 1940
(from recorder charts)

Day	May		June		July		August		September	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	....	...	10.9	4.3	9.3	4.7	7.0	3.2	5.9	2.6
2	....	...	a10.4	...	10.2	4.1	7.4	3.2	6.0	2.6
3	....	...	a10.0	...	9.9	3.7	7.0	3.2	6.3	2.6
4	....	...	a10.5	...	a 9.2	...	7.7	3.0	....	...
5	....	...	a10.0	...	8.9	3.5	7.2	3.1	....	...
6	10.2	3.9	a10.2	...	7.8	4.6	7.0	3.2	....	...
7	9.6	4.0	10.7	4.5	8.2	3.6	7.2	3.2	....	...
8	a10.1	...	10.6	4.5	8.0	3.6	7.0	3.1	....	...

a Water level at 12:00 noon.

Salt Lake County--Continued.

(D-2-1)8ada3.--Continued.

Daily high and low water levels, May-Sept., 1940
(from recorder charts)

Day	May		June		July		August		September	
	High	Low	High	Low	High	Low	High	Low	High	Low
9	10.0	4.1	a10.2	...	8.0	3.5	6.2	3.1	....	...
10	10.5	4.1	10.9	4.3	7.8	3.7	6.2	3.0	....	...
11	10.1	4.5	10.9	4.4	7.9	3.4	6.1	2.9	....	...
12	a 9.9	...	10.8	6.4	7.7	3.4	6.3	3.0	6.4	2.6
13	10.3	4.5	9.5	4.0	7.8	3.4	5.6	2.9	a7.0	...
14	10.5	4.2	9.7	4.0	9.0	3.6	6.9	3.1	a7.0	...
15	10.5	4.3	9.1	4.0	7.6	3.4	5.1	2.8	a7.0	...
16	a10.1	...	9.6	4.1	8.0	3.4	5.9	2.8	6.5	2.5
17	a10.1	...	8.8	3.8	8.1	3.6	6.0	2.8	6.2	2.6
18	a10.3	...	8.7	3.6	8.1	3.4	6.3	2.8	6.8	2.7
19	a10.3	...	8.4	4.9	7.8	3.4	6.3	2.8	6.2	2.5
20	10.6	4.1	8.5	3.5	7.6	3.4	5.5	2.9	a6.7	...
21	a10.2	...	8.3	3.6	9.1	3.4	7.0	2.9	a6.9	...
22	10.6	4.2	8.4	3.5	7.9	3.4	6.8	2.8	7.0	3.1
23	....	...	a 9.4	...	7.5	3.3	6.0	2.8	6.0	2.6
24	....	...	8.8	3.6	8.4	3.6	6.0	2.8	5.9	2.4
25	....	...	8.4	3.6	7.8	3.6	6.4	2.8	a6.5	...
26	a10.1	...	8.2	3.6	7.2	3.5	6.1	2.9	6.0	2.7
27	....	...	8.2	3.3	7.6	3.5	5.8	2.8	6.0	2.7
28	....	...	8.1	3.5	7.7	3.5	5.8	2.8	5.7	2.5
29	a10.1	...	8.1	3.5	7.8	3.3	5.4	2.7	a6.3	...
30	a10.5	...	a 9.0	...	7.3	3.3	5.5	2.6	6.0	2.5
31	10.7	4.3	....	...	7.2	3.3	5.7	2.6	....	...

(D-2-1)8ada3. Chester Cahoon.--Continued.

Water level, at noon, in feet above measuring point, Oct.-Dec., 1940
(from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 1	6.4	Oct. 22	6.5	Nov. 13	6.6	Dec. 11	8.8
2	6.6	23	6.5	21	6.7	12	8.9
3	6.2	24	6.4	22	6.7	13	8.8
4	6.5	25	6.5	23	6.9	14	8.9
5	6.5	26	6.3	24	7.0	15	8.9
6	6.4	27	6.1	25	7.0	16	9.0
7	6.5	28	6.0	26	7.0	17	9.3
8	6.5	29	6.0	27	7.1	18	9.2
9	6.3	30	5.8	28	7.3	19	9.3
10	6.4	31	6.1	29	7.4	20	9.1
11	6.5	Nov. 1	6.1	30	7.4	21	9.1
12	6.5	2	7.2	Dec. 1	7.3	22	9.2
13	6.6	3	6.5	2	7.3	23	9.5
14	6.5	4	6.5	3	7.9	24	9.5
15	6.5	5	6.6	4	8.8	25	8.6
16	6.5	6	6.6	5	8.9	26	8.5
17	6.5	7	6.8	6	8.9	27	8.7
18	6.5	8	7.0	7	8.8	28	8.5
19	6.6	9	7.0	8	8.9	29	8.6
20	6.5	10	6.5	9	8.9	30	8.7
21	6.5	11	6.5	10	8.8	31	8.5

(D-2-1)8bbbl. State claim 218. A. R. and T. E. Hogge. Record begins in 1931. Measurements by Salt Lake City Corporation.

Water level, in feet below measuring point, 1940

Jan. 11	0.52	May 16	1.91	July 30	6.70	Oct. 15	2.11
23	1.46	27	1.93	Aug. 20	6.77	21	2.17
Feb. 15	0.62	June 10	1.65	Sept. 5	3.75	28	2.04
Mar. 12	0.56	25	5.40	16	4.60	Nov. 20	1.94
Apr. 1	0.71	July 8	5.95	26	3.90	Dec. 7	0.49
18	0.95	16	5.90	Oct. 4	2.13	23	0.27
May 7	1.82						

a Water level at 12:00 noon.

Salt Lake County--Continued.

(D-2-1)15acc. M. A. Keyser. Record begins in 1934. Measurements by Salt Lake City Corporation.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 9	71.10	Apr. 18	71.80	July 31	65.02	Sept. 23	68.30
17	71.63	May 1	71.00	Aug. 16	66.36	Oct. 4	69.05
29	72.20	14	69.59	21	66.56	23	69.83
Feb. 7	72.44	24	68.30	27	67.10	30	70.38
21	72.07	June 5	65.48	30	67.28	Nov. 12	71.29
Mar. 14	73.85	14	64.15	Sept. 6	67.58	Dec. 5	71.49
Apr. 1	72.93	26	63.33	13	67.70	24	71.50

(D-3-1)5cdcl. Sam Jones. Record begins in 1931. Water levels, in feet below measuring point, 1940: Feb. 3, 11.36; Apr. 2, 9.27; June 19, 6.62; Nov. 27, 11.40.

Sanpete County

(C-18-1)13cc2. Arch Mellor. Record begins in 1936. Water levels, in feet above measuring point, 1940: Mar. 26, a/5.8; June 5, a/6.4; Dec. 5, 7.0.

(C-19-1)23bccl. State claim 1457. C. H. Beal. Record begins in 1935. Water levels, in feet below measuring point, 1940: Mar. 26, 34.58; June 5, 34.87; Dec. 5, 34.08.

(C-19-1)25cd2. Wintch and Dyreng. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 7, 2.42; Mar. 26, 1.85; June 5, 2.32; Dec. 5, 2.83.

(D-14-2)13aa. Ernest Hansen. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 6, 13.9; Mar. 27, 14.2; June 3, 14.6; Dec. 4, 14.1.

(D-14-3)33bccl. State claim 3708. Joseph Cloward. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 6, 4.7; Mar. 27, 4.6; June 3, 4.6; Dec. 4, 5.1.

(D-15-3)8cda3. State claim 13671. William Prestwick. Record begins in 1937. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 6, 1.22; Mar. 27, 1.58; June 3, 1.42; Dec. 4, 1.00.

(D-15-3)26ccc. J. C. Christensen. Record begins in 1939. Water levels, in feet below measuring point, 1940: Feb. 6, 13.85; Mar. 27, 13.05; June 4, 9.92; Dec. 4, 10.6.

(D-15-3)28abal. State claim 2100. Isaac Reynolds. Record begins in 1937. Found flowing prior to all measurements.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Feb. 6	2.35	3.9	June 4	2.38	4.0
Mar. 27	2.32	3.9	Dec. 4	2.20	...

(D-15-3)35bbb. Measurements discontinued.

(D-15-4)4ddal. State claim 3606. Twin Creek Irrigation Co. Record begins in 1935. Water levels, in feet below measuring point, 1940: Mar. 27, 22.10; June 3, 16.95; Dec. 4, 18.24.

a Found flowing.

Sanpete County--Continued.

(D-15-4)6adal. State claims 3741 and 8279. W. H. Brinton. Record begins in 1937. Water levels, in feet below measuring point, 1940: Feb. 6, 4.92; Mar. 27, 4.84; June 3, 4.13; Dec. 4, 5.35.

(D-15-4)29bacl. State claim 8276. Drought Relief Administration. Record begins in 1935. Water levels, in feet below measuring point, 1940: June 3, 1.63; Dec. 4, 7.61.

(D-16-3)4aaal. State claim 2252. Joseph Bagnall. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 6, 5.8; Mar. 27, 5.9; June 4, 4.5; Dec. 4, 5.7.

(D-16-3)14dcal. State claim 65. Chris Larsen and Sons. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 7	14.47	June 4	13.00	Dec. 4	13.32
Mar.27	13.13	Aug. 1	13.42		

(D-16-3)15acal. State claim 8492. Federal Land Bank. Record begins in 1937. Water levels, in feet below measuring point, 1940: Feb. 7, 38.76; Mar. 27, 36.44; June 4, 36.02; Dec. 4, 36.12.

(D-16-3)15adcl. State application 12588. E. L. Davidson. Record begins in 1938. Water levels, in feet below measuring point, 1940: Feb. 7, 60.62; Mar. 27, 60.40; June 4, 59.49; Dec. 4, 59.10.

(D-16-3)32adal. State claim 5747. D. N. Beal. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: June 4, 7.7; Dec. 4, 7.0. Measurements discontinued.

(D-16-3)32ddc2. State claim 11676. George Beal. Record begins in 1935.

Water level, at noon, in feet above measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.1	4.8	4.6	4.4	4.4	...	6.5	5.7	8.9	8.7	8.5	7.9
2	5.3	4.8	4.8	4.3	4.5	...	6.8	5.8	...	8.7	8.9	7.9
3	5.0	4.8	4.5	4.2	4.5	...	6.5	6.5	...	8.7	8.6	7.9
4	5.5	4.7	4.8	4.3	4.5	6.9	...	7.3	...	8.7	8.6	8.1
5	5.2	4.7	4.3	4.3	4.5	7.2	6.3	7.5	...	8.7	8.5	8.3
6	5.5	5.1	4.3	4.3	4.5	7.5	6.3	7.8	...	8.6	8.5	8.3
7	5.4	4.7	4.8	4.4	4.5	7.5	...	8.3	...	8.7	8.7	8.3
8	5.4	4.9	4.5	4.4	4.5	7.4	...	8.5	8.7	8.7	8.4	8.4
9	5.4	5.1	4.6	4.3	4.5	7.6	6.1	7.8	8.7	8.6	8.3	8.4
10	5.0	5.0	4.5	4.3	4.5	7.8	5.7	7.3	8.7	8.7	8.2	8.3
11	5.3	4.7	4.5	4.5	4.5	8.0	5.0	7.8	8.7	8.6	8.2	8.6
12	5.2	5.4	4.8	4.5	3.6	8.2	5.0	7.0	8.8	8.6	8.0	8.6
13	5.5	5.0	4.8	4.2	2.8	8.3	6.2	7.4	8.8	...	8.5	8.5
14	5.2	5.0	4.8	4.5	2.5	8.5	5.8	7.7	8.6	8.6	8.5	7.7
15	5.1	5.1	4.7	4.5	3.0	8.3	5.6	8.2	8.6	8.6	8.3	8.0
16	5.1	5.3	4.6	4.4	3.0	8.4	5.2	8.4	8.7	8.6	8.0	8.3
17	5.0	5.2	4.6	4.4	3.4	8.6	5.4	8.5	8.8	8.7	8.0	8.3
18	5.5	5.0	4.9	4.4	3.7	8.7	5.4	...	8.7	8.6	7.8	8.5
19	5.3	5.2	4.8	4.5	4.0	8.8	4.8	8.6	8.8	8.5	7.8	8.5
20	5.3	4.8	4.8	4.4	4.3	8.6	4.4	8.7	8.9	8.5	7.8	8.5
21	5.2	4.7	5.0	4.4	4.6	8.0	3.8	8.7	8.7	8.5	8.4	8.0
22	5.0	5.2	5.0	4.5	4.7	7.8	3.8	8.6	8.8	8.5	8.1	8.4
23	5.0	4.6	4.7	4.4	...	6.8	4.6	8.6	8.8	8.6	8.1	7.9
24	5.2	4.3	4.5	4.5	...	5.8	5.8	8.6	8.8	8.5	8.1	8.0
25	5.3	4.5	4.5	4.6	...	5.3	5.6	8.6	8.8	8.5	7.9	8.0
26	5.5	4.5	4.6	4.4	...	4.7	6.0	8.7	8.8	8.4	...	8.2
27	4.8	4.5	4.2	4.5	...	4.0	6.5	8.9	8.8	8.4	...	8.4
28	5.0	4.5	4.3	4.5	...	3.7	6.4	8.9	8.7	8.5	7.9	7.8
29	5.2	4.6	4.4	4.5	...	3.7	6.0	8.9	8.7	8.6	8.1	8.0
30	5.2	...	4.4	4.5	...	4.0	6.0	8.9	8.7	8.6	7.9	7.9
31	5.0	...	4.3	...	...	...	6.5	8.9	...	8.5	...	8.0

Sanpete County--Continued.

(D-16-3)33babl. State claim 11538. P. S. Justeson. Record begins in 1935. Found flowing prior to all measurements. Measurements discontinued after Dec. 4, 1940.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Mar. 27	1.55	2.6	Dec. 4	1.67	....
June 4	3.38	4.8			

(D-16-3)33bac2. State claim 11539. D. S. Justeson. Record begins in 1935. Found flowing prior to all measurements. Measurements discontinued after Dec. 4, 1940.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Mar. 27	1.38	1.1	Dec. 4	1.28	....
June 4	2.75	2.2			

(D-16-3)33ccbl. State claim 7333. Chris Olsen. Record begins in 1935.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	7.6	Mar. 26	7.07	July 14	4.0	Oct. 13	6.00
13	7.3	Apr. 6	7.2	21	4.0	20	6.10
20	7.6	14	6.9	29	4.6	27	6.1
27	7.1	May 19	3.08	Aug. 4	4.4	Nov. 3	6.1
Feb. 3	7.9	24	1.11	11	4.6	17	5.9
7	7.47	June 2	1.10	18	4.6	24	6.0
10	7.2	4	2.64	25	5.9	Dec. 1	6.2
17	7.3	9	2.1	Sept. 1	5.00	4	6.13
24	7.8	16	1.9	15	5.7	8	6.1
Mar. 2	7.4	23	1.9	21	6.10	15	6.1
10	7.00	30	2.6	29	6.2	22	5.9
16	8.1	July 8	3.9	Oct. 6	5.11	31	5.11
23	7.2						

(D-17-2)1bca2. State claim 11528. G. A. Anderson. Record begins in 1938. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 7, 3.36; Mar. 26, 3.36; June 4, 3.33; Dec. 4, 3.80.

(D-17-2)36cbdl. Geo. B. Cox. Record begins in 1935. Water levels, in feet with reference to measuring point, 1940: Mar. 26, -3.28; June 4, a/+3.75; Dec. 5, a/+0.15.

(D-17-3)3cb. State claim 11644. J. E. Poulsen, Ephraim. Diameter 6 inches. Measuring point, top of casing, 0.2 foot above land surface. Water levels, in feet below measuring point, 1940: Feb. 7, 26.94; Mar. 27, 26.98; June 4, 27.18; Dec. 4, 26.85.

(D-17-3)4bccl. State application 11763. R. A. Olsen and others. Record begins in 1935.

Water level, in feet below measuring point, 1940

Jan. 6	12.00	Mar. 10	11.8	June 16	6.80	Oct. 27	9.9
13	12.20	16	14.8	Aug. 4	7.11	Nov. 3	9.9
20	12.60	23	12.7	18	6.4	17	9.8
27	12.1	26	13.22	Sept. 1	7.6	24	9.1
Feb. 3	11.3	Apr. 6	13.1	15	9.0	Dec. 1	9.0
7	12.65	14	13.4	21	9.0	4	9.45
10	12.9	May 19	11.08	29	8.1	8	9.6
17	12.3	24	11.02	Oct. 6	9.1	15	9.6
24	12.6	June 2	9.10	13	10.1	22	9.6
Mar. 2	12.3	4	8.30	20	10.0	31	9.9

a Found flowing prior to measurement.

Sanpete County--Continued.

(D-17-3)5bdal. State claim 4454. Alden Beal. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 26, 6.35; June 4, 6.85; Dec. 4, 8.5. Measurements discontinued after Dec. 4, 1940.

(D-17-3)5ccdl. State claim 2250. James Rasmussen. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 26, 11.8; June 4, 13.8; Dec. 5, 16.0.

(D-17-3)5cda. Orson Poulson. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 7, 1.15; Mar. 26, 0.86; June 4, 0.97. Measurements discontinued.

(D-17-3)6aadl. State claims 9761 and 11837. Federal Land Bank. Record begins in 1935. Water levels, in feet above measuring point, 1940: Mar. 26, 17.8; June 4, a/16.4; Dec. 4, a/17.9. Measurements discontinued.

(D-17-3)6bcc. State claim 11479. Nels Thompson. Record begins in 1935. Water levels, in feet above measuring point, 1940: Feb. 7, 5.5; Mar. 26, 5.5; June 4, a/5.05; Dec. 4, a/6.5. Measurements discontinued.

(D-17-3)6dbal. State claim 11431. Niels Christensen. Record begins in 1935. Water levels, in feet above measuring point. 1940: Feb. 7, a/3.78; Mar. 26, a/3.75; June 4, a/3.65; Dec. 4, a/4.6.

(D-17-3)7bbbl. State claim 11485. Jacob Thompson. Record begins in 1935. Water levels, in feet above measuring point, 1940: Mar. 26, 9.8; June 4, a/10.0; Dec. 4, a/12.9. Measurements discontinued.

(D-17-3)8babl. State claim 4427. J. O. Anderson. Record begins in 1935. Water levels, in feet above measuring point, 1940: Mar. 26, a/3.05; June 4, a/5.8; Dec. 5, a/7.5. Measurements discontinued.

(D-17-3)8cddl. State claim 10498. Stanley Nielsen. Record begins in 1935. Water levels, in feet below measuring point, 1940: Mar. 26, 10.43; June 4, 6.52; Dec. 5, 11.11.

(D-17-3)9cbdl. State claims 4446 and 8260. S. E. Christensen. Record begins in 1935. Water levels, in feet below measuring point, 1940: Mar. 26, 46.22; June 4, 41.22; Dec. 5, 38.81.

(D-17-3)17adbl. State claim 8261. Drought Relief Administration. Record begins in 1938. Water levels, in feet below measuring point, 1940: Mar. 26, 55.08; June 4, 50.48; Dec. 5, 48.14.

(D-17-3)30dbdl. State claim 2696. Ernest Monk. Record begins in 1938. Water levels, in feet above measuring point, and flow, in gallons per minute, 1940: Mar. 26, a/7.8, flowing 4.3; June 4, a/9.3, flowing 5.2; Dec. 5, a/9.7.

(D-18-2)1da. L. H. Hougaard. Record begins in 1935.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	79.49	80.76	81.63	82.14	.....	.....	.....	63.74	.....	70.57	72.92	.....
2	79.49	80.82	81.70	82.16	.....	.....	.....	63.86	.....	70.60	72.97	.....
3	79.50	80.87	81.70	82.11	.....	.....	.....	64.11	.....	70.85	73.03	.....
4	79.49	.....	81.72	82.04	.....	.....	.....	.....	.....	70.85	73.22	.....
5	79.48	80.91	81.71	81.98	.....	.....	.....	64.41	.....	71.05	73.24	.....
6	79.55	80.92	81.75	81.91	.....	.....	.....	64.50	.....	71.13	73.29	.....
7	79.60	80.95	81.75	81.85	.....	.....	.....	64.61	68.61	.....	73.33	.....
8	79.60	81.00	81.75	81.70	.....	.....	.....	64.74	.....	71.11	73.40	.....
9	79.64	81.05	81.76	81.62	.....	.....	.....	64.88	68.67	71.22	73.57	.....
10	79.71	81.05	81.80	81.57	.....	.....	.....	65.02	68.87	71.37	73.60	.....
11	79.70	81.09	81.85	81.57	.....	.....	.....	.....	69.20	71.42	.....	.....
12	79.79	81.12	81.89	81.57	.....	.....	.....	65.24	.....	71.46	.....	.....
13	79.85	81.16	81.93	81.60	80.60	.....	.....	65.35	.....	71.50	.....	.....
14	79.89	81.19	81.94	81.63	80.33	.....	.....	65.45	.....	71.66	.....	.....
15	80.02	81.23	81.95	81.64	80.05	.....	.....	65.65	.....	71.84	.....	.....

a Found flowing.

Sanpete County--Continued.

(D-18-2)1da.--Continued.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	80.04	81.30	81.95	81.78	79.73	.....	61.58	65.79	69.24	71.8[illegible]	.....	.....
17	80.05	81.31	81.98	81.92	79.35	.....	61.70	65.96	69.37	71.9[illegible]	.....	.....
18	80.10	81.34	82.03	81.94	78.95	.....	61.87	.....	69.51	72.07	.....	.....
19	80.16	.....	82.04	81.97	.....	.....	61.97	.....	.....	72.11	.....	.....
20	80.19	.....	82.05	82.02	.....	.....	62.03	66.16	.....	72.15	.....	.....
21	80.24	.....	82.06	82.03	.....	.....	62.27	66.29	.....	72.20	.....	.....
22	80.29	.....	82.07	82.05	.....	.....	.....	66.49	.....	72.24	.....	.....
23	80.32	.....	82.08	82.06	.....	.....	.....	66.59	70.06	72.29	.....	.....
24	80.36	.....	82.10	82.06	.....	.....	.....	66.69	70.17	72.37	.....	.....
25	80.43	.....	82.10	82.05	.....	.....	.....	66.88	70.20	72.41	.....	.....
26	80.47	.....	82.15	82.03	.....	.....	.....	.....	70.24	72.47	.....	.....
27	80.53	81.60	82.17	82.01	.....	.....	.....	.....	70.39	72.55	.....	.....
28	80.60	81.65	82.19	81.99	.....	.....	.....	.....	.....	72.66	.....	.....
29	80.64	81.65	82.20	81.96	.....	.....	.....	.....	70.49	.....	.....	.....
30	80.67	.....	82.20	81.80	.....	.....	63.41	67.42	70.54	72.82	.....	.....
31	80.69	.....	82.19	.....	.....	.....	63.54	67.52	.....	72.87	.....	.....

(D-18-2)12babl. State claim 13390. Manti City. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 7, 81.78; Mar. 26, 82.96; June 4, 65.05; Dec. 5, 75.90.

(D-19-2)17aadl. State claim 13462. W. G. Frischknecht. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 7, 6.57; Mar. 26, 6.98; June 4, 0.90; a/ Aug. 1; Dec. 5, 4.07.

(D-19-2)32aacl. State claim 11881. Mayfield Irrigation Co. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 7, 37.33; Mar. 26, 37.81; June 4, 14.48; Aug. 1, 22.74; Dec. 5, 31.71.

(D-20-1)5bd. Federal Land Bank. Record begins in 1939. Water levels, in feet below measuring point, 1940: Mar. 26, 23.73; June 5, 20.97; Dec. 5, 17.75.

(D-20-1)20aaal. State claim 6356. Federal Land Bank. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 7, 42.80; Mar. 26, 42.81; June 5, 42.63; Aug. 1, 41.32; Dec. 5, 41.84.

Sevier County

(C-21-1)13bdal. State claim 5817. Federal Land Bank. Record begins in 1935. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 8	3.82	May 6	b 3.8	Dec. 5	4.0
Apr. 1	b 3.55	June 5	4.4		

(C-21-1)27aadl. State claim 8407. E. A. Thorsen. Record begins in 1935. Water levels, in feet below measuring point, 1940: Feb. 8, 3.83; Apr. 1, b/4.26; May 1, b/4.24; June 5, 3.87.

(C-22-1)8bb. A. L. Anderson. Record begins in 1935.

Water level, in feet below measuring point, 1940

Feb. 8	30.67	May 1	b 31.0	Dec. 5	30.08
Apr. 1	b 31.12	June 5	30.72		

(C-23-2)1aacl. State claim 6479. U. S. Gypsum Co. Record begins in 1935. Elevation of measuring point, 5210.55 feet above sea level. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Feb. 8	2.96	May 1	b 3.95	Dec. 5	3.20
Apr. 1	b 3.3	June 5	4.25		

a Barely flowing.

b Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Sevier County--Continued.

(C-23-2)15bdd3. State claim 1989. Sevier School District. Record begins in 1936.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 8	7.2	May 1	a 6.7	Dec. 5	7.3
Apr. 1	a 6.9	June 5	6.9		

(C-23-2)15ccc. Martha Avery. Record begins in 1937.

Water level, at noon, in feet above measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.2	6.6	6.0	5.1	2.1	1.4	1.4	1.1	1.4	2.4	4.7	5.5
2	5.6	6.6	5.7	5.1	2.2	...	1.4	1.3	1.3	2.3	4.6	5.6
3	5.7	6.4	5.7	5.1	2.2	1.2	1.6	1.4	1.2	2.3	4.6	...
4	5.7	6.4	5.7	5.0	2.1	1.4	1.6	1.3	1.2	2.4	4.7	...
5	5.7	6.2	5.8	5.0	1.9	1.3	1.7	1.4	1.3	2.1	4.7	...
6	5.7	6.1	5.9	4.8	1.7	1.3	1.6	1.4	1.4	1.8	4.7	5.5
7	...	6.2	5.9	4.8	1.6	1.4	1.4	1.4	1.4	2.0	4.2	5.5
8	5.4	6.2	6.0	4.1	1.6	1.4	1.1	1.4	1.3	2.1	4.6	5.5
9	5.6	6.0	6.0	4.0	1.6	1.3	1.1	1.4	1.6	2.2	4.8	5.4
10	5.5	5.9	6.0	4.0	1.6	1.5	1.1	1.4	1.8	2.8	4.8	5.6
11	5.4	5.9	5.8	3.8	1.6	1.5	1.1	1.4	2.0	3.0	...	5.7
12	5.5	5.8	5.7	3.7	1.4	1.5	1.1	0.9	2.0	3.1	...	5.6
13	5.6	5.8	5.8	3.6	1.4	1.4	1.1	0.9	...	3.2	...	...
14	...	6.0	5.9	3.7	1.4	1.5	1.1	1.0	...	3.5	...	...
15	...	6.1	6.1	3.8	1.4	1.5	1.2	1.1	...	...	5.8	...
16	...	6.0	6.2	3.5	1.5	1.6	1.1	1.1	1.8	...	5.6	...
17	...	5.8	6.1	3.5	1.6	1.8	1.4	1.2	1.8	...	5.5	...
18	...	5.8	6.0	3.5	1.5	1.7	1.5	1.2	2.6	...	5.5	...
19	...	5.8	6.0	3.5	1.4	1.7	1.4	1.1	3.1	...	5.5	...
20	...	5.7	6.1	...	1.3	1.9	1.6	1.1	3.3	...	5.6	...
21	...	5.9	6.2	...	1.4	2.0	1.5	1.2	3.5	...	5.6	...
22	...	6.0	6.2	3.2	1.3	1.5	2.1	1.2	3.8	...	5.7	...
23	...	6.1	6.1	3.2	1.2	1.4	1.9	1.2	3.8	...	5.6	...
24	...	6.0	6.0	3.2	1.2	1.3	1.9	1.4	3.8	...	...	...
25	...	5.9	5.7	2.6	1.2	1.3	1.5	1.4	3.8	...	5.5	...
26	...	6.0	5.9	2.7	1.1	1.3	1.5	1.4	3.8	...	...	...
27	...	6.0	6.0	2.6	0.9	1.4	1.4	1.3	3.7	...	...	...
28	...	6.1	5.9	2.5	0.9	1.3	1.4	1.2	3.5	...	...	...
29	6.4	6.1	6.0	2.1	0.9	1.5	1.2	1.2	3.6	...	...	...
30	6.3	...	6.0	2.1	1.0	1.4	1.1	1.2	3.5	...	5.6	...
31	6.4	...	5.7	...	1.3	...	1.1	1.3	...	...	...	...

(C-23-2)15dcb4. State claim 1969. F. M. Jackson. Record begins in 1935. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 8	8.95	May 1	a 5.5	Dec. 5	8.7
Apr. 1	a 7.85	June 5	3.95		

(C-23-2)19dabl. (C-23-2)19da in Water-Supply Paper 886. State claim 8447. Wm. Hallows. Record begins in 1935. Elevation of measuring point, 5288.70 feet above sea level. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Feb. 8	18.9	May 1	a 17.0	Dec. 5	21.5
Apr. 1	a 17.9	June 5	22.9		

(C-23-2)26cdbl. State claim 323. N. C. Johnson. Record begins in 1935.

Water level, in feet above measuring point, 1940

Feb. 8	6.95	May 1	ab 4.5	Dec. 5	6.4
Apr. 1	ab 5.7	June 5	b 4.15		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

Sevier County--Continued.

(C-23-2)27bdal. State claim 1977. A. L. Buchanan. Record begins in 1936.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 8	5.2	May 1	ab 3.6	Dec. 5	c/
Apr. 1	a 4.45	June 5	b 2.78		

(C-23-2)31dcb2. (C-23-2)31ccb1 in Water-Supply Paper 886. State claim 3302. Pacific National Life Insurance Co. Record begins in 1935.

Water level, in feet above measuring point, 1940

Feb. 8	6.55	May 1	ab 5.85	Dec. 7	6.3
Apr. 1	a 5.8	June 5	b 6.1		

(C-24-2)7bac2. State claim 7177. R. and J. A. Hooper. Record begins in 1935. Water levels, in feet above measuring point, 1940: Feb. 8, 3.85; Apr. 1, a/3.70; May 1, a/3.25; June 5, 3.53. Measurements discontinued.

(C-24-3)33dcb1. State claim 12711. Measurements discontinued.

(C-25-3)3bbd1. Luther Winget. Record begins in 1936.

Water level, in feet below measuring point, 1940

Feb. 8	15.47	May 1	a 17.03	Dec. 7	16.37
Apr. 1	a 16.43	June 5	15.60		

(C-25-4)2db. R. W. Pinney. Record begins in 1939.

Water level, in feet below measuring point, 1940

Feb. 8	52.50	May 1	a 54.00	Dec. 7	52.35
Apr. 1	a 53.79	June 5	52.73		

(C-26-1)23ddb1. State claim 12620. A. E. DeLange. Record begins in 1936. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 25, 11.0; Dec. 5, 11.2.

(C-26-1)25acc1. State claim 3159. A. R. Brown. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 25, 17.0; Dec. 6, 16.1.

(C-26-1)35acd1. State claim 12713. Otto Erickson. Record begins in 1936. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 25, 4.8; Dec. 6, 4.8.

(D-25-1)31cb. Charles Burr. Record begins in 1936. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Mar. 25, 2.25; Dec. 6, 1.02.

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(A-3-4)4. Thomas Overd. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 8	5.76	Apr. 3	3.92	Nov. 30	5.94
Feb. 14	4.28	June 26	3.82		

(D-1-4)18cc. Brooks and Gerber. Formerly Otto Stevens. Record begins in 1938. Water levels, in feet below measuring point, 1940: Jan. 8, 86.54; Apr. 3, 84.96; June 27, 86.9; Nov. 30, 91.50.

(D-1-4)31aa. Wilford Snyder. Record begins in 1938. New measuring point, top of rock curb at land surface, 1.3 feet below previous measuring point. Water levels, in feet below measuring point, 1940: Feb. 14, 12.89; Apr. 3, 10.62; June 27, 7.20; Nov. 30, d/13.00.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing.
c Casing leaking, measurements discontinued.
d Measured inside casing, other measurements made in dug pit, pit dry on Nov. 30, 1940.

Summit County--Continued.

(D-1-4)31bdb1. Theodore Johnson. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 8	12.89	Apr. 3	7.04	Nov. 30	12.14
Feb. 14	12.40	June 27	10.42		

(D-1-5)3ccb. State claim 12256. Martin Larsen. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 8	25.39	Apr. 3	24.29	July 30	21.51
Feb. 14	25.83	June 26	20.76	Nov. 30	21.45

(D-1-5)4cd. Joe Bean. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 8	8.67	Apr. 3	8.35	July 30	5.65
Feb. 14	8.87	June 26	4.36	Nov. 30	8.20

(D-1-5)26aaa. State claim 4409. Gordon Stambridge. Record begins in 1938. Measurements discontinued after Nov. 30, 1940.

Water level, in feet below measuring point, 1940

Jan. 8	30.40	Apr. 3	29.80	Nov. 30	26.26
Feb. 14	30.80	June 26	18.36		

(D-1-6)19dad1. State claim 3699. A. W. Frazier. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 8	15.66	Apr. 3	15.50	July 30	6.68
Feb. 14	16.31	June 26	3.75	Nov. 30	13.99

(D-1-6)28bdc1. State claim 12226. Sylvester Wilde. Record begins in 1938. Measurements discontinued after Nov. 30, 1940.

Water level, in feet with reference to measuring point, 1940

Jan. 8	-17.28	Apr. 3	-22.12	Nov. 30	-13.15
Feb. 14	-19.88	June 26	+ 1.98		

(D-1-6)29daa. State claim 12227. C. C. Mitchell. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 8	21.15	Apr. 3	20.47	Nov. 30	18.67
Feb. 14	21.91	June 26	8.07		

(D-2-6)4bcc. Victor Barberry. Measurements discontinued.

(D-2-6)5dbb. Burton Peterson. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	8.60	Sept. 8	7.52	Sept. 24	7.75	Oct. 10	8.13
Feb. 14	9.09	9	7.57	25	7.79	11	8.14
Apr. 3	7.60	10	7.63	26	7.82	12	8.15
June 26	4.65	11	7.68	27	7.85	13	8.13
July 30	6.67	12	7.70	28	7.89	14	8.12
Aug. 28	a 7.36	13	7.69	29	7.92	15	8.08
29	7.37	14	7.69	30	7.93	16	8.06
30	7.37	15	7.72	Oct. 1	7.91	17	8.04
31	7.34	16	7.76	2	7.94	18	8.03
Sept. 1	7.30	17	7.78	3	7.95	19	8.01
2	7.38	18	7.76	4	7.96	20	7.94
3	7.40	19	7.77	5	7.99	21	7.87
4	7.45	20	7.70	6	8.03	22	7.82
5	7.20	21	7.75	7	8.06	23	7.79
6	7.41	22	7.73	8	8.09	Nov. 1	8.00
7	7.51	23	7.65	9	8.12	2	8.03

a Water level recorder installed at noon, from recorder charts. Succeeding data are water levels,

Summit County--Continued.

(D-2-6)5dbb.--Continued.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 3	8.05	Nov. 22	8.20	Dec. 5	8.36	Dec. 18	8.52
4	8.06	23	8.23	6	8.39	19	8.53
5	8.07	24	8.26	7	8.40	20	8.52
6	8.08	25	8.29	8	8.39	21	8.52
7	8.09	26	8.27	9	8.42	22	8.52
14	8.17	27	8.20	10	8.42	23	8.53
15	8.17	28	8.17	11	8.43	24	8.53
16	8.17	29	8.30	12	8.46	25	8.53
17	8.17	30	8.30	13	8.46	26	8.54
18	8.16	Dec. 1	8.30	14	8.49	28	8.70
19	8.14	2	8.31	15	8.50	29	8.70
20	8.16	3	8.32	16	8.51	30	8.70
21	8.17	4	8.34	17	8.53	31	8.71

(D-2-6)8aaa. State claim 12248. Ed. Rockhill. Record begins in 1938. Water levels, in feet below measuring point, 1940: Jan. 8, 12.37; Feb. 14, 13.85; June 26, 6.40; Nov. 30, 13.40.

(D-2-6)16bcc. Dean Mitchel. Record begins in 1938. Measurements discontinued after Nov. 30, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 8	17.08	Apr. 3	15.75	July 30	14.38
Feb. 14	18.07	June 26	9.22	Nov. 30	18.38

(D-2-6)17dac. Jack Wilsonhulme. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 8	12.07	Apr. 3	13.01	July 30	9.73
Feb. 14	13.63	June 26	6.65	Nov. 30	12.92

(D-2-6)20ccc. State claim 12231. A. H. Padfield. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	4.49	Apr. 16	a 4.76	July 20	a 6.66	Sept. 16	a 7.27
Feb. 14	4.46	May 15	a 3.46	Aug. 15	7.70	Nov. 14	a 5.50
Mar. 20	a 4.65	June 13	a 3.64	20	a 7.56	30	4.87
Apr. 3	4.23	26	6.07	26	a 7.34		

(D-2-6)21bba. Dell Jones. Record begins in 1938. Measurements discontinued after Nov. 30, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 8	18.50	Apr. 3	18.64	July 30	16.26
Feb. 14	19.22	June 26	10.36	Nov. 30	18.67

(D-2-6)28ccc. Lillian McNiel. Record begins in 1938. Dry during February, March and April.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	29.65	June 26	19.98	Aug. 26	a 32.22	Nov. 14	a 22.76
May 15	a 20.30	July 20	a 24.54	Sept.16	a 27.75	30	26.42
June 13	a 14.9	Aug. 20	a 27.20	Oct. 17	a 24.62		

a Measurements by Provo River Water Commissioner.

Summit County--Continued.

(D-2-6)28ddc. A. D. Prescott. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	13.62	May 15	a 10.00	Aug. 20	a 9.90	Oct. 17	a 7.85
Feb. 14	16.54	June 13	a 1.80	26	a 10.58	Nov. 14	a 10.50
Mar. 19	a 16.4	26	2.66	Sept. 16	a 11.74	30	10.74
Apr. 3	14.96	July 20	a 5.40				

(D-2-6)33dad. Amos Prescott. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 8	55.01	May 15	a 37.0	Aug. 20	a 45.25	Oct. 17	a 38.90
Feb. 14	58.83	June 13	a 14.3	26	a 45.85	Nov. 14	a 20.00
Mar. 19	a 60.00	26	16.40	Sept. 16	a 48.72	30	47.83
Apr. 3	58.48	July 20	a 35.5				

Tooele County

(C-1-4)36bcb1. State claim 13593. A. J. Williams. Record begins in 1936. Elevation of measuring point, 4232.69 feet above sea level.

Water level, in feet above measuring point, 1940

Jan. 17	b 9.6	Mar. 6	b 10.2	May 1	b 10.1	Sept. 30	c 10.2
Feb. 5	b 9.6	Apr. 3	b 11.7	June 20	c 10.5	Nov. 26	c 10.35

(C-2-4)2aba1. State application 11962. B. N. Griffith. Record begins in 1936.

Water level, in feet above measuring point, 1940

Feb. 5	6.5	Apr. 3	b 6.65	June 20	c 2.18	Nov. 26	5.7
Mar. 6	b 6.8	May 1	b 3.00	Sept. 30	4.9		

(C-2-4)2aba2. State claim 6997. B. D. Davis. Record begins in 1937. Found flowing prior to all measurements. Elevation of measuring point, 4243.23 feet above sea level.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Feb. 5	b 4.2	2.1	June 20	4.48	1.9
Mar. 6	b 3.5	2.0	Sept. 30	3.92	...
Apr. 3	b 4.3	2.7	Nov. 26	3.80	...
May 1	b 3.9	1.9			

(C-2-4)17dad1. (C-2-4)17da in Water Supply Paper 886. E. J. Jeremy. Record begins in 1935. Found flowing prior to all measurements. Elevation of measuring point, 4257.13 feet above sea level.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Jan. 17	b 20.5	...	May 1	b 20.7	7.8
Feb. 5	20.7	7.2	June 20	20.75	7.5
Mar. 7	b 20.9	7.8	Oct. 1	20.5	...
Apr. 3	b 20.8	7.9	Nov. 26	20.7	...

(C-2-4)28cdb1. State claim 809. Batesville Ward. Record begins in 1936. Elevation of measuring point, 4348.90 feet above sea level.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	11.9	Apr. 3	b 11.9	June 20	c 3.35	Nov. 26	c 10.0
Mar. 7	b 12.2	May 1	b 6.5	Oct. 2	c 5.7		

a Measurements by Provo River Water Commissioner.

b Measurement by Utah State Engineer in cooperation with Works Projects Administration.

c Found flowing.

Tooele County--Continued.

(C-2-4)32bccl. State claim 578. Robert Fenton. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	13.4	Apr. 1	ab 11.7	June 20	b 9.1	Nov. 26	b 10.3
Mar. 5	a 13.8	May 1	ab 9.95	Oct. 2	b 9.1		

(C-2-4)33aac2. State claim 888. Ida L. Clegg. Record begins in 1936. Elevation of measuring point, 4384.68 feet above sea level.

Water level, in feet below measuring point, 1940

Feb. 5	a 12.48	Apr. 1	a 11.97	June 20	15.50	Nov. 26	12.62
Mar. 5	a 12.23	May 1	a 14.77	Oct. 1	15.61		

(C-2-4)33aac8. State claim 894. Ida L. Clegg. Record begins in 1936. Elevation of measuring point corrected from 4392.51 to 4381.38 feet above sea level. Water levels, in feet below measuring point, 1940: Feb. 5, a/9.33; Mar. 5, a/9.08; Apr. 1, a/8.82; Nov. 26, 9.63. Measurements discontinued.

(C-2-4)33abb2. State claim 806. L. T. Liddell. Record begins in 1935.

Water level, in feet, with reference to measuring point, 1940

Jan. 6	+1.09	Mar. 16	+1.88	May 11	-1.73	Aug. 17	-2.27
17	+1.29	20	+1.88	15	-1.89	24	-2.26
20	+1.27	23	+1.90	18	-2.17	31	-2.26
27	+1.32	27	+1.92	25	-1.97	Sept. 7	-2.31
31	+1.42	30	+1.96	29	-2.17	14	-2.31
Feb. 3	+1.43	Apr. 4	+1.91	June 1	-2.18	21	-2.27
7	+1.50	5	+1.92	8	-2.13	28	-2.28
10	+1.56	6	+1.90	11	-2.10	Oct. 5	-2.12
15	+1.57	10	+1.40	15	-2.10	12	-1.98
17	+1.59	13	+1.22	22	-2.19	Nov. 9	-0.25
21	+1.61	17	+0.17	29	-2.18	23	+0.39
24	+1.61	20	-0.98	July 6	-2.19	30	+1.54
28	+1.72	24	-1.02	14	-2.42	Dec. 8	+1.71
Mar. 2	+1.75	27	-1.15	20	-2.25	14	+1.77
6	+1.75	May 1	-1.31	27	-2.25	21	+1.83
9	+1.83	4	-1.53	Aug. 3	-2.19	28	+1.88
13	+1.72	9	-1.75	10	-2.17		

(C-2-4)33abb4. State claim 808. L. T. Liddell. Record begins in 1935.

Water level, in feet above measuring point, 1940

Jan. 6	5.21	Mar. 16	5.88	May 11	2.64	Aug. 17	1.90
17	5.38	20	5.98	15	2.61	24	1.92
20	5.44	23	5.92	18	2.35	31	1.88
27	5.44	27	6.00	25	2.18	Sept. 7	1.94
31	5.50	30	5.94	29	2.71	14	2.17
Feb. 3	5.54	Apr. 4	5.48	June 1	2.17	21	2.19
7	5.65	5	5.88	8	1.91	28	2.20
10	5.63	6	5.94	11	1.95	Oct. 5	2.45
15	5.74	10	5.94	15	2.10	12	2.52
17	5.65	13	5.02	22	1.92	Nov. 9	3.58
21	5.69	17	3.96	29	1.94	23	4.08
24	5.70	20	3.29	July 6	1.50	30	5.56
28	5.79	24	3.29	14	1.61	Dec. 8	5.81
Mar. 2	5.79	27	3.02	20	2.00	14	5.86
6	5.85	May 1	2.78	27	1.63	21	5.88
9	5.87	4	2.88	Aug. 3	1.80	28	5.96
13	5.79	9	2.65	10	1.65		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Found flowing.

Tooele County--Continued

(C-2-4)33addl. State claim 899. Ida L. Clegg. Record begins in September 1937.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.29	43.86	43.62	43.23	44.26	44.62	44.79	44.88	44.92	44.92	44.59	43.52
2	44.26	43.85	43.54	43.31	44.23	44.63	44.81	44.92	44.93	44.90	44.56	43.48
3	44.27	43.84	43.55	43.30	44.28	44.65	44.80	44.99	44.96	44.95	44.37	43.43
4	44.20	43.85	43.56	43.27	44.27	44.60	44.79	44.99	44.97	44.90	44.27	43.43
5	44.21	43.86	43.54	43.27	44.35	44.67	44.81	44.91	44.97	44.90	44.26	43.39
6	44.22	43.80	43.54	43.35	44.38	44.66	44.81	44.90	45.00	44.93	.....	43.41
7	44.20	43.80	43.51	43.30	44.41	44.62	44.81	44.90	44.97	44.86	.....	43.39
8	44.17	43.84	43.46	43.30	44.43	44.68	44.82	44.89	44.97	44.82	.....	43.33
9	44.16	43.82	43.45	43.41	44.43	44.69	44.83	44.89	44.95	44.88	.....	43.34
10	44.15	43.74	43.46	43.46	44.43	44.68	44.84	44.90	44.95	44.90	.....	43.32
11	44.15	43.76	43.47	43.49	44.44	44.67	44.84	44.89	44.96	44.87	.....	43.28
12	44.09	43.77	43.53	43.51	44.43	44.69	44.83	44.89	44.95	44.84	.....	43.25
13	44.13	43.74	43.42	43.48	44.48	44.69	44.84	44.88	44.95	44.83	.....	43.31
14	44.12	43.67	43.47	43.44	44.45	44.70	44.84	44.88	44.95	44.85	44.10	43.29
15	44.11	43.72	43.43	43.41	44.48	44.70	44.85	44.91	44.94	44.81	44.07	43.27
16	44.08	43.77	43.39	43.64	44.50	44.70	44.85	44.92	44.95	44.82	44.04	43.23
17	44.04	43.70	43.44	43.72	44.51	44.72	44.87	44.95	44.94	44.83	44.02	43.23
18	44.06	43.68	43.43	43.72	44.53	44.69	44.85	44.96	44.93	44.81	43.96	43.23
19	44.03	43.71	43.40	43.89	44.53	44.71	44.85	44.93	44.96	44.76	43.95	43.25
20	44.02	43.69	43.39	43.99	44.53	44.73	44.85	44.92	44.95	44.77	43.94	43.24
21	44.00	43.66	43.39	44.02	44.57	44.74	44.86	44.94	44.96	44.74	43.93	43.20
22	44.00	43.61	43.36	44.02	44.58	44.75	44.86	44.93	44.94	44.71	43.98	43.15
23	43.97	43.66	43.36	44.06	44.58	44.76	44.85	44.96	44.94	44.69	43.92	43.09
24	43.97	43.66	43.36	44.08	44.57	44.76	44.85	44.93	44.97	44.68	43.86	42.99
25	43.98	43.60	43.34	44.13	44.56	44.73	44.84	44.93	44.95	44.66	43.86	43.08
26	43.96	43.60	43.32	44.14	44.59	44.75	44.82	44.95	44.94	44.66	43.70	43.11
27	43.98	43.60	43.33	44.19	44.60	44.77	44.85	44.93	44.88	44.64	.....	43.05
28	43.96	43.55	43.33	44.21	44.59	44.78	44.86	44.94	44.95	44.63	43.65	43.11
29	43.93	43.56	43.31	44.22	44.62	44.77	44.88	44.97	44.96	44.63	43.59	43.05
30	43.92	.....	43.28	44.26	44.62	44.77	44.89	44.98	44.93	44.62	43.53	43.05
31	43.98	.....	43.26	.....	44.62	.....	44.88	44.96	.....	44.62	.....	43.11

(C-2-5)19dccl. Geo. L. Sutton. Record begins in 1937. Found flowing prior to all measurements. Elevation of measuring point, 4243.93 feet above sea level.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Feb. 5	a 3.15	2.2	June 20	2.75	1.5
Mar. 8	a 3.2	1.8	Oct. 4	2.00	...
Apr. 1	a 3.7	1.9	Nov. 26	2.55	...
May 1	a 3.2	1.7			

(C-2-5)25aabl. (C-2-5)25aacl in Water-Supply Paper 886. State of Utah. Record begins in 1935. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	9.6	Apr. 3	a 9.6	June 20	9.3	Nov. 26	9.2
Mar. 8	a 9.7	May 1	a 9.85	Oct. 2	9.0		

(C-2-5)29dccl. State application 12227. J. R. Clark. Record begins in 1937.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Mar. 4	a 26.85	May 1	a 23.4	Oct. 4	b 25.1
Apr. 1	a 25.05	June 20	23.7	Nov. 26	23.7

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing.

Tooele County--Continued.

(C-2-5)29dcc5. State claim 4672. J. R. Clark. Record begins in 1937. Elevation of measuring point, 4267.10 feet above sea level.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 5	a 19.8	May 1	a 14.0	Oct. 4	b 11.8
Apr. 1	a 18.8	June 20	b 12.9	Nov. 26	b 12.9

(C-2-5)29dcd4. State application 12227. No measurements in 1940.

(C-2-5)29dcd5. State application 12227. No measurements in 1940.

(C-2-5)31bbd3. State claim 17112. Tony Castagno. Record begins in 1937.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	a 14.8	Apr. 1	a 14.95	June 20	12.9	Nov. 26	14.3
Mar. 5	a 15.3	May 1	a 13.7	Oct. 4	13.9		

(C-2-5)32daal. State claim 7078. A. J. Fraser. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	a 10.5	Apr. 1	a 9.6	June 20	b 8.3	Nov. 26	8.0
Mar. 5	a 9.8	May 1	ab 8.25	Oct. 4	7.9		

(C-2-5)34aac1. Phoebe Nation. Record begins in 1935. Elevation of measuring point, 4284.91 feet above sea level.

Water level, in feet below measuring point, 1940

Feb. 5	1.96	Apr. 3	a 1.81	June 20	1.94	Nov. 26	0.52
Mar. 5	a 1.92	May 1	a 1.66	Oct. 2	0.52		

(C-2-5)36caa1. State claim 13692. J. A. and S. W. Smith. Record begins in 1937.

Water level, in feet below measuring point, 1940

Feb. 5	32.88	Aug. 14	33.15	Sept. 25	33.19	Nov. 28	32.94
Mar. 8	a 32.72	21	33.33	Oct. 2	33.11	Dec. 5	32.88
Apr. 1	a 32.65	25	33.20	9	33.14	11	32.86
3	32.72	Sept. 1	33.22	16	33.11	19	32.85
May 1	a 32.71	8	33.22	Nov. 12	33.02	25	32.83
June 20	32.96	17	33.17	26	32.94		

(C-2-6)25cdc2. State claim 16. J. R. Clark. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Mar. 7	a 11.95	May 1	a 12.5	Oct. 4	10.8
Apr. 1	a 12.35	June 20	11.3	Nov. 26	10.8

(C-2-6)36baa8. State claim 16575. J. R. Clark. Record begins in 1935. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	a 3.15	Apr. 1	a 3.55	June 20	2.70	Nov. 26	2.35
Mar. 7	a 3.5	May 1	a 3.95	Oct. 4	2.25		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing.

Tooele County--Continued.

(C-2-6)36bdd1. State claim 13690. Grantsville City Corporation. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 1, a/34.58; May 1, a/35.41; Oct. 4, 36.32; Nov. 26, 36.60.

(C-2-6)36cdd1. Dale Arbon.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	81.39	82.02	82.37	82.54	.....	82.71
2	.....	81.42	82.02	82.38	82.50	82.69	82.71
3	.....	81.41	82.03	82.38	82.57	82.71	82.70
4	.....	81.41	82.05	82.40	82.54	82.72	82.71
5	.....	81.43	82.07	82.39	82.58	82.71	82.71
6	.....	81.45	82.08	82.39	82.59	82.71	82.72
7	.....	81.49	82.10	82.41	82.57	82.69	82.68
8	.....	81.49	82.12	82.41	82.58	82.70	82.67
9	.....	81.53	82.13	82.39	82.61	82.67	82.68
10	.....	81.57	82.20	82.39	82.62	82.69	82.68
11	.....	81.58	82.21	82.41	82.61	82.70	82.66
12	.....	81.60	82.22	82.44	82.62	82.70	82.65
13	.....	81.65	82.25	82.45	82.64	82.71	82.68
14	.....	81.67	82.26	82.47	82.65	82.72	82.65
15	.....	81.69	82.27	82.48	82.63	82.71	82.65
16	.....	81.72	82.26	82.47	82.61	82.71	82.63
17	.....	81.72	82.28	82.49	82.64	82.71	82.61
18	.....	81.76	82.28	82.49	82.64	82.70	82.62
19	.....	81.78	82.27	82.51	82.64	82.72	82.63
20	.....	81.80	82.28	82.51	82.63	82.72	82.61
21	.....	81.82	82.29	82.53	82.63	82.72	.....
22	81.24	81.83	82.30	82.54	82.64	82.73	82.53
23	81.27	81.86	82.29	82.55	82.64	82.73	82.48
24	81.29	81.87	82.31	82.55	82.65	82.70	82.43
25	81.28	81.88	82.31	82.55	82.66	82.72	82.48
26	81.31	81.90	82.33	82.56	82.63	82.71	82.44
27	81.33	81.90	82.33	82.54	82.65	82.70	82.43
28	81.36	81.89	82.36	82.55	82.67	82.70	82.42
29	81.35	81.94	82.38	82.56	82.67	82.70	82.42
30	81.35	81.95	82.38	82.55	82.69	82.70	82.43
31	.....	81.95	82.37	.....	82.68	.....	82.47

(C-3-5)5bab1. State claim 15325. L. S. Tate. Record begins in 1937. Elevation of measuring point, 4304.15 feet above sea level.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	a 2.06	Apr. 1	a 2.31	June 20	2.43	Nov. 26	3.27
Mar. 8	a 2.18	May 1	a 2.59	Oct. 3	3.15		

(C-5-5)2bc. Alma Young. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 30, 25.45; Sept. 13, 27.95; Nov. 27, 25.17.

(C-5-5)30bcb1. State claim 8286. Willard Sager. Record begins in 1938. Measuring point changed to top of concrete curb at southwest corner of manhole, 10.50 feet above top of casing, which was previous measuring point. Water levels, in feet below measuring point, 1940: Apr. 30, 14.27; Sept. 13, 16.37; Nov. 27, 15.64.

(C-5-6)25aaa1. State claim 8288. Willard Sager. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 30, 16.13; Nov. 27, 16.99.

(C-7-10)25cc. Grazing Service. Record begins in 1939. Measuring point changed to top of concrete floor, 0.5 foot below former top of casing. Water level, in feet below measuring point, 1940: Sept. 13, 3.92.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Tooele County--Continued.

(C-8-5)31abc3. State claim 12660. Peter Hansen. Record begins in 1935. Found flowing 20 gallons per minute prior to measurement. Water level, in feet above measuring point, 1940: Apr. 30, 27.1. Measurements discontinued.

(C-8-6)26aaal. State claim 1415. J. E. Olson. Record begins in 1935. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr.30, 16.25; Nov. 27, 15.0.

(C-9-5)6bcal. State claim 8285. Drought Relief Administration. Record begins in 1936. Water levels, in feet below measuring point, 1940: Apr. 30, 17.80; Nov. 27, 18.62.

Uinta County

U(B-1-1)2ca2. Jay Larsen. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 24, 32.30.

U(C-2-1)23aaal. State claims 8293 and 8716. Measurements discontinued.

U(D-1-1)14bbcl. State claim 1868. George Hackford. Record begins in 1935. Water level, in feet below measuring point, 1940: Sept. 24, 11.25.

U(D-1-1)19cc. Bennett School. Record begins in 1936. Water level, in feet below measuring point, 1940: Sept. 24, 12.23.

U(D-1-1)23ab. Albert Daniels. Record begins in 1935. Water level, in feet below measuring point, 1940: Sept. 24, 15.60.

(D-3-21)17cda. State claim 6641. Martha M. Bingham. Record begins in 1935. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Sept. 24, 9.3.

(D-3-21)30dc. State claim 2629. R. G. Alexander. Record begins in 1935. Water level, in feet above measuring point, 1940: Sept. 24, 17.0.

(D-4-21)2bcdl. Gibson Ranch Co. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 24, 8.16.

(D-4-21)12acc. Lonzo McCarl. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 24, 12.22.

(D-4-21)15dcc. Measurements discontinued.

(D-4-21)15ddd. Bill Hall. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 24, 5.87.

(D-4-21)24dbb. State claim 6931. Peter Erickson. Record begins in 1939. Water level, in feet below measuring point, 1940: Sept. 24, 8.58.

(D-4-21)28daa. Drought Relief Administration. Record begins in 1935. Water level, in feet below measuring point, 1940: Sept. 24, 29.56.

Utah County

(C-5-1)2daal-2-3. State claims 10922, 10923 and 10924. O. J. Roberts, Lehi. Diameter 60 to 5 inches, depth 95 feet. Measuring point, top of vertical tee on casing, 1.0 foot above land surface. Water levels, in feet below measuring point, 1940: Feb. 28, 19.38; Apr. 12, a/19.2; May 1, a/19.13; June 18, 20.15.

(C-6-2)29dccl. Henry Armstrong. Record begins in 1936. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Jan. 5, 5.05, flowing 1.85 gallons a minute; June 18, 4.8, flowing 1.8 gallons a minute.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Utah County--Continued.

(C-6-2)32baa1. State claim 17623. E. L. Carson. Record begins in 1936. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Jan. 5, 1.60. Measurements discontinued.

(C-6-2)32baa2. State claim 17686. W. C. Thomas. Record begins in 1936. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Jan. 5, 2.78; June 18, 1.68.

(C-9-1)26dcb1. State claim 17465. R. C. Lewis. Record begins in 1936. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Jan. 3, 3.08; Mar. 28, 3.05; June 14, 3.02.

(C-10-1)2aad1. State claim 5206. Record begins in 1938. Albert Morgan. Water levels, in feet below measuring point, 1940: Jan. 3, 15.49; Feb. 6, 15.23; Mar. 28, 13.40; June 14, 15.36.

(D-5-1)7caa2. (D-5-1)7ca3 in Water Supply Paper 817. State claim 1848. Depth 93 feet. Measuring point, top of casing, level with land surface and 4523.30 feet above sea level. Water levels, in feet, with reference to measuring point, 1940: Feb. 28, +6.0; Apr. 12, a/+5.0; May 1, a/+4.3; June 18, -0.42. Measurements discontinued.

(D-5-1)8aaa1. State claim 11095. Lehi Irrigation Co., Lehi. Diameter 12 inches, depth 270 feet. Measuring point, top of hole in pump base, 0.2 foot above land surface. Water levels, in feet below measuring point, 1940: Feb. 28, 32.90; Apr. 12, a/33.53; May 1, a/37.66.

(D-5-1)9ccc3. State claim 16332. E. N. Webb. Record begins in 1935. Water levels, in feet, with reference to measuring point, 1940: Jan. 5, +4.80; Apr. 12, a/+4.90; May 1, a/+2.80; June 18, -4.41.

(D-5-1)9cdc2. State claim 10991. Lehi Irrigation Co. and Lehi City. Record begins in 1936. Water levels, in feet above measuring point, 1940: Jan. 5, 37.1; Apr. 12, a/35.5; May 1, a/35.5; June 18, b/34.8

(D-5-1)9dbb1. State claim 11083. City of Lehi. Record begins in 1935.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 5	9.32	Apr. 12	a 12.17	June 18	17.34
Feb. 28	11.32	May 1	a 13.1		

(D-5-1)14adb1. Drought Relief Administration. Record begins in 1937.
Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	61.75	Sept. 4	65.57	Sept. 23	65.55	Nov. 1	65.77
Feb. 28	62.56	5	65.58	24	65.56	2	65.64
May 2	a 63.55	6	65.63	25	65.59	3	65.62
June 18	64.50	7	65.66	26	65.58	4	65.82
Aug. 12	c/	8	65.63	27	65.51	5	65.77
13	65.35	9	65.50	28	65.61	6	65.77
14	65.41	10	65.38	29	65.61	7	65.75
15	65.42	11	65.36	30	65.58	8	65.72
16	65.54	12	65.43	Oct. 1	65.55	9	65.53
17	65.59	13	65.44	2	65.41	10	65.78
18	65.66	14	65.45	3	65.47	11	65.83
27	65.65	15	65.40	4	65.65	12	66.00
28	65.66	16	65.42	5	65.56	13	66.08
29	65.72	17	65.53	6	65.77	14	66.05
30	65.67	18	65.43	7	65.65	15	65.96
31	65.62	19	65.58	8	65.37	16	65.79
Sept. 1	65.63	20	65.59	29	65.78	17	65.69
2	65.58	21	65.59	30	65.78	18	65.54
3	65.55	22	65.54	31	65.81	19	65.66

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing.
c Water level recorder installed. Succeeding data are water levels, at noon, from recorder charts.

Utah County--Continued.

(D-5-1)14adb1.--Continued.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 20	65.81	Nov. 30	65.89	Dec. 10	65.96	Dec. 23	65.96
21	65.66	Dec. 1	66.06	14	66.14	24	65.92
22	65.89	2	66.13	15	66.14	25	66.09
23	66.04	3	66.04	16	66.00	26	66.28
24	65.98	4	66.00	17	65.86	27	66.11
25	65.94	5	65.98	18	66.02	28	66.17
26	66.03	6	66.00	19	66.15	29	66.00
27	66.03	7	66.08	20	66.19	30	65.98
28	65.93	8	65.99	21	66.10	31	66.12
29	65.85	9	65.89	22	66.09		

(D-5-1)15bca1. State claim 5061. Eugene Briggs. Record begins in 1935. Elevation of measuring point, 4549.05 feet above sea level. Water levels, in feet above measuring point, 1940: Jan. 5, 28.8; Apr. 12, a/27.7; May 1, a/27.0; June 18, 23.05.

(D-5-1)17abd9. State claim 15984. Mary Ann Southwick. Record begins in 1935. Elevation of measuring point, 4555.43 feet above sea level. Water level, in feet above measuring point, 1940: Jan. 5, 5.9. Measurements discontinued.

(D-5-1)17adc5. State claim 11174. H. C. Comer. Record begins in 1935. Water levels, in feet above measuring point, 1940: Jan. 5, 30.4; Apr. 12, a/29.8; May 1, a/28.5; June 18, b/17.8.

(D-5-1)17add5. State claim 3628. M. S. Lott. Record begins in 1935. Water levels, in feet above measuring point, 1940: Jan. 5, 19.0; Apr. 12, a/b/19.9; May 1, a/b/18.1; June 18, b/7.4.

(D-5-1)17cda1. State claim 1453. C. E. Peterson. Record begins in 1939. Water level, in feet above measuring point, 1940: Jan. 5, 13.8. Measurements discontinued.

(D-5-1)18bcc1. State claim 3637. Aaron Evans. Record begins in 1935. Water levels, in feet above measuring point, 1940: Jan. 5, 20.3; Apr. 12, a/22.2; May 1, a/21.0; June 18, 12.8.

(D-5-1)20aba1. State claim 6860. Jacob Cox. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 5	50.1	Apr. 12	a 50.2	June 18	b 38.3
Feb. 5	50.1	May 1	a 48.0		

(D-5-1)20aba2. State claim 6861. J. G. Cox. Record begins in September 1935.

Water level, at noon, in feet above measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.4	27.2	29.0	29.0	25.0	13.2	9.4	8.7	9.1	15.0	21.2	26.0
2	26.5	27.5	29.0	29.0	24.9	13.0	9.5	8.8	9.1	14.9	21.5	26.4
3	26.4	27.5	28.7	29.0	24.7	12.7	9.5	8.7	9.3	14.9	21.0	26.8
4	26.5	27.3	28.9	29.0	24.0	12.4	9.3	8.4	9.2	15.4	20.9	26.7
5	26.5	28.0	29.0	29.0	23.7	12.4	9.5	8.3	9.5	15.4	21.5	26.7
6	26.5	27.5	28.9	28.9	23.4	12.0	9.8	8.5	9.7	16.0	21.0	27.0
7	26.3	27.4	28.9	28.8	21.9	12.6	10.0	8.5	9.8	16.5	21.6	27.0
8	26.5	27.3	29.2	29.0	18.2	12.3	9.6	8.8	9.9	16.5	22.0	26.9
9	26.7	27.8	29.4	29.0	16.2	12.4	9.5	8.9	10.2	16.1	22.0	27.3
10	26.7	28.0	29.5	28.5	15.9	11.6	9.5	8.7	10.2	16.0	22.2	27.5
11	26.7	27.9	29.5	28.8	15.8	11.2	9.5	8.4	10.3	16.4	22.0	27.5
12	27.2	28.2	29.5	28.7	15.5	10.5	9.6	8.3	9.9	16.6	22.2	27.8

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing.

Utah County--Continued.

(D-5-1)20aba2.--Continued.

Water level, at noon, in feet above measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
13	27.2	28.5	29.5	28.5	15.6	10.2	9.5	8.3	9.9	16.9	22.3	....
14	27.0	28.5	29.4	28.4	15.1	9.8	9.5	8.3	10.2	16.9	22.5	....
15	27.1	28.6	29.6	28.2	14.5	9.5	9.5	8.4	10.3	16.8	22.4	....
16	27.1	28.7	29.5	28.0	14.0	9.2	9.3	8.5	10.6	17.0	23.0	....
17	27.1	28.8	29.5	27.6	14.0	8.9	9.6	8.6	10.7	17.0	24.2	....
18	27.1	28.7	29.5	26.8	14.0	8.6	9.6	8.6	11.6	17.3	24.1	....
19	27.8	28.7	29.5	26.4	14.2	8.8	10.2	8.6	11.4	17.4	24.5	....
20	24.4	28.8	29.4	25.3	14.4	8.8	10.2	8.7	11.9	17.7	24.5	....
21	....	28.5	29.3	24.5	14.1	8.5	10.1	8.9	13.7	17.9	24.4	....
22	26.9	28.6	29.1	24.0	14.5	8.5	10.3	8.5	13.5	17.9	24.5	....
23	....	28.9	29.4	23.4	14.0	8.7	10.1	9.3	13.8	18.0	24.0	....
24	28.2	29.0	29.2	23.5	13.9	8.5	9.7	9.5	14.3	18.0	24.0	....
25	27.2	28.9	29.0	24.0	13.9	8.6	9.0	9.4	14.8	18.3	23.7	....
26	27.5	29.0	28.9	25.0	13.1	8.5	9.1	9.2	14.4	18.6	24.5	....
27	27.1	29.1	29.0	25.0	13.5	8.6	9.0	9.5	14.3	19.9	24.0	....
28	26.9	29.0	28.9	25.0	13.5	8.6	9.2	9.5	14.4	20.0	24.5	....
29	27.0	28.9	29.0	25.0	13.2	8.8	9.3	9.6	14.8	20.0	25.5	....
30	27.3	....	29.3	25.0	13.3	9.0	8.6	9.7	14.9	20.5	25.8	....
31	27.2	....	29.0	....	13.5	....	8.6	9.3	....	20.7	....	....

(D-5-1)23dab3. State claim 17054. American Fork City, American Fork. Diameter 3 inches, depth 265 feet. Measuring point, southwest corner of concrete trough, 3.0 feet above land surface and 4569.01 feet above sea level. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 28, 14.4; Apr. 12, a/13.6; May 1, a/13.3; June 18, 11.0.

(D-5-1)25dab1. State application 11897. Geo. Addy and others. Record begins in 1937. Water levels, in feet above measuring point, 1940: Jan. 5, 31.0; Apr. 13, a/31.1; May 2, a/31.6; June 18, 26.2.

(D-5-2)18dcd1. State claim 1704. Mary L. Ellis, Pleasant Grove. Diameter 2 inches, depth 230 feet. Measuring point, top of 2-inch casing in concrete pit, 6.0 feet below land surface. Water levels, in feet below measuring point, 1940: Feb. 28, 4.22; Apr. 13, a/4.05; May 2, a/4.90. Measurements discontinued.

(D-5-2)18dcd2. A. C. Christensen, Pleasant Grove. Diameter 2 inches, depth 234 feet. Measuring point, top of casing, 0.3 foot above land surface. Water levels, in feet below measuring point, 1940: Feb. 28, 2.18; Apr. 13, a/4.9; May 2, a/4.88; June 18, 5.63.

(D-5-2)29dba4. State claim 13150. Mark Richins and others. Record begins in 1935. Water levels, in feet above measuring point, 1940: Jan. 5, 15.8; Apr. 13, a/14.8; May 2, a/15.3; June 18, b/10.2.

(D-6-2)3bdd1. State claim 1651. Pioneer Pumping Company. Record begins in 1937.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 28	14.72	Apr. 17	c 16.63	June 5	c 9.55	Nov. 5	9.55
Apr. 15	a 16.81	May 3	a 15.43	18	7.96		

(D-6-2)4adc. W. P. Kirk. Record begins in 1938.

Water level, in feet below measuring point, 1940

Jan. 17	c 31.4	May 8	c 37.3	July 10	c 32.87	Oct. 23	c 34.48
Feb. 21	c 34.32	22	c 36.39	Aug. 7	c 33.57	Dec. 2	c 34.22
Mar. 13	c 35.83	June 5	c 34.99	Oct. 2	c 35.37	23	c 35.9
Apr. 17	c 37.48						

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing prior to measurement.
c Measurement by Board of Canal Presidents.

Utah County--Continued.

(D-6-2)5dbbl. State claim 2875. Earl Toone. Record begins in 1938. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 13, a/0.75; May 2, a/0.75. Measurements discontinued.

(D-6-2)6dcbl. State claim 12980. Utah Power and Light Company. Record begins in 1938.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	b 33.0	Apr. 17	b 33.2	July 31	bc 25.4	Oct. 30	b 29.0
Feb. 21	b 33.3	May 2	a 33.8	Aug. 28	b 26.8	Nov. 25	b 31.2
Mar. 20	b 33.8	18	b 27.8	Sept.25	b 28.5	Dec. 23	b 32.0
Apr. 13	a 33.4	June 12	b 29.0				

(D-6-2)7dbcl. State claim 3028. Jay Gillies. Record begins in 1937.

Water level, in feet above measuring point, 1940

Jan. 5	24.0	May 2	a 24.6	Sept. 25	b 19.8	Nov. 25	b 22.0
Mar. 20	b 24.5	18	b 18.7	Oct. 30	b 20.2	Dec. 23	b 23.3
Apr. 13	a 24.8	Aug. 28	b 17.6				

(D-6-2)9acdl. State claim 6029. Measurements discontinued.

(D-6-2)9bdcl. State claim 12991. Provo Community Brooding Association. Record begins in 1938. All measurements made by Board of Canal Presidents.

Water level, in feet below measuring point, 1940

Jan. 10	11.00	May 18	11.33	Aug. 14	11.2	Dec. 23	11.7
Mar. 20	10.53	June 26	10.86	Dec. 2	11.9		

(D-6-2)9ccc. Measurements discontinued.

(D-6-2)9cdd. Measurements discontinued.

(D-6-2)9dda. C. Sumner. Record begins in 1938. All measurements made by Board of Canal Presidents.

Water level, in feet below measuring point, 1940

Jan. 17	25.4	Apr. 17	35.02	July 17	27.33	Oct. 23	30.74
Feb. 21	29.63	May 8	33.96	Aug. 7	28.32	Dec. 2	31.24
Mar. 13	31.88	June 12	29.05	Oct. 2	31.3	23	32.10

(D-6-2)10addl. State claim 3123. Orem City, Orem. Diameter 12 inches, depth 101 feet. Measuring point, hole in pump base for air line, 0.2 foot above land surface. Water levels, in feet below measuring point, 1940: Feb. 28, 54.00; June 18, 37.55.

(D-6-2)16adc. Geo. Gregory. Record begins in 1938. All measurements made by Board of Canal Presidents.

Water level, in feet below measuring point, 1940

Jan. 24	4.47	Apr. 17	5.67	July 10	5.72	Nov. 25	5.8
Feb. 21	4.87	May 15	6.12	Aug. 7	5.55	Dec. 23	5.9
Mar. 20	5.33	June 12	5.85	Sept.23	5.84		

(D-6-2)16bc. Geo. F. Wells. Record begins in 1938. Water levels, in feet below measuring point, 1940: Jan. 5, 15.79; Apr. 17, b/15.52; May 15, b/17.93; June 12, b/17.3. Measurements discontinued.

(D-6-2)16bcbl. State claim 11852. Board of Education, Alpine School District. Record begins in 1938. All measurements made by Board of Canal Presidents.

Water level, in feet below measuring point, 1940

Jan. 10	1.60	May 15	3.86	July 10	6.8	Nov. 25	3.5
Feb. 28	1.14	June 12	4.20	Oct. 23	5.3	Dec. 23	3.3
Apr. 17	1.23						

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Measurement by Board of Canal Presidents.
c Found flowing prior to measurement.

Utah County--Continued.

(D-6-2)17aba2. State claim 9004. J. J. Madsen, Jr. Record begins in 1938. All measurements made by Board of Canal Presidents.

Water level, in feet with reference to measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	-0.20	May 1	-0.05	July 10	-6.10	Oct. 23	-4.20
Feb. 21	+0.02	9	-1.18	31	-6.30	Nov. 25	-2.00
Mar. 20	+0.14	15	-3.08	Sept. 25	-4.23	Dec. 23	-1.4
Apr. 17	+0.28	June 12	-3.40				

(D-6-2)17cab4. State application 12722. C. N. Gammon. Record begins in 1938. Water level, in feet above measuring point, 1940: Jan. 5, 24.7. Measurements discontinued.

(D-6-2)17cac3. State claim 16634. Harry Gammon. Record begins in 1938. Found flowing prior to measurement. Water level, in feet above measuring point, 1940: Jan. 5, 23.2. Measurements discontinued.

(D-6-2)17ddd1. Claim 4814. Lawrence Kirk. Record begins in 1938. Elevation of measuring point, 4541.14 feet above sea level. Measurements discontinued after Sept. 25, 1940.

Water level, in feet with reference to measuring point, 1940

Jan. 10	b +3.0	Apr. 17	b +2.8	June 26	b -2.13	Aug. 31	b -2.94
Apr. 13	a +2.8	May 5	a +3.1	July 10	b -2.58	Sept.28	b -1.41

(D-6-2)17ddd2. State claim 4812. Measurements discontinued.

(D-6-2)18add2. State application 11747. J. L. Larson. Record begins in 1938. All measurements made by Board of Canal Presidents. Measurements discontinued after Dec. 23, 1940.

Water level, in feet above measuring point, 1940

Feb. 21	b 16.7	May 3	a 17.1	July 10	b 7.2	Oct. 23	b 12.6
Mar. 20	b 17.0	15	b 10.6	Aug. 7	b 6.4	Nov. 25	b 14.7
Apr. 10	b 16.9	June 12	b 11.3	Sept.25	b 12.8	Dec. 23	b 15.9
13	a 17.0						

(D-6-2)21cad1. State application 11818. Measurements discontinued.

(D-6-2)23bab. Elias Nielson. Record begins in 1938. All measurements made by Board of Canal Presidents.

Water level, in feet below measuring point, 1940

Jan. 17	36.4	Apr. 17	38.92	July 10	35.53	Dec. 2	36.78
Feb. 21	37.6	May 22	36.25	Aug. 7	36.05	23	37.0
Mar. 13	36.9	June 12	35.42	Oct. 2	36.87		

(D-6-2)24bac1. State claim 13062. C. A. Keeler. Record begins in 1938. Water levels, in feet below measuring point, 1940: Jan. 5, 12.72; Apr. 15, 14.00; June 17, 10.58. Measurements discontinued.

(D-6-2)24dac. Isaac Boyce. Record begins in 1938. Water levels, in feet below measuring point, 1940: Jan. 5, 127.25; Feb. 29, 127.35; Apr. 8, 126.98; June 17, 128.11; Nov. 5, 131.66.

(D-6-2)25bbb. Maud Olsen. Record begins in 1938. All measurements made by Board of Canal Presidents.

Water level, in feet below measuring point, 1940

Jan. 17	20.55	Apr. 17	20.74	June 12	18.67	Oct. 2	19.67
Feb. 21	20.59	May 8	18.03	July 10	19.20	Dec. 2	20.95
Mar. 13	20.54	22	17.19	Aug. 7	19.70	23	21.2

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

b Measurement by Board of Canal Presidents.

Utah County--Continued.

(D-6-2)26dbal. C. B. Iverson, Orem. Diameter 4 inches, depth 80 feet. Measuring point, top of casing in cellar, 5.9 feet below land surface. All measurements made by Board of Canal Presidents. Measurements discontinued after Dec. 23, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Apr. 26	42.25	July 16	40.5	Dec. 23	43.7
May 26	41.4	Oct. 2	42.0		

(D-6-2)27abb. Measurements discontinued.

(D-6-2)27bcb1. State claim 16683. Peter Zobell. Record begins in 1938. All measurements made by Board of Canal Presidents. Measurements discontinued after Dec. 23, 1940.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	12.50	May 13	12.57	July 17	12.7	Oct. 30	12.87
Feb. 21	12.25	26	12.62	Aug. 14	12.42	Dec. 2	13.0
Apr. 17	12.45	June 26	12.7	Sept.25	13.22	23	12.9

(D-6-2)27cd. Haldor Nelson. Record begins in 1938. All measurements made by Board of Canal Presidents. Measurements discontinued after Dec. 23, 1940.

Water level, in feet below measuring point, 1940

Jan. 12	8.80	May 13	8.95	Aug. 14	9.75	Dec. 2	9.4
Feb. 21	8.54	June 26	9.02	Sept. 25	11.27	23	9.3
Apr. 17	9.00	July 17	9.25	Oct. 30	9.53		

(D-6-2)28badl. State claim 2087. Henry Williamson. Record begins in 1935.

Water level, in feet above measuring point, 1940

Feb. 21	c 11.2	May 3	a 11.8	July 17	b 6.6	Oct. 23	c 8.0
Apr. 15	a 11.7	15	c 9.0	Aug. 7	c 5.6	Nov. 25	c 9.1
17	c 11.2	June 12	c 9.0	Sept.23	c 7.8	Dec. 23	c 9.3

(D-6-2)34bcal. State claim 17464. Fred Startin. Record begins in 1938. Found flowing prior to all positive measurements. Measurements discontinued after Dec. 23, 1940.

Water level, in feet with reference to measuring point, 1940

Jan. 10	c +2.60	May 3	a +2.6	July 17	c -2.80	Oct. 30	c -0.15
Feb. 21	c +2.20	26	c -1.35	Aug. 14	c -3.84	Dec. 2	c +1.9
Apr. 15	a +2.5	June 26	c -2.74	Sept.27	c -1.15	23	c +2.1

(D-6-2)35bcc. N. A. Nielsen. Record begins in 1938. All measurements made by Board of Canal Presidents. Measurements discontinued after Dec. 23, 1940.

Water level, in feet below measuring point, 1940

Jan. 12	27.50	May 13	32.10	Aug. 14	26.85	Dec. 9	26.62
Apr. 26	31.92	July 17	26.4	Oct. 2	27.88	23	27.00

(D-7-2)2ccb1. State claim 4103. D. L. Vincent. Record begins in 1938. All measurements made by Board of Canal Presidents. Measurements discontinued after Nov. 26, 1940.

Water level, in feet above measuring point, 1940

Jan. 27	18.1	May 13	14.8	Aug. 14	6.2	Oct. 21	14.3
Feb. 19	19.0	July 17	9.3	Sept.25	13.7	Nov. 26	15.2
Mar. 20	19.8						

(D-7-2)2ccc1. State claim 4102. D. L. Vincent. Measurement by Board of Canal Presidents. Water level, in feet above measuring point, 1940: Mar. 20, 19.8. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing prior to measurement.
c Measurement made by Board of Canal Presidents.

Utah County--Continued.

(D-7-2)3bdbl. State claim 5299. Chas. Madsen. Record begins in 1938. Measurements discontinued after Dec. 23, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	c 22.9	Apr. 25	c 23.2	June 12	c 18.0	Sept. 25	c 18.3
Feb. 21	c 24.0	May 2	a 23.8	July 10	c 15.4	Nov. 26	c 19.9
Mar. 20	c 23.8	9	c 19.8	Aug. 7	c 12.9	Dec. 23	c 20.8
Apr. 13	a 23.4						

(D-7-2)3daal. David Kinhear. Record begins in 1938. Measurements discontinued after Dec. 23, 1940.

Water level, in feet above measuring point, 1940

Jan. 27	c 14.5	May 2	a 15.4	July 10	c 6.8	Oct. 23	cb 10.8
Mar. 20	c 15.8	9	c 12.9	Aug. 7	cb 4.6	Nov. 27	c 12.0
Apr. 13	a 15.0	June 12	c 10.6	Sept. 25	c 10.4	Dec. 23	c 12.9

(D-7-2)3dcal. V. R. Fisher. Record begins in 1938. Elevation of measuring point, 4505.77 feet above sea level. Measurements discontinued after Nov. 19, 1940.

Water level, in feet above measuring point, 1940

Jan. 27	c 23.5	Apr. 25	c 23.8	June 12	c 19.5	Sept. 25	c 19.3
Feb. 19	c 24.1	May 2	a 24.4	July 17	c 13.8	Oct. 17	c 19.5
Mar. 20	c 24.7	9	c 21.9	Aug. 7	c 13.7	Nov. 19	c 20.7
Apr. 13	a 24.3						

(D-7-2)4cbcl. State application 12754. H. A. Knudsen. Record begins in 1938. All measurements made by Board of Canal Presidents.

Water level, in feet above measuring point, 1940

Feb. 19	27.0	May 9	22.4	Aug. 14	14.4	Oct. 24	23.3
Mar. 20	26.9	June 26	16.7	Sept. 25	23.0	Nov. 19	23.6

(D-7-2)4cbdl. State application 11794. Reed Knudsen. Record begins in 1937.

Water level, in feet above measuring point, 1940

Feb. 19	c 27.2	Apr. 25	c 27.7	May 23	c 23.4	Sept. 25	c 23.4
Mar. 20	c 27.2	May 2	a 27.2	July 17	c 13.0	Nov. 19	c 23.7
Apr. 13	a 27.0						

(D-7-2)9caa2. Measurements discontinued.

(D-7-2)11bbc3. State application 12403. Wm. K. Farrer. Record begins in 1938. All measurements made by Board of Canal Presidents. Measurements discontinued after Oct. 21, 1940.

Water level, in feet above measuring point, 1940

Jan. 26	24.7	Mar. 20	26.0	July 17	15.0	Oct. 21	20.8
Feb. 19	25.3	May 13	21.0	Sept.25	20.5		

(D-7-2)11cac2. State claim 11735. Measurements discontinued.

(D-7-2)11cdbl. D. A. Johnson. Record begins in 1938. Measurements discontinued after Nov. 19, 1940.

Water level, in feet above measuring point, 1940

Jan. 26	c 29.1	Apr. 25	c 30.2	June 20	c 14.3	Sept. 28	c 25.3
Feb. 19	c 30.0	May 2	a 31.2	July 10	c 20.1	Oct. 17	c 24.9
Mar. 19	c 30.7	13	c 24.8	31	c 14.5	Nov. 19	c 25.5
Apr. 13	a 30.8	June 12	c 25.6	Aug. 7	c 18.3		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing prior to measurement.
c Measurement made by Board of Canal Presidents.

Utah County--Continued.

(D-7-2)12bcb1. State claim 105. Provo City Corporation. Record begins August 1935.

Water level, at noon, in feet above measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.4	23.6	24.7	....	25.2	20.2	17.4	14.6	17.4	....	20.9	21.5
2	23.6	23.8	24.8	25.9	25.3	21.2	17.9	15.0	17.2	....	20.9	21.5
3	23.3	23.8	24.6	25.8	25.3	21.6	18.5	15.2	17.4	....	20.9	21.6
4	23.3	23.8	24.5	25.8	25.4	21.6	18.5	15.1	16.5	....	20.9	22.0
5	23.6	23.9	24.7	25.9	25.0	21.9	17.8	17.0	18.0	....	21.0	22.2
6	23.5	24.0	24.5	25.9	24.7	21.9	18.2	17.0	18.5	....	21.0	22.2
7	23.4	24.0	24.5	25.9	23.9	21.8	18.4	16.0	19.0	....	21.2	22.2
8	23.5	24.0	24.8	25.6	23.9	21.6	18.0	16.9	19.0	....	21.3	22.2
9	23.6	24.0	24.9	25.6	23.6	20.3	18.5	15.6	19.4	20.6	21.3	22.3
10	23.4	24.0	24.9	25.7	23.2	20.7	18.5	15.2	19.5	20.8	21.1	22.3
11	23.2	24.1	24.8	25.7	22.7	21.3	18.6	16.2	18.5	20.7	21.2	22.3
12	23.6	24.2	24.8	25.7	22.9	20.9	17.8	15.2	17.3	20.8	21.2	22.3
13	23.5	24.2	24.7	25.8	22.8	20.7	16.6	14.8	18.2	20.9	21.1	22.2
14	23.2	24.3	24.7	25.7	22.0	20.5	17.0	14.6	17.8	20.9	21.2	22.0
15	23.4	24.1	24.8	25.7	22.1	20.7	16.8	15.1	19.5	20.9	21.2	21.9
16	23.6	24.2	24.8	25.7	22.0	20.6	16.4	16.0	19.5	20.9	21.4	22.1
17	23.4	24.3	24.8	25.6	21.5	19.5	17.2	16.8	19.6	20.6	21.4	22.2
18	23.4	24.3	24.6	25.3	21.5	19.1	17.9	16.2	19.9	20.8	21.5	22.3
19	23.5	24.3	24.6	25.2	21.5	18.2	17.0	16.8	19.9	20.7	21.5	22.3
20	23.6	24.4	24.6	25.1	21.5	18.0	17.5	16.0	20.0	20.9	21.4	22.3
21	23.5	24.3	24.6	24.9	21.2	18.3	17.0	15.5	20.2	21.1	21.5	22.3
22	23.6	24.4	24.6	24.0	20.2	18.8	18.0	16.5	20.4	20.9	21.4	22.5
23	23.6	24.5	24.6	24.0	20.4	19.2	17.6	15.5	20.3	20.9	21.3	22.6
24	23.4	24.5	24.5	24.6	20.4	19.2	17.9	16.8	20.3	21.0	21.4	22.5
25	23.4	24.5	24.4	24.8	19.9	19.3	18.0	17.5	20.2	20.9	21.4	22.5
26	23.6	24.6	24.4	25.2	20.4	19.2	17.0	17.2	19.9	20.7	21.5	22.5
27	23.5	24.6	24.4	25.3	20.2	18.8	17.0	16.8	20.3	20.8	21.5	22.5
28	23.5	24.6	24.4	25.2	21.5	17.4	17.1	16.5	20.3	20.5	21.5	22.5
29	23.6	24.6	25.5	25.3	21.5	16.9	16.2	....	20.5	20.5	21.8	22.5
30	23.6	....	25.5	25.3	21.2	17.0	15.8	....	....	20.6	21.8	....
31	23.6	....	25.5	....	21.2	....	15.0	....	....	20.8	....	....

(D-7-2)13bad2. State application 12738. J. O. Webb. Record begins in 1938. Water levels, in feet above measuring point, 1940: Apr. 13, a/40.7; May 2, a/41.1; June 17, b/34.8. Measurements discontinued.

(D-7-2)13bda1. State claim 6480. R. I. and J. E. Jacobsen. Record begins in 1938. Elevation of measuring point, 4498.08 feet above sea level. Measurements discontinued after Nov. 26, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	c 40.4	Apr. 25	c 40.7	June 17	c 36.5	Sept. 20	c 38.0
Feb. 19	c 41.2	May 2	a 42.1	July 31	c 31.2	Oct. 31	c 38.6
Mar. 13	c 41.7	22	c 36.7	Aug. 21	c 29.9	Nov. 26	c 38.7
Apr. 13	a 41.7	June 12	c 38.6				

(D-7-2)35ccd. Angus Hales. Record begins in 1937. Elevation of measuring point, 4508.74 feet above sea level. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 4	4.0	Apr. 13	a 4.5	June 17	4.45
Feb. 28	a 4.5	May 1	a 4.8		

(D-7-2)36dcc2. H. H. Spatford. Record begins in 1938. Elevation of measuring point, 4504.89 feet above sea level. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Jan. 4	13.2	Feb. 28	a 14.4	May 2	a 15.2
23	a 13.8	Apr. 13	a 14.3	June 17	11.8

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Found flowing prior to measurement.
c Measurement made by Board of Canal Presidents.

Utah County--Continued.

(D-7-3)6cdb1. State claim 5112. L. E. Curtis. Record begins in 1935. Water level, in feet above measuring point, 1940: June 17, 8.9.

(D-7-3)28bac2. State claim 17329. C. O. Claudin. Record begins in 1938. Elevation of measuring point, 4529.91 feet above sea level. Measurements discontinued after Dec. 20, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 9	b 15.1	Apr. 19	b 15.0	June 17	17.4	Oct. 1	b 15.4
Feb. 29	14.5	May 2	a 14.9	July 23	b 16.4	Nov. 29	b 15.7
Mar. 16	b 14.6	17	b 16.7	Aug. 13	b 16.2	Dec. 20	b 15.6
Apr. 13	a 14.5						

(D-7-3)28cad1. Measurements discontinued.

(D-7-3)28cdb1. State claim 111. Wm. M. Mower. Record begins in 1938. Measurements discontinued after Oct. 1, 1940.

Water level, in feet above measuring point, 1940

Jan. 9	b 6.6	Apr. 13	a 6.1	May 17	b 7.7	Aug. 13	b 6.4
Feb. 29	6.2	May 1	a 6.6	July 23	bc 6.6	Oct. 1	bc 5.4
Mar. 16	b 6.2						

(D-7-3)30dc. Measurements discontinued.

(D-7-3)32bcc1. State claim 8345. Drought Relief Administration. Record begins in 1937.

Water level, in feet above measuring point, 1940

Jan. 4	47.4	Apr. 13	a 48.0	May 17	b 34.4	Oct. 2[illegible]	c 43.1
22	a 48.2	19	b 48.2	June 17	32.8	Nov. 2[illegible]	c 45.8
Feb. 28	a 48.0	May 2	a 48.2	July 13	bc 35.5	Dec. 20	c 45.9
Mar. 16	a 48.0						

(D-7-3)33baa6. State claim 7006. A. W. Finley. Record begins in 1935.

Water level, in feet above measuring point, 1940

Jan. 9	b 7.0	Apr. 19	b 7.0	June 17	8.5	Sept. 24	b 7.2
Feb. 29	7.3	May 2	a 7.4	July 23	b 8.3	Nov. 29	b 7.6
Mar. 16	b 7.1	17	b 8.0	Aug. 13	b 7.9	Dec. 20	b 7.6
Apr. 13	a 6.9						

(D-7-3)33ccc5. State claim 17200. H. L. Vane. Record begins in 1938. Measurements discontinued after Dec. 20, 1940.

Water level, in feet above measuring point, 1940

Jan. 9	b 6.8	Apr. 19	b 6.5	Aug. 13	b 7.0	Nov. 29	b 7.1
Feb. 29	7.1	May 17	b 7.0	Oct. 1	b 6.5	Dec. 20	b 7.1

(D-8-1)13aaa1. State claim 14076. R. G. Francis. Record begins in 1936.

Water level, in feet above measuring point, 1940

Jan. 4	15.3	Mar. 19	b 15.9	May 1	a 16.0	Sept. 20	b 12.4
30	b 15.3	Apr. 12	a 14.9	June 14	12.5	Oct. 22	b 12.9
Feb. 20	b 15.5	23	b 14.6	Aug. 13	b 8.8	Dec. 4	b 13.9

(D-8-1)25ccb1. State claim 11790. F. S. Hiatt. Record begins in 1938. Elevation of measuring point, 4510.60 feet above sea level.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 4	13.25	Apr. 12	a 13.0	June 14	11.3
Feb. 28	a 12.6	May 1	a 13.1		

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Measurement made by Board of Canal Presidents.
c Found flowing prior to measurement.

Utah County--Continued.

(D-8-2)4cba2. State claim 10844. Mary Barney. Record begins in 1937.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	27.5	Apr. 23	a 27.6	June 17	23.65	Sept. 20	a 24.2
Feb. 20	a 27.7	May 1	b 27.9	July 16	a 23.6	Oct. 22	a 24.5
28	b 27.6	14	a 26.8	Aug. 13	a 23.1	Nov. 20	a 26.2
Apr. 12	b 27.9						

(D-8-2)5aaal. State claim 14038. L. J. Artken. Record begins in 1938. Found flowing prior to all measurements. Measurements discontinued after June 12, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 4	7.7	Apr. 12	b 8.2	June 12	8.25
Feb. 28	b 7.9	May 1	b 8.6		

(D-8-2)7dddl. State claim 10762. A. H. Beers. Record begins in 1938.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	19.1	May 1	b 20.0	July 9	a 15.5	Sept. 20	a 16.3
Feb. 20	a 19.3	14	a 19.2	16	a 15.9	Oct. 22	a 14.4
Apr. 12	b 19.4	June 12	18.5	Aug. 13	a 15.9	Dec. 4	a 17.1
23	a 17.3						

(D-8-2)10bbdl. State claim 114. J. H. Roach, Palmyra. Diameter 2 inches, depth 435 feet. Measuring point, top of ell on casing, 1.5 feet above land surface and 4515.71 feet above sea level. Water levels, in feet above measuring point, 1940: Feb. 27, c/16.6; Apr. 12, b/c/16.2; May 1, b/c/16.4; June 14, c/14.7. Measurements discontinued.

(D-8-2)16caal. State claim 10312. Wm. G. Foster. Record begins in 1937. Measurements discontinued after June 14, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 4	33.25	Apr. 4	a 38.4	June 14	37.8
Feb. 28	a 36.7	May 1	a 38.6		

(D-8-2)23dbdl. State claim 13201. Utah-Idaho Sugar Co. Record begins in 1936. Water levels, in feet above measuring point, 1940: Jan. 4, 18.5; Apr. 12, b/17.7; May 1, b/17.8; June 14, 15.0.

(D-8-2)23dbd3. Henry Markham, Spanish Fork. Diameter 1¼ inches. Measuring point, top of ell on casing, 1.5 feet above land surface. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 27, 14.3; Apr. 12, b/13.2; May 1, b/13.4; June 14, 11.2. Measurements discontinued.

(D-8-2)25aad4. I. K. Nybo, Spanish Fork. Diameter 3/4 inch, depth 125 feet. Measuring point, top of ell on casing, 1.5 feet above land surface. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 27, 3.48; Apr. 12, b/3.0; May 1, b/3.2; June 14, 3.4. Measurements discontinued.

(D-8-2)28bbb3. Utah Oil Refining Co., Benjamin. Diameter 2 inches, depth 375 feet. Measuring point, top of horizontal tee, 1.5 feet above land surface and 4430.87 feet above sea level. Water levels, in feet above measuring point, 1940: Feb. 26, 15.6; Apr. 12, b/16.2; May 1, b/16.4; June 14, 12.2. Pressure pump installed; measurements discontinued.

a Measurement by Board of Canal Presidents.
b Measurement by Utah State Engineer in cooperation with Works Projects Administration.
c Found flowing prior to measurement.

Utah County--Continued.

(D-8-2)29addl. State application 11860. Reed Reynolds, Benjamin. Diameter 5 inches, depth 290 feet. Measuring point, top of ell on casing, 1.5 feet above land surface and 4527.22 feet above sea level. Found flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Feb. 27, 9.6; Apr. 12, a/10.4; May 1, a/10.4; June 14, 9.5.

(D-8-3)4cadl. State application 11830. Eddington Canning Co. Record begins in 1935.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	18.2	Apr. 19	b 18.2	May 17	b 19.2	Dec. 20	b 18.4
Feb. 28	a 17.8	May 2	a 18.6	Nov. 1	b 18.1		

(D-8-3)4ddc. M. Messenger. Record begins in 1938. Water levels, in feet below measuring point, 1940: Apr. 30, b/8.13; May 14, b/6.58; Aug. 13, b/6.85. Measurements discontinued.

(D-8-3)10ddc. Measurements discontinued.

(D-8-3)15ccb. E. Whitcomb. Record begins in 1938. Measurements discontinued after Dec. 20, 1940.

Water level, in feet below measuring point, 1940

Feb. 27	b 11.45	July 2	b 8.70	Sept. 3	b 10.26	Nov. 15	b 11.50
Apr. 16	b 11.96	Aug. 6	b 9.48	Oct. 22	b 11.10	Dec. 20	b 12.1
May 14	b 11.21						

(D-8-3)18dc. M. P. Mortison. Record begins in 1938. Found flowing prior to all measurements. Measurements discontinued after June 14, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 4	6.5	Apr. 13	a 6.2	June 14	6.7
Feb. 28	a 6.5	May 2	a 6.0		

(D-9-1)1cbc. State claim 8344. Drought Relief Administration, Payson. Diameter 8 inches. Measuring point, top of casing, level with land surface.

Water level, in feet below measuring point, 1940

Jan. 4	3.07	Apr. 12	a 2.3	June 14	2.19
Feb. 28	a 2.50	May 1	a 2.3		

(D-9-1)2dda. (D-9-1)2ddd in Water-Supply Paper 886. Clay Ashworth. Record begins in 1939.

Water level, in feet below measuring point, 1940

Jan. 3	7.39	Apr. 12	a 4.75	June 14	6.47
Feb. 28	a 6.50	May 1	a 4.75		

(D-9-1)25adal. State claim 8324. Drought Relief Administration. Record begins in 1937. Water levels, in feet above measuring point, 1940: Jan. 4, 10.85; June 14, c/10.8. Measurements discontinued.

(D-9-1)25addl. State claim 8524. Federal Land Bank. Record begins in 1938. Measurements discontinued after June 14, 1940.

Water level, in feet with reference to measuring point, 1940

Jan. 4	+0.23	Apr. 12	a -0.9	June 14	+0.95
Feb. 28	a -0.40	May 1	a -0.17		

(D-9-1)29cdd. Genola. Record begins in 1938. Water levels, in feet below measuring point, 1940: Jan. 3, 27.68; Feb. 6, 27.95; Mar. 28, 28.30; June 14, 24.15.

(D-9-1)33bbbl. State claim 8343. Drought Relief Administration. Record begins in 1936. Water levels, in feet below measuring point, 1940: Jan. 3, 74.00; Feb. 6, 74.55; Mar. 28, 75.24. Measurements discontinued.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.
b Measurement by Board of Canal Presidents.
c Found flowing prior to measurement.

Utah County--Continued.

(D-9-2)5ddc2. State claim 1139. Payson City Corporation. Record begins in 1935.

Water level, at noon, in feet above measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.6	....	13.7	13.4	13.0	12.8	13.2	13.0	14.4	14.3	13.8	13.8
2	13.5	....	13.6	13.1	13.1	12.9	13.2	13.0	14.4	14.3	14.4	13.9
3	13.4	....	13.6	13.4	13.3	12.9	13.3	12.9	14.3	14.4	14.3	14.0
4	13.4	....	13.5	13.3	13.4	13.0	13.3	12.9	14.3	14.6	14.3	14.0
5	13.5	....	13.7	13.4	13.3	12.9	13.4	13.0	14.3	14.7	14.3	14.0
6	13.4	....	13.5	13.4	13.2	12.9	13.4	13.0	14.3	14.6	14.4	14.0
7	....	....	13.5	13.3	13.3	13.0	13.4	13.0	14.3	14.6	14.5	14.0
8	13.5	....	13.7	13.2	13.5	13.0	13.5	13.0	14.3	14.8	13.9	14.1
9	13.4	....	13.6	13.4	13.5	13.0	13.5	13.0	14.3	14.7	13.8	14.3
10	13.4	....	13.6	13.2	13.6	13.1	13.5	13.0	14.4	14.6	13.7	14.3
11	13.4	....	13.7	13.1	13.6	13.1	13.5	13.0	14.4	14.6	13.7	14.3
12	13.4	....	13.6	12.9	13.8	13.2	13.5	13.0	14.3	14.7	13.6	14.4
13	13.3	....	13.5	13.0	14.0	13.2	13.5	13.0	14.3	14.7	13.7	14.3
14	....	....	13.6	13.2	13.6	12.3	13.5	13.0	14.3	14.8	14.1	14.7
15	....	....	13.7	13.4	13.6	12.2	13.5	13.0	14.4	14.8	14.4	14.7
16	13.4	....	13.7	13.1	13.6	11.8	13.5	13.0	14.5	14.8	14.3	14.4
17	13.5	....	13.7	13.0	13.4	11.8	13.5	13.8	14.5	14.8	14.3	14.5
18	....	....	13.7	13.1	13.4	11.8	13.6	14.3	14.5	14.7	14.2	14.4
19	13.5	13.8	13.7	13.2	13.6	11.8	13.5	14.3	14.5	14.2	14.3	14.4
20	....	13.8	13.7	13.2	13.5	11.8	13.6	14.4	14.5	14.2	14.2	14.3
21	....	13.8	13.7	13.0	13.5	11.7	13.7	14.5	14.5	14.2	14.3	14.4
22	....	13.8	13.7	13.0	13.5	11.8	13.8	14.5	14.4	14.1	14.2	14.4
23	....	13.8	13.7	13.1	12.9	11.7	13.8	14.4	14.6	14.1	14.2	14.5
24	13.5	13.6	13.7	13.1	12.9	11.8	13.9	14.4	14.5	14.2	14.3	14.3
25	13.2	13.6	13.6	13.0	12.8	12.5	12.7	14.4	14.5	14.0	14.2	14.3
26	13.2	13.8	13.6	13.0	12.7	13.0	12.6	14.4	14.5	14.0	14.0	14.2
27	13.2	....	13.6	12.8	12.7	13.0	12.5	14.4	14.5	14.0	14.0	14.3
28	13.1	....	13.4	12.8	12.7	13.0	12.5	14.5	14.3	13.8	14.0	14.3
29	....	13.8	13.4	12.8	12.7	13.1	12.5	14.4	14.3	13.8	14.0	14.3
30	....	....	13.4	12.8	12.7	13.2	12.9	14.4	14.2	13.8	14.0	14.3
31	....	....	13.4	....	12.8	....	13.0	14.4	....	13.8	....	14.3

(D-9-2)11aaal. State claim 3364. Salt Lake and Utah Railroad. Record begins in 1935. Water levels, in feet above measuring point, 1940: Jan. 4, 29.8; Apr. 12, a/25.0; May 1, a/25.1; June 14, 28.0.

(D-9-2)18bcdl. State claim 8357. Drought Relief Administration, Payson. Diameter 4 inches, depth 251 feet. Measuring point, top of casing, 0.2 foot above land surface and 4617.12 feet above sea level. Water levels, in feet below measuring point, 1940: Feb. 27, 6.32; Apr. 12, a/7.6; May 1, a/8.1; June 14, 6.14.

Washington County

(C-37-12)12cddl. State claim 8384. Drought Relief Administration. Record begins in 1935. Water levels, in feet below measuring point, 1940: Apr. 13, 41.85; Dec. 4, 42.43.

(C-37-17)14acbl. Enterprise Town. Record begins in 1935. Water level, in feet below measuring point, 1940: Apr. 13, 31.60. Measurements discontinued.

(C-42-10)33bb. Oscar DeMill. Record begins in 1935. Water levels, in feet below measuring point, 1940: Mar. 25, 118.09; Dec. 8, 118.30.

(C-42-11)3ac. Drought Relief Administration. Record begins in 1936. Water levels, in feet below measuring point, 1940: Mar. 24, 19.12; Dec. 8, 18.52.

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Wasatch County

(D-2-5)20cc. Lee Brothers. Record begins in 1936.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	28.35	Mar. 27	a 27.75	June 13	a 28.10	Aug. 26	a 29.55
11	a 28.9	Apr. 3	28.57	20	a 28.04	Sept. 16	a 29.30
Feb. 12	a 29.8	16	a 29.12	27	28.11	Oct. 17	a 29.28
14	28.40	May 15	a 29.85	July 16	a 28.42	Nov. 14	a 28.23
Mar. 9	a 27.65	27	a 28.50	Aug. 20	a 29.15	30	28.17

(D-2-5)31aadl. State claim 13770. W. H. Davis. Record begins in 1939.

Water level, in feet below measuring point, 1940

Jan. 8	13.67	Apr. 3	17.45	June 20	a 5.12	Sept. 16	a 9.95
11	a 13.5	16	a 17.55	27	6.47	Oct. 17	a 13.14
Feb. 12	a 15.00	May 15	a 5.40	July 16	a 6.68	Nov. 14	a 11.86
Mar. 9	a 13.85	27	a 3.66	Aug. 20	a 10.84	30	15.35
27	a 18.0	June 13	a 4.40	26	a 10.00		

(D-2-5)31ada. State claim 11234. Harry Morris. Record begins in 1936.

Water level, in feet below measuring point, 1940

Jan. 8	10.08	May 15	a 4.30	June 27	3.92	Sept. 16	a 6.83
Feb. 14	11.19	27	a 2.34	July 16	a 4.50	Oct. 17	a 10.20
Mar. 27	a 13.25	June 13	a 2.40	Aug. 20	a 7.60	Nov. 14	a 7.55
Apr. 3	14.27	20	a 4.42	26	a 5.46	30	11.89
16	a 14.84						

(D-3-4)35bbcl. State claims 8379 and 11260. Drought Relief Administration. Record begins in 1938.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Jan. 8	2.66	Apr. 3	2.43	Nov. 30	4.07
Feb. 14	2.60	June 27	3.57		

(D-3-5)29cac. Miles Clyde. Record begins in 1936.

Water level, in feet below measuring point, 1940

Jan. 8	9.86	Apr. 3	10.78	Nov. 30	8.52
Feb. 14	10.85	June 27	3.61		

(D-4-4)12aaa. Hartley Carlisle, Heber. Dug well, diameter 48 inches. Measuring point, top of instrument shelf, 3.8 feet above land surface and 5557.40 feet above sea level.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 31	45.05	Sept. 16	46.81	Oct. 2	47.72	Oct. 18	49.01
Sept. 1	45.32	17	46.95	3	47.95	19	49.07
2	45.56	18	47.10	4	47.88	20	48.77
3	45.80	19	47.23	5	47.74	21	48.11
4	45.90	20	47.36	6	47.79	22	47.43
5	45.91	21	47.49	7	47.18	23	47.94
6	45.86	22	47.65	8	47.22	24	48.36
7	45.82	23	47.84	9	47.34	25	48.73
8	45.79	24	47.83	10	47.56	26	49.01
9	45.87	25	47.76	11	47.82	27	49.14
10	46.04	26	47.80	12	48.09	28	49.27
11	46.29	27	47.68	13	48.24	29	49.30
12	46.54	28	47.27	14	48.31	30	49.33
13	46.75	29	47.11	15	48.38	31	49.32
14	46.77	30	47.10	16	48.44	Nov. 1	49.23
15	46.73	Oct. 1	47.44	17	48.71	2	49.27

a Measurement by Provo River Water Commissioner.

Wasatch County--Continued.

(D-4-4)12aaa.--Continued.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 3	49.39	Nov. 17	50.64	Dec. 6	54.14	Dec. 19	55.80
4	49.62	18	50.70	7	54.31	20	55.93
5	49.77	19	50.81	8	54.47	21	56.06
6	49.82	20	50.95	9	54.61	22	56.17
7	49.87	21	51.16	10	54.76	23	56.29
8	49.66	22	51.39	11	54.88	24	56.38
9	49.62	23	51.62	12	54.99	25	56.47
10	49.85	24	51.84	13	55.11	26	56.59
11	49.98	25	52.04	14	55.22	27	56.71
12	50.08	26	52.27	15	55.36	28	56.85
13	50.22	27	52.50	16	55.45	29	56.97
14	50.35	28	52.70	17	55.56	30	57.09
15	50.44	29	52.93	18	55.68	31	57.19
16	50.54	30	53.14				

(D-4-4)14abb. Charlotte Brown. Record begins in 1915.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.94	18.97	19.45	18.19	15.29	9.88	13.99	16.57	17.45	17.65	16.81	17.83
2	17.99	18.97	19.47	18.36	15.13	9.08	14.27	16.54	17.51	17.65	16.76	17.93
3	18.01	18.97	19.47	18.46	15.02	9.42	14.16	16.62	17.47	17.63	16.67	18.02
4	18.01	19.00	19.50	18.50	14.86	9.90	14.38	16.70	17.48	17.35	16.60	18.10
5	18.04	19.03	19.51	18.55	14.22	9.35	14.57	16.67	17.53	17.12	16.50	18.18
6	18.08	19.10	19.53	18.58	14.57	7.18	14.57	16.75	17.58	17.20	16.47	18.25
7	18.14	19.15	19.52	18.86	14.80	7.42	14.80	16.83	17.64	17.35	16.51	18.31
8	18.21	19.19	19.52	18.64	14.84	8.00	15.01	16.90	17.68	16.70	16.52	18.38
9	18.26	19.23	19.53	18.72	14.82	8.82	15.18	16.94	17.67	17.24	16.42	18.48
10	18.31	19.25	19.54	18.72	14.59	9.57	15.29	17.02	17.73	17.61	16.15	18.51
11	18.34	19.27	19.56	18.75	14.05	9.22	15.32	17.08	17.63	17.78	16.07	18.57
12	18.38	19.26	19.55	18.77	14.10	9.69	15.46	17.07	17.64	17.88	16.08	18.61
13	18.43	19.24	19.42	18.80	14.29	10.07	15.45	17.12	17.70	17.90	16.11	18.66
14	18.45	19.22	19.22	18.80	13.74	10.29	15.58	17.18	17.45	17.18	16.16	18.67
15	18.49	19.26	19.07	18.83	12.68	10.66	15.67	16.90	17.49	17.75	16.23	18.68
16	18.47	19.31	19.00	18.82	12.48	11.08	15.67	17.07	17.56	17.95	16.30	18.68
17	18.39	19.33	18.99	18.73	12.43	11.45	15.73	17.19	17.62	18.03	16.41	18.67
18	18.28	19.35	18.94	18.53	12.78	11.00	15.85	17.27	17.70	17.87	16.50	18.66
19	18.16	19.37	18.79	18.43	13.20	11.51	15.96	17.22	17.75	17.90	16.45	18.66
20	18.18	19.39	18.75	18.25	13.50	11.90	16.00	17.21	17.80	17.87	16.27	18.64
21	18.27	19.41	18.76	18.38	13.32	11.96	16.01	17.26	17.73	17.87	16.32	18.63
22	18.46	19.43	18.77	18.41	13.05	12.37	16.14	17.12	17.74	17.93	16.40	18.62
23	18.49	19.45	18.67	18.09	11.22	12.45	16.07	17.22	17.81	17.97	16.50	18.61
24	18.58	19.47	18.56	17.95	11.57	12.78	16.16	17.30	17.43	17.90	16.55	18.65
25	18.64	19.46	18.45	17.32	11.67	13.08	16.21	17.19	17.49	17.82	16.81	18.71
26	18.70	19.48	18.36	16.90	10.70	12.99	16.03	17.29	17.56	17.85	17.05	18.79
27	18.74	19.48	18.16	15.90	9.09	13.30	16.19	17.37	17.64	17.87	17.24	18.89
28	18.79	19.48	18.05	14.48	8.71	13.57	16.31	17.42	17.73	17.84	17.47	18.98
29	18.84	19.46	18.01	14.98	8.89	13.78	16.40	17.44	17.75	17.75	17.62	19.04
30	18.87	.....	18.00	15.12	9.40	13.73	16.47	17.46	17.76	17.22	17.77	19.10
31	18.93	.....	18.08	.....	9.80	.....	16.47	17.69	.....	16.77	.....	19.13

(D-4-4)14cccl. State claim 8380. Town of Charleston.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.18	13.91	14.09	14.27	12.90	9.51	10.66	12.22	13.08	13.44	13.46	12.81
2	13.21	13.93	14.05	14.32	12.73	9.51	10.71	12.29	13.09	13.42	13.42	12.89
3	13.23	13.96	14.09	14.31	12.54	9.52	10.80	12.33	13.13	13.46	13.38	12.96
4	13.23	13.96	14.14	14.30	12.35	9.48	10.95	12.36	13.17	13.46	13.44	13.05
5	.....	14.01	14.13	14.28	12.23	9.47	11.08	12.41	13.20	13.45	13.37	13.12
6	.....	13.99	14.21	14.28	12.08	9.46	11.15	12.43	13.21	13.49	13.34	13.23
7	.....	13.99	14.22	14.26	11.98	9.39	11.20	12.39	13.23	13.43	13.32	13.30

Wasatch County--Continued.

(D-4-4)14cccl.--Continued.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
8	.....	14.07	14.20	14.27	11.95	9.38	11.27	12.45	13.23	13.44	13.27	13.34
9	.....	14.10	14.23	14.26	11.87	9.25	11.22	12.34	13.23	13.44	13.18	13.39
10	.....	14.08	14.24	14.28	11.78	9.27	11.40	12.38	13.24	13.46	13.22	13.48
11	.....	14.09	14.27	14.28	11.68	....	11.29	12.45	13.25	13.44	13.14	13.54
12	13.49	14.16	14.37	14.29	11.56	....	11.33	12.44	13.27	13.48	13.08	13.60
13	13.60	14.17	14.37	14.25	11.45	....	11.45	12.51	13.28	13.45	12.97	13.72
14	13.63	14.10	14.35	14.20	11.29	9.78	11.48	12.57	13.32	13.48	12.87	13.81
15	13.64	14.16	14.30	14.18	11.17	9.83	11.60	12.62	13.34	13.45	12.77	13.85
16	13.64	14.25	14.27	14.28	11.07	9.90	11.60	12.70	13.35	13.43	12.68	13.90
17	13.61	14.19	14.32	14.35	10.80	9.97	11.63	12.72	14.11	13.47	12.63	13.94
18	13.66	14.16	14.32	14.30	10.71	9.99	11.63	12.77	14.10	13.53	12.55	14.04
19	13.69	14.25	14.30	14.25	10.71	9.90	11.70	12.76a	17.25	13.46	12.55	14.11
20	13.70	14.26	14.28	14.22	10.67	9.97	11.70	12.77	13.43	13.45	12.50	14.15
21	13.73	14.25	14.30	14.18	10.66	10.05	11.76	12.79	13.46	13.46	12.39	14.16
22	13.76	14.24	14.30	14.13	10.59	10.19	11.81	12.81	13.47	13.48	12.41	14.19
23	13.77	14.29	14.31	14.02	10.48	10.28	11.85	12.81a	17.65	13.49	12.41	14.21
24	13.80	14.30	14.33	13.95	10.38	10.35	11.86	12.80	13.50	13.48	12.37	14.24
25	13.84	14.21	14.30	13.80	10.29	10.38	11.88	12.85	13.48	13.48	12.38	14.34
26	13.84	14.16	14.31	13.62	10.18	10.50	11.91	12.92	13.45	13.47	12.45	14.40
27	13.89	14.12	14.25	13.47	10.12	10.57	12.00	12.91a	17.65	13.50	12.50	14.36
28	13.90	14.05	14.26	13.35	10.02	10.58	11.97	12.98	13.45	13.55	12.55	14.44
29	13.89	14.01	14.27	13.19	9.70	10.62	12.07	13.02	13.45	13.53	12.60	14.41
30	13.89	.....	14.27	13.06	9.54	10.66	12.15	13.01	13.45	13.53	12.69	14.45
31	13.89	.....	14.26	.....	9.48	.....	12.17	13.06	.....	13.50	.....	14.53

Wayne County

(D-27-2)25bd. State claim 7164. S. E. Tanner. Water level, in feet above measuring point, 1940: Dec. 6, 8.9.

(D-27-2)34ccc. Measurements discontinued.

(D-27-3)17cd. State claim 9922. Charles Ellett. Record begins in 1936. Found flowing 1.6 gallons per minute prior to measurement. Water level, in feet above measuring point, 1940: Mar. 25, 5.0. Measurements discontinued.

(D-28-4)36cd. V. A. Lee. Record begins in 1936. Water levels, in feet below measuring point, 1940: Mar. 25, 11.21; Dec. 6, 12.60.

(D-29-4)15ca. W. P. Coleman. Record begins in 1936. Water levels, in feet below measuring point, 1940: Mar. 25, 9.30; Dec. 6, 10.28.

Weber County--Ogden Valley

(A-6-1)ldc. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 14.82.

(A-6-1)2db. H. B. Stallings. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 15.30.

(A-6-1)lldc. U. S. Bureau of Reclamation. Record begins in October 1935.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.23	23.24	23.63	21.53	12.63	14.60	17.06	20.60	24.95	26.34	27.96	29.23
2	23.10	23.27	23.64	21.20	12.46	14.66	17.08	20.78	25.10	26.39	28.00	29.27
3	22.97	23.30	23.67	20.92	12.27	14.74	17.09	20.95	25.22	26.40	28.04	29.31
4	22.97	23.29	23.70	20.70	12.03	14.82	17.11	21.11	25.33	26.41	28.07	29.35
5	22.98	23.29	23.73	20.51	12.09	14.68	17.14	21.24	25.37	26.46	28.11	29.40
6	22.96	23.32	23.75	20.33	12.14	14.72	17.19	21.38	25.44	26.51	28.15	29.44

a Pumping from well.

Weber County - Ogden Valley--Continued.

(A-6-1)11dc.--Continued.

Water level, at noon, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
7	22.96	23.34	23.78	20.14	12.14	14.74	17.29	21.52	25.50	26.56	28.20	29.48
8	22.96	23.37	23.80	19.95	12.12	14.74	17.41	21.65	25.56	26.62	28.24	29.54
9	22.96	23.39	23.80	19.71	12.03	14.74	17.54	21.79	25.62	26.68	28.29	29.59
10	22.96	23.40	23.80	19.45	12.07	14.74	17.68	21.96	25.69	26.75	28.33	29.64
11	22.92	23.42	23.82	19.22	12.16	14.74	17.80	22.10	25.75	26.84	28.37	29.69
12	22.92	23.44	23.83	19.02	12.26	14.80	17.95	22.23	25.80	26.93	28.42	29.75
13	22.92	23.46	23.85	18.77	12.34	14.89	18.09	22.37	25.82	27.02	28.46	29.80
14	22.92	23.48	23.85	18.47	12.45	15.00	18.23	22.51	25.87	27.12	28.50	29.84
15	22.93	23.50	23.87	18.09	12.60	15.13	18.38	22.65	25.93	27.22	28.54	29.88
16	22.93	23.52	23.88	17.68	12.77	15.25	18.50	22.80	25.99	27.32	28.58	29.93
17	22.94	23.54	23.90	17.35	12.94	15.38	18.60	22.95	26.05	27.39	28.62	29.98
18	22.95	23.55	23.92	17.05	13.09	15.52	18.70	23.08	26.11	27.44	28.66	30.03
19	22.97	23.57	23.94	16.73	13.24	15.66	18.80	23.20	26.18	27.49	28.71	30.08
20	22.96	23.59	23.96	16.35	13.39	15.80	18.89	23.32	26.26	27.55	28.75	30.13
21	22.97	23.62	23.97	15.94	13.57	15.95	19.00	23.44	26.33	27.60	28.79	30.17
22	22.99	23.63	23.98	15.53	13.73	16.09	19.11	23.57	26.40	27.66	28.84	30.21
23	23.00	23.62	24.00	15.14	13.93	16.21	19.24	23.71	26.47	27.72	28.87	30.26
24	23.02	23.57	24.01	14.77	14.11	16.34	19.37	23.86	26.53	27.77	28.92	30.30
25	23.04	23.60	24.03	14.41	14.26	16.47	19.52	24.01	26.58	27.83	28.97	30.35
26	23.06	23.61	24.03	14.03	14.42	16.60	19.67	24.13	26.61	27.77	29.02	30.37
27	23.08	23.64	23.74	13.68	14.53	16.72	19.82	24.26	26.65	27.79	29.07	30.41
28	23.09	23.59	23.72	13.38	14.56	16.87	19.97	24.38	26.30	27.82	29.12	30.37
29	23.13	23.61	23.71	13.06	14.56	16.96	20.12	24.50	26.33	27.87	29.16	30.41
30	23.16	.....	23.70	12.84	14.58	17.05	20.28	24.65	26.36	27.90	29.19	30.44
31	23.20	.....	22.57	.....	14.56	.....	20.43	24.80	.....	27.90	.....	30.35

(A-6-1)11dd. Measurements discontinued.

(A-6-1)11dd. Ogden Yacht Club, Huntsville. Diameter 2 inches. Measuring point, top of 2-inch casing in pit, 5.3 feet below land surface. Water level, in feet below measuring point, 1940: Oct. 8, 20.98.

(A-6-1)12aal. City of Ogden. Record begins in September 1932.

Water level, at noon, in feet below measuring point, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.06	19.37	18.87	15.98	9.16	8.90	12.67	18.17	21.92	23.10	20.54	19.79
2	17.09	19.41	19.69	15.79	8.96	9.03	12.35	18.42	21.94	23.21	20.45	19.82
3	17.10	19.44	19.51	15.60	8.75	9.22	12.26	18.64	22.04	23.27	20.40	19.88
4	17.12	19.45	19.41	15.42	8.60	9.33	12.26	18.69	.....	23.17	20.37	19.91
5	17.14	19.43	19.28	15.24	8.47	9.34	12.60	18.76	.....	23.08	20.37	19.95
6	17.16	19.45	19.18	15.50	8.37	9.22	13.10	18.87	21.77	23.13	20.31	19.98
7	17.23	19.44	19.09	14.92	8.17	9.02	.....	19.03	21.77	23.00	20.23	.....
8	17.28	19.48	18.92	14.75	7.88	8.94	.....	19.24	.....	22.85	20.16	.....
9	17.37	19.54	18.93	14.55	7.66	8.95	.....	19.42	21.86	22.93	20.06	.....
10	17.45	19.56	18.83	13.95	7.60	8.99	.....	19.60	21.95	23.06	20.06	.....
11	17.53	19.54	18.77	13.84	7.66	9.18	.....	19.75	22.03	23.10	20.00	.....
12	17.55	19.58	18.68	13.82	7.74	9.54	.....	19.85	.....	23.12	19.95	.....
13	17.59	19.63	18.60	.....	7.67	9.73	15.05	19.95	22.13	.....	19.95	20.92
14	17.67	19.63	18.50	.....	7.71	10.00	15.21	20.08	22.23	.....	19.89	20.97
15	17.77	19.64	18.38	.....	7.86	10.17	15.35	20.23	22.32	.....	19.85	21.06
16	17.85	19.75	18.27	.....	8.06	10.56	15.25	20.36	22.39	.....	19.78	21.08
17	17.93	19.79	18.21	.....	8.20	10.80	15.21	20.47	22.47	.....	19.75	21.09
18	18.01	19.77	18.22	.....	8.37	10.92	15.31	20.50	22.59	22.46	19.66	21.19
19	18.16	19.80	18.18	12.29	8.46	11.05	15.45	20.48	22.64	22.28	19.70	21.29
20	.....	19.85	18.10	11.98	8.50	11.22	15.69	20.51	22.72	22.10	19.73	21.39
21	.....	19.88	18.04	11.70	8.67	11.43	15.94	20.57	22.84	21.89	19.64	21.40
22	.....	19.87	18.00	11.36	8.86	11.64	16.13	20.75	22.81	21.70	19.70	21.43
23	.....	19.87	17.93	11.02	8.96	11.91	16.37	20.96	22.77	21.56	19.73	21.37
24	.....	19.90	17.87	10.75	9.04	12.10	16.64	21.18	22.82	21.50	19.70	21.40
25	.....	19.92	17.77	10.44	9.08	12.21	16.84	21.16	22.73	21.46	19.68	21.45
26	.....	20.10	17.67	10.15	9.17	12.34	17.02	21.15	22.66	.....	19.72	21.45
27	19.06	20.20	17.46	9.91	9.07	12.55	17.18	21.21	23.00	.....	19.76	21.55
28	19.22	20.16	17.22	9.70	8.57	12.76	17.40	21.30	23.05	.....	19.76	.....
29	19.30	19.97	16.96	9.49	8.38	12.80	17.60	21.40	23.04	20.95	19.76	.....
30	19.35	.....	16.57	9.30	8.65	12.87	17.78	21.58	23.04	20.74	19.77	.....
31	19.35	.....	16.24	.....	8.77	.....	17.94	21.80	.....	20.61	.....	.....

Weber County - Ogden Valley--Continued.

(A-6-1)13ab. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 14.77.

(A-6-2)6aa. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 6.20.

(A-6-2)6ddl. Record begins in September 1932. Measuring point changed to top of casing, 3.13 feet below previous measuring point. Water levels, in feet below measuring point, 1940: Mar. 30, 9.31; Oct. 8, 12.22.

(A-6-2)16badl. State claim 14230. Golden Bingham. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 29.31.

(A-6-2)18acc. Charles Felt. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 15.52.

(A-6-2)21cc. C. D. Shupe. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 15.87.

(A-7-1)20ac. Measurements discontinued.

(A-7-1)29baal. State claim 14564. Elmer Gardner. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 14.35.

(A-7-1)35cb. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 16.80.

(A-7-1)35cd. Record begins in 1932. Water level, in feet below measuring point, 1940: Oct. 8, 16.02.

(A-7-1)36cb. Dry. Measurements discontinued.

Weber County - East Shore area--Continued.

(B-5-2)4cddl. State application 11889. Samuel Peterson. Record begins in 1936. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 2	a 33.3	Apr. 3	a 31.6	Dec. 18	32.8
Mar. 2	34.2	June 22	31.1		

(B-5-2)14cdcl. State claim 5538. Lorenzo Stoker. Record begins in 1937.

Water level, in feet below measuring point, 1940

Feb. 1	2.07	Apr. 3	a 2.49	June 22	3.14
Mar. 2	a 2.17	May 2	a 2.71	Dec. 18	2.76

(B-5-2)16cdd2. C. A. Rundquist. Record begins in 1937. Found flowing prior to all measurements.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Feb. 2	a 3.4	1.9	May 2	a 4.4	1.6
Mar. 2	a 4.1	1.8	June 22	3.75	1.4
Apr. 3	a 4.2	1.5			

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Weber County - East Shore area--Continued.

(B-5-3)12add1. State application 11945. F. V. Simpson. Record begins in 1935. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 2	a 20.4	Apr. 3	a 18.7	June 22	20.3
Mar. 2	a 20.0	May 2	a 21.8	Dec. 18	20.0

(B-5-3)13ddc1. State claim 1298. J. D. Hooper. Record begins in 1937.

Water level, in feet above measuring point, 1940

Feb. 2	a 35.8	Apr. 3	a 36.0	June 22	33.3
Mar. 2	a 36.3	May 2	a 36.2	Dec. 18	34.6

(B-5-3)15dda1. State application 11790. T. W. Read. Record begins in 1936.

Water level, in feet above measuring point, 1940

Feb. 2	a 44.0	Apr. 3	a 45.6	June 22	45.1
Mar. 2	a 44.4	May 2	a 40.2	Dec. 18	44.2

(B-6-1)6dba1. State claim 598. Ogden Pressed Brick & Tile Co. Record begins in 1936. Water levels, in feet above measuring point, 1940: Mar. 1, a/55.5; May 1, a/54.3; June 25, 51.05; Dec. 18, 53.5.

(B-6-1)8acb1. L. W. Winkler and Carl Nielson. Record begins in 1938.

Water level, in feet below measuring point, 1940

Feb. 1	5.33	Apr. 2	a 5.09	June 26	6.14
Mar. 1	a 5.24	May 1	a 5.26	Dec. 19	5.87

(B-6-1)8bdd16. State claim 5438. J. T. Bybee. Record begins in 1937. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Feb. 1	7.4	Apr. 2	a 7.0	June 26	6.4
Mar. 1	a 6.8	May 1	a 7.2	Dec. 19	6.6

(B-6-1)21abb1. State claim 684. Western Irrigation Co. Record begins in 1936.

Water level, in feet below measuring point, 1940

Feb. 1	31.06	Apr. 2	a 30.79	June 26	31.14
Mar. 1	a 30.96	May 1	a 30.89	Dec. 19	31.66

(B-6-1)21add1. Drought Relief Administration.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	43.83	43.77	43.60	43.70	43.53	43.96	44.07	44.21	44.13	44.18	44.39
2	.....	43.83	43.72	43.56	43.61	43.56	43.99	44.09	44.16	44.04	44.14	44.42
3	.....	43.84	43.71	43.59	43.58	43.58	43.96	44.11	44.11	44.08	44.14	44.38
4	.....	43.84	43.74	43.62	43.58	43.52	43.95	44.11	44.09	44.13	44.20	44.38
5	.....	43.91	43.69	43.62	43.67	43.49	43.96	44.10	44.08	44.12	44.20	44.34
6	.....	43.83	43.75	43.64	43.65	43.52	43.97	44.10	44.10	44.24	44.20	44.36
7	.....	43.79	43.72	43.63	43.69	43.46	43.93	44.12	44.14	44.19	44.17	44.35
8	.....	43.87	43.61	43.64	43.71	43.53	43.93	44.10	44.18	44.09	44.15	44.36
9	.....	43.92	43.59	43.63	.....	43.56	43.97	44.05	44.13	44.14	44.10	44.34
10	43.95	43.85	43.55	43.70	43.50	43.58	44.03	44.09	44.12	44.21	44.18	44.35
11	43.98	43.82	43.57	43.73	.....	43.55	44.03	44.09	44.12	44.19	44.20	44.30
12	43.86	43.86	43.72	43.76	.....	43.55	44.02	44.06	44.12	44.17	44.29	44.25
13	43.97	43.85	43.78	43.72	.....	43.56	44.03	44.07	44.12	44.18	44.34	44.38
14	44.03	43.71	43.75	43.61	.....	43.63	44.01	44.10	44.15	44.23	44.34	44.41
15	44.06	43.72	43.70	43.48	.....	43.65	44.00	44.10	44.14	44.22	44.33	44.42
16	44.03	43.87	43.63	43.57	.....	43.66	44.05	44.12	44.15	44.20	44.27	44.38
17	43.96	43.82	43.67	43.70	43.38	43.72	44.05	44.17	44.17	44.22	44.22	44.31
18	43.96	43.76	43.71	43.70	.....	43.77	44.08	44.19	44.15	44.29	44.14	44.37

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Weber County - East Shore area--Continued.

(B-6-1)21addl.--Continued.

Water level, at noon, in feet below measuring point, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
19	43.98	43.85	43.67	43.68	.....	43.80	44.08	44.24	44.20	44.28	44.20	44.46
20	43.98	43.87	43.64	43.72	.....	43.84	44.05	44.21	44.21	44.24	44.22	44.46
21	43.97	43.83	43.64	43.73	.....	43.90	44.06	44.16	44.23	44.22	44.19	44.44
22	43.97	43.73	43.62	43.72	43.44	43.90	44.07	44.15	44.22	44.26	44.31	44.36
23	43.95	43.75	43.64	43.60	43.39	43.95	44.09	44.19	44.21	44.26	44.32	44.28
24	43.92	43.90	43.66	43.62	43.37	43.93	44.08	44.19	44.21	44.23	44.27	44.22
25	43.93	43.75	43.61	43.60	43.34	43.91	44.08	44.21	44.21	44.21	44.22	44.29
26	43.92	43.67	43.60	43.58	43.40	43.90	44.06	44.27	44.17	44.13	44.26	.....
27	43.96	43.70	43.52	43.59	43.44	43.97	44.02	44.25	44.07	44.15	44.29	.....
28	43.99	43.70	43.58	43.63	43.43	43.99	44.07	44.23	44.14	44.23	44.26	44.31
29	43.97	43.66	43.60	43.62	43.42	43.98	44.12	44.24	44.15	44.20	44.28	44.20
30	43.92	.....	43.57	43.69	43.45	43.98	44.07	44.23	44.16	44.22	44.32	44.15
31	43.88	.....	43.55	.....	43.47	.....	44.08	44.24	.....	44.23	.....	44.20

(B-6-1)30bcbl. State application 11894. American Packing and Provision Co. Record begins in 1937. Found flowing prior to all measurements. Measurements discontinued after Dec. 19, 1940.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 2	a 23.3	Apr. 3	a 21.4	June 22	21.3
Mar. 2	a 25.5	May 2	a 20.8	Dec. 19	17.6

(B-6-1)30bcb2. American Packing and Provision Co. Record begins in 1937.

Water level, in feet above measuring point, 1940

Feb. 2	a 4.1	Apr. 3	a 4.2	June 22	5.8
Mar. 2	a 4.9	May 2	a 5.8	Dec. 19	4.9

(B-6-2)1acd2. Measurements discontinued.

(B-6-2)1acd3. G. B. Taylor. Record begins in 1937.

Water level, in feet above measuring point, 1940

Feb. 1	a 12.5	Apr. 2	a 15.5	June 26	13.9
Mar. 1	a 13.0	May 1	a 15.4	Dec. 18	14.7

(B-6-2)8abdl. State claim 2471. West Weber I. D. S. Cemetery. Record begins in 1937.

Water level, in feet above measuring point, 1940

Feb. 1	a 12.3	May 1	a 14.0	Dec. 18	12.3
Mar. 1	a 12.5	June 26	12.2		

(B-6-2)11dadl. State claim 5613. Jerome Wheeler. Record begins in 1937. Found flowing prior to all measurements.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Feb. 1	a 18.4	0.31	May 2	a 20.2	0.28
Mar. 1	a 19.3	0.30	June 26	18.2	0.19
Apr. 2	a 20.5	0.27	Dec. 18	19.2	....

(B-6-2)17accl. (B-6-2)17acdl in Water Supply Paper 886. State claim 695. H. C. Gibson. Record begins in 1935. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Feb. 1	a 15.8	Apr. 2	a 16.5	June 26	13.7
Mar. 1	a 16.5	May 1	a 16.2	Dec. 19	14.8

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Weber County - East Shore area--Continued.

(B-6-2)22dcd. Francis M. Petterson. Record begins in 1937. Elevation of measuring point, 4271.85 feet above sea level.

Water level, in feet below measuring point, 1940

Date	Water level	Date	Water level	Date	Water level
Mar. 1	a 0.68	May 1	a 0.61	Dec. 19	1.62
Apr. 3	a 0.31	June 26	1.54		

(B-6-2)25cccl. State claim 15111. G. E. Stratford. Record begins in 1937.

Water level, in feet above measuring point, 1940

Feb. 2	a 6.9	Apr. 3	a 7.3	June 22	6.5
Mar. 1	a 7.1	May 2	a 7.6	Dec. 18	6.5

(B-6-2)26adal. State claim 1196. Amalgamated Sugar Co. Record begins in 1935. Elevation of measuring point, 4277.31 feet above sea level. Found valve on well open and well flowing prior to all measurements. Water levels, in feet above measuring point, 1940: Apr. 4, 11.2; May 2, a/11.2; June 22, 10.45; Dec. 18, 10.9.

(B-6-2)29ccal. State claim 15063. Measurements discontinued.

(B-6-2)34dbbl. State application 11869. Heber Swarner. Record begins in 1937. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Feb. 2	a 24.7	Apr. 3	a 24.7	June 22	23.95
Mar. 2	a 25.3	May 2	a 25.0	Dec. 18	24.15

(B-6-3)26bbbl. State claim 7505. Mrs. F. G. Kelley. Record begins in 1935. Found flowing prior to all measurements.

Water level, in feet above measuring point, 1940

Feb. 1	a 28.3	Apr. 2	a 30.3	June 26	26.4
Mar. 1	a 29.9	May 1	a 31.0	Dec. 18	28.2

(B-7-1)32aacl. State claim 15083. C. M. Barker. Record begins in 1936. Measurements made by 100-foot altitude gage. Water levels, in feet above measuring point, 1940: Feb. 1, 70.0; Apr. 4, 71.0; June 25, 59.0; Dec. 19, 68.0. Measurements discontinued.

(B-7-1)32adal. State claim 14931. Joseph Folkman. Record begins in 1935.

Water level, in feet above measuring point, 1940

Feb. 1	a 11.4	Apr. 2	a 10.7	June 25	7.3
Mar. 1	a 11.5	May 1	a 11.2	Dec. 19	11.0

(B-7-2)21dc. Annie Maw. Record begins in 1936. Found flowing prior to all measurements. Measuring point changed to top of casing which is 0.25 foot below former measuring point. Water levels, in feet above measuring point, 1940: Apr. 2, a/2.73; May 1, a/2.15; June 26, 1.85; Dec. 18, 2.38.

(B-7-2)26ddbl. State claim 17509. J. W. Randall. Record begins in 1937. Found flowing prior to all measurements. Measurements discontinued after June 26, 1940.

Water level, in feet above measuring point, 1940

Feb. 1	8.9	Apr. 2	a 9.9	June 26	8.75
Mar. 1	a 8.9	May 1	a 9.0		

(B-7-2)32dabl. State claim 15095. Marie Olson (Roy Richardson in Water Supply Paper 886). Record begins in 1937. Elevation of measuring point, 4239.92 feet above sea level.

Water level, in feet above measuring point, 1940

Feb. 1	a 29.9	Apr. 2	a 35.8	June 26	32.3
Mar. 1	a 31.7	May 1	a 35.0	Dec. 18	31.7

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

Weber County - East Shore area--Continued.

(B-7-2)33dca. Measurements discontinued.

(B-7-3)35daal. State claim 5489. Herman Van Brsak. Record begins in 1936. Found flowing prior to all measurements.

Water level, in feet above measuring point, and flow, in gallons per minute, 1940

Date	Water level	Flow	Date	Water level	Flow
Feb. 1	a 8.5	3.1	May 1	a 9.2	3.75
Mar. 1	a 8.9	3.1	June 26	8.9	2.5
Apr. 2	a 9.0	3.0	Dec. 18	9.0	....

a Measurement by Utah State Engineer in cooperation with Works Projects Administration.

WASHINGTON

By G. C. Taylor, Jr. and J. W. Robinson

During 1940, periodic measurements of water level were made in observation wells in connection with 6 cooperative projects in the State of Washington. The purpose and status of each of these projects is described below.

At Bremerton, in Kitsap County, an investigation to determine the availability of ground-water supplies in the vicinity of the city was undertaken in cooperation with the city of Bremerton; the field work on this project was completed during the year. The results of the investigation will be given in a forthcoming report.

In the Tacoma area, Pierce County, the observation-well program was continued and expanded during 1940 in cooperation with the Tacoma Department of Public Utilities. The records of water-level fluctuations prior to 1939 are given in two preliminary reports on the Tacoma area, which have been cited in Water-Supply Paper 886. The records of water-level fluctuations during 1939 and 1940 will be incorporated in a report now in preparation.

A reconnaissance inventory of ground-water resources was begun in the fall of 1940 in the Columbia Basin Project area, which includes parts of Adams, Franklin, and Grant Counties. In connection with this inventory a small network of observation wells has been established and water-level observations which had been started by the Bureau of Reclamation in 1939 are being continued currently by the Geological Survey. The investigation is being made in cooperation with the State Department of Conservation and Development.

Periodic measurements of water levels in the State-wide net of observation wells begun in 1939 were continued through 1940, also in cooperation with the State Department of Conservation and Development. Records of water levels measured during 1940 in this group of observation wells will be given with measurements for 1939 in a separate report as cited in Water-Supply Paper 886.

Spokane County

Spokane Valley

In 1940, the investigation to determine safe yield from the ground-water body underlying the Spokane Valley and the contiguous Rathdrum Prairie in Idaho was continued in reduced scope in cooperation with the State Department of Conservation and Development and in collaboration with the Water Division of the city of Spokane and the Washington Water Power Co. During the year water-level measurements were made by J. W. Robinson, G. C. Giles, and G. C. Taylor, Jr., of the Geological Survey, by A. H. Schafer of the city Water Division and by C. R. Meils and W. E. Johnson of the power company.

At the end of the year there were 19 wells under observation. In 13 of these wells, water levels were measured monthly; at 3 wells, float gages were maintained and water levels observed weekly; and at 3 wells, water-level recorders were in operation throughout the year. During the year a total of 379 measurements of water level was made by tape and float gage, in addition to check measurements made in wells equipped with water-level recorders.

The average of the water levels in 15 wells rose 1.24 feet from the autumn of 1939 to the autumn of 1940. Nevertheless, the water level remained lower than usual throughout the year, probably because of a marked accumulated deficiency in precipitation during 1938 and 1939.

In the 15 observation wells the average of the means between the lowest and highest water levels of 1940 was 1.28 feet below any corresponding average yet recorded. Among the several wells the highest water level observed in 1940 was 2.36 feet below the maximum on record and the lowest water level was only 0.06 foot above the minimum. Two following tables summarize water-level changes in the Spokane Valley in 1940 and during the decade beginning with 1930.

Fluctuations, in feet, of water levels in 15 wells in the Spokane Valley, 1940

Rise of water level from autumn of 1939 to spring of 1940	
Maximum	9.80
Minimum	2.69
Average	7.42
Decline of water level from spring of 1940 to autumn of 1940	
Maximum	10.19
Minimum	1.59
Average	6.89
Net rise in 13 wells from autumn of 1939 to autumn of 1940	
Maximum	1.10
Minimum	.39
Average	.70
Net decline in 2 wells from autumn of 1939 to autumn of 1940	
Maximum	.58
Minimum	.39
Average	.48
Average net change (rise) in 15 wells from autumn of 1939 to autumn of 1940	1.24

Ten-year summary of average water-level fluctuations, in feet, in 10 wells in the Spokane Valley; also of annual precipitation, in inches, at Spokane, Washington, 1930-40

	Ground-water level		Annual precipitation at Spokane during the year preceding water-level measurement		
Year	Annual net rise (+) or decline (-) a/ of water level	Accumulated rise (+) or decline (-) from January 1930	Amount	Excess (+) b/ or deficiency (-)	Accumulated excess or deficiency from 1930
1931	- 0.34	- 0.34	11.84	-4.78	- 4.78
1932	- .01	- .35	13.61	-3.02	- 7.80
1933	+ 1.80	+ 1.45	15.85	- .81	- 8.61
1934	+11.90	+13.35	14.91	-1.71	- 10.32
1935	- 8.13	+ 5.22	13.93	-2.69	- 13.01
1936	- 2.79	+ 2.43	10.51	-6.11	- 19.12
1937	- 1.13	+ 1.30	12.70	-3.96	- 23.08
1938	+ 3.60	+ 4.90	18.90	+2.28	- 20.80
1939	- 2.89	+ 2.01	11.07	-5.55	- 26.35
1940	- 1.23	+ .78	11.47	-5.15	- 31.50

The preceding table does not indicate that the precipitation as recorded at Spokane and ground-water level in the valley fluctuate in a similar manner. The ground-water level of the Spokane Valley is probably more influenced by precipitation conditions in the recharge area to the east in Idaho than by local precipitation in the valley itself. Precipitation data for Coeur d' Alene, representative for the recharge area, are given in the Idaho section of this volume. Throughout the decade precipitation was less than normal at Spokane and the accumulated deficiency

a Based on measurements in January of each year except March 1933 and February 1936.

b Data from records of U. S. Weather Bureau.

was 31.50 inches. During the same ten-year period, however, ground-water storage in the valley increased and decreased repeatedly. Storage increased materially in 1932-33 and again in 1937 with intervening periods with decrease in storage. In January 1940 the water level was 0.78 feet higher on the average than in January 1930, indicating a net gain in ground-water storage during the decade.

Whitman County

The observation-well program in the basin of the South Fork of the Palouse River, in Whitman County, Wash., and Latah County, Idaho, was continued through September 1940 by the Geological Survey in collaboration with the Soil Conservation Service and the Flood Control Coordinating Committee. After September 1940 the Soil Conservation Service continued measurements in the wells on the Soil Erosion Experiment Station farm. Also, the Geological Survey continued quarterly measurements in the three artesian wells at Pullman and in well 23A, at which a water-level recorder had been maintained. At the end of 1940, water-level measurements were being made in 13 water-table wells and 3 artesian wells in Whitman County.

A total of 685 water-level measurements was made during the year by the Soil Conservation Service and the Geological Survey. Until September 30 a water-level recorder was operated at well 23A. The frequency of water-level measurements ranged from weekly to monthly at the wells on the Soil Erosion Experiment Station farm; in other wells the frequency was monthly or about weekly.

In 27 water-table wells in the county the water level was inordinately low, perhaps owing to the rainfall deficiency of 14.27 inches that had accumulated prior to 1940. Despite normal precipitation early in 1940 the highest stage in the wells during late March and April was lower than that of 1939 in 23 of the 27 wells. The lowest stage was below that of 1939 in 22 wells, and was the lowest on record in 17 wells. Two wells went dry. During the autumn, excessive rainfall caused the water level to rise earlier than usual and to recover somewhat from the extremely low stage of late summer. In the three artesian observation wells the water level continued the downward trend of recent years; in one of the three it fell to the lowest stage yet observed. Two tables that follow summarize the fluctuations.

Summary of water-level changes, in feet, in water-table observation wells in Whitman County, 1940

Well	Highest level, spring of 1940		Lowest level, autumn of 1940	
	Rise since autumn of 1939	Net rise (+) or decline (-) from high level of 1939	Decline since spring of 1940	Net rise (+) or decline (-) from low level of 1939
1	3.73	-1.24	4.26	a -0.53
6	....	- .60	....	(b)
11	4.72	- .65	4.46	+ .26
17	6.96	- .47	7.19	a - .23
18	7.15	- .77	6.55	+ .60
19	4.44	-2.07	5.11	- .67
21	1.97	-1.29	3.52	a -1.55
23	5.14	-1.05	7.23	a -2.09
23A	5.03	- .97	....	(b)
35	4.61	- .85	4.87	a - .26
37	3.55	+ .31	5.69	-2.14
38	5.11	-9.28	3.24	+1.87
47	2.88	-2.89	3.64	- .76
51	1.81	- .45	1.13	+ .68
54	2.96	-1.15	3.36	a - .40
Average	4.29	-1.56	4.63	-0.40
3N	2.50	- .01	2.80	a - .30
2N	4.64	- .42	6.74	a -2.10
1N	5.01	-5.35	6.59	a -1.58
1E	.56	-4.85	2.29	a -1.73
3E	5.25	-8.69	7.45	a -2.20
4E	2.26	-3.33	3.19	a - .93
5E	4.06	+1.22	15.18	a -1.05
1S	.53	-4.02	2.40	a -1.87
2S	1.61	-3.22	3.24	a -1.63
3S	1.14	-8.30	2.35	a -1.21
4S	3.44	+ .32	5.22	a -1.78
5S	7.00	+2.70	6.59	+ .41
Average	3.17	-2.83	5.42	-1.33

Summary of water-level changes, in feet, in artesian observation wells in Whitman County, 1940

Well	Highest level, spring of 1940		Lowest level, autumn of 1940	
	Rise since autumn of 1939	Net decline (-) from high level of 1938	Decline since spring of 1940	Net rise (+) or decline (-) from low level of 1939
14/45-4N1	0.87	-0.96	1.70	-0.83
14/45-5B1	1.16	- .92	1.95	- .79
14/45-5D2	1.01	-1.07	1.79	a - .78
Average	1.01	-0.98	1.81	-0.80

During the period of record, 1934-40, the water levels in water-table wells of Whitman County have shown net declines. In 1937, during which precipitation was 3.97 inches greater than normal, the high ground-water stages of spring were slightly higher than in 1936; the spring stages of 1938 were the highest of record. In 1938 and 1939 there was a deficiency

a Declined to lowest level on record. b Dry.

of precipitation amounting to 11.40 inches; this deficiency apparently led to very low ground-water stages in 1940. The decline of the water levels in water-table wells of Whitman County is not thought to have been caused by excessive withdrawal for human use, but to be an effect of deficient precipitation over several years.

In the three artesian observation wells at Pullman the water levels have declined progressively during the period of record. In recent years, withdrawals from the Pullman artesian basin have been moderately heavy but rainfall on the presumptive recharge area has been deficient. At this time it is not possible to estimate whether the decline in water level has been caused by excessive withdrawal, by deficient replenishment, or both.

Two tables that follow summarize, respectively, the fluctuation in rainfall at Pullman, and changes in ground-water levels.

Summary of annual precipitation at Pullman, Wash., 1934-40

Year	1934	1935	1936	1937	1938	1939	1940
Amount, inches	19.58	14.12	14.62	24.46	14.28	15.30	23.05
Deviation from normal	-1.15	-6.61	-5.89	+3.97	-6.21	-5.19	+3.44
Accumulated deviation since 1930	+5.66	- .95	-6.84	-2.87	-9.08	-14.27	-10.83

Summary of average water-level changes, in feet, in observation wells in Whitman County, 1935-40

	1935	1936	1937	1938	1939	1940
Water-table wells, excluding those on the Soil Erosion Experiment Station farm						
Number of wells	10	9-10	10-12	12-13	14	13-15
Net change in high stage of spring	..	-1.10	+0.56	+0.35	-0.50	-1.56
Accumulated net change	..	-1.10	- .54	- .19	- .69	-2.25
Net change in low stage of autumn	+0.26	- .25	+ .16	+ .20	+ .02	- .40
Accumulated net change	+0.26	+ .01	+ .17	+ .37	+ .39	- .01
Water-table wells on the Soil Erosion Experiment Station farm						
Number of wells	12	12	12	12	12	12
Net change in high stage of spring	..	-2.66	+2.03	+0.71	-0.05	-2.83
Accumulated net change	..	-2.66	- .63	+ .08	+ .03	-2.80
Net change in low stage of autumn	..	- .87	+ .28	+ .26	- .73	-1.33
Accumulated net change	..	- .87	- .59	- .33	-1.06	-2.39
Three artesian (non-flowing) wells						
Net change in high yearly stage	..	-1.92	-1.19	+ .39	- .85	- .95
Accumulated net change	..	-1.92	-3.11	-2.72	-3.57	-4.52
Net change in low yearly stage	..	-2.28	- .93	-2.05	+ .73	- .80
Accumulated net change	..	-2.28	-3.21	-5.26	-4.53	-5.33

Spokane County

Spokane Valley

In 1940 the altitude of measuring points and reference bench marks with respect to sea-level datum of 1929 was determined by spirit leveling of those observation wells in the Spokane Valley for which the sea-level datum had been determined only approximately. The following table gives the new altitudes, also altitudes of the local datum planes from which the water levels in wells have been and are referred.

Altitudes of reference bench marks, measuring points, and local datum planes at observation wells in the Spokane Valley (In feet; except as indicated, above sea-level datum of 1929, which is 16.56 feet above Spokane city datum)

Well	Bench mark	Measuring point		Local datum	
		No.	Altitude	Feet above datum of 1929	Feet above preliminary datum
25/42-13B1	1,885.16	1	1,886.37	1,652.97	1,700
25/43-11G1	1,902.53	2	1,902.53	1,783.44	(a)
25/43-11G2	1,902.48	2	1,898.80	1,783.44	(a)
25/43-11G3	1,902.11	2	1,902.09	1,783.44	(a)
25/43-11G4	1,902.04	2	1,901.10	1,783.44	(a)
25/43-11G5	1,902.04	2	1,901.10	1,783.44	(a)
25/43-11G6	1,934.31	1	1,935.78	1,783.44	(a)
25/43-11K1	1,945.37	1	1,937.88	1,783.44	(a)
25/43-14K1	1,928.80	1	1,926.60	1,795.66	1,800
25/43-17D1	1,908.31	2	1,866.82	1,796.36	1,800
		4	1,908.65		
25/44-2B1	2,039.84	1	2,036.80	1,896.54	1,900
25/44-10Q1	1,994.72	1	1,980.18	1,894.93	1,900
25/44-15E1	.....	2	2,052.67	1,895.47	1,900
25/44-19D1	1,966.27	3	1,970.17	1,806.87	1,800
25/44-21J1	2,023.16	5	2,021.78	1,895.86	(a)
25/44-23D1	2,016.93	2	2,020.50	1,900.00	(a)
25/45-10C1	2,023.41	2	2,020.04	1,895.23	1,900
		1	2,055.89		
25/45-16C1	2,057.03	2	2,057.43	1,895.47	1,900
		2	1,957.31		
25/45-18A1	2,036.80	3	2,040.38	1,897.13	1,900
		1	1,937.41		
26/43-19A1	1,933.91	3	1,801.76	1,750.00	(a)
		2	2,036.58		
26/43-34P1	2,036.48	3	1,872.53	1,801.86	1,800
		1	1,998.38		
26/44-32R1	2,002.48	2	1,911.96	1,849.84	1,850

25/42-13B1. Washington Water Power Co. well 90. Empire Ice and Shingle Co. Local datum, 1,700 feet above preliminary sea level datum.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	39.36	May 7	b46.08	Aug. 1	b39.57	Oct. 30	b38.46
Feb. 27	41.90	June 4	b44.56	30	b39.20	Dec. 7	b38.71
Mar. 23	b44.39	14	b42.98	Oct. 7	39.32	31	41.75
Apr. 26	b48.65	July 24	b39.65				

a Final datum established prior to 1940.
b Pump operating in well.

Spokane County--Continued.

25/43-11G1. Owner's well 1. City of Spokane, Water Division. Local datum, 1,800 feet above city datum and 1,783.44 feet above sea-level datum of 1929. Except as indicated by footnote, water levels are from float-gage readings by city Water Division, ordinarily at 8:00 a.m. Water level depressed somewhat by continuous withdrawal from adjacent well.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	89.89	Apr. 8	99.33	July 8	90.20	Oct. 8	89.97
8	90.15	15	100.08	15	89.98	14	90.40
15	90.49	22	99.83	22	89.52	21	90.06
22	91.17	29	99.28	29	89.92	28	89.89
29	91.44	May 6	98.88	Aug. 1	89.97	Nov. 4	89.92
Feb. 5	91.21	7	a98.94	5	89.82	11	90.27
12	94.38	13	98.62	12	89.97	18	90.47
19	93.76	20	97.20	19	89.80	25	90.37
26	93.59	27	95.15	26	90.14	Dec. 2	89.83
Mar. 4	98.25	June 3	93.84	Sept. 2	89.71	9	91.77
11	99.30	10	91.90	9	89.88	9	a91.85
18	98.04	15	a90.86	16	89.91	16	91.00
23	ab97.65	17	90.42	23	89.79	23	90.45
25	97.77	24	90.22	30	89.90	30	95.51
Apr. 1	99.84	July 1	90.10	Oct. 7	a90.33		

25/43-11G2. Owner's well 2. City of Spokane, Water Division. Local datum, 1,800 feet above city datum and 1,783.44 feet above sea-level datum of 1929. Except as indicated by footnote, water levels are from float-gage readings by city Water Division, ordinarily at 8:00 a.m. Water level depressed somewhat by continuous withdrawal from adjacent well.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	90.00	Apr. 8	99.35	July 8	89.98	Oct. 8	89.90
8	90.28	15	100.04	15	89.90	14	90.30
15	90.58	20	99.82	22	89.22	21	90.90
22	91.20	29	99.28	29	89.90	28	89.80
29	91.50	May 6	98.94	Aug. 1	a89.91	Nov. 4	89.89
Feb. 5	91.25	7	a98.96	5	89.72	11	90.19
12	94.45	13	98.62	12	90.00	18	90.40
19	93.88	20	97.28	19	89.74	25	90.32
26	93.75	27	95.12	26	90.12	Dec. 2	89.80
Mar. 4	98.31	June 3	93.89	Sept. 2	89.68	9	91.74
11	99.35	10	92.10	9	89.78	9	a91.84
18	98.05	15	ab90.69	16	89.88	16	91.00
23	ab97.63	17	90.18	23	89.72	23	90.43
25	97.78	24	90.27	30	89.83	30	95.52
Apr. 1	99.88	July 1	90.00	Oct. 7	a90.20		

25/43-11G3. Owner's well 3. City of Spokane, Water Division. Local datum, 1,800 feet above city datum and 1,783.44 feet above sea-level datum of 1929. Except as indicated by footnote, levels are from float-gage readings by city Water Division, ordinarily at 8:00 a.m. Water level depressed somewhat by continuous withdrawal from adjacent well.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	90.09	Apr. 8	99.44	July 8	90.08	Oct. 8	89.99
8	90.36	15	100.11	15	89.96	14	90.41
15	90.66	22	99.89	22	90.50	21	90.08
22	91.31	29	99.34	29	89.96	28	89.91
29	91.60	May 6	99.06	Aug. 1	a90.00	Nov. 4	89.95
Feb. 5	91.35	7	a99.04	5	89.82	11	90.30
12	94.53	13	98.72	12	90.04	18	90.50
19	93.94	20	97.34	19	89.86	25	90.42
26	93.52	27	95.25	26	90.20	Dec. 2	89.89
Mar. 4	98.36	June 3	93.93	Sept. 2	89.76	9	91.84
11	99.42	10	92.01	9	89.92	9	a91.93
18	98.14	15	a90.90	16	89.96	16	91.09
23	ab97.74	17	90.40	23	89.83	23	90.51
25	97.84	24	90.31	30	89.93	30	95.60
Apr. 1	99.66	July 1	90.09	Oct. 7	a90.32		

a Measurement by Geological Survey. b Pump operating in well.

Spokane County--Continued.

25/43-11G4. Owner's well 4. City of Spokane, Water Division. Local datum, 1,800 feet above city datum and 1,783.44 feet above sea level datum of 1929. Water level depressed moderately by continuous withdrawal from this well or adjacent wells, or both.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level
Mar. 23	96.87	June 15	89.04	Oct. 7	89.92
May 7	98.01	Aug. 1	87.99	Dec. 9	90.41

25/43-11G5. Owner's well 5. City of Spokane, Water Division. Local datum, 1,800 feet above city datum and 1,783.44 feet above sea-level datum of 1929. Water level depressed moderately by continuous withdrawal from this well or adjacent wells, or both.

Water level, in feet above a local datum, 1940

Mar. 23	97.55	June 15	88.44	Oct. 7	89.18
May 7	98.14	Aug. 1	88.56	Dec. 9	91.34

25/43-11G6. Owner's "gage well" 1. City of Spokane, Water Division. Local datum, 1,800 feet above city datum and 1,783.44 feet above sea-level datum of 1929. Water level usually depressed somewhat by continuous withdrawal from adjacent wells.

Daily noon water level, in feet above a local datum, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Oct.	Nov.	Dec.
1	91.50	92.63	98.19	100.85	100.60	95.80	91.38	.....	91.74	91.55
2	91.62	92.35	98.52	100.97	100.36	96.02	91.37	.....	91.25	91.15
3	91.45	92.69	99.26	100.94	100.35	95.63	91.43	.....	91.13	91.26
4	91.90	92.76	99.46	101.03	100.50	95.51	91.78	.....	91.77	91.64
5	91.76	92.83	99.68	101.04	100.28	94.55	91.91	.....	91.74	92.57
6	91.77	92.26	99.76	100.81	100.58	94.79	91.63	.....	91.94	92.74
7	91.87	92.41	99.51	100.91	100.39	94.34	91.61	91.61	91.80	92.79
8	91.77	92.49	99.95	100.66	100.52	94.30	91.45	91.99	91.89	93.30
9	91.76	93.66	100.28	100.77	100.00	94.26	91.48	91.87	91.97	93.17
10	91.90	95.46	100.36	100.92	100.03	93.55	91.39	91.95	91.92	93.86
11	91.86	95.33	100.44	100.96	100.03	93.28	91.33	91.87	91.82	93.75
12	91.98	95.64	100.40	101.20	100.20	93.37	91.29	92.08	91.71	93.85
13	91.97	95.74	100.30	101.10	99.93	93.11	91.33	91.87	91.86	93.07
14	92.22	95.58	99.95	101.25	100.20	93.12	91.40	91.71	92.06	92.53
15	92.24	95.68	99.83	101.34	100.02	92.95	91.29	92.03	91.72	92.56
16	92.13	.....	99.60	101.26	99.72	93.07	91.41	92.11	91.76	92.41
17	92.20	.....	99.44	101.45	99.49	92.52	91.43	91.87	91.66	92.64
18	92.29	.....	99.35	101.25	99.22	92.31	91.40	91.96	92.20	92.49
19	92.47	.....	99.25	101.25	99.33	92.41	91.40	91.70	91.57	92.49
20	92.46	.....	99.06	101.07	98.85	92.19	91.48	91.51	91.35	92.51
21	92.37	.....	99.02	101.08	97.11	92.21	91.58	91.85	91.22	92.01
22	92.33	.....	99.13	101.17	97.53	92.16	91.46	91.45	91.33	92.05
23	92.24	.....	98.60	100.90	97.71	92.17	91.43	91.69	91.34	91.88
24	92.50	.....	.....	101.05	97.18	91.97	91.38	91.63	91.09	92.66
25	92.80	.....	.....	100.83	97.26	91.81	91.39	91.32	91.58	94.44
26	92.82	.....	.....	100.84	96.93	91.80	91.75	91.65	91.62	95.11
27	92.89	.....	.....	100.67	96.70	91.69	92.00	91.81	91.74	95.71
28	92.76	96.69	.....	100.72	96.44	91.73	91.58	91.30	91.66	96.58
29	92.82	97.40	.....	100.73	95.68	91.49	91.77	91.39	92.01	96.60
30	92.84	.....	100.48	100.54	94.55	91.55	91.71	91.92	92.25	96.75
31	92.99	.....	100.38	.....	94.78	.....	.....	91.91	.....	96.64

25/43-11K1. Owner's "gage well" 2. City of Spokane, Water Division. Local datum, 1,800 feet above city datum and 1,783.44 feet above sea-level datum of 1929. Water level usually depressed slightly by continuous withdrawal from adjacent wells.

Spokane County--Continued.

25/43-11K1.--Continued.

Daily noon water level, in feet above a local datum, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	92.63	.....	98.68	101.33	101.22	97.14	93.24	93.15	92.90	.....	93.02	92.83
2	92.75	.....	99.14	101.46	101.11	97.11	93.22	93.03	92.78	.....	92.63	92.64
3	92.74	.....	99.59	101.47	101.11	96.96	93.29	93.04	92.96	.....	92.60	92.69
4	92.96	.....	99.87	101.41	101.12	96.86	93.46	93.84	93.07	.....	92.98	92.82
5	92.87	.....	100.07	101.45	101.03	96.26	93.64	92.77	93.05	.....	93.08	93.58
6	92.94	.....	100.15	101.48	101.19	96.29	93.44	92.76	92.81	.....	93.18	93.73
7	92.97	.....	100.15	101.47	101.12	95.66	93.40	92.74	92.78	.....	93.12	93.85
8	92.96	.....	100.37	101.36	101.14	95.79	93.34	92.87	92.77	92.98	93.11	94.14
9	93.02	.....	100.68	101.37	100.94	95.80	93.28	92.85	92.86	93.08	93.21	.....
10	93.02	.....	100.78	101.44	100.89	95.39	93.26	92.86	.....	93.13	93.11	.....
11	93.15	.....	100.86	101.49	100.84	95.21	93.21	92.88	.....	93.13	92.98	.....
12	93.12	.....	100.85	101.30	100.89	95.23	93.10	93.02	.....	93.17	93.04	.....
13	93.17	.....	100.76	101.27	100.90	95.02	93.11	93.03	.....	93.07	93.12	.....
14	93.35	.....	100.63	101.21	100.94	95.00	93.15	93.06	.....	93.30	93.16	.....
15	93.21	.....	100.42	101.16	100.86	94.80	93.08	93.05	.....	93.19	93.11	.....
16	93.22	.....	100.21	101.12	100.74	94.83	93.15	93.02	.....	93.17	93.06	.....
17	93.18	.....	100.05	101.02	100.64	94.49	93.19	93.02	.....	93.10	93.03	.....
18	93.43	.....	99.98	101.07	100.44	94.32	93.22	92.94	.....	93.08	93.30	.....
19	93.52	.....	99.89	101.14	100.26	94.33	93.22	92.92	.....	92.97	92.95	.....
20	93.52	.....	99.84	101.19	100.14	94.23	93.25	93.00	.....	92.68	92.71	.....
21	93.52	.....	99.76	101.22	98.67	94.16	93.29	92.86	.....	92.99	92.72	.....
22	93.59	.....	99.74	101.23	98.89	94.16	93.24	92.83	.....	92.76	92.63	.....
23	93.60	.....	99.65	101.35	99.06	93.99	93.22	92.81	.....	92.95	92.71	.....
24	.....	.....	99.70	101.35	98.64	93.91	93.21	92.95	.....	92.95	92.52	.....
25	.....	.....	99.77	101.45	98.38	93.70	93.21	92.88	.....	92.68	92.85	.....
26	.....	.....	99.89	101.51	98.19	93.72	93.29	93.05	.....	92.94	92.94	.....
27	.....	.....	100.15	101.38	98.09	93.55	93.34	93.16	.....	93.06	93.10	.....
28	.....	97.53	100.40	101.36	97.84	93.52	93.06	93.03	.....	92.66	92.97	.....
29	.....	98.07	100.72	101.34	97.31	93.36	93.25	93.03	.....	92.65	92.24	97.21
30	.....	.....	100.91	101.28	96.44	93.26	93.14	93.00	.....	93.07	92.36	97.26
31	.....	.....	101.02	.....	96.32	.....	93.03	93.01	.....	93.08	.....	97.28

25/43-14K1. Washington Water Power Co. well 3. Ohio Match Co. Local datum, 1,800 feet above preliminary sea-level datum.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	a82.78	May 7	90.15	Aug. 1	83.19	Oct. 30	a82.78
Feb. 27	85.24	June 3	87.28	30	83.04	Dec. 9	83.30
Mar. 23	88.72	14	85.31	Oct. 7	a82.59	31	85.72
Apr. 26	a90.52	July 24	83.24				

25/43-17D1. Washington Water Power Co. well 88. New Method Laundry. Local datum, 1,800 feet above preliminary sea-level datum.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	a62.59	May 7	a67.74	Aug. 1	a63.64	Oct. 30	a63.04
Feb. 27	a64.24	June 3	66.10	30	a63.31	Dec. 7	63.06
Mar. 23	66.81	14	65.32	Oct. 7	63.14	31	a64.20
Apr. 24	a67.94	July 24	63.68				

25/44-2B1. Washington Water Power Co. well 49. Trentwood Irrigation District. Local datum, 1,900 feet above preliminary sea-level datum.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	35.31	May 8	a42.89	Aug. 1	a37.88	Oct. 29	a37.13
Feb. 27	37.26	June 3	42.16	30	a37.64	Dec. 9	36.51
Mar. 23	41.14	14	a40.67	Oct. 7	36.78	30	a37.83
Apr. 24	a43.14	July 25	a38.06				

a Pump operating in well.

Spokane County--Continued.

25/44-15E1. Washington Water Power Co. well 15. Modern Electric Water Co. well 5. Local datum, 1,900 feet above preliminary sea-level datum. One or more of three pumps operating in well at time of each water-level measurement.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	20.26	May 7	27.67	July 31	18.91	Oct. 29	21.00
Feb. 27	22.20	June 3	26.65	Aug. 29	16.90	Dec. 9	20.62
Mar. 24	25.68	14	22.75	Oct. 5	21.22	31	22.00
Apr. 24	28.02	July 24	18.05				

25/44-19D1. Washington Water Power Co. well 5. Edgecliff Sanitarium. Local datum, 1,800 feet above preliminary sea-level datum.

Water level, in feet above a local datum, 1940

Jan. 18	81.28	May 7	89.23	Aug. 1	83.05	Oct. 30	a81.50
Feb. 27	83.25	June 3	a86.96	30	81.98	Dec. 9	82.24
Mar. 24	87.46	14	a85.34	Oct. 8	82.20	31	83.30
Apr. 26	88.90	July 24	a82.26				

25/44-21J1. Washington Water Power Co. well 17. Modern Electric Water Co. well 3. Local datum, 1,900 feet above preliminary sea-level datum and 1,895.86 feet above sea-level datum of 1929.

Water level, in feet above a local datum, 1940

Jan. 18	21.72	May 7	29.34	July 31	a19.52	Oct.29	22.69
Feb. 27	23.17	June 3	a23.62	Aug. 29	a18.67	Dec. 9	22.12
Mar. 22	26.73	14	a22.40	Oct. 7	22.78	31	23.07
Apr. 24	29.36	July 24	a19.47				

25/44-23D1. Lewis A. Lewis. Local datum, 1,900 feet above sea-level datum of 1929.

Water level, in feet above a local datum, 1940

Jan. 18	23.86	May 7	31.66	July 31	25.79	Oct. 29	24.66
Feb. 27	25.58	June 3	30.05	Aug. 29	25.32	Dec. 9	24.43
Mar. 24	29.22	14	a28.28	Oct. 5	24.81	30	26.00
Apr. 24	31.75	July 24	a25.45				

25/45-10C1. Washington Water Power Co. well 41. W. C. Lielman. Local datum, 1,900 feet above preliminary sea-level datum.

Water level, in feet above a local datum, 1940

Jan. 18	56.31	May 8	65.16	July 31	61.34	Oct. 29	57.71
Feb. 27	59.06	June 4	65.06	Aug. 29	60.69	Dec. 7	57.15
Mar. 23	61.61	14	64.12	Oct. 5	58.76	30	62.13
Apr. 24	64.79	July 24	61.43				

25/45-16C1. Washington Water Power Co. well 38. Inland Empire Paper Co. Local datum, 1,900 feet above preliminary sea-level datum.

Daily noon water level, in feet above a local datum, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	52.08	.....	.....	.....	56.17	54.78	54.21	52.98	51.59	.....
2	.....	.....	52.27	.....	.....	.....	56.09	54.77	54.19	52.92	51.56	.....
3	.....	.....	52.50	.....	.....	.....	56.00	54.75	54.16	52.83	51.52	.....
4	.....	.....	52.73	.....	.....	58.66	55.94	54.71	54.14	52.76	51.46	.....
5	.....	.....	52.95	.....	.....	58.62	55.89	54.68	54.13	52.67	51.42	.....
6	.....	.....	53.16	.....	.....	58.55	55.82	54.65	54.12	52.63	51.41	.....
7	.....	.....	53.36	.....	.....	58.46	55.76	54.60	54.12	52.55	51.40	.....
8	.....	.....	53.54	.....b	58.64	58.35	55.70	54.57	54.10	52.47	51.38	50.93
9	.....	.....	53.72	.....	.....	58.28	55.64	54.53	54.09	52.43	51.36	50.99
10	.....	.....	53.92	.....	.....	58.20	55.58	54.49	54.08	52.39	51.35	51.10

a Pump operating in well.
b Recorder not functioning, miscellaneous measurement.

Spokane County--Continued.

25/45-16C1.--Continued.

Daily noon water level, in feet above a local datum, 1940 (from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	.....	54.08	.....	.....	58.10	55.52	54.46	54.06	52.37	51.33	51.22
12	.....	.....	54.24	.....	.....	58.01	55.45	54.43	54.04	52.34	51.31	51.35
13	.....	.....	54.40	.....	.....	57.91	55.39	54.42	54.03	52.32	51.29	51.40
14	.....	.....	54.52	.....	.....	57.80	55.36	54.41	54.03	52.28	51.27	51.41
15	.....	.....	.....	.....	.....	57.72	.....	54.41	54.02	52.25	51.25	51.41
16	.....	.....	.....	.....	.....	57.62	.....	54.40	54.03	52.23	51.23	51.40
17	.....	.....	.....	.....	.....	57.52	.....	54.39	54.02	52.20	51.20	51.38
18	a50.12	.....	.....	.....	.....	57.42	.....	54.39	53.95	52.16	51.18	51.36
19	.....	.....	.....	.....	.....	57.32	.....	54.36	53.87	52.11	51.16	51.34
20	.....	.....	.....	.....	.....	57.22	.....	54.35	53.79	52.07	51.12	51.32
21	.....	.....	.....	.....	.....	57.13	.....	54.34	53.74	52.02	51.08	51.30
22	.....	.....	.....	.....	.....	57.04	.....	54.31	53.60	51.97	51.04	51.26
23	.....	.....	a55.15	.....	.....	56.94	.....	54.28	53.52	51.92	51.01	51.21
24	.....	.....	.....	a59.76	.....	56.84	.....	54.25	53.44	51.87	50.96	51.19
25	.....	.....	.....	.....	a59.23	56.75	.....	54.25	53.37	51.83	.....	51.25
26	.....	.....	.....	.....	.....	56.65	.....	54.25	53.30	51.79	.....	51.40
27	.....	51.67	.....	.....	.....	56.55	.....	54.24	53.23	51.75	.....	51.55
28	.....	51.77	.....	.....	.....	56.45	.....	54.24	53.18	51.72	.....	51.75
29	.....	51.91	.....	.....	.....	56.36	.....	54.23	53.10	51.67	.....	51.94
30	.....	.....	.....	.....	.....	56.26	.....	54.23	53.06	51.64	.....	52.09
31	.....	.....	.....	.....	.....	.....	b54.78	54.23	.....	51.61	.....	52.25

25/45-18A1. Washington Water Power Co. well 40. O. B. Nilson. Local datum, 1,900 feet above preliminary sea-level datum.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	44.88	May 8	53.84	July 24	49.12	Oct. 29	46.21
Feb. 27	46.41	June 4	52.86	31	49.01	Dec. 10	45.82
Mar. 24	50.12	14	52.05	Aug. 29	48.52	31	47.13
Apr. 24	52.98						

26/43-19A1. County Homes Estates. Local datum, 1,750 feet above sea-level datum of 1929.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	c48.21	May 8	c49.83	July 24	49.71	Oct. 5	c47.12
Feb. 27	c48.21	June 4	49.16	Aug. 1	49.74	Dec. 9	c48.24
Mar. 23	48.56	14	c48.50	30	49.46	31	48.81
Apr. 24	c49.71	July 24	c48.06				

26/43-34P1. Washington Water Power Co. well 80. Great Northern Railway Co. Local datum, 1,800 feet above preliminary sea-level datum. Measurements on June 14 and Dec. 9 by Geological Survey; others by owner with chain gage.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	54.9	Apr. 30	59.7	July 12	57.0	Oct. 12	55.6
12	54.9	May 7	59.7	19	56.7	19	55.7
27	54.9	18	60.9	26	56.4	26	55.7
Feb. 7	55.9	25	60.9	Aug. 5	56.3	Nov. 9	55.7
24	55.9	June 1	60.4	12	56.1	13	55.7
Mar. 7	57.9	13	58.9	17	55.9	Dec. 3	55.7
23	58.9	14	59.17	24	55.9	9	c54.56
29	58.9	22	58.7	Sept. 3	55.9	14	55.9
Apr. 13	59.9	26	58.2	21	55.6	31	56.1
22	59.7	July 3	57.6	Oct. 5	55.6		

a Recorder not functioning, miscellaneous measurement.
b Interpolated.
c Pump operating in well.

Spokane County--Continued.

26/44-32R1. Washington Water Power Co. well 46. Hutton Settlement. Local datum, 1,850 feet above preliminary sea-level datum.

Water level, in feet above a local datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	51.14	May 8	57.91	Aug. 1	54.50	Oct. 30	51.99
Feb. 27	54.06	June 4	a56.84	30	53.69	Dec. 9	51.18
Mar. 23	a52.91	14	56.96	Oct. 5	52.75	31	52.00
Apr. 26	57.94	July 24	a52.34				

Whitman County

Palouse River area

Water levels in water-table wells b/

1. T. Griffin.

Water level, in feet above an assumed datum, 1940

Jan. 8	8.71	Mar. 5	11.48	Apr. 30	11.42	June 19	10.27
15	8.60	12	11.72	May 7	10.98	25	10.15
22	8.60	19	11.40	14	10.75	July 1	10.02
29	9.34	26	11.35	21	10.59	19	8.53
Feb. 6	9.78	Apr. 3	12.00	30	10.45	Aug. 21	7.85
13	10.00	9	11.82	June 5	10.39	Sept.17	7.74
22	10.30	16	11.53	10	10.35	Oct. 4	8.57
27	10.83	23	11.30				

2. A. Luck. Discontinued in 1940.

6. Mr. O'Donnel.

Water level, in feet above an assumed datum, 1940

Jan. 6	(c)	Mar. 7	8.23	Apr. 30	7.93	June 19	3.89
15	(c)	12	8.92	May 6	7.22	25	3.48
20	(c)	19	9.39	13	6.34	July 1	3.19
30	(c)	26	9.22	21	5.65	19	2.76
Feb. 6	(c)	Apr. 3	10.32	30	5.06	Aug. 19	(c)
13	(c)	9	10.47	June 5	4.47	Sept.17	(c)
20	(c)	16	10.11	10	4.22	Oct. 1	(c)
27	5.84	23	8.57				

11. Federal Geological Survey.

Water level, in feet above an assumed datum, 1940

Jan. 6	7.32	Mar. 5	10.49	Apr. 30	10.22	June 19	9.00
15	7.49	12	10.48	May 6	10.10	25	8.64
20	7.43	19	10.29	13	9.86	July 1	8.24
30	7.77	26	10.57	21	9.63	19	7.16
Feb. 6	9.21	Apr. 3	10.69	30	9.49	Aug. 19	6.26
13	9.19	9	10.72	June 5	9.32	Sept.17	6.30
20	9.78	16	10.35	10	9.24	Oct. 1	6.63
27	10.48	23	10.16				

17. Northern Pacific Railway.

Water level, in feet above an assumed datum, 1940

Jan. 8	8.95	Mar. 5	15.63	Apr. 30	10.75	June 19	9.64
15	8.98	12	15.65	May 7	10.53	25	9.54
22	8.98	19	15.62	14	10.27	July 1	9.41
29	9.05	26	12.04	21	10.10	19	9.18
Feb. 6	9.17	Apr. 3	12.54	30	9.91	Aug. 21	8.74
13	9.41	9	14.60	June 5	9.87	Sept.17	8.46
22	9.60	16	13.70	10	9.69	Oct. 4	8.80
27	10.44	23	13.37				

a Pump operating in well.
b Water-level measurements discontinued after Oct. 4, 1940.
c Dry.

Whitman County--Continued.

18. F. Druffel.

Water level, in feet above an assumed datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	7.48	Apr. 16	12.82	July 19	7.89	Sept.17	6.27
Feb. 17	9.46	May 17	12.18	Aug. 21	6.59	Oct. 4	7.30
Mar. 15	12.02	June 19	10.33				

19. A. Shriver.

Water level, in feet above an assumed datum, 1940

Jan. 16	8.62	Apr. 19	12.66	July 20	8.90	Sept.18	7.69
Feb. 16	9.55	May 17	11.57	Aug. 22	7.29	Oct. 7	7.58
Mar. 21	12.69	June 19	10.02				

20A. W. Benedict. Discontinued in 1940.

21. J. E. Wood.

Water level, in feet above an assumed datum, 1940

Jan. 6	8.05	Mar. 5	9.03	Apr. 30	9.22	June 18	8.40
15	8.00	12	9.05	May 7	9.13	25	8.29
22	8.17	19	9.58	14	9.01	July 1	8.16
29	8.25	26	9.47	21	8.83	18	6.93
Feb. 6	8.26	Apr. 3	9.63	30	8.74	Aug. 21	6.18
13	8.30	9	9.70	June 5	8.66	Sept.17	8.32
20	8.41	16	9.47	10	8.56	Oct. 2	11.52
27	8.49	23	9.20				

23. Federal Geological Survey.

Water level, in feet above an assumed datum, 1940

Jan. 6	8.63	Mar. 2	9.76	Apr. 30	11.48	June 17	9.35
13	8.72	9	10.20	May 6	11.36	24	8.91
20	8.79	16	12.11	13	11.08	July 1	8.65
27	8.89	23	11.97	20	10.75	20	7.32
Feb. 3	9.03	29	12.12	27	10.30	Aug. 19	5.67
10	9.25	Apr. 5	12.18	June 3	9.93	Sept.16	4.95
17	9.38	19	11.84	10	9.66	30	5.79
24	9.51	23	10.68				

23A.

Daily noon water level, in feet above an assumed datum, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.
1	9.27	9.63	10.42	12.95	12.29	10.86	9.52	8.07	7.02	.....	.....
2	9.28	9.65	10.48	13.07	12.28	10.84	9.46	8.04	7.02	.....	.....
3	9.30	9.67	10.52	13.07	12.25	10.81	9.41	8.02	(a)	b7.02	.....
4	9.31	9.68	10.57	13.02	12.22	10.76	9.33	8.00	....	.....	.....
5	9.32	9.69	10.61	12.98	12.19	10.71	9.26	7.97	....	.....	.....
6	9.33	9.74	10.64	12.99	12.15	10.65	9.19	7.95	....	.....	.....
7	9.34	9.76	10.67	12.98	12.12	10.61	9.12	7.92	....	.....	.....
8	9.35	9.79	10.69	12.93	12.08	10.57	9.05	7.89	....	.....	.....
9	9.36	9.82	10.83	12.90	12.05	10.53	8.99	7.86	....	.....	.....
10	9.37	9.86	10.98	13.02	12.02	10.49	8.92	7.83	....	.....	.....
11	9.38	9.89	11.17	13.03	11.96	10.46	8.85	7.79	....	.....	.....
12	9.40	9.92	11.53	13.00	11.92	10.41	8.77	7.76	....	.....	.....
13	9.40	9.96	12.30	12.95	11.88	10.34	8.70	7.74	....	.....	.....
14	9.40	10.00	12.69	12.91	11.86	10.28	8.65	7.70	....	.....	.....
15	9.41	10.02	12.87	12.86	11.81	10.24	8.59	7.66	....	.....	.....
16	9.42	10.04	12.92	12.78	11.77	10.20	8.54	7.62	....	.....	.....
17	9.43	10.07	12.91	12.73	11.73	10.16	8.50	7.59	....	.....	.....
18	9.44	10.08	12.92	12.68	11.69	10.12	8.46	7.55	....	.....	.....
19	9.45	10.10	12.91	12.65	11.65	10.08	8.42	7.51	....	.....	.....
20	9.46	10.13	12.89	12.59	11.60	10.02	8.38	7.48	....	.....	.....

a Well dry Sept. 3-30, 1940.
b Tape measurement by Geological Survey.

Whitman County--Continued.

23A.--Continued.

Daily noon water level, in feet above an assumed datum, 1940
(from recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.
21	9.47	10.16	12.86	12.54	11.56	9.98	8.34	7.44	.....	.....	.....
22	9.48	10.20	12.83	12.51	11.50	9.94	8.31	7.41	.....	.....	.....
23	9.49	10.21	12.80	12.47	11.43	9.90	8.28	7.37	.....	.....	.....
24	9.50	10.22	12.76	12.45	11.36	9.86	8.24	7.33	.....	.....	.....
25	9.52	10.24	12.75	12.45	11.29	9.80	8.21	7.29	.....	.....	.....
26	9.54	10.26	12.85	12.42	11.22	9.74	8.18	7.25	.....	.....	.....
27	9.56	10.30	12.91	12.40	11.16	9.71	8.17	7.20	.....	.....	.....
28	9.57	10.34	12.92	12.37	11.12	9.66	8.16	7.15	.....	.....	b8.61
29	9.58	10.38	12.91	12.34	11.06	9.61	8.14	7.09	.....	.....	.....
30	9.59	.....	12.88	12.31	10.98	9.56	8.12	7.05	(a)	.....	.....
31	9.60	.....	12.85	.....	10.92	....	8.10	7.03	.....	.....	.....

35. R. Barr.

Water level, in feet above an assumed datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	8.42	Apr. 18	11.62	July 20	7.67	Sept.16	6.75
Feb. 20	9.65	May 18	11.16	Aug. 21	6.88	Oct. 1	6.99
Mar. 21	11.12	June 19	10.93				

37. Federal Geological Survey.

Water level, in feet above an assumed datum, 1940

Jan. 15	14.82	Apr. 16	17.17	July 19	14.21	Sept.16	11.95
Feb. 20	16.52	May 17	16.33	Aug. 19	12.95	Oct. 1	12.05
Mar. 15	17.64	June 19	15.45				

38. W. Boyd.

Water level, in feet above an assumed datum, 1940

Jan. 6	2.91	Mar. 5	2.90	Apr. 30	5.33	June 19	5.22
15	2.89	12	1.05	May 6	5.63	25	4.66
20	2.94	19	3.24	13	5.90	July 1	3.61
30	2.91	26	3.08	21	6.15	19	3.17
Feb. 6	2.97	Apr. 3	3.48	30	6.16	Aug. 19	2.92
13	2.93	9	4.05	June 5	6.03	Sept.17	4.04
20	2.89	16	4.45	10	5.95	Oct. 1	3.62
27	2.94	23	4.78				

47. Whelan School District.

Water level, in feet above an assumed datum, 1940

Jan. 6	9.95	Mar. 5	12.22	Apr. 30	12.46	June 19	10.79
15	9.90	12	12.76	May 6	12.28	25	10.65
22	9.91	19	12.62	13	12.07	July 1	10.40
30	9.89	26	12.41	21	11.76	19	10.19
Feb. 6	10.16	Apr. 3	12.60	30	11.43	Aug. 19	9.69
13	10.13	9	12.70	June 5	11.23	Sept.17	9.18
20	10.41	16	12.77	10	11.10	Oct. 1	9.13
27	11.07	23	12.54				

51. G. Anderson.

Water level, in feet above an assumed datum, 1940

Jan. 16	10.28	Apr. 20	10.08	July 19	9.80	Sept.18	9.56
Feb. 16	10.12	May 17	9.86	Aug. 22	10.69	Oct. 7	10.57
Mar. 21	10.05	June 19	9.95				

a Recorder removed and regular water-level measurements discontinued.

b Tape measurement by Geological Survey.

Whitman County--Continued.

54. W. Boyd.

Water level, in feet above an assumed datum, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	6.08	Apr. 16	8.86	July 19	6.44	Sept.17	5.50
Feb. 20	6.41	May 17	8.11	Aug. 19	5.70	Oct. 1	5.66
Mar. 15	7.75	June 19	7.46				

Wells on the Soil Erosion Experiment Station farm at Pullman, Washington

Water levels, in feet above sea level minus 2000, 1940

Date	3N	2N	1N	1E	3E	4E	5E
Jan. 6	497.99	504.74	511.36	512.76	524.95	528.51	527.22
13	497.96	504.64	511.34	512.77	524.85	528.51	526.18
20	497.90	504.56	511.38	512.40	524.72	527.09	526.11
27	497.91	504.52	511.24	512.42	524.79	527.15	527.12
Feb. 3	497.89	505.01	511.51	512.58	524.86	528.24	527.17
10	497.91	506.08	511.58	512.55	524.82	528.20	527.21
17	497.97	506.68	511.43	512.46	524.93	528.11	527.15
24	498.07	507.29	511.71	512.36	525.16	528.10	527.48
Mar. 4	498.50	508.70	512.74	512.46	527.67	528.43	540.71
9	498.86	509.05	516.25	512.51	529.03	528.86	541.24
16	499.38	508.24	514.24	512.62	529.97	529.31	540.05
23	499.38	507.56	512.82	512.78	529.61	529.35	534.63
30	500.00	507.74	512.67	512.76	529.02	529.32	529.89
Apr. 6	500.10	507.92	514.43	512.76	528.91	528.97	529.79
13	500.24	507.67	514.28	512.85	528.98	529.03	530.17
27	500.39	506.50	512.24	512.92	527.94	529.18	527.52
May 11	500.33	505.84	513.01	512.77	526.53	528.92	527.28
18	500.29	505.64	511.87	512.73	525.80	528.74	527.17
25	500.24	505.61	511.78	512.61	525.71	528.85	527.35
June 1	500.16	505.35	511.69	512.59	525.46	529.40	527.07
8	500.06	505.11	511.55	512.47	525.23	528.47	527.02
15	500.04	504.90	511.57	512.49	525.15	528.48	527.05
22	500.10	504.88	511.47	512.35	524.97	528.35	526.94
29	499.83	504.36	511.38	512.33	524.84	528.20	526.92
July 6	498.71	504.09	511.24	511.93	524.70	528.17	525.84
Aug. 3	498.35	502.68	510.08	511.13	523.33	526.88	525.78
Sept. 7	498.08	502.73	510.00	511.38	523.09	526.78	525.49
Oct. 5	498.26	502.64	509.83	510.88	522.84	526.45	525.32
Nov. 22	497.60	502.31	509.66	510.64	522.52	526.16	525.12
Dec. 7	497.72	502.34	509.72	510.66	522.73	526.22	525.16
21	497.59	502.35	509.69	510.64	523.04	526.23	525.06
28	497.70	502.61	509.66	510.63	523.33	526.68	525.12

Water levels, in feet above sea level minus 2000, 1940

Date	1S	2S	3S	4S	5S
Jan. 6	510.79	508.86	503.34	498.13	499.43
13	510.77	508.80	503.30	497.93	499.39
20	510.76	508.76	503.20	497.49	499.33
27	510.65	508.80	503.26	497.37	499.32
Feb. 3	510.86	508.93	503.37	498.18	499.56
10	510.89	508.90	503.39	498.89	499.88
17	510.78	508.82	503.39	498.93	499.99
24	510.78	508.80	503.34	498.57	500.13
Mar. 4	510.86	508.86	503.45	498.65	503.26
9	511.03	509.09	503.58	498.75	504.62
16	511.32	509.35	503.70	499.47	505.10
23	511.40	509.39	503.80	497.93	505.03
30	511.43	509.41	503.85	498.31	505.37
Apr. 6	511.32	509.24	503.68	498.44	506.10
13	511.50	510.41	504.34	498.06	506.32

Whitman County--Continued.

Water levels, in feet above sea level minus 2000, 1940

Date	1S	2S	3S	4S	5S
Apr. 27	511.51	509.49	503.47	497.82	504.83
May 11	511.27	509.31	503.80	497.35	504.21
18	511.35	509.17	503.65	497.18	504.16
25	511.13	509.20	503.32	497.28	504.28
June 1	510.99	509.02	503.24	497.26	504.00
8	510.85	508.94	503.20	497.21	503.79
15	510.89	508.93	503.24	497.18	503.23
22	510.73	508.83	503.20	497.07	502.42
29	510.72	508.77	503.20	496.92	502.90
July 6	510.60	508.69	503.15	496.70	503.15
Aug. 3	509.44	507.50	502.15	495.09	501.48
Sept. 7	509.37	507.43	502.18	494.25	499.90
Oct. 5	509.19	507.29	502.12	495.46	499.73
Nov. 22	509.03	507.17	502.07	496.90	499.85
Dec. 7	509.07	507.17	501.99	497.34	501.10
21	509.05	507.39	502.00	497.91	501.07
28	509.03	507.53	502.00	497.99	501.65

Water levels in wells that tap confined (artesian) water

14/45-4N1. J. T. Graham, Pullman, Washington.

Water level, in feet above mean sea level minus 2000, 1940

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	340.15	Mar. 19	a340.09	May 17	a339.99	Aug. 19	338.90
20	a339.93	Apr. 3	340.47	30	339.94	Sept.16	339.19
Feb. 6	a340.45	16	340.26	June 10	339.94	Oct. 3	ab336.94
22	340.60	30	340.20	25	a339.57	7	338.99
Mar. 5	340.07	May 16	b340.17	July 19	339.10	Dec. 28	b339.52

14/45-5B1. Washington State College well 1, Pullman, Washington.

Water level, in feet above mean sea level minus 2000, 1940

Jan. 6	338.41	Mar. 19	338.46	May 17	338.40	Aug. 19	337.10
22	338.47	Apr. 3	338.93	30	338.37	Sept.16	337.63
Feb. 6	339.05	16	338.56	June 10	338.12	Oct. 3	b337.52
22	339.03	30	338.60	25	a335.63	7	337.39
Mar. 5	338.33	May 16	b338.43	July 19	337.28	Dec. 28	337.95

14/45-5D2. Standard Lumber Co., Pullman, Washington.

Water level, in feet above mean sea level minus 2000, 1940

Jan. 6	338.45	Mar. 19	a338.42	May 18	a338.35	Aug. 19	a337.19
22	a338.50	Apr. 3	a338.83	30	a338.28	Sept.16	a337.43
Feb. 6	338.98	16	338.58	June 10	a338.23	Oct. 3	ab337.51
22	338.95	30	338.58	25	a337.78	7	a337.53
Mar. 5	a338.27	May 16	b338.53	July 19	a337.31	Dec. 28	b337.94

a Pump operating in well.
b Measurement by Geological Survey.

LARAMIE COUNTY

Egbert-Pine Bluffs Area

By T. W. Robinson

An investigation of the ground-water resources of the Egbert-Pine Bluffs area, Laramie County, Wyo., was begun in 1940 by the Federal Geological Survey and the State Planning and Water Conservation Board. Work on the project was started in November by the writer and N. B. Bennett, Jr., engineer for the Board.

The Egbert-Pine Bluffs area lies largely in the basin of Lodgepole Creek between Egbert and Pine Bluffs in parts of Townships 12 to 15 North and Ranges 60 to 62 West. It is drained by Lodgepole Creek and two tributaries, Muddy Creek on the south and Spring Creek on the north. Lodgepole Creek from Egbert to its confluence with Muddy Creek, near Pine Bluffs, is an ephemeral stream, flowing only in the spring due to melting snow and after heavy rains. Muddy Creek is intermittent in its upper reach, and ephemeral in its lower, whereas Spring Creek is perennial throughout its short length.

Throughout most of the area, the Brule formation of Tertiary Age is at or near the surface. On the west side of Lodgepole Valley, in the vicinity of Egbert, the Brule formation is overlain by the Harrison formation and on the east side, in the vicinity of Pine Bluffs, the Brule formation is overlain by the Ogallala formation. In the valleys of Lodgepole, Muddy and Spring Creeks, the Brule formation is overlain by recent alluvium.

All the irrigation wells and most of the domestic and stock wells in the area derive their water from the Brule formation. A few shallow domestic and stock wells, however, obtain water from the alluvium. The producing zone of the Brule is the weathered upper part, which in most places is less than 100 feet thick. In this upper part of the formation joints, cracks, and crevices occur that yield large supplies of water to wells. The weathering of the formation, however, is not uniform throughout the area and there is considerable variation in the capacity of individual wells.

In November 1940, shortly after the investigation was begun, the writer measured the depths to water level in 29 wells, situated from 1 to 3 miles apart, and installed continuous water-level recorders on 2 of the wells. It is planned to make measurements of water level in all the observation wells at least once a month. About 60 individual measurements of water level were made by the end of 1940.

Measurements of water levels in wells were first made in the area by Meinzer [1/] in September 1915 in connection with a study of the use of ground water for irrigation in the Lodgepole Valley of Wyoming and Nebraska. Two wells (4 and 5) measured by Meinzer were remeasured in November 1940. A comparison of the water levels shows that in September 1915 the water level in well 4 was 23 feet below the surface, whereas in November 1940 it was 24.3 feet, and the water level in well 5 was 28 feet below the surface in September 1915 and about 30 feet in November 1940.

In 1936, Knight and Morgan, of the Geological Survey of Wyoming, made studies and later published a brief report [2/] on the geology and hydrology of the area. No actual measurements [3/] of water levels were made during these studies, but many reported water levels are given in the report.

Records for the observation wells are listed on the following pages. All water levels are expressed in feet below the measuring points.

1. W. T. Young, Jr. NE¼NE¼ sec. 31, T. 13 N., R. 60 W. Bored irrigation well, diameter 20 inches, depth about 100 feet. Measuring point, top of galvanized iron casing, 1.0 foot above land surface. West well of a line of wells of similar construction, spaced 4 feet apart. The wells are interconnected in the producing formation by inclined drill holes. East well is equipped with a turbine pump. Water levels in all the wells are affected by pumping. Water levels, in feet below measuring point, 1940: Nov. 13, 39.55; Dec. 23, 40.47. (Pump shut down 3 minutes prior to measurement).

2. C. E. Kaser. NW¼NW¼ sec. 21, T. 14 N., R. 61 W. Unused drilled well, diameter 18 inches, depth 97 feet. Measuring point, top of casing, level with land surface. Water-level recorder maintained on well since Nov. 27, 1940. Water levels, in feet below measuring point, 1940: Nov. 13, 45.11; Nov. 27, 45.10; Dec. 17, 45.08.

1/ Meinzer, O. E., Ground water for irrigation in Lodgepole Valley, Wyoming and Nebraska: U. S. Geol. Survey Water-Supply Paper 425-B, pp. 48-49, 54, 56-57, 1919.

2/ Knight, S. H. and Morgan, A. M., Report on the underground water possibilities of the Egbert-Pine Bluff Region: Geol. Survey of Wyoming mimeographed report, 1936.

3/ Morgan, A. M., Personal communication, 1940

3. C. E. Kaser. SW¼SW¼ sec. 12, T. 14 N., R. 62 W. Unused drilled well, diameter 8 inches. Measuring point, top of casing, 0.2 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 13, 5.01; Dec. 23, 5.15.

4. Bert Tucker. SW¼NW¼ sec. 18, T. 14 N., R. 61 W. Domestic drilled well, diameter 5 inches, depth 45 feet. Measuring point, top of concrete block pump curb, 1.0 foot above land surface. Equipped with lift pump and windmill. Water levels, in feet below measuring point, 1940: Nov. 20, 25.29; Dec. 17, 25.38.

5. Union Pacific Railroad. SE¼NE¼ sec. 24, T. 14 N., R. 62 W. Railroad dug well, diameter 16 feet, depth 36.5 feet. Measuring point, top of well platform inside well house, 0.5 foot above land surface. Equipped with lift pump operated by gasoline engine. Water levels, in feet below measuring point, 1940: Nov. 20, 30.58; Dec. 17, 30.62.

6. ----------. NW¼NW¼ sec. 29, T. 14 N., R. 61 W. Unused drilled well, diameter 6 inches, depth 27.5 feet. Measuring point, top of casing at painted arrow, 1.3 feet above land surface. Water levels, in feet below measuring point, 1940: Nov. 20, 26.13; Dec. 23, 26.29.

8. Victor Sundin. NW¼SW¼ sec. 8, T. 15 N., R. 60 W. Bored irrigation well, diameter 20 inches, depth 149 feet. Measuring point, top of iron peg driven at angle in east side of hole, 0.2 foot below land surface. East well of a group of three wells. West well is equipped with turbine pump. Water levels, in feet below measuring point, 1940: Nov. 20, 87.98; Dec. 17, 88.00.

9. ----------. NE¼NE¼ sec. 24, T. 13 N., R. 60 W. Unused drilled well, diameter 5 inches, depth 24.5 feet. Measuring point, top of casing at painted arrow, 0.2 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 20, 13.75; Dec. 17, 13.59.

10. Johnson. SW¼NW¼ sec. 18, T. 13 N., R. 61 W. Unused drilled well, diameter 6 inches, depth 85.5 feet. Measuring point, top of concrete curb and casing, 0.3 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 22, 48.74; Dec. 23, 48.64.

11. ----------. SW¼SE¼ sec. 16, T. 13 N., R. 61 W. Unused drilled well, diameter 8 inches, depth 80.5 feet. Measuring point, top of 3/4-inch iron rod driven at angle into east side of hole, at land surface. Water levels, in feet below measuring point, 1940: Nov. 22, 40.31; Dec. 23, 40.00.

12. Kelley. SW¼SW¼ sec. 12, T. 13 N., R. 61 W. Bored irrigation well, diameter 20 inches, depth 57.5 feet. Measuring point, top of galvanized iron casing, 0.3 foot above land surface. South well of a line of wells of similar construction. North well is equipped with turbine pump. Water levels, in feet below measuring point, 1940: Nov. 22, 5.35; Dec. 17, 4.47.

13. Mrs. Ellison. SW¼SE¼ sec. 10, T. 14 N., R. 60 W. Irrigation well, diameter 24 inches, depth 92 feet. Measuring point, top of 4 by 6-inch timber pump support at USGS copper bench mark, 0.4 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 22, 17.84; Dec. 17, 17.70.

14. J. D. Wasson. NW¼SE¼ sec. 5, T. 13 N., R. 61 W. Unused drilled well, diameter 6⅝ inches, depth 72 feet. Measuring point, top of casing at east side, 0.5 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 24, 9.87; Dec. 23, 9.55.

15. ----------. NW¼SW¼ sec. 22, T. 13 N., R. 61 W. Unused well, dug 3 feet square, depth 56.5 feet. Measuring point, top of concrete curb, south side at USGS copper bench mark, 1.2 feet above land surface. Water levels, in feet below measuring point, 1940: Nov. 24. 47.10; Dec. 23, 47.05.

16. ----------. NE¼NW¼ sec. 2, T. 12 N., R. 61 W. Unused drilled well, diameter 5 inches, depth 62 feet. Measuring point, top of casing, 0.8 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 24, 55.46; Dec. 23, 55.47.

17. ----------. SW¼NW¼ sec. 2, T. 15 N., R. 60 W. Stock dug well, diameter 3 feet, depth 76 feet. Measuring point, top of plank platform, south side at USGS copper bench mark, 0.8 foot above land surface. Equipped with lift pump and windmill. Water levels, in feet below measuring point, 1940: Nov. 24, 74.10; Dec. 17, 70.56.

18. ----------. NW¼SW¼ sec. 30, T. 15 N., R. 60 W. Unused dug well, diameter 3 feet, depth 48 feet. Measuring point, top of timber over well at USGS copper bench mark, 0.4 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 24, 45.59; Dec. 17, 49.90 (measurement probably inaccurate).

19. H. L. Wisroth. NW¼SW¼ sec. 8, T. 14 N., R. 60 W. Unused dug and drilled well, diameter 4½ feet to 2 feet, depth 100+ feet. Measuring point, top of 6 by 8-inch timber over well at USGS copper bench mark, 0.5 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 24, 12.63; Dec. 17, 11.48.

20. Herbert Campbell. NW¼SW¼ sec. 8, T. 13 N., R. 60 W. Bored irrigation well, diameter about 20 inches, depth 77.5 feet. Measuring point, top of 6 by 6-inch timber pump support, at USGS copper bench mark, 0.4 foot above land surface. Equipped with turbine pump. Water levels, in feet below measuring point, 1940: Nov. 25, 44.71; Dec. 17, 44.79.

21. ----------. NW¼SW¼ sec. 30, T. 14 N., R. 60 W. Unused drilled well, diameter 18 inches, depth 93 feet. Measuring point, top of iron peg driven at angle in east side of hole, level with land surface. Water levels, in feet below measuring point, 1940: Nov. 25, 29.85; Dec. 17, 29.78.

22. ----------. NW¼NW¼ sec. 22, T. 14 N., R. 62 W. Unused drilled well, diameter 4 inches, depth 109.5 feet. Measuring point, top of concrete curb, north side at painted arrow, 0.3 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 26, 98.60 (measurement probably inaccurate); Dec. 17, 95.60.

23. H. R. Eggers. NW¼NE¼ sec. 14, T. 14 N., R. 61 W. Unused drilled well, diameter 4½ inches, depth 75 feet. Measuring point, top of casing at painted arrow, 0.7 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 26, 58.62; Dec. 17, 58.56.

24. Carl Bogie. NE¼SW¼ sec. 2, T. 14 N., R. 61 W. Drilled irrigation well, diameter 25 inches, depth 94 feet. Measuring point, top of timber pump support at USGS copper bench mark, 0.6 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 26, 27.17; Dec. 17, 27.09.

25. ----------. SW¼NW¼ sec. 26, T. 14 N., R. 60 W. Unused drilled well, diameter 32 inches, depth 67 feet. Measuring point, top of iron peg driven at angle into side of hole level with land surface. Water levels, in feet below measuring point, 1940: Nov. 26, 21.19; Dec. 23, 21.09.

26. Elmer Glantz. NW¼NW¼ sec. 28, T. 14 N., R. 60 W. Irrigation well, diameter about 20 inches, depth 96 feet. Measuring point, top of hole in pump base, 0.8 foot above land surface. Equipped with turbine pump operated by 30 horsepower motor. Water levels, in feet below measuring point, 1940: Nov. 28, 25.47; Dec. 17, 25.45.

27. Kelley. SW¼SE¼ sec. 3, T. 13 N., R. 61 W. Drilled irrigation well, diameter 18 inches, depth 58 feet. Measuring point, top of casing, level with land surface. West well of two wells of similar construction. East well is equipped with a turbine pump operated by 15-horsepower motor. Water levels, in feet below measuring point, 1940: Nov. 28, 19.90; Dec. 23, 19.20.

28. ----------. NW¼SE¼ sec. 36, T. 14 N., R. 62 W. Unused drilled well, diameter 6 inches, depth 17 feet. Measuring point, top of concrete floor of back porch of house, 0.8 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 28, 8.73; Dec. 23, 8.47.

29. Odd White. NW¼NE¼ sec. 2, T. 12 N., R. 62 W. Unused well, diameter 6 inches, depth 56.5 feet. Measuring point, top of casing, 0.7 foot above land surface. Water levels, in feet below measuring point, 1940: Nov. 28, 54.44; Dec. 23, 54.36.

30. W. T. Young, Jr. NW¼NE¼ sec. 32, T. 15 N., R. 60 W. Unused well, diameter 22 inches, depth 120 feet. Measuring point, top of casing, level with land surface. Water-level recorder maintained on well since Nov. 29, 1940. Water levels, in feet below measuring point, 1940: Nov. 29, 47.90; Dec. 17, 47.90.