UNITED STATES DEPARTMENT OF THE INTERIOR
J. A. Krug, Secretary

GEOLOGICAL SURVEY
W. E. Wrather, Director

Water-Supply Paper 1020

WATER LEVELS AND ARTESIAN PRESSURE IN OBSERVATION WELLS IN THE UNITED STATES IN 1944

PART 5. NORTHWESTERN STATES

BY

A. N. SAYRE

and others

Prepared in cooperation with the States of
COLORADO, IDAHO, MONTANA, OREGON, UTAH, WASHINGTON
WYOMING, and other agencies

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1947

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.
Price 40 cents

CONTENTS

WATER LEVELS AND ARTESIAN PRESSURE IN OBSERVATION WELLS IN THE UNITED STATES IN 1944

Part 5. NORTHWESTERN STATES

INTRODUCTION

Significance of records of water level and artesian pressure

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

Annual publication of records by Geological Survey

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

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

Year	North-eastern States	South-eastern States	North-central States	South-central States	North-western States	South-western States and Hawaii
1935	777	777	777	777	777	777
1936	817	817	817	817	817	817
1937	840	840	840	840	840	840
1938	845	845	845	845	845	845
1939	886	886	886	886	886	886
1940	906	907	908	909	910	911
1941	936	937	938	939	940	941
1942	944	945	946	947	948	949
1943	986	987	988	989	990	991
1944	1016	1017	1018	1019	1020	1021

Scope of present volume

The present volume covers the northwestern States and gives records of water level and artesian pressure in about 1371 observation wells of the Geological Survey and cooperating agencies in Colorado, Idaho, Montana, Oregon, Utah, Washington, and Wyoming. Of these wells, 44 are equipped with automatic water-stage recorders. For some wells not previously reported complete records of water level are given in this volume, including those of the year before 1944. For wells whose previous records have been published this volume gives only the current records. If a complete description of a well has been published in a previous report, only the well number or the well number and a brief identifying description are given in this report. The numbers in parentheses immediately following a well number are those of the water-supply papers in which earlier records of that well are given and the pages on which they appear. An asterisk indicates that a description of the well is given in the paper whose number is so marked. This report includes about 8427 individual determinations of water level and artesian pressure.

Land-surface datum

Before 1943, in Geological Survey reports, the water levels and artesian pressures for some wells were given in feet above or below the measuring points and for other wells in feet above or below sea level or above or below various assumed datum planes. It had been considered inadvisable to adopt a standard procedure in expressing water levels and artesian heads until after a period of trial with datum planes of different kinds. In 1943, however, it was decided that uniform practice should

be adopted. Accordingly precise datum planes were established approximating the land surface at each well. The water levels and artesian heads for all wells listed in this report are given in reference to land-surface datum planes. If the water levels or artesian heads are referred to land-

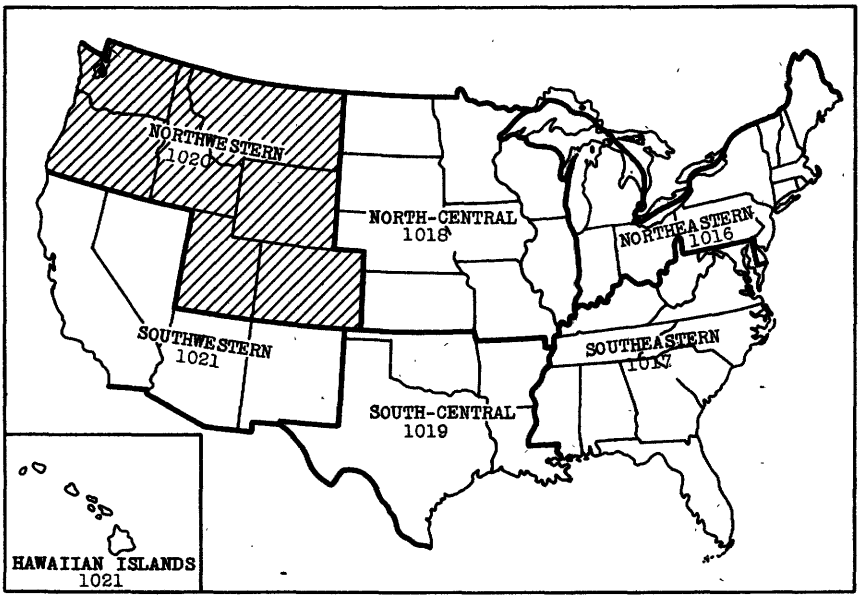

Figure 1.--Outline map of the United States showing sections of the country covered by the six water-supply papers on water levels and artesian pressure in observation wells in 1944. The shaded section represents the part of the country covered by this volume.

surface datum for the first time, a conversion factor is given in the descriptive matter preceding them in order to facilitate comparison of the older and newer records. Wherever the conversion factor is given in earlier reports it is not repeated in this report. New data as to the positions of the measuring point and of the bench marks, in feet above or below land-surface datum plane, will be published in succeeding annual reports.

Network of key observation wells

During 1942 the Geological Survey established a network of key observation wells in order to make available current information on general

ground-water conditions over the country. These wells were selected because the fluctuations of water level in them are believed to be typical, and they represent the general fluctuations that occur in the parts of the country in which the wells are situated. At the end of 1944 the network included about 160 wells in 45 States. About 40 of the wells were established expressly for the network in 1942 and about 20 were established in 1943; the other 100 were selected from wells measured regularly in connection with cooperative ground-water investigations. The coverage of the country is still far from adequate, and it is expected that some wells not now included will be added to the network from time to time.

Changes in ground-water level in 1944 in the northwestern part of the United States

In 1944 the precipitation in 4 of the 7 States in the northwestern section of the country was above normal, but it was below normal in Idaho, Oregon, and Washington. The fluctuations of both water level and artesian pressure in wells depend, however, on many factors besides the amount of precipitation. In certain of the observation wells there are fluctuations cuased by differences in the rate of pumping or artesian flow from other wells in the area, but most of the observation wells are not noticeably affected by pumping or artesian flow. A summary of the changes in ground-water level is given in the chapter for each State.

Acknowledgments

Acknowledgments for effective services in the preparation of this water-supply paper are due Miss Dorothy M. Ireland, Rodney Hart, and Misses Gladys Case, Nauvoo Morris, and Frances Head. Miss Ireland had general charge of the assembling of the several reports and did most of the editing; Mr. Hart prepared the illustrations; and Misses Case, Morris, and Head did the offset typing.

COLORADO

By S. W. Lohman

PROGRAM OF WORK

The observation-well program in Colorado was continued in 1944 by the Geological Survey, United States Department of Interior. Well U. S. 80 was observed monthly by C. M. Ellsworth, the owner; the other three wells were observed monthly by engineers of the Denver office of the division of surface water, through the courtesy of Robert Follansbee, district engineer.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Arapahoe County

U. S. 81 (*948, p. 8; *990, p. 6). Frank Hornbuckle. SE¼SW¼ sec. 33, T. 4 S., R. 68 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	8.75	Apr. 27	7.61	Aug. 31	7.57	Dec. 1	7.74
Feb. 24	8.73	May 31	4.86	Sept.22	7.67	29	8.87
Mar. 31	8.51	July 29	5.85	Nov. 4	8.00		

Garfield County

U. S. 79 (*948, p. 8; *990, p. 6). J. F. Smith. NW¼NE¼ sec. 29, T. 7 S., R. 88 W.

Water level, in feet below land-surface datum, 1944

Jan. 21	36.32	Apr. 26	36.36	June 22	28.42	Aug. 23	28.68
Feb. 17	36.11	May 25	34.30	July 20	27.92	Nov. 10	32.95
Mar. 21	36.55						

Pitkin County

U. S. 79a (*948, p. 8; *990, p. 7). R. O. Sewell. SW¼NW¼ sec. 27, T. 8 S., R. 88 W.

Water level, in feet below land-surface datum, 1944

Jan. 21	32.0	Apr. 26	30.59	June 22	10.61	Aug. 23	14.20
Feb. 17	29.95	May 25	20.45	July 20	12.38	Nov. 10	24.50
Mar. 21	26.99						

Pueblo County

U. S. 80 (*948, p. 8; 990, p. 7). C. M. Ellsworth. NE¼NE¼ sec. 33, T. 20 S., R. 65 W.

Water level, in feet below land-surface datum, 1944

Feb. 1	11.45	Apr. 25	11.90	Aug. 25	11.10	Nov. 25	10.80
26	9.95	May 25	9.85	Sept.25	10.95	Dec. 25	11.72
Mar. 25	11.8	July 25	10.85	Oct. 25	11.40		

IDAHO

RATHDRUM PRAIRIE AREA

By T. E. Eakin

PROGRAM OF WORK

During 1944 water levels were measured in three observation wells on the Rathdrum Prairie of Kootenai County. This observation-well program is coordinated with that in the contiguous Spokane Valley of Washington, for which records are given elsewhere in this volume. A total of 61 measurements of water level was made by tape or float gage in the 3 wells--at each of 2 wells, 8 measurements were made by tape and at the third well the float gage was read about once a week by the owner.

FLUCTUATIONS OF WATER LEVEL

In northern Idaho precipitation in 1944 was again deficient and was only about 76 percent of the average. Snowfall was about 84 percent of average, or 9.4 inches deficient. These deficiencies in precipitation were reflected in moderately low year-end water levels, which in 1944 averaged 5.58 feet below those of 1943 in the three observation wells. Even so, the year-end levels of 1944 were only slightly below the mid-point of the total observed range, as is indicated by the following table.

Highest and lowest recorded water levels in 3 wells on the Rathdrum Prairie, in feet below land-surface datum

Well	Length of record (years)	Highest level	Date	Lowest level	Date
50/5W-1A1	16	186.93	Aug. 7, 1934	212.34	Dec. 8, 1931
51/5W-33D1	17	144.19	May 2, 1934	168.08	Feb. 11, 1932
53/4W-24D1	16	457.50	June 30, 1934	480.14	Jan. 15, 1932

Comparisons of water levels in 3 wells on the Rathdrum Prairie in 1944 and for the period of record

Well	Extreme observed range for period of record (feet)	Water level Dec. 1944 (feet)	Decline since Dec. 1943 (feet)	Above lowest of record in percent of total observed range
50/5W-1A1	25.41	200.04	4.78	48
51/5W-33D1	23.89	158.29	5.50	41
53/4W-24D1	22.64	470.35	6.45	43

WELL-NUMBERING SYSTEM

The principles of the well numbers used in Kootenai County have been described in Water-Supply Paper 845, pp. 404-405, and for this area the numbers show locations with respect to the Boise meridian and base line.

MALAD VALLEY

By W. B. Nelson and P. E. Dennis

PROGRAM OF WORK

Ground-water investigations in Malad Valley were made in cooperation with the Idaho State Reclamation Engineer for the years 1931, 1932, 1943, and 1944. In 1931 Thompson began the first ground-water investigations in the valley[1/]. In 1943 an investigation of the underground leakage from artesian wells in the valley was made by Livingston and McDonald[2/]. The present report includes measurements of water levels, artesian pressure, and flow of wells made during those studies together with measurements made in 1943 and 1944 under a cooperative agreement made with the Idaho State Reclamation Engineer for the purpose of obtaining periodic water levels on selected observation wells in the valley. The continued program of water-level measurements was suggested by Livingston as a source of data for determining the quantity of water which can be withdrawn from the artesian aquifer without seriously depleting the perennial supply and to provide information which may be used as a basis for the proper future development and utilization of this great natural resource.

Measurements of artesian pressure and water-level are being made three or more times a year on about 164 selected wells in the valley. Winter, spring, summer, and fall measurements have now been made on most of these wells and additional information on the seasonal fluctuations of the wells is being obtained from records of one water-stage recorder and one pressure recorder.

1/ Thompson, David G., and Faris, R. W., Preliminary report on water resources of Malad and Curlew Valleys, Oneida County, Idaho: Manuscript report, April 1932.

2/ Livingston, Penn and McDonald, H. R., Underground leakage from artesian wells in Malad Valley, Idaho: Manuscript report, August 1943.

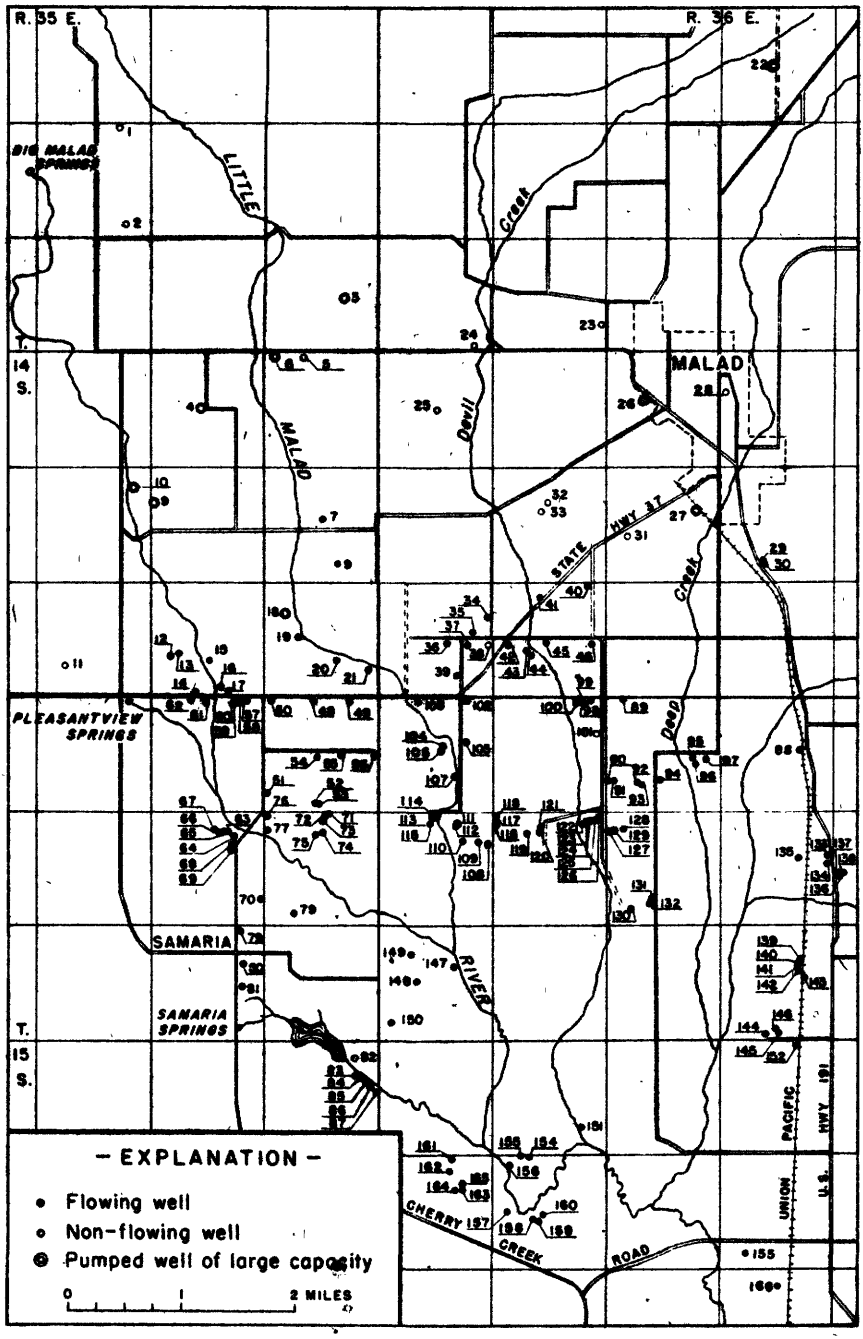

Figure 2.—Map showing location of observation wells in the Malad Valley, Idaho, 1944.

GROUND-WATER DISCHARGE

Ground-water discharge in Malad Valley is by flowing and pumped wells, and natural springs. On the basis of measurements made in July 1943 on 142 of the estimated 150 flowing wells, on the 11 large pumped wells, and on the 4 large springs, Livingston and McDonald estimated that the average annual discharge from each of these sources was as follows: From the flowing wells, 6,000 gallons a minute (9,700 acre-feet a year); from the large pumped wells, 3,500 gallons a minute (5,600 acre-feet a year); and from the springs, 18,500 gallons a minute (30,000 acre-feet a year). However, it is pointed out that not more than 5,500 gallons a minute (8,700 acre-feet a year) of the spring flow can be coming from the fresh-water artesian system which supplies the wells. The total average annual discharge from the fresh-water artesian system is, therefore, approximately 15,000 gallons a minute (24,000 acre-feet a year).

FLUCTUATIONS OF WATER LEVEL

Of the wells measured in 1931-32 and again in 1943-44 some show a decline in water levels, a few show a rise, and some were about the same in the 2 years. Water levels during the intervening years may have varied considerably from these values but available records do not indicate any large and progressive decline in water levels.

A comparison of the October measurements for 1943 and 1944 shows a considerable variation among wells in the amount of their rise or decline. A slight decline in water levels occurred in a majority of the wells observed. In the north-central part of the valley water levels declined during the year in amounts varying from 0.30 foot to 5.29 feet. Along the upper (north) margin of the flowing-well area there was a decline of water levels ranging from 0.50 foot to 4.31 feet in wells less than 200 feet deep. Deeper wells and wells in other parts of the valley showed small rises or declines in water levels.

WELL-NUMBERING SYSTEM

The wells in Oneida County are listed numerically according to numbers assigned by Livingston. He divided the valley into four quadrants by the township and range lines and numbered the wells consecutively from north to south in each quadrant beginning with the northwest quadrant. The locations of the wells are shown in figure 2. Most of the information

for the well descriptions was obtained from the report by Livingston. Many of the flowing wells discharge continuously into pasture-land swamps and as there is some question whether they should be classed as stock or irrigation wells, the use made of the well has been omitted in the description. Artesian wells that were flowing when visited were closed 10 minutes prior to measurement of the pressure head.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Kootenai County - Rathdrum Prairie area

50/5W-1A1 (886, p. 91; *889-B, p. 133; 910, p. 10; 940, p. 8; 948, p. 10; *990, p. 9). Washington Water Power Co. well 96. Post Falls Irrigated District. Taps water in fluvioglacial gravel. Pump operating in well at time of each measurement. Measurements by Geological Survey or Washington Water Power Co.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	196.08	May 17	199.05	Aug. 10	194.55	Oct. 16	197.50
Mar. 28	198.44	July 11	195.40	22	195.01	Dec. 5	200.04

51/5W-33D1 (*886, p. 92; *889-B, p. 135; 910, p. 10; 940, p. 9; 948, p. 11; *990, p. 9). Washington Water Power Co. well 58. Spokane International Railway Co. Taps water in fluvioglacial gravel. Measurements by Geological Survey or Washington Water Power Co.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	153.72	May 17	154.16	Aug. 10	153.16	Oct. 16	154.84
Mar. 28	155.24	July 11	153.30	22	153.32	Dec. 5	156.95

53/4W-24D1 (*886, p. 92; *889-B, pp. 136-137; 910, p. 10; 940, p. 9; 948, p. 11; *990, p. 10). Washington Water Power Co. well 91. C. T. Jurgens. Taps water in fluvioglacial gravel. Except as indicated, water levels are float-gage readings by owner.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	a464.10	Apr. 17	467.18	July 3	a467.78	Oct. 9	a468.65
10	464.20	24	467.30	10	467.75	16	468.74
17	464.28	May 1	466.55	17	467.75	23	468.89
24	464.35	8	a467.58	24	465.74	30	a469.03
31	464.50	15	a467.67	Aug. 22	b467.96	Nov. 6	469.20
Feb. 7	a464.74	22	a467.72	28	468.02	13	a469.46
14	464.89	29	a467.82	Sept. 4	a468.15	20	a469.50
21	465.05	June 5	a467.84	11	a468.24	27	469.60
Mar. 27	b466.55	12	467.86	18	468.32	Dec. 5	b469.82
Apr. 3	a466.85	19	467.85	25	a468.43	18	470.20
10	467.00	26	467.80	Oct. 2	a468.56	26	a470.35

a Pumping.
b Measured by Geological Survey.

Oneida County

1. J. W. Leavitt. NE¼ sec. 10, T. 14 S., R. 35 E. Unused well, diameter 4 inches. Land-surface datum is 4,769.4 feet above mean sea level.

Water level, in feet below land-surface datum, 1931-44

Date	Water level	Date	Water level	Date	Water level
Aug. 25, 1931	118.6	Oct. 29, 1943	118.25	Aug. 17, 1944	118.78
July 20, 1943	118.42	May 2, 1944	118.38	Oct. 21	118.21

2. John Harrison. SE¼ sec. 10, T. 14 S., R. 35 E. Stock and domestic well, diameter 4 inches, depth 168 feet. Land-surface datum is 4,749.6 feet above mean sea level.

Water level, in feet below land-surface datum, 1943-44

Date	Water level	Date	Water level	Date	Water level
Dec. 7, 1931	142.65	Oct. 29, 1943	145.00	Aug. 17, 1944	143.30
July 20, 1943	145.10	May 2, 1944	144.47	Oct. 21	144.22

3. Progressive Pump Co. SE¼ sec. 13, T. 14 S., R. 35 E. Irrigation well, diameter 14 inches, depth 289 feet. Water levels, in feet below land-surface datum: Oct. 29, 1943, 71.05; May 2, 1944, 69.17; Oct. 21, 1944, 76.34. Discharge, in gallons a minute, 1943: July 12, 910.

4. Rotation Crop Growers, Inc. NW¼ sec. 23, T. 14 S., R. 35 E. Irrigation well, diameter 14 inches, depth 251 feet. Water levels, in feet below land-surface datum: Oct. 29, 1943, 86.18; May 2, 1944, 81.63; Oct. 21, 1944, 86.78. Discharge, in gallons a minute, 1943: July 12, 920.

5. J. E. Blaisdell. NW¼ sec. 24, T. 14 S., R. 35 E. Domestic well, diameter 4 inches, depth 170 feet. Land-surface datum is 4,600.6 feet above mean sea level. Water level, in feet below land-surface datum: Oct. 29, 1943, 84.29; May 2, 1944, 78.74; Oct. 21, 1944, 84.59.

6. Progressive Pump Co. NW¼ sec. 24, T. 14 S., R. 35 E. Irrigation well, diameter 14 inches, depth 281 feet. Water level, in feet below land-surface datum, 1943: May 2, 92.65. Discharge, in gallons a minute, 1943: July 12, 600.

8. Jones Estate. SE¼ sec. 25, T. 14 S., R. 35 E. Stock well, diameter 4 inches, depth 359 feet. Land-surface datum is 4,498.1 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: June 26, 1943, 10.6; May 2, 1944, 8.6; Aug. 17, 1944, 7.7; Oct. 21, 1944, 7.4. Flow, in gallons a minute, 1943: June 26, 17.

10. Davis & Ipsen. NE¼ sec. 27, T. 14 S., R. 35 E. Irrigation well, diameter 14 inches, depth 210 feet. Water levels, in feet below land-surface datum: Oct. 29, 1943, 73.8; May 2, 1944, 71.64; Oct. 21, 1944, 76.97. Discharge, in gallons a minute, 1943: July 12, 1,080.

11. J. F. Fredrickson. SW¼ sec. 34, T. 14 S., R. 35 E. Diameter 3 inches, depth 63 feet. Land-surface datum is 4,540 feet above mean sea level. Water level, in feet below land-surface datum, 1944: July 21, 44.72.

12. Edward Hughes. SW¼ sec. 35, T. 14 S., R. 35 E. Diameter 3 inches, depth 360 feet. Land-surface datum is 4,494.0 feet above mean sea level. Water levels, in feet above land-surface datum: July 13, 1943, 24.5; Oct. 26, 35.1; May 3, 1944, 36.0; Oct. 22, 1944, 35.2. Flow, in gallons a minute, 1943: July 13, 27; Oct. 26, 48.

13. Thomas Hughes. SW¼ sec. 35, T. 14 S., R. 35 E. Diameter 3 inches, depth 360 feet. Land-surface datum is 4,492.5 feet above mean sea level. Well flowing prior to measurements on July 13, 1943, and May 3, 1944. Water levels, in feet above land-surface datum: July 13, 1943, 20.7; Oct. 26, 23.9; May 3, 1944, 26.5; Oct. 22, 1944, 24.5.

14. Pleasant View School. SW¼ sec. 35, T. 14 S., R. 35 E. Domestic well, diameter 3 inches. Land-surface datum is 4,484.1 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 13, 1943, 1.7; Oct. 26, 1943, 5.6, well leaked during measurement; water flowed upward around outside of casing; May 2, 1944, 10.8. Flow, in gallons a minute, 1943: July 13, 1.3.

16. LaVerne Wight. SE¼ sec. 35, T. 14 S., R. 35 E. Diameter 3 inches, depth 230 feet. Land-surface datum is 4,487.8 feet above mean sea level. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1943: July 13, 0.7. Flow, in gallons a minute, 1943: July 13, 2.

17. Arthur Tew. SW¼ sec. 35, T. 14 S., R. 35 E. Diameter 3 inches, depth 228 feet. Land-surface datum is 4,483.3 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 13, 4.8. Flow, in gallons a minute, 1943: July 13, 38.

18. Hill & Illum. NW¼ sec. 36, T. 14 S., R. 35 E. Irrigation well, diameter 14 inches, depth 301 feet. Water levels, in feet below land-surface datum: Oct. 29, 1943, 19.40; May 2, 1944, 18.37; Oct. 22, 1944, 18.92. Discharge, in gallons a minute, 1943: July 13, 770.

19. Hill & Illum. NW¼ sec. 36, T. 14 S., R. 35 E. Diameter 4 inches, depth 322 feet. Land-surface datum is 4,488.0 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 13, 1943, 3.75; Oct. 26, 1943, 5.30; May 2, 1944, 5.35; Oct. 22, 1944, 4.67. Flow, in gallons a minute, 1943: July 13, 1.3.

20. Thomas Jones Estate. SE¼ sec. 36, T. 14 S., R. 35 E. Diameter 6 inches, depth 163 feet. Land-surface datum is 4,455.7 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 13, 13.5. Flow, in gallons a minute, 1943: July 13, 21.

21. J. R. Hughes. SE¼ sec. 36, T. 14 S., R. 35 E. Diameter 3 inches, depth 275 feet. Land-surface datum is 4,471.3 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 13, 1943, 13.5; Oct. 26, 1943, 13.0; May 3, 1944, 16.8; Oct. 22, 1944, 12.0; leaked badly during measurement. Flow, in gallons a minute, 1943: July 13, 21.

22. M. L. Slorp. SW¼ sec. 3, T. 14 S., R. 36 E. Irrigation well, diameter 14 inches, depth 405 feet. Discharge, in gallons a minute, 1943: 880.

Water level, in feet below land-surface datum, 1931-32, 1943-44

Date	Water level	Date	Water level	Date	Water level
Aug. 19, 1931	71.43	Apr. 12, 1932	72.75	Oct. 29, 1943	71.3
Sept.24	71.75	May 19	71.25	May 2, 1944	69.27
Dec. 7	71.92	Oct. 16	a 59.15	Oct. 21	71.87

a Anomalous apparent high water level possibly due to erroneous tape measurement resulting from wet casing.

23. Ward & Dredge. SE¼ sec. 17, T. 14 S., R. 36 E. Irrigation well, diameter 14 inches, depth 201 feet. Water levels, in feet below land-surface datum: Oct. 29, 1943, 124.10; May 2, 1944, 122.39; Oct. 21, 1944, 125.00. Discharge, in gallons a minute, 1943: July 12, 910.

24. Deschamps & Jones. SE¼ sec. 18, T. 14 S., R. 36 E. Irrigation well, diameter 14 inches, depth 301 feet. Water levels, in feet below land-surface datum: Oct. 29, 1943, 102.8; May 2, 1944, 102.02; Oct. 21, 1944, 105.74. Discharge, in gallons a minute, 1943: July 12, 900.

25. Floyd Hill. SW¼ sec. 19, T. 14 S., R. 36 E. Diameter 6 inches, depth 550 feet. Land-surface datum is 4,551.5 feet above mean sea level. Water levels, in feet below land-surface datum: Aug. 5, 1931, 28.7; July 20, 1943: 28.92; Oct. 29, 1943, 30.77; May 4, 1944, 27.57; Oct. 21, 1944, 31.20.

28. Malad City. NW¼ sec. 22, T. 14 S., R. 36 E. Unused well, diameter 14 inches, depth 227 feet.

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

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 23	a114.22	Oct. 26	116.62	Oct. 30	116.49	Nov. 3	116.56
Oct. 23	116.77	27	116.52	31	116.55	4	116.45
24	116.81	28	116.50	Nov. 1	116.57	5	116.39
25	116.73	29	116.45	2	116.64	6	116.57

a Tape measurement.

28. Malad City--Continued.

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

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 7	116.67	Nov. 21	116.20	Dec. 5	115.94	Dec. 19	116.02
8	116.58	22	116.15	6	116.10	20	116.06
9	116.47	23	116.27	7	116.05	21	116.02
10	116.41	24	116.34	8	115.93	22	116.08
11	116.39	25	116.36	9	116.19	23	116.13
12	116.37	26	116.33	10	116.24	24	116.09
13	116.29	27	116.30	11	116.12	25	115.88
14	116.38	28	116.27	12	116.03	26	116.10
15	116.44	29	116.20	13	116.04	27	116.22
16	116.38	30	116.02	14	116.17	28	116.17
17	116.27	Dec. 1	116.00	15	116.15	29	116.01
18	116.32	2	116.24	16	116.27	30	116.05
19	116.26	3	116.26	17	116.31	31	116.11
20	116.24	4	116.08	18	116.13		

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1	116.07	116.21	116.36	116.42	116.55	118.02	118.45	119.88	120.61	.....
2	116.87	116.28	116.40	116.60	116.67	118.06	118.56	119.92	120.67	.....
3	115.94	116.17	116.34	116.55	116.76	118.17	118.66	120.05	120.73	.....
4	116.22	116.12	116.43	116.38	116.71	118.42	118.67	120.07	120.84	.....
5	116.15	116.24	116.32	116.29	116.62	118.57	118.75	120.13	120.86	.....
6	116.02	116.28	116.55	116.43	116.47	118.59	118.83	120.12	120.84	.....
7	116.32	116.15	116.71	116.35	116.47	118.52	118.84	120.16	120.90	.....
8	116.27	116.06	116.72	116.20	116.44	118.42	118.84	120.23	120.87	.....
9	116.08	115.94	116.62	116.17	116.50	118.63	118.93	120.38	120.86	.....
10	116.02	116.44	116.45	116.45	116.54	118.50	119.02	120.44	120.87	.....
11	116.19	116.28	116.34	116.47	116.67	118.28	119.12	120.43	120.84	.....
12	116.35	116.27	116.36	116.38	116.76	118.10	119.13	120.43	120.79	.....
13	116.22	116.22	116.15	116.35	116.88	118.00	119.14	120.41	120.74	.....
14	116.15	116.01	116.33	116.30	116.90	117.90	119.21	120.46	120.62	.....
15	116.08	116.25	116.37	116.52	116.92	117.87	119.23	120.53	120.65	.....
16	116.23	116.23	116.54	116.32	116.94	117.83	119.30	120.55	120.58	.....
17	116.13	116.27	116.27	116.43	117.05	117.84	119.34	120.57	120.64	.....
18	116.30	116.33	116.42	116.55	116.98	117.96	119.38	120.58	120.64	.....
19	116.26	116.35	116.27	116.50	117.10	117.91	119.43	120.55	120.64	.....
20	116.05	116.27	116.26	116.35	117.23	117.89	119.42	120.61	120.71	.....
21	115.98	116.04	116.46	116.35	117.21	117.91	119.45	120.57	.....	a21.39
22	116.00	116.27	116.60	116.62	117.16	118.07	119.45	120.56	.....	.....
23	115.73	116.28	116.42	116.63	117.37	118.09	119.50	120.53	.....	.....
24	115.65	116.26	116.26	116.45	117.50	118.11	119.52	120.54	.....	.....
25	115.92	116.16	116.16	116.29	117.57	118.07	119.61	120.68	.....	.....
26	116.10	116.15	116.37	116.53	117.66	118.00	119.70	120.65	.....	.....
27	116.18	116.42	116.54	116.53	117.70	118.22	119.66	120.62	.....	.....
28	116.26	116.42	116.64	116.41	117.75	118.44	119.67	120.52	.....	.....
29	116.24	116.39	116.53	116.47	117.76	118.48	119.74	120.62	.....	.....
30	116.27	.....	116.45	116.55	117.92	118.47	119.74	120.61	.....	.....
31	116.25	.....	116.32	.....	118.04	.....	119.82	120.53	.....	.....

a Tape measurement.

31. Thompson. SW¼ sec. 28, T. 14 S., R. 36 E. Domestic well, diameter 4 inches, depth 143 feet. Land-surface datum is 4,489.6 feet above mean sea level. Water levels, in feet below land-surface datum: Aug. 3, 1931, 6.7; July 20, 1943, 5.29; May 2, 1944, 3.11; Oct. 21, 1944, 8.25 (well being pumped with small pressure pump).

32. R. R. Jones. NE¼ sec. 29, T. 14 S., R. 36 E. Domestic well, diameter 4 inches, depth 723 feet. Land-surface datum is 4,507.3 feet above mean sea level. Water levels, in feet below land-surface datum: July 20, 1943, 17.06; May 2, 1944, 14.00.

33. R. R. Jones. NW¼ sec. 29, T. 14 S., R. 36 E. Unused well, diameter 4 inches, depth 302 feet. Land-surface datum is 4,510.8 feet above mean sea level.

Water level, in feet below land-surface datum, 1931, 1943-44

Date	Water level	Date	Water level	Date	Water level
Aug. 1, 1931	30.25	Oct. 29, 1943	26.52	Oct. 21, 1944	30.83
July 20, 1943	23.18	May 2, 1944	26.22		

34. H. A. Brown. NE¼ sec. 31, T. 14 S., R. 36 E. Domestic well, diameter 4 inches, depth 348 feet. Land-surface datum is 4,477.1 feet above mean sea level. Flow, in gallons a minute, 1943: July 1, 1.

Water level at noon, in feet above land-surface datum, 1943-44 (From recorder charts)

July	1, 1943	a8.5	Dec.	19, 1943	3.4	Feb. 7, 1944	3.9
Oct.	25	a2.0		20	3.4	8	4.3
	26	2.3		21	3.4	9	4.3
	27	2.5		22	3.4	10	4.1
	28	2.5		23	3.6	11	3.9
	29	2.6		24	3.7	12	3.8
	30	2.7		25	3.8	13	3.7
	31	2.4		26	3.6	14	4.2
Nov.	1	2.4		27	3.4	15	4.3
	2	2.4		28	3.3	16	4.4
	3	2.5		29	3.4	17	4.2
	4	2.5		30	3.5	18	4.1
	5	2.6		31	3.8	19	4.4
	6	2.6	Jan.	1, 1944	3.7	20	4.1
	7	2.5		2	3.6	21	4.5
	8	2.4		3	3.7	22	4.5
	9	2.8		4	3.5	23	4.4
	10	2.9		5	3.7	24	4.2
	11	3.0		6	3.6	25	4.1
	12	3.1		7	3.5	26	4.4
	13	2.9		8	3.5	27	4.5
	14	2.8		9	3.7	28	4.5
	15	2.9		10	3.8	29	4.3
	16	2.8		11	4.2	Mar. 1	4.2
	17	2.7		12	3.9	2	4.2
	18	2.8		13	3.8	3	4.3
	19	2.7		14	3.9	4	4.5
	20	3.0		15	3.8	5	4.4
	21	3.2		16	3.2	6	4.1
	30	3.1		17	3.9	14	4.8
Dec.	1	3.3		18	2.9	15	4.7
	2	3.3		19	4.3	16	4.6
	3	3.3		20	4.1	17	4.6
	4	3.3		21	3.8	18	4.6
	5	3.1		22	3.9	19	4.8
	6	3.1		23	3.5	20	4.7
	7	3.3		24	4.0	21	4.6
	8	3.5		25	4.2	22	4.8
	9	3.5		26	4.3	23	4.8
	10	3.3		27	4.3	24	4.7
	11	3.3		28	3.7	25	4.7
	12	3.1		29	3.8	26	4.8
	13	3.1	Feb.	1	4.3	27	4.6
	14	3.5		2	4.1	28	4.4
	15	3.4		3	4.1	29	4.6
	16	3.3		4	3.9	30	4.7
	17	3.3		5	3.7	31	4.8
	18	3.3		6	3.8	Apr. 1	4.9

a Gage measurement.

34. H. A. Brown--Continued.

Water level at noon, in feet above land-surface datum, 1943-44
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level
Apr. 2, 1944	4.9	Apr. 26, 1944	5.0	May 17, 1944	4.0
3	4.9	27	4.9	18	3.9
4	4.9	28	5.0	19	3.9
5	4.9	29	5.0	20	3.8
9	4.4	30	5.0	21	3.9
10	4.7	May 1	5.1	22	3.9
11	4.7	2	5.0	23	3.9
12	4.7	3	4.8	24	3.7
13	4.3	4	4.6	25	3.5
14	4.5	5	4.7	26	3.5
15	4.9	6	4.3	27	3.4
16	4.8	7	4.8	28	3.4
17	4.7	8	4.9	29	3.3
18	4.8	9	4.9	30	3.2
19	4.8	10	4.8	31	3.1
20	4.4	11	4.6	June 1	2.9
21	4.6	12	4.4	2	2.9
22	4.9	13	4.6	3	2.9
23	5.0	14	4.4	4	2.9
24	5.0	15	4.4	5	3.0
25	5.0	16	4.2	6	3.0

35. H. A. Brown. NE¼ sec. 31, T. 14 S., R. 36 E. Domestic well, diameter 3 inches, depth 223 feet. Land-surface datum is 4,473.1 feet above mean sea level. Water levels, in feet above land-surface datum: July 12, 1943, 1.95; Oct. 26, 1.8; May 2, 1944, 3.57. Flow, in gallons a minute, 1943: July 12, 2.

36. George W. Jones. SE¼ sec. 31, T. 14 S., R. 36 E. Diameter 3 inches, depth 448 feet. Land-surface datum is 4,473.0 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 12, 21.9. Flow, in gallons a minute, 1943: July 12, 4.

37. George W. Jones. SE¼ sec. 31, T. 14 S., R. 36 E. Diameter 3 inches, depth 390 feet. Water level, in feet above land-surface datum, 1943: July 12, 15.7. Flow, in gallons a minute, 1943: July 12, 25 (estimated).

38. W. E. Jenkins. SE¼ sec. 31, T. 14 S., R. 36 E. Diameter 2 inches, depth 174 feet. Land-surface datum is 4,469.3 feet above mean sea level.

Water level, in feet below land-surface datum, 1931, 1943-44

July 30, 1931	6.2	Oct. 26, 1943	4.98	Oct. 21, 1944	8.23
20, 1943	3.02	May 2, 1944	4.35		

39. Mrs. Sam Jones. SE¼ sec. 31, T. 14 S., R. 36 E. Diameter 3 inches, depth 372 feet. Land-surface datum is 4,467.2 feet above mean sea level. Water levels, in feet above land-surface datum, 1943: July 12, 20.9, flowing prior to measurement; Oct. 26, 18.7. Flow, in gallons a minute, 1943: July 12, 75.

40. R. J. Harding. NE¼ sec. 32, T. 14 S., R. 36 E. Diameter 4 inches, depth 194 feet. Land-surface datum is 4,476.8 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 12, 1943, 4.2; Oct. 26, 1943, 4.4; May 2, 1944, 7.6; Oct. 21, 1944, 0.89. Flow, in gallons a minute, 1943: July 12, 8.

41. Jessie Harrison. NW¼ sec. 32, T. 14 S., R. 36 E. Diameter 3 inches, depth 221 feet. Land-surface datum is 4,478.3 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 12, 1.9. Flow, in gallons a minute, 1943: July 12, 1.

42. Mrs. A. D. Jones. SW¼ sec. 32, T. 14 S., R. 36 E. Diameter 4 inches, depth 302 feet. Land-surface datum is 4,466.8 feet above mean sea level. Water level, in feet above land-surface datum, 1943: June 22, 5.2. Flow, in gallons a minute, 1943: June 22, 8.

46. William Howard. SE¼ sec. 32, T. 14 S., R. 36 E. Stock well, diameter 4 inches, depth 74 feet. Land-surface datum is 4,463.7 feet above mean sea level. Flow in gallons a minute: Oct. 12, 1932, 2.2; June 28, 1943, 7.5; Oct. 26, 1943, 3.8.

Water level, in feet above (+) or below (-) land-surface datum, 1931-32, 1943-44

Date	Water level	Date	Water level	Date	Water level
Aug. 3, 1931	a +0.17	May 19, 1932	a +1.17	Aug. 18, 1944	+0.25
Dec. 7	a +.57	Oct. 12	a +2.07	Oct. 21	-.78
Apr. 12, 1932	a +.37	June 28, 1943	a +3.51		

a Well flowing prior to measurement.

49. John Jenkins. NW¼ sec. 1, T. 15 S., R. 35 E. Diameter 2 inches, Land-surface datum is 4,478.4 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 13, 2.8. Flow, in gallons a minute, 1943: July 13, 1.

50. Thomas Thorpe. NW¼ sec. 1, T. 15 S., R. 35 E. Diameter 3 inches, depth 280 feet. Land-surface datum is 4,478.9 feet above mean sea level. Water levels, in feet above land-surface datum: July 13, 1943, 5.8, flowing prior to measurement; Oct. 26, 1943, 11.4; May 2, 1944, 15.7; Oct. 22, 1944, 10.7. Flow, in gallons a minute, 1943: July 13, 20.

51. James Williams. SW¼ sec. 1, T. 15 S., R. 35 E. Diameter 2 inches. Land-surface datum is 4,448.1 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 21, 2.8. Flow, in gallons a minute, 1943: July 21, 3.

52. John E. Jones. SW¼ sec. 1, T. 15 S., R. 35 E. Diameter 3 inches, depth 146 feet. Land-surface datum is 4,432.0 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 13, 1943, 10.7; Oct. 27, 1943, 11.2; May 3, 1944, 17.1, well 53 closed during measurement; Oct. 22, 1944, 14.9, well 53 closed during measurement. Flow, in gallons a minute, 1943: July 13, 35; Oct. 27, 48.

53. John E. Jones. SW¼ sec. 1, T. 15 S., R. 35 E. Diameter 2 inches. Land-surface datum is 4,433.7 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 13, 1943, 5.1; Oct. 27, 1943, 5.5; May 3, 1944, 17.8, well 52 closed during measurement; Oct. 22, 1944, 15.6, well 52 closed during measurement. Flow, in gallons a minute, 1943: July 13, 4; Oct. 27, 8.

55. Dan Tovey. SE¼ sec. 1, T. 15 S., R. 35 E. Diameter 3 inches. Land-surface datum is 4,457.4 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 12, 1943, 20.5; Oct. 27, 1943, 21.1; May 3, 1944, 25.9; Oct. 22, 1944, 21.8. Flow, in gallons a minute, 1943: July 12, 28; Oct. 27, 30.

56. Joseph Josephson. SE¼ sec. 1, T. 15 S., R. 35 E. Domestic well, diameter 3 inches, depth 329 feet. Land-surface datum is 4,453.0 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 12, 1943, 27.8; Oct. 27, 1943, 29.1; May 3, 1944, 33.1; Oct. 22, 1944, 28.2. Flow, in gallons a minute, 1943: July 12, 15.

57. Lee Brown. NE¼ sec. 2, T. 15 S., R. 35 E. Diameter 3 inches, depth 227 feet. Land-surface datum is 4,479.4 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943-44

Date	Water level	Date	Water level	Date	Water level
Sept. 5, 1931	9.5	May 17, 1932	8.0	Oct. 26, 1943	a11.5
Dec. 4	12.4	Oct. 12	11.7	May 2, 1944	14.9
Apr. 11, 1932	12.5	July 13, 1943	a 4.3	Oct. 22	a10.1

a Well flowing prior to measurement.

57. Lee Brown--Continued.

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Sept. 5, 1931	6	Apr. 11, 1932	8	Oct. 12, 1932	16
Dec. 4	8	May 17	11	July 13, 1943	10

58. Leo Brown. NE¼ sec. 2, T. 15 S., R. 35 E. Diameter 6-1/8-inches, depth 249 feet. Land-surface datum is 4,479.5 feet above mean sea level. Water levels, in feet above land-surface datum: June 26, 1943, 10.9; Oct. 26, 1943, 10.6; May 2, 1944, 15.3; Oct. 22, 1944, 10.5. Flow, in gallons a minute, 1943: June 26, 220.

59. Leo Brown. NE¼ sec. 2, T. 15 S., R. 35 E. Diameter 3 inches, depth 165 feet. Land-surface datum is 4,479.3 feet above mean sea level. Water levels, in feet above land-surface datum: July 13, 1943, 4.3; Oct. 26, 1943, 11.0; May 2, 1944, 15.1; Oct. 22, 1944, 10.5. Flow, in gallons a minute, 1943: July 13, 5; well flowing prior to measurement.

60. Leo Brown. NE¼ sec. 2, T. 15 S., R. 35 E. Diameter 4 inches. Land-surface datum is 4,480.4 feet above mean sea level. Water levels, in feet above land-surface datum, 1943: July 13, 4.5; Oct. 26, 11.2. Flow, in gallons a minute, 1943: July 13, 50 (estimated).

61. Pleasant View Church. NW¼ sec. 2, T. 15 S., R. 35 E. Domestic well, diameter 3 inches, depth 212 feet. Land-surface datum is 4,483.9 feet above mean sea level. Flow, in gallons a minute, 1943: July 13, 5; Oct. 26, 24.

Water level, in feet above land-surface datum, 1931, 1943-44

Date	Water level	Date	Water level	Date	Water level
July 28, 1931	6.1+	Oct. 26, 1943	a 5.2	Oct. 22, 1944	6.2
13, 1943	a 1.6	May 2, 1944	a10.9		

a Well flowing prior to measurement.

62. J. J. Roderick. NE¼ sec. 2, T. 15 S., R. 35 E. Diameter 2 inches, depth 208 feet. Land-surface datum is 4,481.2 feet above mean sea level. Water levels, in feet above land-surface datum: July 13, 1943, 2.0; Oct. 26, 1943, 6.4; May 2, 1944, 11.4; Oct. 22, 1944, 6.6. Flow, in gallons a minute, 1943: July 13, 1.3.

65. Levi Waldron. NE¼ sec. 11, T. 15 S., R. 35 E. Diameter 3 inches. Land-surface datum is 4,449.1 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 16, 1943, 1.70; May 3, 1944, 3.43; Oct. 22, 1944, 1.75. Flow, in gallons a minute, 1943: July 16, 1.

67. Levi Waldron. NE¼ sec. 11, T. 15 S., R. 35 E. Irrigation well, diameter 2 inches. Land-surface datum is 4,447.5 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 16, 0.8. Flow, in gallons a minute, 1943: July 16, 1 (estimated).

70. William Morris. SE¼ sec. 11, T. 15 S., R. 35 E. Diameter 3 inches. Land-surface datum is 4,422.7 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943-44

Dec. 3, 1931	18.8	Oct. 12, 1932	16.6	May 3, 1944	a18.1
Apr. 11, 1932	20.1	July 16, 1943	a16.4	Oct. 22.	a16.1
May 17	15.5	Oct. 27	a16.3		

a Well flowing prior to measurement.

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Dec. 3, 1931	82	May 17, 1932	68	July 16, 1943	60
Apr. 11, 1932	86	Oct. 12	67		

72. James H. Williams. NE¼ sec. 12, T. 15 S., R. 35 E. Diameter 4 inches. Land-surface datum is 4,428.3 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943-44

Date	Water level	Date	Water level	Date	Water level
Sept. 5, 1931	18.15	Oct. 12, 1932	19.16	May 3, 1944	a20.0
Dec. 3	23.64	July 13, 1943	17.3	Aug. 18	a17.0
Apr. 11, 1932	22.76	Oct. 27	a18.6	Oct. 22	a17.3
May 17	16.85				

a Well flowing prior to measurement.

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Sept. 5, 1931	63	Apr. 11, 1932	82	Oct. 12, 1932	64
Dec. 3	75	May 17	64	July 13, 1943	60

73. James H. Williams. NE¼ sec. 12, T. 15 S., R. 35 E. Diameter 2 inches. Land-surface datum is 4,427.4 feet above mean sea level. Well flowing prior to measurements. Flow, in gallons a minute, 1943: July 13, 1.

Water level, in feet above land-surface datum, 1943-44

Date	Water level	Date	Water level	Date	Water level
July 13, 1943	12.3	May 3, 1944	14.7	Oct. 22, 1944	12.1
Oct. 27	12.7	Aug. 18	11.2		

74. James H. Williams. NW¼ sec. 12, T. 15 S., R. 35 E. Diameter 4 inches. Land-surface datum is 4,425.2 feet above mean sea level. Well flowing prior to measurements. Flow, in gallons a minute, 1943: July 21, 150.

Water level, in feet above land-surface datum, 1931, 1943-44

July 23, 1931	18.46	Oct. 27, 1943	19.5	Oct. 22, 1944	20.0
21, 1943	21.0	May 2, 1944	22.1		

75. James H. Williams. NW¼ sec. 12, T. 15 S., R. 35 E. Diameter 4 inches. Land-surface datum is 4,425.4 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 23, 1931, 18.3; July 21, 1943, 22.5; Oct. 27, 1943, 18.0; May 3, 1944, 20.2. Flow, in gallons a minute, 1943: July 21, 150.

76. James H. Williams. NW¼ sec. 12, T. 15 S., R. 35 E. Diameter 2½ inches, depth 186 feet. Land-surface datum is 4,442.0 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 13, 1943, 8.7; May 3, 1944, 11.6; Oct. 22, 1944, 9.1. Flow, in gallons a minute, 1943: July 13, 3.

77. James H. Williams. NW¼ sec. 12, T. 15 S., R. 35 E. Stock and domestic well, diameter 3 inches. Land-surface datum is 4,437.8 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1943: July 16, 9.4; Oct. 27, 9.4. Flow, in gallons a minute, 1943: July 16, 35.

78. Charles Thomas. SW¼ sec. 12, T. 15 S., R. 35 E. Diameter 4 inches. Land-surface datum is 4,414.5 feet above mean sea level. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1943: July 16, 17.8. Flow, in gallons a minute, 1943: July 16, 10.

79. Ernest Waldron. NE¼ sec. 14, T. 15 S., R. 35 E. Diameter 4 inches, depth 200 feet. Land-surface datum is 4,428.0 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1943: June 25, 8.5; Oct. 28, 7.0. Flow, in gallons a minute, 1943: June 25, 10.

80. Ben Jones. NE¼ sec. 14, T. 15 S., R. 35 E. Diameter 3 inches, Land-surface datum is 4,430.2 feet above mean sea level. Water levels, in feet above land-surface datum: July 16, 1943, 5.4; Oct. 27, 1943, 1.3; May 3, 1944, 1.9; Oct. 22, 1944, 4.57. Flow, in gallons a minute, 1943: July 16, 2.5. Automatic pump on well May 3, 1944.

81. Ernest Waldron. SE¼ sec. 14, T. 15 S., R. 35 E. Diameter 3 inches, depth 153 feet. Land-surface datum is 4435.7 feet above mean sea level. Water level, in feet below land-surface datum, 1943: July 16, 1.35.

84. Portage Canal Co. NE¼ sec. 24, T. 15 S., R. 35 E. Irrigation well, diameter 4 inches, depth 144 feet. Land-surface datum is 4,396 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 7, 10.2. Flow, in gallons a minute, 1943: July 7, 46.

85. Portage Canal Co. NE¼ sec. 24, T. 15 S., R. 35 E. Irrigation well, diameter 4 inches, depth 192 feet. Land-surface datum is 4,398.8 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943

Date	Water level	Date	Water level	Date	Water level
Dec. 3, 1931	10.1	May 17, 1932	10.3	July 8, 1943	15.4
Apr. 11, 1932	11.1	Oct. 12	11.5		

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Dec. 3, 1931	47	May 17, 1932	49	July 8, 1943	35
Apr. 11, 1932	51	Oct. 12	45		

86. Portage Canal Co. NE¼ sec. 24, T. 15 S., R. 35 E. Irrigation well, diameter 4 inches, depth 197 feet. Land-surface datum is 4,397.4 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943

Date	Water level	Date	Water level	Date	Water level
Dec. 3, 1931	18.0	May 17, 1932	17.4	July 8, 1943	18.6
Apr. 11, 1932	19.8	Oct. 12	18.8		

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Dec. 3, 1931	43	May 17, 1932	37	July 8, 1943	115
Apr. 11, 1932	46	Oct. 12	37		

87. Portage Canal Co. NE¼ sec. 24, T. 15 S., R. 35 E. Irrigation well, diameter 4 inches, depth 245 feet. Land-surface datum is 4,397.8 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 8, 35. Flow, in gallons a minute, 1943: July 8, 25.

88. George Richards. NE¼ sec. 3, T. 15 S., R. 36 E. Diameter 4 inches, depth 85 feet. Land-surface datum is 4,436 feet above mean sea level. Water levels, in feet above land-surface datum: Aug. 14, 1931, 8.21; July 15, 1943, 4.15, flowing prior to measurement. Flow, in gallons a minute, 1943: July 15, 10.

89. Joseph D. Jones. NW¼ sec. 4, T. 15 S., R. 36 E. Diameter 4 inches, depth 97 feet. Water levels, in feet above land-surface datum: June 25, 1943, 10.7, flowing prior to measurement; Oct. 28, 1943, 11.4; May 4, 11.3, flowing prior to measurement; Oct. 21, 1944, 9.0, flowing prior to measurement. Flow, in gallons a minute, 1943: June 25, 65.

90. L. B. Wade. SW¼ sec. 4, T. 15 S., R. 36 E. Diameter 4 inches. Land-surface datum is 4,414.2 feet above mean sea level. Well flowing prior to measurements, except on Oct. 28, 1943. Water levels, in feet above land-surface datum: July 15, 1943, 15.5; Oct. 28, 1943, 12.5; May 4, 1944, 14.3; Aug. 18, 1944, 11.7. Flow, in gallons a minute, 1943: July 15, 100.

91. L. B. Wade. SW¼ sec. 4, T. 15 S., R. 36 E. Diameter 3 inches. Well flowing prior to measurements, except on May 4, 1944. Water levels, in feet above land-surface datum: July 15, 1943, 12.2; Oct. 28, 1943, 9.9; May 4, 1944, 10.5, leaking around casing. Flow, in gallons a minute, 1943: July 15, 50; Oct. 28, 48.

92. L. B. Wade. SW¼ sec. 4, T. 15 S., R. 36 E. Diameter 8 inches, depth 155 feet. Land-surface datum is 4,416.8 feet above mean sea level. Water level, in feet above land-surface datum, 1943: June 24, 11.3. Flow, in gallons a minute, 1943: June 24, 86.

93. L. B. Wade. SW¼ sec. 4, T. 15 S., R. 36 E. Diameter 8 inches, depth 130 feet. Land-surface datum is 4,416.5 feet above mean sea level. Water level, in feet above land-surface datum, 1943: June 24, 8.6. Flow, in gallons a minute, 1943: June 24, 8.

94. Dan Tovey. SE¼ sec. 4, T. 15 S., R. 36 E. Diameter 4 inches, depth 161 feet. Water level, in feet above land-surface datum, 1943: June 30, 14.5. Flow, in gallons a minute, 1943: June 30, 120 (estimated).

95. Dan Tovey. SE¼ sec. 4, T. 15 S., R. 36 E. Diameter 4 inches, depth 177 feet. Well flowing prior to measurements. Water levels, in feet above land-surface datum: June 30, 1943, 15.3; May 4, 1944, 16.6; Oct. 22, 1944, 15.6. Flow, in gallons a minute, 1943: June 30, 135.

97. Dan Tovey. SE¼ sec. 4, T. 15 S., R. 36 E. Diameter 4 inches. Land-surface datum is 4,421.5 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943-44

Date	Water level	Date	Water level	Date	Water level
Sept. 8, 1931	13.46	May 17, 1932	17.04	June 24, 1943	a14.8
Dec. 4	17.05	Oct. 12, 1932	17.76	May 24, 1944	a16.6
Apr. 11, 1932	16.18				

a Well flowing prior to measurement.

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Sept. 8, 1931	a60	Apr. 11, 1932	74	Oct. 12, 1932	90
Dec. 4	72	May 17	71	June 24, 1943	35

a Estimated.

98. Dives Bros. NE¼ sec. 5, T. 15 S., R. 36 E. Diameter 4 inches, depth 50 feet. Land-surface datum is 4,436.2 feet above mean sea level. Well flowing prior to measurements. Flow, in gallons a minute, 1943: June 29, 23; Oct. 28, 26.

Water level, in feet above land-surface datum, 1943-44

Date	Water level	Date	Water level	Date	Water level
June 29, 1943	3.37	May 4, 1944	13.7	Oct. 21, 1944	11.4
Oct. 28	13.7	Aug. 17	11.5		

99. Dives Bros. NE¼ sec. 5, T. 15 S., R. 36 E. Diameter 4 inches, depth 47 feet. Land-surface datum is 4,437.0 feet above mean sea level. Well flowing prior to measurements. Flow, in gallons a minute, 1943: June 29, 15; Oct. 28, 43.

Water level, in feet above land-surface datum, 1943-44

June 29, 1943	3.0	May 4, 1944	1.90	Oct. 21, 1944	1.82
Oct. 28	3.0	Aug. 18	1.20		

100. Dives Bros. NE¼ sec. 5, T. 15 S., R. 36 E. Diameter 4 inches, depth 100 feet. Land-surface datum is 4,436.2 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943-44

Aug. 17, 1931	a15.7	May 17, 1932	a12.2	May 4, 1944	b a 3.6
Sept. 8	a10.21	Oct. 12	a14.13	Aug. 18	b10.5
Dec. 4	a13.89	June 23, 1943	a12.8	Oct. 21	b a10.1
Apr. 11, 1932	a12.60	Oct. 28	a 4.2		

a Well flowing prior to measurement.
b Well leaked around casing and/or plug during measurement.

100. Dives Bros.--Continued.

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Sept. 8, 1931	21	May 17, 1932	29	June 29, 1943	25
Dec. 4	28	Oct. 12	30	Oct. 28	28
Apr. 11, 1932	26				

101. Milton Jones. NE¼ sec. 5, T. 15 S., R. 36 E. Diameter 4 inches, depth 49 feet. Water level, in feet above land-surface datum, 1943: June 29, 3.1. Flow, in gallons a minute, 1943: June 29, 10.

102. Jesse Hunsucker. NE¼ sec. 6, T. 15 S., R. 36 E. Diameter 3 inches, depth 204 feet. Land-surface datum is 4,462.7 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943

Date	Water level	Date	Water level	Date	Water level
July 27, 1931	10.4	Apr. 11, 1932	10.7	Oct. 12, 1932	5.1
Dec. 3	10.89	May 17	4.63	July 12, 1943	2.7

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Dec. 3, 1931	36	May 17, 1932	10	July 12, 1943	8
Apr. 11, 1932	36	Oct. 12	15		

103. John L. Thomas Estate. NE¼ sec. 6, T. 15 S., R. 36 E. Diameter 2 inches, depth 198 feet. Land-surface datum is 4,438.0 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 12, 1943, 9.4; Oct. 27, 1943, 6.9; May 4, 1944, 10.85; Flow, in gallons a minute, 1943: July 12, 2.

104. Will John. NE¼ sec. 6, T. 15 S., R. 36 E. Stock well, diameter 2 inches, depth 225 feet. Land-surface datum is 4,446.0 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 12, 1943, 8.7; Oct. 27, 1943, 8.6; May 3, 1944, 10.4; Oct. 22, 1944, 9.2. Flow, in gallons a minute, 1943: July 12, 10; Oct. 27, 12.

105. Will John. NE¼ sec. 6, T. 15 S., R. 36 E. Unused well, diameter 2 inches. Land-surface datum is 4,441.1 feet above mean sea level. Flow, in gallons a minute, 1943: July 12, 7; Oct. 27, 8.

Water level at noon, in feet above land-surface datum, 1943-44
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level
July 12, 1943 ab	11.7	Sept. 5, 1944	9.8	Sept. 25, 1944	9.3
Oct. 27 ab	11.3	6	9.7	26	9.4
May 3, 1944 ab	13.4	7	9.6	27	9.5
Aug. 19	9.5	8	9.3	28	9.2
20	10.6	9	9.4	29	9.5
21	10.3	10	9.5	30	9.6
22	10.2	11	9.7	Oct. 1	9.5
23	10.1	12	9.3	2	10.1
24	10.1	13	9.2	3	10.1
25	10.1	14	9.2	4	10.2
26	10.2	15	9.2	5	10.4
27	10.1	16	9.3	21	10.3
28	10.2	17	9.3	22	10.6
29	9.9	18	9.3	23	10.6
30	9.8	19	9.3	24	10.6
31	9.8	20	9.3	25	10.7
Sept. 1	9.8	21	9.3	26	10.7
2	9.8	22	9.3	27	10.7
3	9.8	23	9.2	28	10.6
4	9.7	24	9.1	29	10.7

a Gage readings.
b Well flowing prior to measurement.

105. Will John--Continued.

Water level at noon, in feet above land-surface datum, 1943-44
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level
Oct. 30, 1944	10.7	Dec. 1, 1944	12.2	Dec. 21, 1944	12.3
31	10.7	2	12.2	22	12.3
Nov. 1	10.8	3	12.1	23	12.4
2	10.7	4	12.1	24	12.5
3	10.8	5	12.3	25	12.5
4	10.8	6	12.3	26	12.7
5	10.9	7	12.5	27	12.7
26	11.0	8	12.2	28	12.5
27	11.0	17	12.2	29	12.5
28	11.2	18	12.3	30	12.6
29	11.2	19	12.5	31	12.6
30	11.1	20	12.3		

106. A. E. Scott. NW¼ sec. 6, T. 15 S., R. 36 E. Stock and domestic well, diameter 3 inches, depth 310 feet. Land-surface datum is 4,465.5 feet above mean sea level. Well flowing prior to measurements. Flow, in gallons a minute, 1943: July 12, 30; Oct. 26, 28.

Water level, in feet above land-surface datum, 1943-44

July 12, 1943	16.5	May 4, 1944	23.0	Oct. 21, 1944	14.7
Oct. 26	15.0	Aug. 18	15.6		

107. J. M. Bruce. SE¼ sec. 6, T. 15 S., R. 36 E. Diameter 3 inches. Land-surface datum is 4,422.3 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 15, 1943, 6.4; Oct. 27, 1943, 7.7; May 4, 1944, 8.1; Flow, in gallons a minute, 1943: July 15, 60.

110. David Deschamps. NE¼ sec. 7, T. 15 S., R. 36 E. Diameter 7-3/4 inches, depth 198 feet. Land-surface datum is 4,407.2 feet above mean sea level. Water level, in feet above land-surface datum, 1943: June 23, 12.15. Flow, in gallons a minute, 1943: June 23, 25.

111. David Deschamps. NE¼ sec. 7, T. 15 S., R. 36 E. Diameter 4 inches, depth 202 feet. Land-surface datum is 4,410.7 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: June 22, 1943, 11.8; May 4, 1944, 11.9. Flow, in gallons a minute, 1943: June 22, 85; Oct. 27, 96.

112. David Deschamps. NE¼ sec. 7, T. 15 S., R. 36 E. Diameter 6-1/8 inches, depth 152 feet. Land-surface datum is 4,411.0 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: June 22, 1943, 9.5; May 4, 1944, 9.8. Flow, in gallons a minute, 1943: June 22, 60; Oct. 27, 67.

113. David Deschamps. NE¼ sec. 7, T. 15 S., R. 36 E. Diameter 5-5/8 inches, depth 286 feet. Land-surface datum is 4,413.7 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1943: June 23, 29.3; June 23, after being closed 50 minutes, 34.8. Flow, in gallons a minute: Sept. 8, 1931, 130; June 23, 1943, 120; Oct. 27, 1943, 130.

114. David Deschamps. NE¼ sec. 7, T. 15 S., R. 36 E. Diameter 5-3/4 inches, depth 210 feet. Land-surface datum is 4,414.2 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1943: June 23, 16.9; June 23, after being closed 40 minutes, 21.9. Flow, in gallons a minute, 1943: Oct. 27, 123.

115. J. H. Blaisdell. NW¼ sec. 7, T. 15 S., R. 36 E. Diameter 4 inches, depth 220 feet. Water level, in feet above land-surface datum, 1943: July 15, 9.4. Flow, in gallons a minute, 1943: July 15, 60.

116. Joshua Thomas. NW¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 127 feet. Land-surface datum is 4,412.0 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 15, 10+.

117. Joshua Thomas. NW¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 95 feet. Land-surface datum is 4,414.0 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 15, 7.9. Flow, in gallons a minute, 1943: July 15, 60.

119. Milton Jones. NW¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 293 feet. Water level, in feet above land-surface datum, 1943: July 14, 21.6. Flow, in gallons a minute, 1943: July 14, 200.

120. Milton Jones. NW¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 298 feet. Water level, in feet above land-surface datum, 1943: July 14, 36.5. Flow, in gallons a minute, 1943: July 14, 150.

121. Milton Jones. NE¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 97 feet. Water level, in feet above land-surface datum, 1943: July 14, 10.4. Flow, in gallons a minute, 1943: July 14, 120.

122. Edward Vaughn. NE¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 138 feet. Well flowing prior to measurements, except on May 4, 1944. Water levels, in feet above land-surface datum: June 29, 1943, 11.8; Oct. 28, 1943, 14.1; May 4, 1944, 15.2; Oct. 21, 1944, 13.2. Flow, in gallons a minute, 1943: June 29, 67.

123. Edward Vaughn. NE¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 158 feet. Land-surface datum is 4,410.1 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943

Date	Water level	Date	Water level	Date	Water level
Dec. 4, 1931	22.51	May 17, 1932	16.45	June 29, 1943	11.05
Apr. 11, 1932	18.04	Oct. 12	19.19		

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Dec. 4, 1931	164	May 17, 1932	128	June 29, 1943	100
Apr. 11, 1932	140	Oct. 12	140		

124. Edward Vaughn. NE¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 162 feet. Land-surface datum is 4,411.7 feet above mean sea level. Water levels, in feet above land-surface datum, 1943: June 29, 10.4; June 29, after being closed for 25 minutes, 10.75. Flow, in gallons a minute, 1943: June 29, 120; Oct. 28, 145.

125. Edward Vaughn. NE¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 172 feet. Land-surface datum is 4,410.6 feet above mean sea level. Water levels, in feet above land-surface datum, 1943: June 28, 11.0; June 28, after being closed for 45 minutes, 11.2. Flow, in gallons a minute, 1943: June 28, 85.

126. Edward Vaughn. NE¼ sec. 8, T. 15 S., R. 36 E. Diameter 4 inches, depth 340 feet. Well flowing prior to measurement. Flow, in gallons a minute, 1943: June 28, 150.

Water level, in feet above land-surface datum, 1943-44

Date	Water level	Date	Water level	Date	Water level
June 26, 1943	21.8	May 4, 1944	25.1	Oct. 21, 1944	18.2
Oct. 28	19.4	Aug. 18	14.9		

127. George Daniels. NW¼ sec. 9, T. 15 S., R. 36 E. Diameter 4 inches, depth 168 feet. Land-surface datum is 4,406.0 feet above mean sea level. Flow, in gallons a minute: Sept. 8, 1931, 225.0; July 14, 1943, 200.

Water level, in feet above land-surface datum, 1931, 1943-44

Aug. 12, 1931	15.84	Oct. 28, 1943	15.1	Aug. 18, 1944	b 15.1
July 14, 1943	18.5	May 4, 1944	a 14.5	Oct. 21	ab 12.5

a Well flowing prior to measurement.
b Leaking during measurement.

128. George Daniels. NW¼ sec. 9, T. 15 S., R. 36 E. Diameter 4 inches. Land-surface datum is 4,406.1 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943

Date	Water level	Date	Water level	Date	Water level
Dec. 4, 1931	21.9	May 17, 1932	15.7	July 15, 1943	19.0
Apr. 11, 1932	17.5	Oct. 12	19.6	Oct. 28	14.1

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Dec. 3, 1931	140	May 17, 1932	90	July 15, 1943	100
Apr. 11, 1932	112	Oct. 12	120		

129. George Daniels. NW¼ sec. 9, T. 15 S., R. 36 E. Diameter 4 inches. Land-surface datum is 4,404.9 feet above mean sea level. Water levels, in feet above land-surface datum: Sept. 8, 1931, 10.55; July 15, 1943, 9.7. Flow, in gallons a minute, 1943: July 15, 45.

130. Edward Vaughn. SW¼ sec. 9, T. 15 S., R. 36 E. Diameter 4 inches. Land-surface datum is 4,405.6 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 15, 7.5; leaking during measurement. Flow, in gallons a minute, July 15, 20.

131. Edward Vaughn. SW¼ sec. 9, T. 15 S., R. 36 E. Diameter 4 inches, depth 182 feet. Land-surface datum is 4,400.2 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 15, 19.0. Flow, in gallons a minute, 1943: July 15, 60.

133. Warren Busch. NE¼ sec. 10, T. 15 S., R. 36 E. Diameter 2 inches, depth 68 feet. Land-surface datum is 4,426.4 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 15, 1943, 8.5; Oct. 28, 1943, 10.8; May 3, 1944, 12.7; Oct. 22, 1944, 10.5. Flow, in gallons a minute, 1943: July 15, 50.

136. George Tovey. SW¼ sec. 11, T. 15 S., R. 36 E. Diameter 1¼ inches, depth 63 feet. Land-surface datum is 4,426.0 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 15, 2.4. Flow, in gallons a minute, 1943: July 15, 1.(estimated).

138. George Tovey. SW¼ sec. 11, T. 15 S., R. 36 E. Diameter 4 inches. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 15, 1943, 3.15; Oct. 28, 1943, 2.50; May 3, 1944, 4.70. Flow, in gallons a minute, 1943: July 15, 1.

139. Clark Bros. NE¼ sec. 15, T. 15 S., R. 36 E. Diameter 5-3/4 inches, depth 114 feet. Well flowing prior to measurement. Adjacent wells flowing. Water level, in feet above land-surface datum, 1943: July 3, 16.3. Flow, in gallons a minute: Sept. 7, 1931, 99.9; July 3, 1943, 33. Well leaking about 15 gallons a minute during measurement.

140. Clark Bros. NE¼ sec. 15, T. 15 S., R. 36 E. Diameter 5-3/4 inches, depth 104 feet. Well flowing prior to measurement. Adjacent wells flowing. Water level, in feet above land-surface datum, 1943: July 3, 14.7. Flow, in gallons a minute, 1943: July 3, 33; leaking 17 gallons a minute during measurement.

141. Clark Bros. NE¼ sec. 15, T. 15 S., R. 36 E. Diameter 5-3/4 inches, depth 98 feet. Well flowing prior to measurement. Adjacent wells flowing. Water level, in feet above land-surface datum, 1943: July 3, 11.6. Flow, in gallons a minute, 1943: July 3, 23; leaking 8 gallons a minute during measurement.

142. Clark Bros. NE¼ sec. 15, T. 15 S., R. 36 E. Diameter 6 inches, depth 103 feet. Well flowing prior to measurement. Adjacent wells flowing. Water levels, in feet above land-surface datum, 1943: July 3, 13.25; July 3, after being closed for 35 minutes, 14.8. Flow, in gallons a minute, 1943: July 3, 120.

143. Clark Bros. NE¼ sec. 15, T. 15 S., R. 36 E. Diameter 10 inches, depth 99 feet. Well flowing prior to measurement. Adjacent wells flowing. Water level, in feet above land-surface datum, 1943: July 3, 11.6. Flow, in gallons a minute, 1943: July 3, 36.

144. Moroni V. Rees. SW¼ sec. 15, T. 15 S., R. 36 E. Diameter 3 inches. Water level, in feet above land-surface datum, 1943: July 15, 13.0. Flow, in gallons a minute, 1943: July 15, 2.

145. Moroni V. Rees. SW¼ sec. 15, T. 15 S., R. 36 E. Diameter 3 inches. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 15, 1943, 23.1; May 3, 1944, 21.0; Oct. 22, 1944, 18.9. Flow, in gallons a minute, 1943: July 15, 1.

146. M. V. Rees. NE¼ sec. 22, T. 15 S., R. 36 E. Diameter 3 inches. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 15, 1943, 27.1; May 3, 1944, 28.7; Oct. 22, 1944, 24.7. Flow, in gallons a minute, 1943: July 15, 1.

151. Verlin Moon. SE¼ sec. 20, T. 15 S., R. 36 E. Diameter 4 inches, depth 43 feet. Land-surface datum is 4,388.6 feet above mean sea level. Water level, in feet above land-surface datum, 1943: July 6, 4.3. Flow, in gallons a minute, 1943: July 6, 15.

152. Moroni V. Rees. NE¼ sec. 22, T. 15 S., R. 36 E. Diameter 8 inches, depth 101 feet. Water level, in feet above land-surface datum, 1943: July 5, 10.8. Flow, in gallons a minute, 1943: July 5, 1 (estimated).

153. T. A. John. SW¼ sec. 27, T. 15 S., R. 36 E. Diameter 4 inches, depth 165 feet. Land-surface datum is 4,386.5 feet above mean sea level.

Water level, in feet above land-surface datum, 1931-32, 1943-44

Date	Water level	Date	Water level	Date	Water level
July 17, 1931	18.9	Oct. 12, 1932	18.1	May 3, 1944	a 9.8
Apr. 11, 1932	18.1	July 16, 1943	a 16.4	Oct. 22	a 18.5
May 17	18.1	Oct. 28	a 18.4		

a Well flowing prior to measurement.

Flow, in gallons a minute, 1931-32, 1943

Date	Flow	Date	Flow	Date	Flow
Dec. 3, 1931	2	May 17, 1932	2	July 16, 1943	2
Apr. 11, 1932	3	Oct. 12	2		

157. Clyde Bowen. SW¼ sec. 29, T. 15 S., R. 36 E. Diameter 3 inches. Land-surface datum is 4,403.2 feet above mean sea level. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1943: July 16, 7.8. Flow, in gallons a minute, 1943: July 16, 1.

158. J. F. Dudley. SW¼ sec. 29, T. 15 S., R. 36 E. Diameter 3 inches, depth 270 feet. Land-surface datum is 4,402.5 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 16, 1943, 10.1; Oct. 28, 1943, 6.6; May 3, 1944, 12.5; Oct. 22, 1944, 10.6. Flow, in gallons a minute, 1943: July 16, 1.

159. J. F. Dudley. SW¼ sec. 29, T. 15 S., R. 36 E. Diameter 3 inches, depth 229 feet. Land-surface datum is 4,396.9 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1943: July 16, 2.1; Oct. 28, 1.5. Flow, in gallons a minute, 1943: July 16, 1.

160. J. F. Dudley. SW¼ sec. 29, T. 15 S., R. 36 E. Diameter 2 inches. Land-surface datum is 4,393.2 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 16, 1943, 5.6; Oct. 28, 1943, 5.5; May 3, 1944, 6.5; Oct. 22, 1944, 5.35; Flow, in gallons a minute, 1943: July 16, 5.

161. John W. Jenkins. NE¼ sec. 30, T. 15 S., R. 36 E. Diameter 4 inches, depth 229 feet. Land-surface datum is 4,395.8 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 7, 1943, 12.8; May 3, 1944, 14.9; Oct. 22, 1944, 13.4. Flow, in gallons a minute, 1943: July 7, 6.

162. John W. Jenkins. NE¼ sec. 30, T. 15 S., R. 36 E. Diameter 4 inches, depth 194 feet. Land-surface datum is 4,395.3 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 7, 1943, 9.6; July 7, after closing for 65 minutes, 10.4; May 3, 1944, 11.3; Oct. 22, 1944, 10.8. Flow, in gallons a minute, 1943: July 7, 7.5.

163. John W. Jenkins. NE¼ sec. 30, T. 15 S., R. 36 E. Diameter 4 inches, depth 199 feet. Land-surface datum is 4,402.4 feet above mean sea level. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 6, 1943, 10.9; July 6, after closing for 30 minutes, 12.1; Oct. 28, 1943, 14.0; May 3, 1944, 14.3; Oct. 22, 1944, 14.3. Flow, in gallons a minute, 1943: July 6, 1.

164. John W. Jenkins. NE¼ sec. 30, T. 15 S., R. 36 E. Diameter 4 inches. Well flowing prior to measurements. Water levels, in feet above land-surface datum: July 6, 1943, 2.8; May 3, 1944, 3.12; Oct. 22, 1944, 2.57. Flow, in gallons a minute, 1943: July 6, 1 (estimated).

165. John W. Jenkins. NE¼ sec. 30, T. 15 S., R. 36 E. Diameter 2 inches, depth 80 feet. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1943: July 21, 4.3.

MONTANA

By C. D. Bue and P. D. Akin

PROGRAM OF WORK

The program of observation wells in the valley and delta area between Kalispell and the head of Flathead Lake, in Flathead County, was continued during 1944. This investigation was begun in May 1928 by the Geological Survey under the authorization of the Federal Power Commission. This area comprises about 25 square miles at the north end of Flathead Lake. Measurements were also made on one well in Prairie County and one well in Valley County to obtain information on the fluctuations of the water table in the drainage basins of the Missouri and Yellowstone Rivers in Montana. In Flathead County 333 measurements were made in 37 wells during 1944, and 15 measurements were made in the wells in Prairie and Valley Counties. Of the original 47 observation wells, 39 have been observed since 1938. Two of these wells are equipped with water-stage recorders.

The purpose of the water-level measurements in Flathead County is to determine the effects of the regulation of the altitude of the water surface in Flathead Lake and Flathead River on the position of the water table in the area. Flathead Lake has been subject to regulation by Kerr Dam since April 1938, and this information is needed in connection with questions relating to the effects of regulation on agriculture in the area. The results of a study of the records for 1928 to 1937, inclusive, are contained in a report by Cady.[1/] As indicated in Cady's report, the change in stage of the river and lake has the greatest effect upon the nearby wells. Cady found the magnitude and promptness of this effect to "diminish abruptly in wells farther from the lake and river", and "of the wells far from the lake and river, those in which the water level lies deepest below the land surface show the least fluctuation.....".

The locations and descriptions of the wells in Flathead County are published in Water-Supply Papers 777 and 988. Records of water levels in

1/ Cady, R. C., Effect upon ground-water levels of proposed surface-water storage in Flathead Lake, Montana: U. S. Geol. Survey Water-Supply Paper 849-B, pp. 59-81, 1941.

these wells from 1928 through 1943 are published in Water-Supply Papers 777, 817, 840, 845, 886, 910, 940, and 989. The measurements in Flathead County in 1944 were made under the direction of A. H. Tuttle, district engineer, of the Geological Survey.

Average monthly water levels and comparison with those of 1943 and 1929 are given in the following table. These figures show less variation in 1944 than in 1943 or 1929. It will be noted that the average water level in June and July 1944 was more than a foot lower than in June and July 1943, while the average water level in Flathead Lake was higher during this period in 1944 than in 1943. However, the discharge of Flathead River was much greater in 1943 than in 1944.

Correction: Water-Supply Papers 777 and 817 contain a table showing average monthly water levels for 1928 through the current year--1935 and 1936, respectively. The figure 85.65 for average monthly water level in January 1929 is in error. This figure has been recomputed as 87.86. Figures for January under the item "Difference from average in 1929" in subsequent water-supply papers have been published in error. In Water-Supply Paper 845 the difference between January 1938 and January 1929 is based on a figure of 87.65 for January 1929, as it was assumed that the figure of 85.65 was in error by 2 feet. However, in Water-Supply Paper 940 the figure 85.65 was assumed to be correct and hence the average for January 1941 is also in error. This same error appears in Water-Supply Paper 990. The average monthly levels as given in the present report are based on a figure of 87.86 for January 1929.

Average of water levels in observation wells in Flathead County, Mont., in 1944, by months, compared with average in the same months in 1929 and 1943.

Month	Average, in feet above sea level 1944	Average, in feet below land-surface datum 1944	Difference from average in 1929	Difference from average in 1943
January	88.13	9.77	+0.27	+0.13
March	87.86	10.13	-.30	....
April	87.86	10.11	-.19	-.57
May	88.27	9.54	+.14	-.27
June	88.25	9.73	-.13	-1.12
July	88.29	9.69	-.08	-1.05
August	88.32	9.66	+.73	-.51
October	88.27	9.72	+.97	....
December	88.25	9.72	+1.22	-.14

WATER-LEVEL MEASUREMENTS

Flathead County

Water level, in feet below land-surface datum, 1944

Well No.	Jan. 20	Mar. 15	Apr. 13	May 26	June 25	July 25	Aug. 19	Oct. 11	Dec. 1
1	6.63	6.89	6.75	6.88	6.75	6.85	6.86	6.81	6.77
2	8.26	8.31	8.29	8.45	8.51	8.67	8.77	8.66	8.44
3	12.25	12.10	12.00	12.01	12.16	12.47	12.62	12.64	12.41
4	7.26	7.28	7.22	7.30	7.46	7.74	7.85	7.87	7.61
5	6.88	7.08	6.90	7.07	6.80	6.70	6.64	6.80	6.82
7	18.65	18.65	18.72	18.76	18.75	18.78	18.81	18.88	18.97
8	3.24	3.08	2.90	3.10	3.18	3.52	3.67	3.78	3.58
9	5.76	6.11	5.96	6.01	5.82	5.58	5.51	5.67	5.68
10	7.91	8.17	7.60	7.99	7.79	7.96	7.80	7.80	7.70
11	6.80	6.80	6.60	6.62	6.70	6.98	7.00	7.12	7.05
13	4.91	5.02	4.07	4.71	5.14	6.12	5.82	5.36	5.05
14	9.90	10.90	11.33	11.00	9.39	8.32	7.86	8.07	7.91
19	3.58	3.34	3.04	3.52	3.72	4.36	4.36	4.12	3.72
20	3.30	3.27	3.13	3.39	3.51	3.73	3.79	3.79	3.75
21	2.38	2.98	3.19	3.81	3.64	3.55	2.79	2.19	1.90
22	15.00	15.58	15.87	15.98	15.27	14.87	14.75	14.55	14.58
23	14.20	15.97	16.33	10.90	9.20	9.02	9.24	10.23	11.31
25	15.05	16.00	16.55	.....	15.97	15.28	14.90	14.62	14.74
26	11.09	11.66	12.04	6.56	12.23	11.91	11.77	11.43	11.32
27	5.94	10.30	10.79	9.62	6.93	5.77	5.49	6.08	6.88
28	13.96	14.28	14.87	7.20	14.25	13.83	13.66	13.47	13.56
29	5.20	6.20	6.63	5.59	3.74	3.12	2.92	3.21	3.79
30	15.25	15.42	15.47	15.71	15.67	15.67	15.61	15.57	15.44
31	17.09	17.17	17.06	17.24	17.24	17.23	17.23	17.30	17.32
32	9.44	9.49	9.46	9.50	9.48	9.51	9.55	9.62	9.63
33	10.67	10.53	10.65	11.14	11.35	11.63	11.86	12.12	12.10
34	10.87	10.91	10.90	10.98	10.97	11.03	11.02	11.06	11.10
35	13.60	13.56	13.49	13.65	13.75	13.89	13.96	14.01	13.90
36	16.31	16.30	16.24	16.27	16.23	16.30	16.35	16.48	16.45
37	12.19	12.15	12.12	12.17	12.19	12.38	12.48	12.53	12.48
38	3.98	3.84	3.81	4.08	4.28	4.58	4.87	4.68	4.43
39	5.70	6.07	6.06	6.16	5.84	5.87	5.66	5.35	5.16
40	5.44	5.83	4.56	5.08	1.65	1.62	2.12	3.70	4.37
41	8.33	8.47	8.42	8.45	8.44	8.51	8.57	8.65	8.70
43	8.69	8.82	8.44	8.90	8.98	9.13	9.21	9.25	9.17
44	15.12	15.12	15.10	15.20	15.27	15.34	15.40	15.45	15.45
45	20.61	20.58	20.55	20.58	20.66	20.76	20.80	20.87	20.91
46	9.00	9.10	8.92	8.98	9.35	8.89	8.93	9.02	8.99
47	10.63	11.60	12.07	11.88	10.77	10.42	10.36	10.14	10.01

Prairie County

133 (*988, p. 16). Vernon Dickson. NW¼ sec. 21, T. 12 N., R. 51 E. Montana prime meridian.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Feb. 7	20.44	May 26	20.61	June 17	20.60
May 11	20.59	June 5	20.65	July 22	20.72

Valley County

132 (*988, p. 16). William Debray. SE¼ sec. 12, T. 8 N., R. 40 E., in the city of Glasgow. Measurements discontinued after Mar. 26.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	21.20	Jan. 22	21.44	Feb. 5	21.75	Mar. 8	22.05
8	21.34	29	21.25	12	21.75	26	22.00
15	21.44						

OREGON

By J. W. Robinson and T. E. Eakin

SCOPE OF THE WATER-LEVEL PROGRAM IN 1944

The program for measuring water levels periodically in observation wells in six typical areas in Oregon was continued in 1944 in cooperation with the Oregon State engineer, on a reduced scale. In all, 250 measurements were made in 52 wells, 9 wells were not visited, and measurements were discontinued in 1 well. Float gages were in operation in two of the wells at the end of the year and a local observer made weekly tape measurements in a third well.

The canvass of public water supplies of the principal communities in Oregon, begun in the last half of 1943, was completed in the first half of 1944. The data obtained for 73 cities and towns in the State are available for consultation in typewritten form at the Portland office of the Geological Survey.

PRECIPITATION IN 1944

Because ground water is derived chiefly from rain and snow, the ground-water storage and the water level in wells generally fluctuate in response to fluctuations of precipitation. Where there is a pronounced seasonal range in precipitation, such as is common to Oregon and other extensive areas in the Pacific Coast region, storage of ground water generally is greatest and natural ground-water levels are highest during or somewhat after the height of the wet season, but storage diminishes and water levels commonly decline during the ensuing dry season until the lowest levels are reached shortly after the first rains of the next wet season. Thus, the ground-water level commonly is related less closely to precipitation within the calendar year than to precipitation within a "water year" which spans one wet season and the following dry season, and which ends in mid-autumn. For this outline of climatic features the water year is taken as ending September 30, the most practicable date for near-

maximum depletion of unconfined ground-water storage and near-minimum water levels.

The first of the two following tables shows the average monthly precipitation at two representative stations in Oregon for 50 years of record, in inches and in percentage of the annual precipation; also, the percentage of the normal precipitation by months for the water year 1943-44. The second table shows, by provinces, the precipitation in inches, and the percentage of the 50-year average, for the water-year 1943-44. This second table suggests a relatively uniform percentage deficiency in precipitation throughout the State, a uniformity that is surprising in comparison with the wide range in the actual amount of precipitation. For the water year as a whole, snowfall and stream runoff were decidedly less than average. Monthly precipitation was greater than average in October throughout the State, in April in the Willamette Valley, also in May and June in the eastern part of the State. In the remaining months of the water year rainfall was deficient. As a whole the deficiency in precipitation resulted in low water levels in many wells by the end of the year, with certain exceptions in the eastern part of the State where late rains effected a moderate recharge.

Monthly precipitation at two representative stations in the State of Oregon, in 1943-44, in percentage of the yearly average for the 50-year period ending Sept. 30, 1940

	Portland Willamette Valley subprovince (western Oregon)			Baker Grand Ronde subprovince (eastern Oregon)		
Month	50-year average Inches	50-year average Percent	1943-44 Percent	50-year average Inches	50-year average Percent	1943-44 Percent
October	2.80	7.2	15.9	0.74	6.6	9.6
November	6.05	15.5	5.6	1.02	9.0	4.3
December	6.66	17.0	7.8	1.23	10.9	3.4
January	5.80	14.9	9.6	1.19	10.6	2.8
February	4.74	12.1	9.8	1.06	9.4	7.3
March	3.92	10.00	6.6	1.05	9.3	2.8
	29.97	76.7	55.3	6.29	55.8	30.2
April	2.73	7.0	8.0	.98	8.7	4.7
May	1.93	4.9	2.7	1.25	11.1	11.4
June	1.48	3.8	2.0	1.10	9.7	22.0
July	.48	1.2	.2	.48	4.3	1.7
August	.61	1.6	.0	.46	4.1	.0
September	1.86	4.8	1.1	.71	6.3	1.7
	9.09	23.3	14.0	4.98	44.2	41.5
The year	39.06	100.0	69.3	11.27	100.0	71.7

Precipitation and relative wetness at 18 representative climatologic stations in the State of Oregon for the year ending Sept. 30, 1944

Province	Station and county	Precipitation, 1943-44	
		Inches	Percentage of 50-year average [a]
Northern Coast Ranges [b]	Ashland, Jackson	19.19	97
	Astoria, Clatsop	57.27	74
	Bandon, Coos	39.98	63
	Grants Pass, Josephine	19.75	67
	Newport, Lincoln	45.03	67
Puget-Willamette Trough [c]	Albany, Linn	28.18	70
	Eugene, Lane	27.32	72
	Falls City, Polk	49.93	69
	Portland, Multnomah	27.13	69
	Salem, Marion	30.53	80
	Zigzag, Clackamas	62.27	78
Columbia Plateau	Baker, Baker	8.07	71
	Bend, Deschutes	9.65	76
	La Grande, Union	16.70	87
	The Dalles, Wasco	10.78	80
	Umatilla, Umatilla	7.11	95
Basin and Range	Harney Branch Experiment Station, Harney	7.71	85
	Klamath Falls, Klamath	10.98	84

a Average for water years 1891-1940, each ending Sept. 30.

b Higher parts of the province have no climatologic stations; fragmentary data indicate precipitation in excess of 100 inches over extensive areas, and locally may be as much as 200 inches.

c Higher parts of the west slope of the Cascade Range have no adequate long-term stations; available data indicate precipitation in excess of 100 inches over wide areas; one 8-year record shows an average precipitation of about 125 inches.

SUMMARY OF HYDROLOGIC FEATURES AND OF WATER-LEVEL FLUCTUATIONS

Ground-water provinces

The State of Oregon includes parts of four of the 24 distinctive ground-water provinces into which the United States has been divided by Meinzer.[1] In succession from the west and north, the provinces in Oregon are: the Northern Coast Ranges, the Puget-Willamette Trough, the Columbia Plateau, and the Basin and Range, the general hydrologic features of each of which are given in the following table or are subsequently described.

General features of ground-water provinces in the State of Oregon

	Northern Coast Ranges	Puget-Willamette Trough	Columbia Plateau	Basin and Range
Approximate land area, in square miles	19,600	11,700	42,100	23,600
Approximate population, in 1940:				

1/ Meinzer, O. E., Ground Water in the United States, summary: U. S. Geol. Survey Water-Supply Paper 836-D, pp. 161-164, 1939.

General features of ground-water provinces in the State of Oregon--Cont.

	Northern Coast Ranges	Puget-Willamette Trough	Columbia Plateau	Basin and Range
Total	204,800	673,900	158,800	52,200
Per square mile	10.4	57.6	3.8	2.2
Altitude of principal urban and agricultural areas, in feet above sea level	25-1,900	25-500	100-3,800	4,100-4,800
Yearly climate a/	Superhumid to humid	Superhumid to humid	Moist subhumid to semiarid	Dry subhumid to semiarid
Average yearly rainfall, in inches	16-131	34-125	c 8-28	d 8-18
Yearly mean temperature, in °F b/	43.8-53.4	49.2-53.1	40.5-55.6	e 42.0-49.1

a Atlas of climatic types in the United States, 1900-1939: U. S. Dept. Agr. Misc. Pub. 421, pl.3, pp. 2-4, 1941.

b From publication of U. S. Weather Bureau. Stations largely on lowlands; certain mountainous areas probably receive more rainfall and have lower temperature than indicated.

c Five highland stations not included, with average precipitation as much as 42.75 inches; one station, Cascade Locks, in the Columbia Gorge near the margin of the province, has an average precipitation of about 77 inches.

d Upland stations as much as 54 inches (Crater Lake, 6,475 feet above sea level).

e Crater Lake, not included, has average temperature of 38.6°F.

For the purpose of this report these four provinces are, in turn, divided into 12 subprovinces according to size, climate, topography, and the occurrence of ground water, as shown on figure 3 and as defined specifically in the following paragraphs.

Northern Coast Ranges.- Mountainous, heavily forested, and thoroughly drained by many perennial streams. Northern part of province formed largely of folded, fine-grained sedimentary rocks and some associated volcanics of Tertiary age, of which none is freely permeable below the zone of weathering and in general cannot sustain large and continuous withdrawals from wells. Central part of province contains much massive sandstone that potentially is source of moderate water supplies. Southern part of province includes: (1) sedimentary, intrusive, and metamorphic rocks that range in age from Cretaceous to Devonian and that yield a little water from weathered or fractured zones; and (2) extrusive volcanic rocks which, in part, are very permeable and yield water copiously, as at Big Butte Springs which supply the city of Medford. Tongues of permeable gravel and sand along the principal streams afford

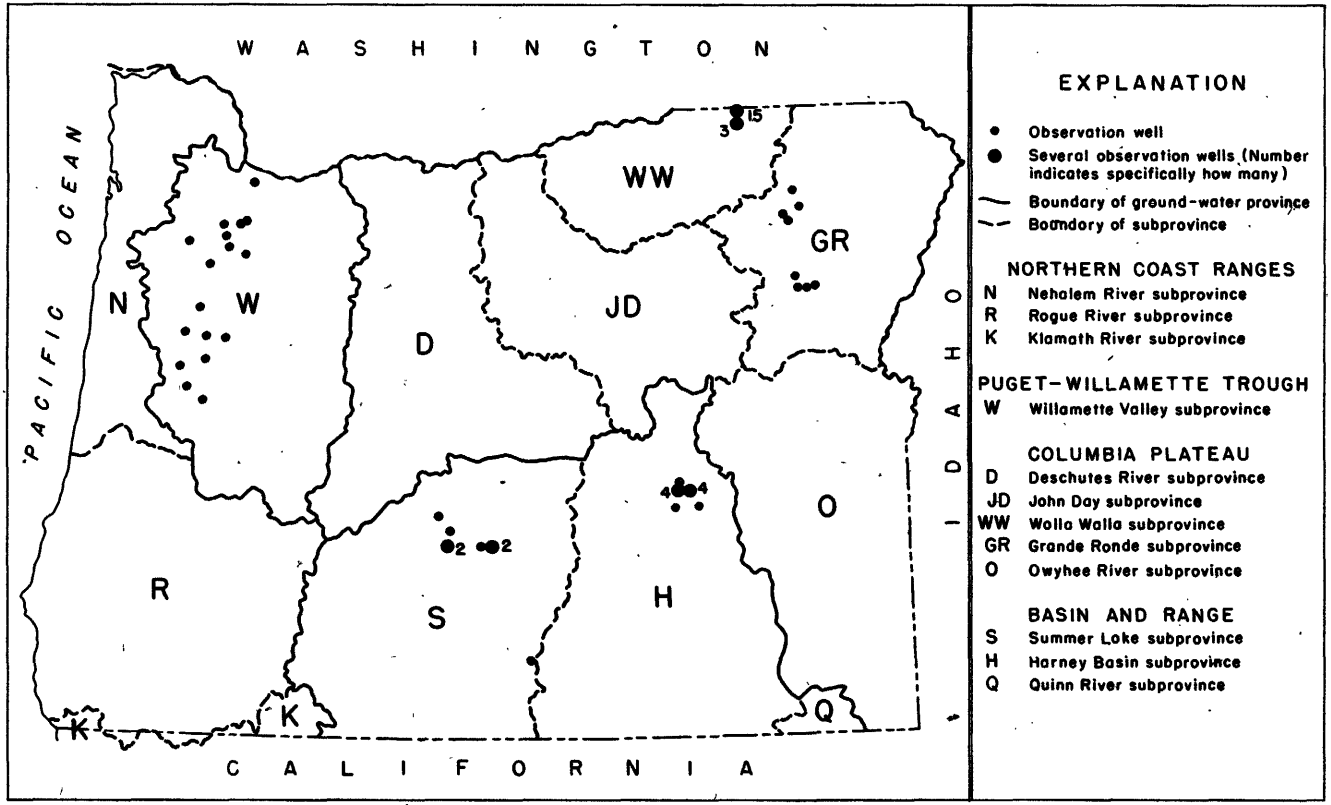

Figure 3.--Map of Oregon showing subdivisions of the four ground-water provinces in the State and the location of the observation wells in each.

moderate yields to wells at some places. Terrace deposits along the coast usually are well drained, but at some places are water bearing. The province is subdivided as follows:

Nehalem River subprovince (N).- In the extreme northwestern part of the State, comprising the basins of streams that (1) drain to the Pacific Ocean on the west, from the Columbia River estuary southward to but not including the basin of the Umpqua River; and (2) drain to the south or left bank of the Columbia River from the mouth upstream to but not including the drainage area of the Willamette River.

Rogue River subprovince (R).- In the southwestern part of the State, comprising the basins of streams that drain to the Pacific Ocean on the west, from and including the basin of the Umpqua River southward to and including the basin of the Chetco River. Small parts of this ground-water area extend southward into California.

Klamath River subprovince (K).- Largely in California, but in the extreme southwestern part of Oregon includes the basins of (1) the Klamath River downstream from the pass at the west edge of the basin that contains the Upper Klamath Lake, (2) the Smith River, and (3) minor streams that drain to the Pacific Ocean southward from but not including the basin of the Chetco River.

Puget-Willamette Trough.- Extensive lowland plains of alluvial origin flanked to the east, west, and south by densely timbered mountains. The younger alluvium, which lies beneath the flood plain of the Willamette River, commonly is highly pervious. The older alluvium, which is of Quaternary age and which underlies the main lowland plain to a depth of as much as 300 feet, at some places contains beds of clean gravel that yield as much as 500 gallons of water a minute to simply constructed wells, but elsewhere is much less productive. Among the bedrock formations the Yakima basalt of Miocene age yields water over extensive areas; yields to individual wells have ranged from a few gallons to 500 gallons a minute. All other bedrock formations along the margins of the lowland plain are relatively impervious below the surficial detritus. Thus, the bedrock terrane serves as a catchment area from which a large perennial runoff is discharged to the lowland plain. Perennial springs

afford the most practicable sources of water for much of the mountainous area. In Oregon this province is not subdivided and is delimited as follows:

Willamette Valley subprovince (W).- In the northwestern part of the State, comprising the drainage basins of (1) the Willamette River and its tributaries, and (2) minor streams that drain to the south or left bank of the Columbia River from the Bonneville Dam downstream to the mouth of the Willamette River.

Columbia Plateau.- Extensive plains intervening between structural ridges and entrenched channels of large streams, flanked on the west by the Cascade Range. Most of the province is underlain by Tertiary volcanics in which continental sedimentary rocks are intercalated. In these rocks water-bearing zones differ greatly in thickness, permeability, and extent; consequently, the wells have a great range in depth, and range in yield from a few gallons to several hundred gallons a minute. In the western part of the province, extensive areas of young volcanics sustain first-magnitude springs and are drained down to the level of the principal streams. In the northeastern part of the province, favorable geologic structure creates small artesian areas in which wells are reported to flow as much as 500 gallons a minute. In the larger enclosed basins, permeable materials in the valley fill commonly yield unconfined water freely to wells. In the east-central part of the province, igneous and metamorphic rocks of Cenozoic and late Paleozic age, which crop out in the Blue Mountains, are not known to yield water in any substantial quantity. The subdivisions of this province are as follows:

Deschutes River subprovince (D).- In the north-central part of the State, comprising the drainage basins of (1) the Deschutes River and (2) minor streams that drain to the south or left bank of the Columbia River from the Bonneville Dam upstream to Rufus.

John Day subprovince (JD).- In the north-central and northeastern parts of the State, comprising the drainage basin of the John Day River and areas that drain to the south or left bank of the Columbia River from Rufus upstream to and including the drainage area of Alkali Canyon (at Arlington).

Walla Walla subprovince (WW).- In the northeastern part of the State, comprising the basins of the Walla Walla River, the Umatilla River, and Willow Creek; also, areas that drain to the south or left bank of the Columbia River from but not including the drainage area of Alkali Canyon, upstream to the mouth of the Walla Walla River. As a hydrologic unit, this subprovince extends northward into Washington.

Grande Ronde subprovince (GR).- In the extreme northeastern part of the State, comprising the drainage basins of the Grande Ronde River, and of streams that drain to the west or left bank of the Snake River from the basin of the Grande Ronde River upstream to and including the basin of the Burnt River. This subprovince extends northward into Washington a few miles.

Owyhee River subprovince (O).- In the extreme southeastern part of the State, comprising the areas drained by the Owyhee and Malheur Rivers, also other areas in Oregon that drain to the Snake River upstream from but not including the area drained by the Burnt River.

Basin and Range Province.- Extensive basins of interior drainage separated and enclosed by structural ridges. In Oregon, the interbasin uplands of this province are underlain largely by volcanics and associated sedimentary rocks of continental origin and of late Tertiary age. These rocks yield meagerly to stock wells at certain places, as in Lake County. Thermal springs issue commonly along fault-line scarps in these rocks, commonly along and near the margins of the basins--as in the Harney and Goose Lake basins. Much of the basin fill is too fine to yield water freely but its coarser elements, such as alluvial fans at edges of the larger basins, yield water sufficient for irrigation on a modest scale in several areas. Locally, in the western part of the Fort Rock Valley, a few wells have penetrated coarse volcanic ejectamenta beneath a mantle of basin fill, and have obtained yields of 1,000 or more gallons a minute. Flowing wells of small yield and pressure head are numerous in certain basins but not in all. The subdivisions of this province are as follows:

Summer Lake subprovince (S).- In the south-central part of the State, comprising the area that drains to the Upper Klamath Lake or to the Lower Klamath Lake, and the areas of interior drainage west of the Abert Rim and the somewhat indefinite divide that trends generally northward in Rs.23 and 24 E., from T. 31 S. into and across T. 21 S. . As a hydrologic unit, this subdivision of the Basin and Range province extends southward into California.

Harney Basin subprovince (H).- In the southeastern part of the State, comprising the areas that drain to the Malheur Lake, the Harney Lake, and the Warner Lakes; also the remaining areas of interior drainage east of the divide in Rs. 23 and 24 E., except the area that drains to the Quinn River. This subdivision of the Basin and Range Province extends southward into California and Nevada.

Quinn River subprovince (Q).- Near the extreme southeastern corner of the State, comprising the area of interior drainage that discharges southward to Quinn River. As a hydrologic unit, this subdivision of the Basin and Range province is largely in Nevada.

Water-level fluctuations by subprovinces

Observation wells are maintained in six typical areas in Oregon. These are located in 5 of the 12 ground-water subprovinces just described. Water-level fluctuations in these areas in 1944 are described subsequently, by subprovinces in succession from the west and north.

Willamette Valley subprovince

In the humid western part of Oregon one round of water-level measurements was made in October in seven counties in the Willamette Valley by J. W. Robinson. In one well at Portland (US 107), 12 water-level measurements were made during the year in connection with the Nation-wide monthly Water Resources Review. In one well at Junction City, 26 tape measurements were made by a local observer, J. Fay Miller, starting in July. In all, 53 measurements of water level were made in 16 wells in the Willamette Valley during the year; one well was inaccessible for measurements.

In Oregon, the calendar year 1944 was the third driest since climatologic records were begun; consequently, in October 1944 water levels were low to very low in all the wells in the Willamette Valley. In the

observation well at Junction City, Lane County, the water level had receded by November 4 to the lowest level of the year and to a stage only about 0.4 foot above the lowest level of record, that of December 1939. In well US 107 at Portland, the lowest observed water level of the year occurred on August 31. This was the lowest level of record for that well.

In a following section of this report, records of water levels in observation wells of the Willamette Valley subprovince are listed by counties in alphabetical sequence - specifically, under Benton, Lane, Linn, Marion, Multnomah, and Yamhill Counties.

Summer Lake subprovince

In the two observation wells in the Fort Rock Valley, a single round of water-level measurements was made in October 1944. In these two wells water levels were above those of September 1943. Rainfall was greater than average for the water year and exceptionally heavy in June 1944. Wells in this subprovince are listed under Lake County.

Walla Walla subprovince

In the Walla Walla Basin one round of water-level measurements was made in January 1944 by the district watermaster and another round in December 1944 by the Geological Survey. In addition, a float gage was maintained throughout the year in well 6N/35-36HL and read weekly by the owner, Walter Hermann. At well 6N/35-26P1 a float gage was maintained into August 1944 and read by the owner, Mrs. Nadine Goodman Whipple.

In well 36H1, read by Walter Hermann, the water level at the end of September was 2.27 feet below its level at the end of September 1943. In that same well the highest observed water level of the year occurred on May 24, 1944, and was 0.37 foot below the highest of 1943, which occurred on June 18 of that year. Precipitation at Milton was greater than average for the water-year 1943-44, with the principal excess in the quarter ending with December 1944. Wells in the Walla Walla Basin are listed under Umatilla County.

Harney Basin subprovince

In nine observation wells in the Harney Basin, the water level in October 1944 was, on the average, 0.61 foot lower than in September 1943, although in two of the wells, at the Harney Branch Experiment Station, the levels in October 1944 were higher than those of the preceding year,

probably owing to infiltration from local irrigation at the time. At the one well equipped with a float gage (23/31-33E1), and read weekly by Newton Hotchkiss, the level at the end of September 1944 was 0.50 foot below that of 1943; also, the high level of the year in that well occurred in July and was 1.40 feet below the high of early July 1943. Rainfall at Burns was less than average in 1944. Observation wells in this subprovince are in Harney County.

Grande Ronde subprovince

Two of the typical areas of the State in which observation wells are maintained lie in the Grande Ronde subprovince--the Baker and Grande Ronde Valleys. In the Baker Valley one well was dry at the time of the single round of measurements in October, the third time since 1936. In the other three wells, the water levels averaged slightly lower than those in the autumn of 1943 but were not the lowest of record. At the three observation wells in the Grande Ronde Valley, the water level of October was 1.12 feet lower than that of September 1943 in one well, 0.15 foot higher in the second, and 0.77 foot lower in the third. Records for observation wells in these two valleys are listed under Baker and Union Counties.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

The following records of water levels in observation wells are given by counties in alphabetical sequence, with the names of the respective ground-water subprovinces indicated after each county name. Under each county the records are given in order of well numbers, the system of which has been described in Water-Supply Paper 990, page 19.

Baker County - Baker Valley

Grande Ronde subprovince

7/39-20N1 (*817, p. 239; 845, p. 405; 886, p. 617; 910, p. 19; 940, p. 16; *948, p. 16; *990, p. 19). City of Baker. Permanent observation well. Taps shallow water in alluvium. Water level, in feet below land-surface datum, 1944: Oct. 11, Dry.

8/39-22F1 (*817, p. 240; 845, p. 405; 886, p. 617; 910, p. 19; 940, p. 16; *948, p. 16; *990, p. 19). Baker County. Permanent observation well. Taps shallow water in alluvium. Water level, in feet below land-surface datum, 1944: Oct. 11, 7.01.

8/40-19D1 (*817, p. 240; 845, p. 405; 886, p. 617; 910, p. 19; 940, p. 16; *948, p. 16; *990, p. 19). Baker County. Permanent observation well. Taps shallow water in alluvium. Water level, in feet below land-surface datum, 1944: Oct. 11, 6.14.

8/40-23A1 (*817, p. 240; 845, p. 405; 886, p. 617; 910, p. 19; 940, p. 16; *948, p. 16; *990, p. 19). Baker County. Permanent observation well. Taps shallow water in alluvium. Water level, in feet below land-surface datum, 1944: Oct. 11, 4.51.

Benton County

Willamette Valley subprovince

14/5W-10R1 (*845, p. 413; 886, p. 622; *890, p. 182; 910, p. 25; 940, p. 17; *948, p. 16; *990, p. 20). Mrs. Thomas Harvey. Taps water in old (?) alluvium. Water level, in feet below land-surface datum, 1944: Oct. 7, 12.79.

Clackamas County

Willamette Valley subprovince

3/1-30E1 (*845, p. 412; 886, p. 662; *890, p. 144; 910, p. 24; *940, p. 17; *948, p. 16; *990, p. 20). Pietro Presutti. Taps confined water in valley fill. No measurements made in 1944.

Harney County - Harney Basin

22/31-34N1 (*817, p. 243; *841, p. 152; 845, p. 406; 886, p. 618; 910, p. 19; 940, p. 17; *948, p. 16; *990, p. 20). Frank Whiting. Taps confined water in Danforth formation. Water level, in feet below land-surface datum, 1944: Oct. 12, 10.89.

23/31-3D2 (*777, p. 151; *817, p. 244; *845, p. 406, 886, p. 618; 910, p. 19; 940, p. 17; *948, p. 16; *990, p. 20). Harney County. Permanent observation well. Taps shallow water table. Water level, in feet below land-surface datum, 1944: Oct. 12, 10.91.

23/31-16E1 (*777, p. 151; *817, p. 245; 845, p. 406; 886, p. 618; 910, p. 19; 940, p. 17; *948, p. 16; *990, p. 20). Harney County. Permanent observation well. Taps shallow water table. Water level, in feet below land-surface datum, 1944: Oct. 12, 7.85.

23/31-33E1 (*777, p. 152; *817, p. 245; 845, p. 406; 886, p. 618; 910, p. 19; 940, p. 17; *948, p. 16; *990, p. 20). US 109. Harney County. Permanent observation well. Taps shallow water table. Except as indicated by footnote, levels are from float-gage readings by Newton Hotchkiss, observer.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	6.81	Apr. 2	5.6	July 23	3.53	Oct. 15	6.96
9	6.84	9	5.49	28	4.02	22	7.04
16	6.88	16	5.31	Aug. 6	4.73	28	7.10
23	6.85	23	4.78	13	5.19	Nov. 5	7.13
28	6.91	28	4.24	20	5.6	12	7.13
Feb. 6	6.94	30	3.98	27	5.84	19	7.18
13	6.67	May 7	3.15	Sept. 3	6.09	26	7.18
20	6.59	14	2.70	10	6.30	28	7.20
27	6.56	21	2.56	17	6.47	Dec. 3	7.22
Mar. 5	6.35	28	2.57	24	6.62	10	7.22
12	5.73	June 28	2.15	28	6.70	17	7.24
19	5.70	July 2	2.47	Oct. 1	6.75	24	7.27
26	5.60	9	2.60	8	6.85	28	7.29
28	5.74	16	3.04	12	a 6.90	31	7.30

a Measurement by Geological Survey.

23/32-7L1 (*777, p. 152; *817, p. 245; *841, p. 163; 845, p. 406; 886, p. 618; 910, p. 19; 940, p. 17; *948, p. 17; *990, p. 21). Harney Branch Experiment Station. Taps shallow-water table. Water level, in feet below land-surface datum, 1944: Oct. 12, 2.64 (pump operating in well 7L2).

23/32-7L2 (*777, p. 152; *817, p. 246; *841, p. 164; 845, p. 407; 886, p. 618; 910, p. 19; 940, p. 18; *948, p. 17; *990, p. 21). Harney Branch Experiment Station. Taps confined water in deep valley fill. No measurements made in 1944; pump operating in well at time of visit.

23/32-7Q3 (*817, p. 246; 845, p. 407; 886, p. 618; 910, p. 20; 940, p. 18; *948, p. 17; *990, p. 21). Harney Branch Experiment Station. Taps shallow water table. Water level, in feet below land-surface datum, 1944: Oct. 12, 9.53.

23/32-30R1 (*777, p. 152; *817, p. 247; 845, p. 407; 886, p. 618; 910, p. 20; 940, p. 18; *948, p. 17; *990, p. 21). Harney County. Permanent observation well. Taps shallow water table. Water level, in feet below land-surface datum, 1944: Oct. 12, 11.97.

24/31-28E1 (*777, p. 152; *817, p. 247; 845, p. 407; 886, p. 619; 910, p. 20; 940, p. 18; *948, p. 17; *990, p. 21). Harney County. Permanent observation well. Taps shallow water table. No measurements made in 1944.

24/32-24R1 (*777, p. 152; *817, p. 247; 845, p. 407; 886, p. 619; 910, p. 20; 940, p. 18; *948, p. 17; *990, p. 21). Harney County. Permanent observation well. Taps shallow water table. Water level, in feet below land-surface datum, 1944: Oct. 12, 45.69.

Lake County - Fort Rock Valley

Summer Lake subprovince

25/14-15E1 (*777, p. 160; *817, p. 241; *845, p. 405; 886, p. 617; 910, p. 20; 940, p. 19; *948, p. 17; *990, p. 21). Soil Conservation Service. Taps confined water. No measurements made in 1944.

26/15-22B1 (*777, p. 160; 817, p. 241; 845, p. 405; 886, p. 617; 910, p. 20; 940, p. 19; *948, p. 17; 990, p. 21). Soil Conservation Service. Taps confined water. No measurements made in 1944.

27/15-4G1 (*777, p. 160, *817, p. 241; 845, p. 405; 886, p. 617; 910, p. 20; 940, p. 19; *948, p. 17; *990, p. 21). H. M. Parks. Taps confined water. No measurements made in 1944.

27/15-4G2 (*777, p. 160; 817, p. 241; *845, p. 405; 886, p. 617; 910, p. 20; 940, p. 19; *948, p. 17; *990, p. 22). H. M. Parks. Taps confined water. No measurements made in 1944.

27/17-22R2 (*845, p. 406; *910, p. 20; 940, p. 19; *948, p. 18; *948, p. 22). W. D. Collins. Taps water table. No measurements made in 1944.

27/18-6E2 (*910, p. 20; 940, p. 19; *948, p. 18; *990, p. 22). W. D. Collins. Taps water table. No measurements made in 1944.

27/18-7N1 (*845, p. 406; 886, p. 617; 910, p. 20; 940, p. 19; *948, p. 18; *990, p. 22). M. S. Buchanan. Taps water table. Water level, in feet below land-surface datum, 1944: Oct. 13, 28.33.

36/21-6B1 (*940, p. 19; *948, p. 18; *990, p. 22). C. W. E. Jennings. Taps water table. Water level, in feet below land-surface datum, 1944: Oct. 13, 14.58.

Lane County - Willamette Valley

15/4W-32M1 (*777, p. 149; *817, p. 259; 845, p. 413; 886, p. 623; *890, p. 187; 910, p. 25; 940, p. 19; *948, p. 18; *990, p. 22). Junction City. Taps water in gravel. Beginning July 8, 1944, weekly tape measurements by J. Fay Miller, local well reader.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 8	7.81	Aug. 26	9.75	Oct. 14	10.52	Nov. 25	10.21
15	8.21	Sept. 2	9.86	21	10.67	Dec. 2	9.82
22	8.41	9	9.91	28	10.81	9	9.77
29	8.57	16	10.05	Nov. 4	10.86	16	9.74
Aug. 5	8.82	23	10.17	11	10.81	23	9.72
12	9.12	30	10.26	18	10.62	30	9.41
19	9.45	Oct. 7	10.36				

16/3W-32G1 (*777, p. 149; *817, p. 259; 845, p. 413; 886, p. 623; *890, p. 190; 910, p. 25; 940, p. 19; *948, p. 18; *990, p. 22). Leo Sidwell. Taps water in young alluvium. Water level, in feet below land-surface datum, 1944: Oct. 7, 11.55.

Linn County - Willamette Valley

10/4W-12F1 (*777, p. 147; *817, p. 257; *845, p. 412; 886, p. 623; *890, p. 167; 910, p. 25; 940, p. 20; *948, p. 18; *990, p. 22). Henry Hoefer. Taps water in gravel. Water level, in feet below land-surface datum, 1944: Oct. 6, 23.6.

11/5W-36Q1 (*777, p. 147; *817, p. 258; *845, p. 412; 886, p. 623; *890, p. 171; 910, p. 25; 940, p. 20; *948, p. 18; *990, p. 22). Oregon Agricultural Experiment Station, East Farm. Taps water in old (?) alluvium. Water level, in feet below land-surface datum, 1944: Oct. 7, 24.70.

12/3W-9R1 (*777, p. 148; *817, p. 258; *845, p. 413; 886, p. 623; *890, p. 178; 910, p. 25; *940, p. 20; *948, p. 18; *990, p. 22). J. H. Swatzka. Taps water in old alluvium. Water level, in feet below land-surface datum, 1944: Oct. 6, 15.19.

12/2W-14B1 (*940, p. 20; *948, p. 18; *990, p. 22). Sigurd H. Sandstrom. Taps water in alluvium. Water level, in feet below land-surface datum, 1944: Oct. 6, 8.90.

13/3W-34N1 (*777, p. 149; *817, p. 259; 845, p. 413; 886, p. 623; *890, p. 182; 910, p. 25; 940, p. 20; *948, p. 18; *990, p. 22). Keeney School, district 51. Taps water in old alluvium. Water-level, in feet below land-surface datum, 1944: Oct. 6, 7.33

Marion County - Willamette Valley

4/2W-4C1 (*777, p. 145; *817, p. 256; 845, p. 412; 886, p. 623; *890, p. 146; 910, p. 25; 940, p. 20; *948, p. 19; *990, p. 23). W. J. Gering. Taps water in young alluvium. Water level, in feet below land-surface datum, 1944: Oct. 6, 17.24.

4/2W-34R1 (*777, p. 145; *817, p. 256; *845, p. 412; 886, p. 623; 890, p. 148; 910, p. 25; *940, p. 20; *948, p. 19; *990, p. 23). Johnson School. Taps water in valley fill. Water level, in feet below land-surface datum, 1944: Oct. 6, 16.72.

4/1W-2C1 (*845, p. 412; 886, p. 623; *890, p. 149; *910, p. 25; 940, p. 20; *948, p. 19; *990, p. 23). W. F. Keil. Taps water in valley fill. Water level, in feet below land-surface datum, 1944: Oct. 6, 15.47.

5/2W-25M1 (*845, p. 412; 886, p. 623; *890, p. 153; 910, p. 25; 940, p. 20; *948, p. 19; *990, p. 23). Agricultural Research Corporation (Sam H. Brown). Taps confined water in sand and gravel. Water level, in feet below land-surface datum, 1944: Oct. 6, 22.30.

6/3W-33R1 (*777, p. 146; 817, p. 257; *845, p. 412; 886, p. 623; *890, p. 157; 910, p. 25; 940, p. 20; *948, p. 19; *990, p. 23). Gideon E. Stolz. Taps water in gravel and cobbles. Water level, in feet below land-surface datum, 1944: Oct. 7, 28.10.

6/1-7M1 (*777, p. 146; *817, p. 257; *845, p. 412; 886, p. 623; *890, p. 159; 910, p. 25; 940, p. 20; *948, p. 19; *990, p. 23). Fred Lucht. Taps water in gravel. Water level, in feet below land-surface datum, 1944: Oct. 6, 12.48.

Multnomah County

Willamette Valley subprovince

1N/134N1 (*940, p. 20; *948, p. 19; *990, p. 23). US 107. Weisfield & Goldberg. Taps confined water in alluvium.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	29.76	Apr. 1	30.20	June 30	29.88	Oct. 2	33.04
31	29.64	May 1	30.38	Aug. 1	32.20	Nov. 1	32.90
Feb. 29	29.72	June 1	30.50	31	33.78	Dec. 2	31.78

Umatilla County - Walla Walla Basin

Walla Walla subprovince

5N/35-1C1 (*777, p. 159; *817, p. 255; 840, p. 346; 845, p. 411; 886, p. 619; 910, p. 21; 940, p. 21; *948, p. 19; *990, p. 23). John Clark. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 20, 27.83; Dec. 11, 29.09.

5N/35-2C1 (*777, p. 159; *817, p. 256; 840, p. 346; 845, p. 411; 886, p. 619; 910, p. 21; *940, p. 21; *948, p. 20; *990, p. 24). E. J. McSherry. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 20, 17.65; Dec. 11, 16.99.

5N/35-3H1 (*777, p. 160; *817, p. 256; 840, p. 346; 845, p. 412; 886, p. 619; 910, p. 21; 940, p. 21; *948, p. 20; *990, p. 24). J. M. Morse Estate. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 20, 37.41; Dec. 11, 33.91.

6N/35-13R1 (*777, p. 155; *817, p. 251; 840, p. 343; 845, p. 408; 886, p. 619; 910, p. 21; 940, p. 21; *948, p. 20; *990, p. 24). M. O. Beauchamp. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 21, 6.45; Dec. 11, 6.79.

6N/35-14L1 (*777, p. 155; *817, p. 251; 840, p. 343; 845, p. 408; 886, p. 620; 910, p. 22; 940, p. 21; *948, p. 20; *990, p. 24). Conrad Miller. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 20, 9.49; Dec. 11, 9.85.

6N/35-20G1 (*777, p. 156; *817, p. 251; 840, p. 343; 845, p. 408; 886, p. 620; 910, p. 22; 940, p. 22; *948, p. 20; *990, p. 24). McBride. Formerly owned by Herman Markman. Taps water table. Beginning Dec. 11, 1944, measuring point (2), top of concrete pump support and well cover at 3-inch hole, 0.30 foot above land-surface datum. Water levels, in feet below land-surface datum, 1944: Jan. 22, 5.62; Dec. 11, 5.05.

6N/35-36C1 (*777, p. 158; *817, p. 254; 840, p. 345; 845, p. 410; 886, p. 622; 910, p. 24; 940, p. 24; *948, p. 22; *990, p. 26). Mr. Redfern. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 21, Dry; Dec. 11, Dry.

6N/35-36H1 (*777, p. 159; *817, p. 255; 840, p. 345; 845, p. 411; 886, p. 622; 910, p. 24; 940, p. 24; *948, p. 22; *990, p. 26). US 108. Walter Hermann. Taps water table. Except as indicated by footnote, levels are from float-gage readings by owner.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	36.65	Mar. 15	30.74	June 4	11.02	Oct. 14	30.84
5	36.92	16	29.90	8	12.58	18	31.82
12	37.65	19	25.99	14	14.73	25	34.16
18	38.15	20	25.19	17	16.32	29	35.63
20	38.38	22	23.67	19	17.16	Nov. 3	36.97
25	39.01	26	21.51	23	19.26	5	37.51
27	39.21	28	20.85	28	19.72	8	38.01
28	39.26	Apr. 2	19.83	July 15	24.14	10	38.35
Feb. 1	39.37	8	17.73	18	24.85	12	38.62
6	39.19	10	17.21	22	25.79	21	39.61
9	38.51	14	16.72	26	25.82	24	39.93
10	38.26	19	15.82	29	25.98	26	40.12
14	35.26	23	14.70	Aug. 4	27.61	29	40.38
16	34.16	28	13.61	7	27.72	Dec. 4	40.83
18	33.61	May 3	12.40	15	28.93	7	40.72
22	33.54	8	10.89	21	29.13	11	a 39.60
24	33.57	10	10.67	27	30.10	12	39.59
27	33.87	15	10.09	Sept. 7	30.10	15	39.63
Mar. 1	33.91	19	9.26	11	30.36	20	39.40
6	34.11	24	8.73	24	30.04	23	39.25
10	33.97	29	9.95	28	29.33	28	39.84
12	33.44	June 2	10.58	Oct. 10	a 29.34		

a Tape measurement by Geological Survey.

Union County - Grande Ronde Valley

Grande Ronde subprovince

1/39-17L1 (*910, p. 21; 940, p. 24; *948, p. 23; *990, p. 27). A. F. Furman. Taps water table. Water level, in feet below land-surface datum, 1944: Oct. 11, 24.05.

2/39-26F1 (*817, p. 242; 845, p. 406; 886, p. 617; 910, p. 21; 940, p. 24; *948, p. 23; *990, p. 27). Union County. Taps water table. Well abandoned; measurements discontinued.

3/38-10B1 (*817; p. 242; 845, p. 406; 886, p. 617; 910, p. 21; 940, p. 24; *948, p. 23; *990, p. 27). Union County. Taps water table. Water level, in feet below land-surface datum, 1944: Oct. 11, 6.85.

3/38-25B1 (*817, p. 242; 845, p. 406; 886, p. 617; 910, p. 21; 940, p. 24; *948, p. 23; *990, p. 27). Union County. Taps water table. Water level, in feet below land-surface datum, 1944: Oct. 11, 9.44.

Yamhill County

Willamette Valley subprovince

5/5W-13B1 (*777, p. 146; *817, p. 257; 845, p. 412; 886, p. 623; *890, p. 150; 940, p. 25; *948, p. 23; *990, p. 27). George Fuller. Taps confined water in gravel and sand. Water levels, in feet below land-surface datum, 1944: Jan. 1, 13.80; Oct. 7, 20.50.

6N/35-20Q1 (*777, p. 156; *817, p. 251; 840, p. 343; 845, p. 408; 886, p. 620; 910, p. 22; 940, p. 22; *948, p. 21; *990, p. 24). R. P. Lile. Formerly owned by Mr. Jackson. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 21, 34.18; Dec. 11, 30.23.

6N/35-21H1 (*777, p. 156; *817, p. 251; 840, p. 343; 845, p. 408; 886, p. 620; 910, p. 22; 940, p. 22; *948, p. 21; *990, p. 24). Mr. Behnke. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 21, 24.37; Dec. 11, 24.74 (water entering well from nearby ditch. Drilled portion of well capped in non-pumping season).

6N/35-24C1 (*777, p. 156; *817, p. 252; 840, p. 343; *845, p. 409; 886, p. 620; 910, p. 22; 940, p. 22; *948, p. 21; *990, p. 25). William Pomeringin. Taps water table. Beginning Dec. 11, 1944, measuring point (3), top edge of 2- by 4-inch floor stringer, approximately at land-surface datum. Water levels, in feet below land-surface datum, 1944: Jan. 22, 29.99; Dec. 11, 32.18.

6N/35-24Q1 (*777, p. 156; *817, p. 252; 840, p. 344; 845, p. 409; 886, p. 620; 910, p. 22; 940, p. 22; *948, p. 21; *990, p. 25). C. B. Miller. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 20, 15.09; Dec. 11, 21.45.

6N/35-26C2 (*777, p. 157; *817, p. 252; 840, p. 344; *845, p. 409; 886, p. 620; 910, p. 22; 940, p. 23; *948, p. 21; *990, p. 25). Earl Ranson. Formerly owned by Boerstler Estate. Taps water table. Beginning Dec. 11, 1944, measuring point (4), top of north edge of 4- by 4-inch stringer, 0.48 foot above land-surface datum. Water levels, in feet below land-surface datum, 1944: Jan. 22, 20.65; Dec. 11, 27.67.

6N/35-26P1 (*777, p. 157; *817, p. 252; 840, p. 344; 845, p. 409; 886, p. 621; 910, p. 23; 940, p. 23; *948, p. 21; *990, p. 25). O. K. Goodman Estate. Taps water table. Except as indicated by footnote, levels are from float-gage readings by Mrs. Nadine Goodman Whipple.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	(a)	Apr. 10	39.22	Apr. 18	39.55	Apr. 26	39.08
16	42.01	12	38.12	20	39.68	28	39.24
18	42.03	14	39.01	22	39.68	Aug. 16	bc39.87
20	(a)	16	39.42	24	38.92	Dec. 11	(d)
Apr. 8	40.16						

a Observations made on all even-numbered days; until Apr. 28.
b Tape measurement by Geological Survey.
c Float gage removed from well.
d Dry.

6N/35-28H1 (*777, p. 157; *817, p. 253; 840, p. 345; *845, p. 410; 886, p. 621; 910, p. 23; 940, p. 23; *948, p. 22; *990, p. 25). W. J. Rand. Taps water table. Beginning Dec. 11, 1944, measuring point (4), base of 2-foot-square raised wood collar on well, 0.55 foot above land surface datum. Water levels, in feet below land-surface datum, 1944: Jan. 21, 11.77; Dec. 11, 10.72.

6N/35-28N1 (*777, p. 157; *817, p. 254; 840, p. 345; 845, p. 410; 886, p. 621; 910, p. 23; 940, p. 23; *948, p. 22; *990, p. 26). Lottie McKnight. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 21, 22.56; Dec. 11, 12.13.

6N/35-30M1 (*777, p. 158; *817, p. 254; 840, p. 345; 845, p. 410; *886, p. 621; 910, p. 24; 940, p. 23; *948, p. 22; *990, p. 26). Thad Shepherd. Formerly owned by S. E. Givens. Taps water table. Water levels, in feet below land-surface datum, 1944: Jan. 21, 19.03; Dec. 11, 24.81.

6N/35-34C1 (*777, p. 158; *817, p. 254; 840, p. 345; 845, p. 410; 886, p. 622; 910, p. 24; 940, p. 24; *948, p. 22; *990, p. 26). Alpha Reese. Taps Water table. Water levels, in feet below land-surface datum, 1944: Jan. 21, 45.53; Dec. 11, 44.43.

UTAH

By P. E. Dennis and W. B. Nelson

PROGRAM OF WORK

Ground-water investigations in Utah, in cooperation with the State engineer, have been in progress since 1935. These investigations include two interrelated programs, which may be designated as (1) a yearly State-wide inventory of ground-water storage based on periodic measurements and on continuous records of water-level fluctuations in selected wells in each of the ground-water basins, and (2) detailed studies of individual basins to determine the source, movement, and disposal of the ground water and to show the relation of present development to the maximum economic development possible in those areas.

The relative amounts of water stored from year to year in underground reservoirs may be determined from the measurement of water levels in wells in much the same way that storage in a surface reservoir is determined from observation of its stages. Records of water-level fluctuations in wells are useful, also, in determining the periods and amounts of natural recharge, the effects of natural and artificial discharge, and the direction of movement of the water. Moreover, they bring to light many other items of value in an investigation. The usefulness of the measurements increases, in general, with the length of the record. Long-time records are especially valuable in detailed studies of the source, movement, and disposal of ground water in individual basins, and the State-wide inventory thus serves not only as a yearly inventory of ground-water storage but also as a source of basic data for subsequent detailed studies.

The State-wide inventory now includes records of measurements made in about 45 ground-water areas, among which are most of the areas in the State in which wells have been developed. (See fig. 4.) In each of these ground-water areas the selected observation wells, unless flowing, are measured periodically with a steel tape; flowing wells are measured with a mercury manometer. In many of the areas one or more wells are equipped

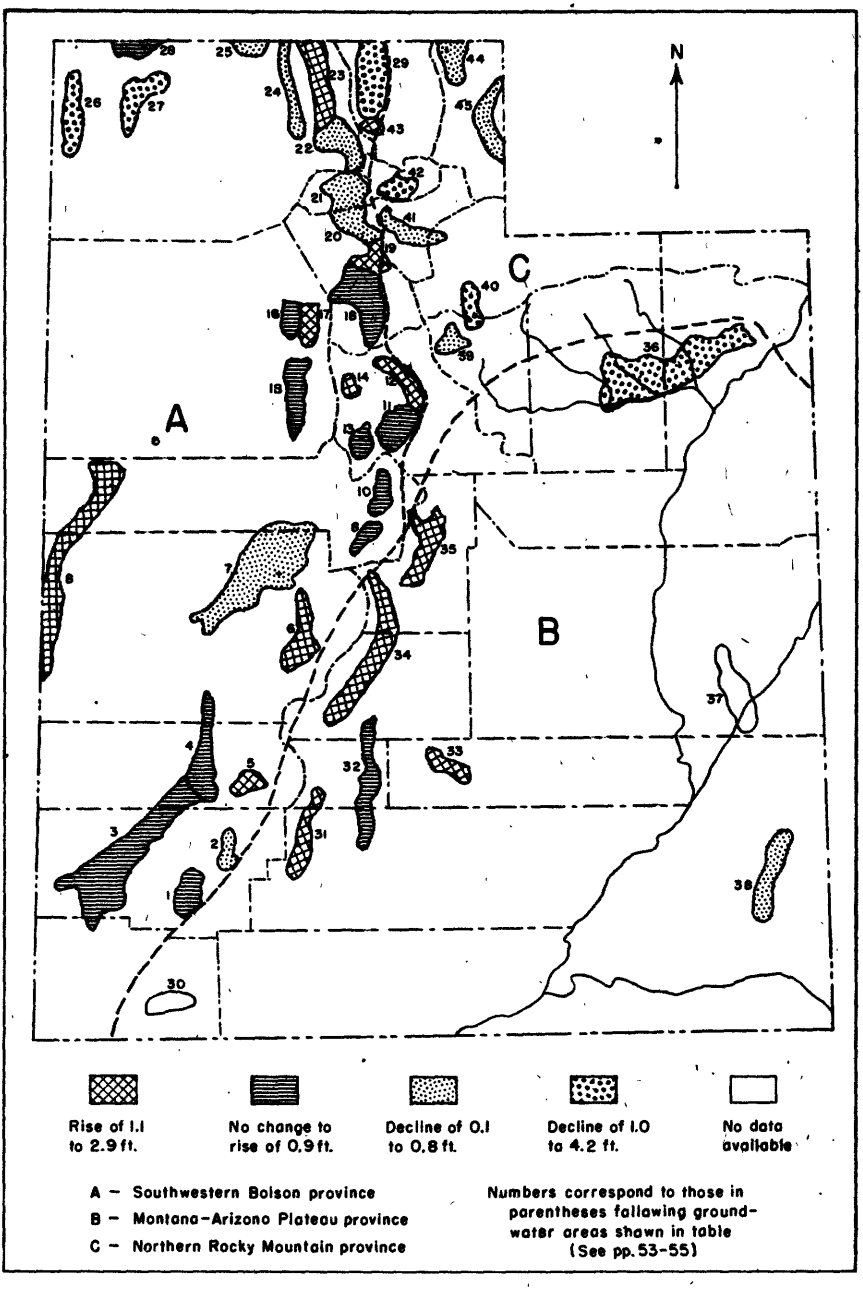

Figure 4.--Map of Utah showing location of ground-water areas and average change in water levels during 1944.

with automatic water-stage or pressure recorders, which are serviced once a week. During 1944 automatic water-stage or pressure recorders were maintained in 36 wells, and 4,194 measurements, distributed among 747 wells, were made.

In 1935 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 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 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 carry out the supervision and to make equitable adjudications of ground-water rights, it is necessary for the State engineer to obtain all possible data as to diversions of ground water already made and the amount, if any, of unappropriated ground water in each area. Because ground water moves through and is stored in the interstices of rock materials, where it cannot be directly observed, it is necessary to obtain measurements of the storage, movement, recharge, and discharge indirectly by an application of the geologic and hydrologic principles of its occurrence. The detailed studies of individual ground-water basins are made to provide these basic data. During 1944 a report was completed on the ground water in the vicinity of Ogden, Utah, and a report on underground leakage from artesian wells in the Flowell area, near Fillmore, Utah, was published by the State engineer. Similar detailed investigations were in progress in the South Pavant Valley in Millard County and in the East Shore area of Weber and Davis Counties.

Several agencies assisted the Geological Survey in making measurements in observation wells included under the State-wide program. Thus, measurements were made in Utah County by the Office of the State Engineer, in

1/ For a complete compilation of the statutes relating to water in Utah, see Watson, Ed. H., Water laws of Utah, including statutes enacted by the 1943 Legislature, 1943.

Salt Lake County by the Salt Lake City Corporation, in Wasatch County by the Provo River Water Commissioner and the Bureau of Reclamation of the U. S. Department of the Interior, and in Millard County by the War Relocation Authority.

The following table shows, by counties and areas within counties, the number of observation wells in Utah in 1944, the number in which observations were discontinued, the number of automatic water-stage and pressure recorders in use, and the number of periodic measurements included in this report. The well descriptions and records of water levels on pages 61-145 are listed in the order followed in this table.

Distribution, by counties and areas, of observation wells in Utah in 1944

County	Number of observation wells		Number of periodic measurements	Wells with recording gages		
	During 1944	Discontinued during year		Throughout year		Part of year
				Float	Pressure	
Beaver						
Beaver Valley	8	0	25	0	0	0
Escalante Valley	81	14	215	2	0	0
Box Elder						
East Shore area	15	0	97	1	0	0
Lower Bear River Valley	4	0	7	0	0	0
Mantua Valley	2	0	6	0	0	0
West Box Elder area						
Blue Spring Valley	3	0	3	0	0	0
Curlew Valley	3	0	3	0	0	0
Grouse Creek Valley	3	0	3	0	0	0
Park Valley	6	0	6	0	0	0
Raft River Valley	3	0	3	0	0	0
Cache						
Cache Valley	19	0	87	0	1	0
Davis						
East Shore area						
North Davis Basin	10	0	68	1	0	0
South Davis Basin	13	0	125	0	2	0
Duchesne						
Uinta Basin	25	2	75	1	0	0
Garfield						
East Sevier Valley	5	0	9	0	0	0
Upper Sevier Valley	5	0	10	0	0	0
Grand						
Colorado River area	3	0	0	0	0	0
Iron						
Cedar City Valley						
Coal Creek District	6	0	70	1	0	0
Enoch District	4	0	7	0	0	0
Hamilton Fort District	2	0	2	0	0	0
Iron Springs District	5	1	5	0	0	0
Kanarraville District	3	0	3	0	0	0
Midvalley District	5	0	6	0	0	0

Distribution, by counties and areas, of observation wells in Utah in 1944--Continued

County	Number of observation wells		Number of periodic measurements	Wells with recording gages		
	During 1944	Discontinued during year		Throughout year		Part of year
				Float	Pressure	
Iron						
Cedar City Valley						
Quaatchupah District	3	0	3	0	0	0
Rush Lake District	3	0	3	0	0	0
Escalante Valley	89	9	96	0	0	0
Parowan Valley						
Buckhorn District	2	0	4	0	0	0
Little Salt Lake District	7	0	16	0	0	0
Paragonah District	4	0	6	0	0	0
Parowan District	7	0	14	0	0	0
Summit District	1	0	1	0	0	0
Juab						
Chicken Creek Valley	4	0	8	0	0	0
Juab Valley	6	0	11	0	0	0
Snake Valley	7	0	6	0	0	0
Millard						
Escalante Valley	6	0	6	0	0	0
North Pavant Valley	6	1	30	0	0	0
South Pavant Valley						
Fillmore District	4	0	27	0	0	0
Flowell District	35	2	326	3	0	1
Hatton District	5	0	31	0	0	0
Kanosh District	4	0	4	0	0	0
Meadow District	8	1	59	0	0	1
Sevier Desert	28	1	157	0	0	0
Snake Valley	8	0	8	0	0	0
Morgan						
Morgan Valley	13	0	26	0	0	0
Piute						
Grass Valley	2	0	3	0	0	0
Upper Sevier Valley	3	0	6	0	0	0
Rich						
Bear Lake Valley	12	1	12	0	0	0
Upper Bear River Valley	8	0	8	0	0	0
Salt Lake						
Jordan Valley	35	2	531	3	1	1
San Juan						
San Juan River area	4	0	48	0	0	0
Sanpete						
Central Sevier Valley	5	0	9	0	0	0
Sanpete Valley	25	0	158	0	1	0
Sevier						
Central Sevier Valley	12	0	74	0	1	0
Grass Valley	4	0	4	0	0	0
Summit						
Rhodes Valley	12	0	21	0	0	0
Tooele						
Rush Valley	11	1	22	0	0	0
Salt Lake Desert	2	0	0	0	0	0
Tooele Valley						
Burmester District	8	1	14	0	0	0
Erda District	12	0	199	2	0	0
Grantsville District	9	0	67	1	0	0
Lake Point District	4	0	7	0	0	0

Distribution, by counties and areas, of observation wells in Utah in 1944--Continued

County	Number of observation wells		Number of periodic measurements	Wells with recording gages		
	During 1944	Discontinued during year		Throughout year		Part of year
				Float	Pressure	
Tooele						
Tooele Valley						
Marshall District	2	0	4	0	0	0
Uintah						
Uinta Basin	10	0	10	0	0	0
Utah						
Cedar Valley	2	0	4	0	0	0
Goshen Valley	3	0	6	0	0	0
Utah Lake Valley						
North Utah Basin	25	1	816	0	0	2
South Utah Basin	16	0	62	0	1	0
Wasatch						
Heber Valley	7	0	183	3	0	0
Washington						
Escalante Valley	6	0	6	0	0	0
Virgin River area	2	0	0	0	0	0
Wayne						
Fremont Valley	3	0	3	0	0	0
Weber						
East Shore area	46	0	291	1	1	2
Ogden Valley	10	0	114	2	0	0
	747	36	4,194	21	8	7

FLUCTUATIONS OF WATER LEVEL

Utah lies within three ground-water provinces as outlined by Meinzer,[2] the Southwestern Bolson province, the Montana-Arizona Plateau province, and the Northern Rocky Mountains province. These ground-water provinces are approximately coextensive with the Utah portions of the Basin and Range, Colorado Plateau, and Middle Rocky Mountains physiographic provinces as outlined by Fenneman.[3] The characteristics of the ground-water areas in each of these provinces have been described in an earlier report.[4] In the following table the ground-water areas in the State are grouped according to ground-water provinces and are listed approximately in order from south to north within the provinces. For each area a group of representative observation wells has been selected and net changes in water levels

2/ Meinzer, O. E., The occurrence of ground water in the United States: U. S. Geol. Survey Water-Supply Paper 489, pp. 309-314, 1923.

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

4/ Thomas, H. E., and Bach, W. K., Utah, in Water levels and artesian pressure in observation wells in the United States in 1940, pt. 5, Northwestern States: U. S. Geol. Survey Water-Supply Paper 910, p. 35, 1941.

in these wells have been computed for each year since 1935. The computations are based on measurements made at the same time each year on the same group of wells. December measurements are used in most areas, for they have been found to represent the highest water levels attained during the year and to be least influenced by discharging wells. In some areas the October measurements have been found to give better comparative values. The tabulated net rise or decline of water level in an area is the mathematical average of changes in water level in the selected group of wells and may be considerably different from the changes in water level in wells in any given part of the area. Therefore, the figures are intended to show only the general trend of water levels from year to year in each area. The numbers in parentheses following the names of the ground-water areas in the table correspond to numbers on the map indicating the areas. (See fig. 4.)

Summary for 1944 of net changes in water level, in feet, in observation wells in Utah, and precipitation, in inches, during the year

Ground-water area	No. of observation wells	Average net change in group of observation wells	Precipitation at nearest U. S. Weather Bureau station		
			Station	Total precipitation	Departure from normal
SOUTHWESTERN BOLSON PROVINCE					
Iron County:					
Cedar City Valley (1)	31	+0.2	Cedar City	10.73	-2.45
Parowan Valley (2)	12	-.4			
Escalante Valley (3)	21	+.1	Modena	8.57	-1.57
Beaver County:					
Escalante Valley (4)	16	+.6	Milford	8.06	-.54
Beaver Valley (5)	4	+2.4	Beaver	11.18	-1.47
Millard County:					
Pavant Valley (6)	11	+2.0	Fillmore	15.28	+.98
Sevier Desert (7)	11	-.2	Deseret	7.85	-.31
Millard and Juab Counties:					
Snake Valley (8)	13	+1.5			
Juab County:					
Chicken Creek Valley (9)	3	+.5	Levan	16.17	+1.35
Juab Valley (10)	6	+.9	Nephi	12.63	-.12
Utah County:					
Utah Lake Valley [a]					
South Utah Basin (11)	11	+.7	Payson	16.52	+.20
North Utah Basin (12)	11	+1.2	Utah Lake	11.55	-1.52
Goshen Valley (13)	3	+.7	Elberta	10.52	0
Cedar Valley (14)	2	+1.6			

a This unit has 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 of the State engineer of Utah, pp. 122-127, 1940.

Summary for 1944 of net changes in water level, in feet, in observation wells in Utah and precipitation, in inches, during the year--Continued

Ground-water area	No. of observation wells	Average net change in group of observation wells	Precipitation at nearest U. S. Weather Bureau station		
			Station	Total precipitation	Departure from normal
SOUTHWESTERN BOLSON PROVINCE--CONTINUED					
Tooele County:					
Rush Valley (15)	3	0	Government Creek	16.52	+3.37
Tooele Valley	8	+1.0	Tooele	19.53	+2.55
Grantsville Basin[a] (16)	5	0			
Erda Basin[a] (17)	3	+1.1			
Salt Lake County:					
Jordan Valley (18)	30	+.1	Salt Lake City	18.87	+2.74
Davis County:					
East Shore area	14	+1.1	Farmington	20.92	+.47
South Davis Basin[a] (19)	8	+1.7			
North Davis Basin[a] (20)	6	-.6	Farmington	20.92	+.47
Weber County:					
East Shore area (21)	18	-.5	Ogden	20.95	+3.38
Box Elder County:					
East Shore area (22)	7	-.1	Brigham	20.41	+3.44
Lower Bear River Valley (23)	7	+1.7	Garland	15.57	+.08
West Box Elder area [a]					
Blue Spring Valley (24)	2	-.4			
Curlew Valley (25)	2	-.2	Snowville	13.83	+3.14
Grouse Creek Valley (26)	1	-4.2			
Park Valley (27)	5	-1.9	Park Valley	10.45	+.04
Raft River Valley (28)	3	+.1			
Cache County:					
Cache Valley (29)	12	-2.0	Logan	18.88	+2.35
MONTANA-ARIZONA PLATEAU PROVINCE					
Washington County:					
Virgin River area (30)	2	(b)	Zion Nat'l Park	17.29	+3.72
Garfield and Piute Counties:					
Upper Sevier Valley (31)	9	+2.8	Panguitch	7.61	-1.92
Piute and Sevier Counties:					
Grass Valley (32)	5	+.8			
Wayne County:					
Fremont Valley (33)	3	+1.1	Loa	5.09	-2.26
Sevier and Sanpete Counties:					
Central Sevier Valley (34)	13	+1.8	Richfield	9.12	+.76
Sanpete County:					
Sanpete Valley (35)	15	+2.9	Manti	13.73	+1.52

a This unit has 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 of the State engineer of Utah, pp. 122-127, 1940.

b Not measured.

Summary for 1944 of net changes in water level, in feet, in observation wells in Utah and precipitation, in inches, during the year--Continued

Ground-water area	No. of observation wells	Average net change in group of observation wells	Precipitation at nearest U. S. Weather Bureau station		
			Station	Total precipitation	Departure from normal
MONTANA-ARIZONA PLATEAU PROVINCE--CONTINUED					
Duchesne and Uintah Counties: Uinta Basin (36)	13	-1.0	Duchesne	8.22	-1.27
Grand County: Colorado River area (37)	3	(b)			
San Juan County: San Juan River area (38)	5	-.3			
NORTHERN ROCKY MOUNTAINS PROVINCE					
Wasatch County: Heber Valley (39)	5	-0.7	Heber	14.69	+2.06
Summit County: Rhodes Valley (40)	10	-1.7			
Morgan County: Morgan Valley (41)	10	-.5	Morgan	13.74	-5.87
Weber County: Ogden Valley (42)	7	-1.1			
Box Elder County: Mantua Valley (43)	2	+1.7			
Rich County: Bear Lake Valley (44)	12	-.6	Laketown	10.18	-2.92
Upper Bear River Valley (45)	6	-.8	Woodruff	10.33	+.59

b Not measured.

The trend of water-level fluctuations in Utah in 1944 as compared to 1943 was upward in a majority of the ground-water basins. Of the 45 basins, 23 showed a net rise of from 0.1 foot to 2.9 feet, 2 remained the same, 2 were not measured, and 18 showed a net decline of from 0.1 foot to 4.2 feet. Rises occurred in all except two of the basins in the south and southwestern part of the State and most of the declines occurred in the north and northeastern part of the State. A majority of the more heavily developed basins showed a net rise in water levels, and for the State as a whole there was probably a net increase in ground-water storage over the preceding year. Five large and important basins and two minor basins reached average water levels that were as high as or higher than those for any other year for the period of record, which began in 1935 or 1936. The

major basins were Pavant Valley, in Millard County; Central Sevier Valley, in Sanpete and Sevier Counties; Sanpete Valley, in Sanpete County; Utah Lake Valley, in Utah County; and Tooele Valley, in Tooele County. Rises were especially noteworthy in the Erda District of Tooele Valley, where the lowest levels of record were attained in 1939 and where net rises have occurred in every year since that time. The total net rise in that district for the 5 years is 7.7 feet. The minor basins that are at their highest water levels for the period of record are Rush Valley, in Tooele County, and Chicken Creek Valley, in Juab County.

The hydrographs in figure 5 show water-level fluctuations in five wells that are more or less representative of the type of fluctuations in the ground-water basins in which they are located. Similar hydrographs of representative wells in other basins have appeared in Water-Supply Papers 886, 940, and 990.

The well near Woods Cross is in the western part of the South Davis Basin. Since 1935 the water levels in this well have ranged between -2.6 feet and +15.1 feet. The lowest water levels occurred in 1935, 1939, and 1940 and the highest levels in 1936, 1937, 1938, 1942, and 1944. In 1942 the well attained water levels nearly 5 feet above previous high levels. This was a year of high water levels throughout the State, resulting largely from heavy precipitation in 1941. However, water-spreading operations on the higher parts of the alluvial slopes at the east margin of the South Davis Basin may have contributed also to the high water levels. In this well variations in water levels from year to year almost completely mask any tendency to seasonal fluctuations, which is in marked contrast to the water levels in the other four wells. Although not as marked in this well as in other observation wells in the basin, the relatively favorable levels in 1944 are evident, being higher than those of 1943 but somewhat lower than the peak in 1942.

The well near Lehi shows a strong seasonal fluctuation, the decline in the summer months resulting from the opening of nearby wells and large irrigation withdrawals. This is one of the observation wells most distantly removed from the recharge area of this basin and there is a noticeable lag in its response to rising and declining levels in the wells situated nearer to the recharge area. Characteristic fluctuations throughout the

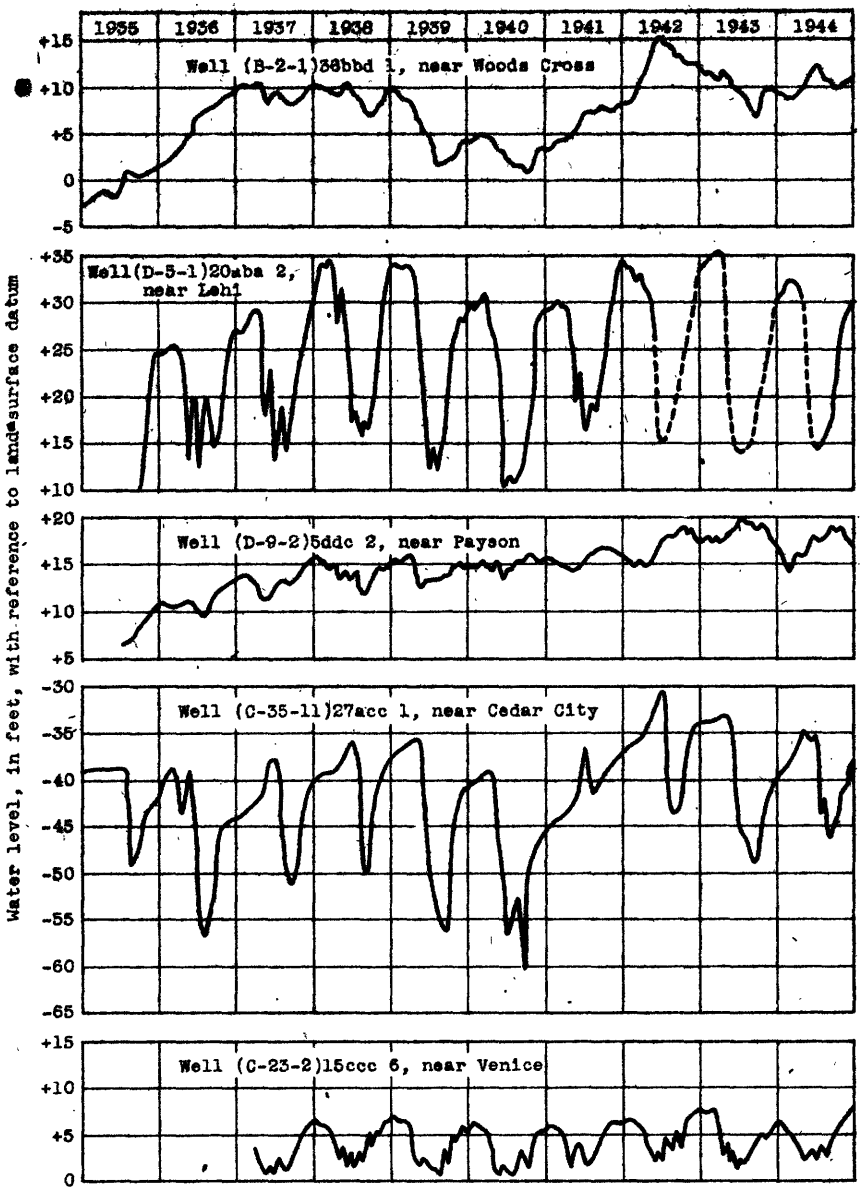

Figure 5.--Graphs showing fluctuations of water level in wells near Woods Cross, Lehi, Payson, Cedar City, and Venice, Utah, 1934-44.

basin are the continuous rise from 1935 to 1938, the marked decline in 1939 and 1940, the sharp rise in 1941 and 1942, and the minor decline in 1943. The average water levels in the basin were almost as high in 1944 as they were in 1941 and 1942 but the rise is not yet shown in the well near Lehi.

The seasonal fluctuations in the well near Payson are very much smaller than those in the well near Lehi. There are fewer wells that influence the Payson well and they have smaller yields than those which influence the Lehi well. A number of the wells in the vicinity of the Payson well flow continuously while most of the wells in the vicinity of the Lehi well are closed during the nonirrigation season. These facts may account, in part at least, for the smaller seasonal fluctuations in the well near Payson. The general differences in the graphs, however, express in some measure a difference which has been noted in the average fluctuations of wells in the North and South Utah Basins. The fluctuations in the south basin are more gradual and of smaller magnitude than those in the north basin, perhaps because of a greater lag and the consequent flattening out of the effects of natural recharge. For example, the decline for 1939 and 1940 shown in the graph of the well near Lehi, is represented in the graph for the well near Payson merely in a flattening off of the upward trend.

The fluctuations of the water levels in the well near Cedar City show the effects of heavy summer withdrawals for irrigation. This hydrograph differs from the other four shown in that the water levels attained in 1940 were slightly lower than those in 1935 and 1936. The recharge in 1941 was so great that it nearly prevented decline due to pumping. The effects of this recharge carried over into the first half of 1942, when the highest water levels for the period of record were attained.

The well near Venice has fluctuated very little during the period of record. A small but prominent seasonal fluctuation occurs with the opening and closing of nearby irrigation wells. The change in water levels from year to year has been very small although a slight effect of the dry years of 1939, 1940, and 1943 and the wet years of 1941 and 1942 can be detected.

It will be noted that there has been no continuous decline or rise of water levels in any of the wells and that there is a general correspondence in all five wells of periods of high water levels and periods of low water

levels. These fluctuations are of the type one would expect if the regimen had not been profoundly disturbed by excessive ground-water development. The recharge appears to balance the discharge, both natural and artificial, as shown in all five well, for the water levels completely recover after years of normal or above-normal precipitation. The highest water levels attained during the last 3 years are as high or higher than those attained in earlier years in spite of the fact that the amount of water withdrawn from wells in some of these areas was greater in the later years than it was in the earlier years. An examination of the published water levels for the numerous observation wells in all parts of the State shows that the hydrographs of figure 5 are exceptional only in the length and completeness of the records and that fluctuations in other wells bear out the inferences which may be drawn from the graphs. Thus, it appears that the control of ground-water development, placed in the hands of the State engineer, has been effective in preventing overdevelopment in all areas of the State, serious declines in water levels having been noted in only a few restricted areas where wells drilled prior to 1935 are so closely spaced as to cause excessive interference with one another.

The problem of post-war expansion in agriculture, industry, and commerce is paramount at the present time, and in Utah the first prerequisite to any type of expansion is a source of adequate water supply. The fact that additional supplies of water may be obtained from some of the ground-water reservoirs in the State will be recognized in this peacetime conversion program, and a limited expansion in ground-water utilization may be permitted under the guidance and supervision of the State engineer.

WELL-NUMBERING SYSTEM

The numbers used in listing the observation wells in Utah indicate their location with reference to land subdivision, according to a system adopted by the State engineer. The greater part of Utah was surveyed from the Salt Lake base and meridian, which, according to the system adopted, divide the State into quadrants, designated as A, B, C, and D, in the order shown in the accompanying diagram. The well number is made up of two main

B	A
C	D

parts. The first part, enclosed in parentheses, consists of a letter and two numbers representing the quadrant, township and range; the second part represents the section, progressively smaller subdivisions of the section, and the serial number of the well in the smallest subdivision given. The subdivisions of the section are the quarter section, the 40-acre tract within the quarter section, and the 10-acre tract within the 40-acre tract, each indicated by a lower case letter a, b, c, or d, assigned in the same order as the capital letters in the diagram above, a indicating the northeast quarter, b the northwest quarter, c the southwest quarter, and d the southeast quarter. Thus well (C-26-10)32cad 1 is in the SE¼NE¼SW¼ sec. 32, T. 26 N., R. 10 W., and is well 1 in that tract.

Part of Utah, in Duchesne and Uintah Counties, was surveyed from the Uinta special base and meridian. The numbers used in listing observation wells in this area follow the system explained above, except that they are preceded by the capital letter U.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

The records for many of the wells listed in this report include the number assigned the State claim or application for the well as used in the State engineer's records. The claim number, however, is given only for those wells that were used before the passage of the ground-water law in March 1935.[5/] All altitudes were determined by spirit leveling by the staff of the State engineer's office or the Federal Geological Survey with the exception of those for some of the wells in Wasatch County, whose altitudes were established by the Bureau of Reclamation, United States Department of the Interior. 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 pressure head.

After many of the county names under which the wells are grouped in the following list the name of the appropriate ground-water area has been added.

5/ See "Water laws of Utah--laws of the State of Utah relating to water and water rights," compiled by T. H. Humpherys, State engineer, and published by the State of Utah, 95 pp., 1941.

Beaver County - Beaver Valley

(C-28-7)16aaa 1 (*940, p. 37; 948, p. 38; *990, p. 39). Water levels, in feet below land-surface datum, 1944: Mar. 11, 68.50; Dec. 6, 63.73.

(C-28-7)21add 1 (*886, p. 773; 910, p. 40; 940, p. 37; 948, p. 38; *990, p. 39). State claim 8118. E. F. Baldwin. Water level, in feet below land-surface datum, 1944: Mar. 11, 17.98. Measurements discontinued.

(C-28-7)21daa 1 (*317, p. 417; *840, p. 559; 845, p. 562; *886, p. 773; 910, p. 40; 940, p. 37; 948, p. 38; 990, p. 39). E. F. Baldwin. Water levels, in feet below land-surface datum, 1944: Mar. 11, 11.21; Dec. 6, 17.36.

(C-29-7)3cbb 1 (*845, p. 564; *886, p. 776; 910, p. 46; 940, p. 37; 948, p. 38; *990, p. 39). Harry Hodges. Water levels, in feet below land-surface datum, 1944: Mar. 11, 21.10; Dec. 6, 19.45.

(C-29-7)17cdd 1 (*817, p. 420; *840, p. 561; 845, p. 564; *886, p. 777; 910, p. 46; 940, p. 37; 948, p. 38; *990, p. 39). State claim 6919. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Mar. 11, 24.08; Dec. 6, 19.35.

(C-29-7)28dbd 1 (*817, p. 420; 840, p. 562; 845, p. 564; 886, p. 777; *910, p. 46; *940, p. 37; 948, p. 38; *990, p. 39). J. A. Nower.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	20.00	Apr. 27	16.80	Aug. 28	15.00	Nov. 28	18.15
Feb. 26	20.30	May 26	12.90	Sept.27	16.70	Dec. 6	18.14
Mar. 11	20.32	June 27	12.30	Oct. 29	17.10	30	18.64
27	20.20	July 27	13.20				

(C-29-8)25cac 1 (*817, p. 420; *840, p. 562; 845, p. 565; 886, p. 777; 910, p. 46; 940, p. 37; 948, p. 38; *990, p. 39). State claim 13115. Beaver School District. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 11, 12.65; Dec. 6, 12.4.

(C-29-8)30acc 1 (*817, p. 420; *840, p. 562; 845, p. 565; 886, p. 777; 910, p. 46; 940, p. 37; 948, p. 38; *990, p. 40). State claim 8119. Drought Relief Administration. Measurements discontinued after March 9, 1943.

Beaver County - Escalante Valley 6/

(C-26-10)13cdd 1 (*940, p. 37; 948, p. 38; 990, p. 40). G. A. Hansen. Water level, in feet below land-surface datum, 1944: Nov. 24, 65.15; measurements discontinued.

(C-26-10)31add 1 (*990, p. 40). State claim 10259. Burton Smithson. Water level, in feet below land-surface datum, 1944: Nov. 24, 6.24.

(C-26-10)32cad 1 (*317, p. 416; *840, p. 559; 845, p. 562; 886, p. 773; 910, p. 40; 940, p. 37; 948, p. 38; 990, p. 40). State claim 10257. Burton Smithson. Water levels, in feet below land-surface datum, 1944: Mar. 12, 12.76; Nov. 24, 13.32.

(C-27-10)6dac 1 (*940, p. 37; 948, p. 38; 990; p. 40). State claim 7520. J. H. Hedges. Measurements discontinued after Dec. 6, 1943.

(C-27-10)18da (*940, p. 37; 948, p. 38; *990, p. 40). Hazel Cannon. Water levels, in feet below land-surface datum, 1944: Mar. 12, 13.33; Nov. 24, 13.97.

6/ For other wells in this valley see pages 83-88, 91, 137-138.

(C-27-10)21abb 1 (*817, p. 416; *840, p. 559; 845, p. 562; 886, p. 773; 910, p. 40; *940, p. 38; 948, p. 39; 990, p. 40). State claim 11459. John Armstrong & Sons. Water levels, in feet below land-surface datum, 1944: Mar. 12, 54.77; Nov. 24, 54.71.

(C-27-10)29dbc 1 (*910, p. 40; 940, p. 38; 948, p. 39; *990, p. 40). State claim 131113. Milford State Bank. Water levels, in feet above land-surface datum, 1944: Mar. 12, 7.5; Nov. 24, 7.0.

(C-28-10)5daa 1 (*940, p. 38; 948, p. 39; *990, p. 40). W. J. Burns. Measurements discontinued after March 10, 1943.

(C-28-10)6abb 2 (*845, p. 562; 886, p. 773; 910, p. 40; *940, p. 38; 948, p. 39; *990, p. 40). State application 11917. Asa Dixon. Water level, in feet below land-surface datum, 1944: Mar. 12, 71.79. Measurements discontinued.

(C-28-10)6ddc 1 (*910, p. 40; 940, p. 38; 948, p. 39; 990, p. 40). State claim 13114. Beaver County School District. Water levels, in feet below land-surface datum, 1944: Mar. 12, 61.99; Nov. 24, 63.02.

(C-28-10)7abb 1 (*910, p. 40; 940, p. 38; 948, p. 39; *990, p. 40). State claim 6763. American Telephone & Telegraph Co. No measurements made in 1944. Measurements discontinued after Dec. 6, 1943.

(C-28-10)7bdc 1 (*940, p. 38; 948, p. 39; *990, p. 40). M. M. White. Water levels, in feet below land-surface datum, 1944: Mar. 12, 54.43; Nov. 24, 55.48.

(C-28-10)8cdd 1 (*910, p. 40; 940, p. 38; 948, p. 39; *990, p. 41). J. R. Murdock. Water levels, in feet below land-surface datum, 1944: Mar. 12, 1.09; Nov. 24, 3.02.

(C-28-10)17ccc 1 (*910, p. 41; 940, p. 38; 948, p. 40; *990, p. 41). State claims 11870 and 17173. Mr. Westfall. Water level, in feet below land-surface datum, 1944: Nov. 25, 5.97.

(C-28-10)18aca 1 (*886, p. 773; *910, p. 41; 940, p. 39; 948, p. 40; *990, p. 41). State claim 1089. Mutual Investment and Finance Co. Water levels, in feet below land-surface datum, 1944: Mar. 12, 3.88; Nov. 25, 5.78.

(C-28-10)19add 1 (*817, p. 417; *840, p. 560; 845, p. 562; *886, p. 774; 910, p. 41; *940, p. 39; *948, p. 40; *990, p. 42). State claim 6564. J. A. Kirk and Sam Cline. Water levels, in feet below land-surface datum, 1944: Mar. 12, 4.95; Nov. 25, 4.84.

(C-28-10)19bbc 1 (*910, p. 41; 940, p. 39; 948, p. 40; 990, p. 42). State claim 6352. C. T. Martin. Water level, in feet below land-surface datum, 1944: Nov. 25, 7.00; measurements discontinued.

(C-28-10)19ddd 1 (*910, p. 41; 940, p. 39; 948, p. 40; *990, p. 42). State claim 2041. Chester Haskell. Water level, in feet below land-surface datum, 1944: Nov. 25, 8.13.

(C-28-10)20ddc 1 (*910, p. 42; 940, p. 39; 948, p. 41; *990, p. 42). State claim 10287. Duluth Land Co. Water levels, in feet below land-surface datum, 1944: Mar. 12, 12.85; Nov. 25, 13.63.

(C-28-10)21cbb 1 (*940, p. 39; 948, p. 41; *990, p. 42). State claim 5695. Beaver County. Water levels, in feet below land-surface datum, 1944: Mar. 12, 16.85; Nov. 25, 15.10; measurements discontinued.

(C-28-10)29ccc 1 (*910, p. 42; 940, p. 40; 948, p. 41; *990, p. 43). State claim 7801. J. H. Weston. Measurements discontinued after Apr. 9, 1943.

(C-28-10)29cdc 1 (*845, p. 563; 886, p. 774; 910, p. 42; *940, p. 40; 948, p. 41; *990, p. 43). State application 11742. J. H. Hanlon.

(C-28-10)29cdc 1. J. H. Hanlon--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	8.95	.....	10.69	.....	.....	14.00	14.78	13.84	.....	....
2	....	....	.....	.....	.....	.....	14.02	14.89	13.54	.....	....
3	....	....	.....	.....	.....	.....	14.21	14.98	12.30	.....	....
4	....	....	7.83	.....	.....	.....	14.13	14.92	.....	.....	....
5	....	....	7.82	.....	.....	.....	14.04	14.90	.....	.....	9.55
6	....	....	7.84	.....	.....	11.88	13.40	.....	.....	.....	....
7	....	....	7.82	.....	11.20	11.99	.....	.....	.....	.....	....
8	....	....	7.82	.....	11.22	12.19	.....	.....	.....	10.07	....
9	....	....	7.83	.....	11.00	12.17	.....	.....	.....	10.03	....
10	....	....	7.86	9.87	12.42	12.13	.....	.....	11.17	10.00	....
11	....	....	7.92	10.01	12.50	12.38	.....	.....	11.12	9.97	....
12	....	....	7.91	.....	12.43	.....	.....	.....	11.06	9.92	....
13	....	....	7.90	.....	12.50	.....	.....	.....	10.90	9.94	....
14	....	....	8.08	.....	.....	.....	.....	.....	10.94	9.93	....
15	9.10	....	8.09	.....	.....	.....	.....	.....	10.89	9.91	....
16	....	....	7.94	.....	.....	.....	13.53	.....	10.84	.....	....
17	....	....	8.01	.....	.....	.....	13.65	.....	.....	.....	....
18	....	8.05	.....	.....	.....	.....	13.51	15.01	.....	.....	....
19	....	8.05	.....	.....	.....	12.25	13.25	15.03	.....	.....	9.34
20	....	8.06	.....	.....	11.68	13.22	13.70	.....	.....	.....	9.33
21	....	8.06	.....	.....	11.66	13.44	13.83	.....	.....	9.81	9.32
22	....	8.06	.....	.....	11.45	13.40	13.87	.....	.....	9.79	....
23	....	8.05	.....	11.20	11.48	13.62	13.85	.....	.....	9.74	....
24	....	8.04	.....	11.17	11.51	13.77	.....	.....	10.52	9.68	....
25	....	8.02	.....	11.26	11.67	13.77	.....	.....	10.52	9.69	....
26	....	8.05	.....	11.19	11.42	13.91	.....	14.55	10.50	.....	....
27	....	8.03	8.26	11.23	11.70	.....	.....	14.92	10.45	.....	....
28	....	8.05	10.13	11.42	.....	.....	.....	14.95	10.54	.....	....
29	....	8.03	10.33	11.17	.....	.....	13.72	14.20	10.38	.....	....
30	....	8.00	10.53	.....	.....	.....	14.69	14.91	10.35	.....	....
31	....	....	.....	.....	.....	.....	14.79	.....	.....	.....	....

(C-28-10)31add 1 (*817, p. 418; 840, p. 561; 845, p. 564; 886, p. 775; 910, p. 44; *940, p. 41; 948, p. 42; 990, p. 44). State claim 7640. P. B. Fisher. Water level, in feet below land-surface datum, 1944: Nov. 25, 11.13.

(C-28-10)32add 1 (*910, p. 44; 940, p. 41; 948, p. 43; 990, p. 44). Duluth Land Co. Water levels, in feet below land-surface datum, 1944: Mar. 12, 13.89; Nov. 25, 14.91.

(C-28-10)33aba 1 (*817, p. 419; 840, p. 561; 845, p. 564; 886, p. 775; 910, p. 45; 940, p. 42). State claim 10281. Duluth Land Co. Measuring point of earlier records is 3.3 feet below land-surface datum. Measurements discontinued after Dec. 1, 1941.

Water level, in feet below land-surface datum, 1942-44

Date	Water level	Date	Water level	Date	Water level
Apr. 16, 1942	17.41	Mar. 10, 1943	22.81	Mar. 12, 1944	21.49
July 24	17.05	Apr. 9	25.74	Nov. 25	15.22
Dec. 9	19.91				

(C-28-10)33aba 2. Dug well 20 feet north of well (C-28-10)33aba 1 described in Water supply-paper 817, p. 419, which was destroyed in 1942. Measuring point, top of concrete curb, 0.9 foot above land-surface datum.

Water level, in feet below land-surface datum, 1941-44

Dec. 1, 1941	17.10	Dec. 9, 1942	19.01	Mar. 12, 1944	20.59
Apr. 16, 1942	16.51	Mar. 10, 1943	21.91	Nov. 25	14.32
July 24	16.15	Apr. 9	24.84		

(C-28-11)13dca 1 (*940, p. 42; 948, p. 43; 990, p. 45). State claim 10324. New Majestic Mining Co. No measurements made in 1944. Measurements discontinued after Dec. 8, 1942.

(C-28-11)13dca 2 (*940, p. 42; 948, p. 43; *990, p. 45). New Majestic Mining Co. No measurements made in 1944. Measurements discontinued after Dec. 8, 1942.

(C-28-11)22dab 1 (*940, p. 42; 948, p. 43; *990, p. 45). Houston & Goff. Water level, in feet below land-surface datum, 1944: Nov. 26, 32.89.

(C-28-11)23aab 1 (*940, p. 42; 948, p. 44; *990, p. 45). Beaver County. Water level, in feet below land-surface datum, 1944: Nov. 26, 22.33. While pumping 5:09 p. m.

(C-28-11)24daa 1 (*886, p. 776; 910, p. 45; *940, p. 42; 948, p. 44; *990, p. 45). State claim 11221. State of Utah. Water levels, in feet below land-surface datum, 1944: Mar. 12, 5.55; Nov. 25, 3.23.

(C-28-11)25abd 1 (*910, p. 45; 940, p. 42; 948, p. 44; 990, p. 46). State claim 10323. Pacific Bond & Mortgage Co. Water level, in feet below land-surface datum, 1944: Nov. 25, 6.35.

(C-28-11)26dcb 1 (*940, p. 43; 948, p. 44; 990, p. 46). N. N. Cook. No measurements made in 1944. Measurements discontinued after Dec. 7, 1942.

(C-28-11)33dac 1 (*940, p. 43; 948, p. 44; *990, p. 46). Beaver County. Water level, in feet below land-surface datum, 1944: Nov. 26, 26,92.

(C-28-11)34bbc 1 (*940, p. 43; 948, p. 44; 990, p. 46). State claim 6677. H. M. Hearn. Water level, in feet below land-surface datum, 1944: Nov. 26, 25.04.

(C-28-11)34cbb 1 (*940, p. 43; 948, p. 44; *990, p. 46). E. M. Nebeker. Water level, in feet below land-surface datum, 1944: Nov. 26, 18.81.

(C-28-11)35ddd 1 (*886, p. 776; 910, p. 45; 940, p. 43; 948, p. 45; *990, p. 46). State claim 3619. State of Utah. Water levels, in feet below land-surface datum, 1944: Mar. 12, 8.79; Nov. 25, 10.90.

(C-28-11)36add 1 (*886, p. 776; 910, p. 45; 948, p. 45; *990, p. 46). State of Utah. Water levels, in feet below land-surface datum, 1944: Mar. 12, 6.74; Nov. 25, 9.46.

(C-28-11)36bba 1 (*817, p. 419; *840, p. 561; 845, p. 564; 886, p. 776; 910, p. 45; *940, p. 43; 948, p. 45; *990, p. 47). State claim 5266. Beaver County.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	4.10	Apr. 26	2.83	Aug. 1	5.15	Nov. 25	5.66
Mar. 1	3.30	May 23	2.99	29	6.05	Dec. 5	5.55
11	2.50	June 20	3.75	Sept.26	6.38	19	5.30
Apr. 4	2.58	July 29	5.00	Oct. 24	6.15		

(C-29-10)5cad 1 (*910, p. 46; *940, p. 44; 948, p. 45; 990, p. 47). State claim 10295. Beaver County. Measurements discontinued after Dec. 7, 1943.

(C-29-10)6aad 1 (*817, p. 420; *845, p. 565; 886, p. 777; 910, p. 46; *940, p. 44; 948, p. 46; *990, p. 47). State claim 17295. Edgar Fisher. Water levels, in feet below land-surface datum, 1944: Mar. 12, 20.05; Nov. 25, 20.55.

(C-29-10)6dcd 1 (*777, p. 242; *817, p. 421; *840, p. 562; 845, p. 565; 886, p. 778; 910, p. 47; *940, p. 44; 948, p. 46; *990, p. 47). State claim 13116. Duluth Land Co. Water levels, in feet below land-surface datum, 1944: Mar. 12, 29.52; Nov. 25, 28.17.

(C-29-10)7cdd 1 (*817, p. 421; 840, p. 564; 845, p. 566; *886, p. 778; 910, p. 47; *940, p. 45; 948, p. 46; *990, p. 48). State claim 10284. Beaver County. Water levels, in feet below land-surface datum, 1944: Mar. 12, 36.27; Nov. 25, 35.02.

(C-29-10)16ccc 1 (*840, p. 564; 845, p. 566; 886, p. 778; 910, p. 47; *940, p. 45; 948, p. 46; *990, p. 48). G. S. Barclay. Water levels, in feet below land-surface datum, 1944: Mar. 12, 44.94; Nov. 25, 43.40.

(C-29-10)16dcc 1 (*940, p. 45; 948, p. 46; *990, p. 48). Duluth Land Co. Water level, in feet below land-surface datum, 1944: Nov. 25, 74.50.

(C-29-10)21bcc 1 (*940, p. 45; 948, p. 47; *990, p. 48). Beaver County. Water level, in feet below land-surface datum, 1944: Nov. 25, 74.12. Measurements discontinued.

(C-29-11)1add 1 (*817, p. 422; 840, p. 564; 845, p. 566; 886, p. 778; 910, p. 48; *940, p. 45; 948, p. 47; *990, p. 48). State claim 10290. Duluth Land Co. Water levels, in feet below land-surface datum, 1944: Mar. 12, 18.30; Nov. 25, 19.64.

(C-29-11)2ddd 1 (*886, p. 779; *910, p. 48; *940, p. 45; 948, p. 47; *990, p. 48). State of Utah. Water levels, in feet below land-surface datum, 1944: Mar. 12, 14.10; Nov. 25, 15.53.

(C-29-11)4adb 1 (*910, p. 48; *940, p. 45; 948, p. 47; 990, p. 49). State claim 12129. A. P. Lodge. Water level, in feet below land-surface datum, 1944: Nov. 26, 8.95.

(C-29-11)4baa 1 (*940, p. 45; 948, p. 47; 990, p. 49). W. H. Child. Water level, in feet below land-surface datum, 1944: Nov. 26, 35.20.

(C-29-11)11cdd 1 (*340, p. 564; 845, p. 566; 886, p. 779; 910, p. 48; 940, p. 46; 948, p. 47; 990, p. 49). State claim 7540. Preston Davis. Water levels, in feet below land-surface datum, 1944: Mar. 12, 17.44; Nov. 25, 18.22.

(C-29-11)13cca 1 (*910, p. 48; *940, p. 46; 948, p. 48; *990, p. 49). Victor Carlson. Water level, in feet below land-surface datum, 1944: Nov. 25, 27.37.

(C-29-11)17aa (*940, p. 46; 948, p. 48; *990, p. 49). Beaver County. Water level, in feet below land-surface datum, 1944: Nov. 25, 13.65. Measurements discontinued.

(C-29-11)19cad 1 (*910, p. 49; *940, p. 46; 948, p. 48; *990, p. 49). Walter Cook. Water level, in feet below land-surface datum, 1944: Nov. 25, 46.36.

(C-29-11)20dcd 1 (*886, p. 779; 910, p. 49; 940, p. 47; 948, p. 48; *990, p. 49). Public Land. Water level, in feet below land-surface datum, 1944: Nov. 25, 2.80.

(C-29-11)21ddd 1 (*845, p. 566; 886, p. 780; 910, p. 49; *940, p. 47; 948, p. 48; *990, p. 49). State claim 8974. Claude Thompson. Water level, in feet below land-surface datum, 1944: Nov. 25, 19.45.

(C-29-11)22ddd 1 (*817, p. 422; 840, p. 564; 845, p. 567; 886, p. 780; 910, p. 49; 940, p. 47; 948, p. 48; 990, p. 49). State claim 10667. P. V. Haworth. Water levels, in feet below land-surface datum, 1944: Mar. 12, 25.57; Nov. 25, 25.60.

(C-29-11)23bcd 1 (*910, p. 49; 940, p. 47; 948, p. 48; *990, p. 49). I. E. Leck. Water level, in feet below land-surface datum, 1944: Nov. 25, 24.41.

(C-29-11)27dcb 1 (*910, p. 49; *940, p. 47; 948, p. 48; 990, p. 50). Public Land. State claim 2620. Measurements discontinued after Dec. 7, 1943.

(C-29-11)29ada 1 (*817, p. 422; 840, p. 565; 845, p. 567; 886, p. 780; 910, p. 49; 940, p. 47; 948, p. 48; 990, p. 50). Public Land. Water level, in feet below land-surface datum, 1944: Nov. 25, 14.93.

(C-29-11)35bcd 1 (*817, p. 422; 910, p. 49; 940, p. 48; 948, p. 48; *990, p. 50). Public Land. Water level, in feet below land-surface datum, 1944: Nov. 25, 41.44.

(C-30-10)11cbd 1 (*940, p. 48; 948, p. 49; *990, p. 50). Abraham Wood. No measurements made in 1944.

(C-30-11)4cdd 1 (*817, p. 423; 840, p. 565; 845, p. 567; 886, p. 780; 910, p. 50; 940, p. 48; *948, p. 49; *990, p. 50). Water level, in feet below land-surface datum, 1944: Nov. 25, 26.35.

(C-30-11)8add 1 (*940, p. 48; *948, p. 49; *990, p. 50). Public Land. Water level, in feet below land-surface datum, 1944: Nov. 25, 26.78. Measurements discontinued.

(C-30-11)8ddc 1 (*940, p. 48; 948, p. 49; *990, p. 50). Public Land. Water level, in feet below land-surface datum, 1944: Nov. 25, 27.35; measurements discontinued.

(C-30-11)9cdd 1 (*940, p. 48; *948, p. 49; 990, p. 50). Public Land. Water level, in feet below land-surface datum, 1944: Nov. 25, 30.59; measurements discontinued.

(C-30-11)18add 1 (*940, p. 48; *948, p. 49; *990, p. 50). Public Land. Water level, in feet below land-surface datum, 1944: Nov. 25, 20.60; measurements discontinued.

(C-30-11)22ba (*940, p. 48; *948, p. 49). Beaver County. No measurements made in 1944. Measurements discontinued after Dec. 7, 1942.

(C-30-12)3dda 1 (*910, p. 50; 940, p. 48; 948, p. 49). E. B. Norris. Measurements discontinued after Dec. 10, 1942.

(C-30-12)4add 1 (*910, p. 50; 940, p. 48; 948, p. 49; *990, p. 50). T. J. Norris. Water level, in feet below land-surface datum, 1944: Nov. 25, 109.37.

(C-30-12)9daa 1 (*910, p. 50; 940, p. 48; 948, p. 49; *990, p. 50). Public Land. Measurements discontinued after Mar. 15, 1943.

(C-30-12)10abb 1 (*910, p. 50; 940, p. 48; 948, p. 49; *990, p. 51). C. S. Hammond. Water level, in feet below land-surface datum, 1944: Nov. 25, 39.57.

(C-30-12)11bbb 1 (*817, p. 423; 840, p. 565; 845, p. 567; 886, p. 780; 910, p. 50; 940, p. 48; 948, p. 49; 990, p. 51). D. L. Barnes. Water level, in feet below land-surface datum, 1944: Nov. 25, 31.44.

(C-30-12)13bcb 1 (*886, p. 780; 910, p. 50; 940, p. 48; 948, p. 50; *990, p. 51). Beaver County. Water level, in feet below land-surface datum, 1944: Nov. 25, 9.46.

(C-30-12)22aad 1 (*886, p. 781; 910, p. 50; 940, p. 49; 948, p. 50). Public Land. Measurements discontinued after Dec. 10, 1942.

(C-30-12)28dab 1 (*886, p. 781; 910, p. 50; 940, p. 48; 948, p. 50). Public Land. Measurements discontinued after July 30, 1942.

(C-30-12)31cab 2 (*845, p. 567; 886, p. 781; 910, p. 50; *940, p. 49; 948, p. 50; *990, p. 51). State claim 13455. Corinne Dibkey. Water level, in feet below land-surface datum, 1944: Nov. 26, 16.05.

(C-30-13)20ddb 1 (*910, p. 51; *940, p. 49; 948, p. 50; *990, p. 51). O. M. Couch. Water level, in feet below land-surface datum, 1944: Nov. 26, 105.02.

(C-30-13)22ddd 1 (*910, p. 51; *940, p. 49; 948, p. 50; *990, p. 51). Public Land. State claim 13674. Water level, in feet below land-surface datum, 1944: Nov. 26, 59.79.

(C-30-13)25abb 1 (*940, p. 49; 948, p. 50; *990, p. 51). State claim 12128. W. M. White. Water level, in feet below land-surface datum, 1944: Nov. 26, 34.40.

(C-30-13)25ddd 1 (*940, p. 49; 948, p. 50; 990, p. 51). Beaver County. Water level, in feet below land-surface datum, 1944: Nov. 26, 7.18.

(C-30-13)29dcc 1 (*940, p. 49; 948, p. 50; *990, p. 51). C. D. Vaughn. Water level, in feet below land-surface datum, 1944: Nov. 26, 56.07.

(C-30-13)30dcc 1 (*940, p. 49; 948, p. 50; *990, p. 51). Beaver County. Water level, in feet below land-surface datum, 1944: Nov. 26, 58.87.

(C-30-13)33abb 1 (*940, p. 49; 948, p. 50; *990, p. 51). J. F. Dinwiddie. Water level, in feet below land-surface datum, 1944: Nov. 26, 48.48.

(C-30-13)34bab 1 (*910, p. 51; 940, p. 49; 948, p. 50; *990, p. 51). J. F. Dinwiddie. Water level, in feet below land-surface datum, 1944: Nov. 26, 43.75.

(C-30-13)34bbb 1 (*910, p. 51; 940, p. 49; 948, p. 50; 990, p. 52). J. F. Dinwiddie. Water level, in feet below land-surface datum, 1944: Nov. 26, 46.03.

Box Elder County - East Shore area

(B-7-2)2aba 1 (*777, p. 240; 817, p. 386; 840, p. 536; 845, p. 567; 886, p. 781; 910, p. 51; 940, p. 50; 948, p. 51; *990, p. 52). State claim 11922. Earl Lemon.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	40.38	Apr. 26	43.39	Aug. 31	40.23	Oct. 24	40.94
Feb. 28	43.58	May 30	40.18	Sept.21	40.26	Nov. 29	41.70
Apr. 3	44.17	June 30	39.08	29	40.28	Dec. 20	42.08
13	44.21	July 30	39.87				

(B-7-2)11cda 1 (*817, p. 388; *840, p. 537; 845, p. 568; 886, p. 781; 910, p. 51; 940, p. 50; 948, p. 51; *990, p. 52). State claim 1489. First Savings Bank of Ogden. Water levels, in feet below land-surface datum, 1944: Apr. 13, 20.88; Dec. 20, 20.10.

(B-8-2)11bdc 1 (*817, p. 388; 840, p. 537; 845, p. 568; 886, p. 781; 910, p. 51; 940, p. 50; 948, p. 51; *990, p. 52). State claim 773. J. A. Ward. Water levels, in feet below land-surface datum, 1944: Apr. 13, 51.85; Dec. 20, 47.42.

(B-8-2)23cdb 1 (*817, p. 388; 840, p. 537; 845, p. 568; 886, p. 782; 910, p. 52; 940, p. 50; 948, p. 51; *990, p. 52). State claims 1284 and 8126. Willard Water Co. Water levels, in feet below land-surface datum, 1944: Apr. 13, 42.65; Sept. 21, 39.10; Dec. 20, 40.50.

(B-8-2)26cac 1 (*817, p. 388; 840, p. 537; 845, p. 568; 886, p. 782; *910, p. 52; 940, p. 50; 948, p. 51; *990, p. 52). State claim 99. G. L. Braegger. Water levels, in feet above land-surface datum, 1944: Apr. 13, 29.5; Dec. 20, 30.2.

(B-8-2)35add 1 (*910, p. 52; 940, p. 50; 948, p. 51; *990, p. 52). M. C. Marsh.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.21	26.06	26.22	26.61	25.70	22.73	21.54	22.31	23.14	23.74	24.25	24.64
2	25.24	26.07	26.23	26.61	25.66	22.66	21.56	22.34	23.17	23.76	.....	24.66
3	25.24	26.08	26.24	26.62	25.61	22.61	21.58	22.38	23.20	23.78	.....	24.68
4	25.27	26.09	26.26	26.62	25.52	22.59	21.60	22.42	23.21	23.78	.....	24.69
5	25.28	26.11	26.28	26.63	25.43	22.57	21.62	22.44	23.21	23.80	.....	24.69

(B-8-2)35add 1--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	.....	.....	.....	26.63	25.31	22.53	21.65	22.47	23.21	23.83	.....	24.70
7	.....	.....	.....	26.64	25.19	.....	21.66	.....	23.21	.....	.....	.....
8	.....	.....	.....	.....	25.04	.....	.....	.....	.....	.....	.....	.....
9	.....	.....	.....	.....	24.90	.....	.....	.....	.....	.....	.....	.....
10	.....	.....	.....	.....	24.76	.....	.....	.....	.....	.....	.....	.....
11	25.39	.....	.....	.....	24.54	.....	.....	.....	.....	.....	.....	.....
12	25.41	.....	.....	.....	24.40	.....	.....	.....	.....	.....	.....	.....
13	25.42	.....	.....	26.47	.....	.....	.....	.....	.....	.....	.....	.....
14	25.43	25.91	.....	26.45	.....	.....	.....	22.74	.....	.....	.....	.....
15	25.45	25.92	.....	26.42	24.11	.....	21.86	22.77	.....	.....	.....	.....
16	25.46	25.94	26.42	26.36	24.01	22.01	21.87	22.78	.....	24.00	.....	.....
17	25.48	25.96	26.42	26.34	23.93	21.97	21.87	22.79	.....	24.00	24.49	.....
18	.....	25.98	26.43	26.29	23.82	21.93	21.89	22.83	23.49	24.02	.....	.....
19	.....	25.99	26.44	26.24	23.69	21.86	21.90	22.86	23.50	24.03	.....	.....
20	.....	26.00	26.45	26.19	23.56	21.81	21.94	22.89	23.53	24.05	.....	24.89
21	.....	.....	26.47	26.16	23.46	21.75	21.94	22.91	23.54	24.07	.....	24.90
22	.....	.....	26.48	26.10	23.37	21.72	22.00	.....	23.58	24.07	.....	24.90
23	.....	.....	.....	26.04	.....	21.69	.....	.....	23.59	24.08	.....	24.91
24	.....	.....	.....	25.98	.....	.....	.....	.....	23.61	24.09	.....	24.93
25	.....	.....	.....	25.94	.....	.....	.....	.....	23.65	24.10	.....	24.95
26	.....	.....	.....	25.93	.....	.....	.....	.....	23.65	24.11	.....	24.95
27	.....	.....	.....	25.90	.....	.....	.....	.....	23.66	24.14	.....	24.96
28	.....	26.20	.....	25.88	.....	.....	.....	.....	23.68	.....	.....	.....
29	26.00	26.21	.....	25.83	.....	.....	.....	.....	23.70	.....	24.62	.....
30	26.03	.....	.....	25.76	.....	21.55	22.25	.....	23.72	.....	24.63	25.10
31	26.04	.....	26.60	.....	22.76	.....	22.29	.....	.....	.....	.....	.....

(B-9-2)12ccc 1 (*845, p. 568; 886, p. 782; 910, p. 52; 940, p. 51; 948, p. 52; *990, p. 53). State claim 499. G. D. Reeder. Water levels, in feet below land-surface datum, 1944: Apr. 13, 7.55; Sept. 30, 4.06; Dec. 20, 5.09.

(B-9-2)12ccd 1 (*840, p. 538; 845, p. 568; 886, p. 782; *910, p. 52; 940, p. 51; 948, p. 52; *990, p. 53). State claim 500. G. D. Reeder. Water levels, in feet below land-surface datum, 1944: Apr. 13, 17.04; Sept. 30, 14.47; Dec. 20, 15.67.

(B-9-2)14dac 1 (*317, p. 389; 840, p. 538; 845, p. 568; 886, p. 782; *910, p. 53; 940, p. 51; 948, p. 52; *990, p. 53). State claim 549. W. W. and J. F. Knudsen. Water levels, in feet below land-surface datum, 1944: Apr. 13, 22.56; Dec. 20, 19.68.

(B-9-2)25bda 1 (*840, p. 538; 845, p. 568; 886, p. 782; *910, p. 52; 940, p. 51; 948, p. 52; *990, p. 53). State claim 268. First National Bank of Brigham. Water levels, in feet below land-surface datum, 1944: Apr. 13, 24.60; Apr. 26, 23.87; Sept. 30, 12.20; Dec. 20, 18.22.

(B-9-2)35dcd 1 (*817, p. 389; *840, p. 538; 845, p. 569; 886, p. 782; *910, p. 53; 940, p. 51; 948, p. 52; *990, p. 53). State claim 477. F. H. Hansen. Water levels, in feet below land-surface datum, 1944: Apr. 13, 42.58; Dec. 20, 39.59.

Box Elder County - Lower Bear River Valley

(B-9-3)1bbb 1 (*817, p. 389; *840, p. 538; 845, p. 569; 886, p. 783; *910, p. 53; 940, p. 51; 948, p. 52; *990, p. 53). State claim 8477. Federal Land Bank. Water levels, in feet below land-surface datum, 1944: Apr. 13, 5.42; Dec. 20, 5.70.

(B-10-3)8dc 1 (*817, p. 389; 840, p. 538; 845, p. 569; 886, p. 783; 910, p. 53; 940, p. 51; 948, p. 52; *990, p. 53). S. N. Cole. Water levels, in feet below land-surface datum, 1944: Apr. 13, 7.10; Dec. 20, 8.63.

(B-10-3)32aaa 1 (*845, p. 569; 886, p. 783; 910, p. 53; 940, p. 51; 948, p. 52; 990, p. 53). B. E. Stallings. Water levels, in feet below land-surface datum, 1944: Apr. 13, 5.46; Dec. 20, 4.97.

(B-11-3)21bbb 2 (*817, p. 390; *840, p. 539; 845, p. 569; 886, p. 783; 910, p. 53; 940, p. 51; 948, p. 52; *990, p. 54). J. A. House. Water levels, in feet below land-surface datum, 1944: Apr. 13, 4.00; Dec. 20, 4.30.

(B-11-3)21bbb 3 (*817, p. 390; 840, p. 539; 845, p. 569; 886, p. 783; *910, p. 53; 940, p. 51; 948, p. 52; *990, p. 54). J. A. House. Water levels, in feet below land-surface datum, 1944: Apr. 13, 3.70; Dec. 20, 3.95.

(B-11-4)11aaa 1 (*817, p. 391; *840, p. 540; 845, p. 569; 886, p. 783; *910, p. 53; 940, p. 51; 948, p. 52; *990, p. 54). State claim 3337. Fred Deininger. Water levels, in feet below land-surface datum, 1944: Apr. 13, 6.48; Dec. 20, 6.29.

(B-12-3)11db 2 (*886, p. 784; 910, p. 54; 940, p. 51; 948, p. 53; *990, p. 54). R. D. McFarlane. Water levels, in feet below land-surface datum, 1944: Apr. 13, 5.85; Dec. 20, 6.35.

(B-12-4)11cb (*817, p. 392; *840, p. 540; 845, p. 570; 886, p. 784; *910, p. 54; 940, p. 51; 948, p. 53; *990, p. 54). State claim 14152. Adolph Harris. Water level, in feet below land-surface datum, 1944: Oct. 24, 114.18.

Box Elder County - Mantua Valley

(B-9-1)22ccc 1 (*840, p. 538; 845, p. 568; 886, p. 782; 910, p. 52; 940, p. 50; 948, p. 52; *990, p. 53). Raymond Jeppesen. Water levels, in feet below land-surface datum, 1944: Apr. 12, 28.79; May 5, 27.30; Dec. 19, 25.20.

(B-9-1)27bbb 1 (*840, p. 538; 845, p. 568; 886, p. 782; 910, p. 52; 940, p. 50; 948, p. 52; 990, p. 53). O. M. Jeppesen. Water levels, in feet below land-surface datum, 1944: Apr. 12, 21.65; May 5, 20.86; Dec. 19, 21.04.

Box Elder County - West Box Elder area

Blue Spring Valley

(B-13-5)17bb (*817, p. 393; *840, p. 541; 845, p. 570; 886, p. 785; *910, p. 54; 940, p. 51; 948, p. 53; *990, p. 54). State claim 3776. R. A. Miller. Water level, in feet below land-surface datum, 1944: Oct. 24, 61.57.

(B-13-5)28cb (*817, p. 393; 840, p. 541; 845, p. 570; 886, p. 785; 910, p. 54; 940, p. 51; 948, p. 53; *990, p. 54). Joseph Aebischur. Water level, in feet below land-surface datum, 1944: Oct. 24, 59.97.

(B-13-6)1cac 1 (*910, p. 54; 940, p. 51; 948, p. 53; *990, p. 54). Deacon Bros. Water level, in feet below land-surface datum, 1944: Oct. 24, 152.35.

Box Elder County - West Box Elder area

Curlew Valley

(B-12-11)22 (*817, p. 392; 845, p. 570; 886, p. 784; *910, p. 54; 940, p. 51; 948, p. 53; *990, p. 54). Grazing Service, U. S. Dept. of Interior. Water level, in feet below land-surface datum, 1944: Oct. 24, 8.86.

(B-14-8)11ab (*817, p. 393; 840, p. 541; 845, p. 571; 886, p. 785; 910, p. 54; 940, p. 52; 948, p. 53; *990, p. 55). B. S. Cutler. Water level, in feet below land-surface datum, 1944: Oct. 23, 46.13.

(B-14-9)10ad (*817, p. 393; 840, p. 541; 845, p. 571; 886, p. 785; 910, p. 54; 940, p. 52; 948, p. 53; 990, p. 55). Abe Rose. Water level, in feet below land-surface datum, 1944: Oct. 23, 97.34.

Box Elder County - West Box Elder area

Grouse Creek Valley

(B-10-18)28dca (*886, p. 783; 910, p. 53; 940, p. 51; 948, p. 52; 990, p. 54). Grazing Service, U. S. Dept. of Interior. Measuring point is 1.3 feet above land-surface datum. Water level, in feet below land-surface datum, 1944: Oct. 23, 120.66.

(B-11-18)22aa (*817, p. 391; 845, p. 570; 886, p. 784; 910, p. 54; 940, p. 51; 948, p. 52; 990, p. 54). A. L. Paskett. Water level, in feet below land-surface datum, 1944: Oct. 23, 19.20.

(B-11-18)23bb (*817, p. 391; 886, p. 784; 910, p. 54; 940, p. 51; 948, p. 53; 990, p. 54). Central Pacific Railroad. Water level, in feet below land-surface datum, 1944: Oct. 23, 19.18.

Box Elder County - West Box Elder area

Park Valley

(B-10-15)26 (*886, p. 783; 910, p. 53; 940, p. 51; 948, p. 52; 990, p. 54). Grazing Service, U. S. Dept. of Interior. Water level, in feet below land-surface datum, 1944: Oct. 24, 95.79.

(B-12-14)2aa (*817, p. 392; 840, p. 540; 845, p. 570; 886, p. 784; *910, p. 54; 940, p. 51; 948, p. 53; *990, p. 54). Albert Hirschie. Water level, in feet below land-surface datum, 1944: Oct. 24, 11.54.

(B-13-13)28dd (*817, p. 393; 845, p. 571; *886, p. 785; 910, p. 54; 940, p. 52; 948, p. 53; *990, p. 54). L. G. Carter. Water level, in feet below land-surface datum, 1944: Oct. 24, 12.02.

(B-13-13)32aa (*817, p. 393; 845, p. 571; 886, p. 785; 910, p. 54; 940, p. 52; 948, p. 53; 990, p. 54). John Vance. Water level, in feet below land-surface datum, 1944: Oct. 24, 31.03.

(B-13-14)25cb (*817, p. 393; 845, p. 571; 886, p. 785; 910, p. 54; 940, p. 52; 948, p. 53; *990, p. 55). J. H. Kunzler. Water level, in feet below land-surface datum, 1944: Oct. 24, 14.49.

(B-13-14)26bd (*817, p. 393; 845, p. 571; 886, p. 785; 910, p. 54; 940, p. 52; 948, p. 53; *990, p. 55). W. A. Newman. Water level, in feet below land-surface datum, 1944: Oct. 24, 18.55.

Box Elder County - West Box Elder area

Raft River Valley

(B-14-15)3ddd 1 (*817, p. 393; 845, p. 571; 886, p. 785; 910, p. 54; 940, p. 52; 948, p. 53; *990, p. 55). M. A. Smith. Water level, in feet below land-surface datum, 1944: Oct. 23, 49.12.

(B-14-15)11cc (*817, p. 393; 845, p. 571; 886, p. 785; 910, p. 55; 940, p. 52; 948, p. 53; *990, p. 55). Mrs. C. B. Tracy. Water level, in feet below land-surface datum, 1944: Oct. 23, 21.93.

(B-15-14)36 (*817, p. 393; 845, p. 571; 886, p. 785; 910, p. 55; *940, p. 52; 948, p. 53; *990, p. 55). H. Alberts. Water level, in feet below land-surface datum, 1944: Oct. 23, 4.06.

Cache County - Cache Valley

(A-9-1)10add 1 (*817, p. 358; *840, p. 523; 845, p. 571; 886, p. 785; 910, p. 55; 940, p. 52; 948, p. 54; *990, p. 55). State claim 8135. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Apr. 12, 29.85; Dec. 19, 29.54.

(A-10-1)4ab (*817, p. 358; 840, p. 523; 845, p. 571; 886, p. 785; 910, p. 55; 940, p. 52; 948, p. 54; *990, p. 55). O. H. Anderson. Water levels, in feet below land-surface datum, 1944: Apr. 12, 10.44; Dec. 19, 9.69.

(A-11-1)3bda 1 (*817, p. 358; *840, p. 523; 845, p. 571; 886, p. 786; *910, p. 55; 940, p. 52; 948, p. 54; *990, p. 55). State claims 23 and 8136. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Apr. 12, 35.22; Dec. 19, 34.54.

(A-11-1)8dda 3(*817, p. 359; *840, p. 524; 845, p. 572; 886, p. 786; *910, p. 55; 940, p. 52; 948, p. 54; *990, p. 55). State claim 1199. Amalgamated Sugar Co. Water levels, in feet above land-surface datum, 1944: Apr. 12, 12.1; Dec. 19, 12.0; well flowing prior to measurement.

(A-11-1)18ddd 1 (*817, p. 359; *840, p. 524; 845, p. 572; 886, p. 786; *910, p. 55; 940, p. 52; 948, p. 54; *990, p. 55). State claim 5960. Lovenus Olsen. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 12, 5.7; Dec. 19, 6.15.

(A-11-1)30bbd 2 (*817, p. 359; *840, p. 524; 845, p. 573; 886, p. 787; 910, p. 56; *940, p. 52; 948, p. 54; *990, p. 55). State claim 18191, L. S. Hill. Water levels, in feet below land-surface datum, 1944: Apr. 12, 3.45; Dec. 19, 2.90.

(A-12-1)3bbb 1 (*817, p. 359; *840, p. 525; 845, p. 573; 886, p. 787; *910, p. 56; 940, p. 53; 948, p. 54; 990, p. 56). State claims 19 and 8129. Smithfield Irrigation Co. Measuring point is 0.5 foot below land-surface datum. Water levels, in feet below land-surface datum, 1944: Apr. 15, 14.26; Dec. 19, 11.10.

(A-12-1)3bbb 2 (*817, p. 360; 840, p. 525; 845, p. 573; 886, p. 787; 910, p. 56; 940, p. 53; 948, p. 54; *990, p. 56). Nora Johnson. Water levels, in feet below land-surface datum, 1944: Apr. 12, 14.9; Dec. 19, 11.87.

(A-12-1)29bdd (*910, p. 56; 940, p. 53; 948, p. 55; *990, p. 56). Arnold Nielson.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	18.3	....	16.8	16.7	17.0	17.4	....	17.6	17.5	18.1	....
2	....	17.3	17.1	16.8	16.6	17.0	17.2	....	17.5	17.6	18.2	....
3	18.5	17.5	17.2	16.8	16.7	17.0	17.3	....	17.4	17.2	18.4	....
4	18.1	17.4	17.1	17.0	16.7	16.9	17.5	17.8	17.4	17.2	18.2	....
5	17.7	17.3	17.1	17.1	16.7	17.0	17.6	17.7	17.4	17.2	18.1	....
6	18.1	17.3	17.1	17.0	16.8	17.1	17.8	17.7	17.4	17.3	18.3	....
7	17.2	17.3	17.1	16.8	16.7	17.2	17.5	17.9	17.5	17.2	18.1	....
8	17.1	17.2	17.1	16.8	16.5	17.3	17.4	17.9	17.7	17.1	18.2	....
9	17.4	17.2	17.1	17.0	16.6	17.3	17.3	17.6	17.6	17.2	18.4	....
10	17.3	17.8	17.1	17.0	16.5	17.3	17.3	17.6	17.5	17.1	18.1	....
11	17.3	18.3	17.1	16.8	16.6	16.9	17.4	17.7	17.3	17.1	18.2	....
12	17.0	17.5	17.1	16.8	16.5	17.0	17.4	17.8	17.6	17.1	18.1	....
13	17.2	18.3	17.1	16.8	16.6	17.4	17.7	17.7	17.7	17.1	18.1	....
14	17.0	17.2	17.0	16.7	16.7	17.4	17.8	17.8	17.7	17.1	18.2	....
15	17.3	17.5	17.0	16.7	16.7	17.5	....	....	17.4	17.4	18.2	....
16	....	18.1	17.0	16.8	16.9	17.5	17.7	....	17.5	17.4	18.1	....
17	....	17.8	17.0	16.7	16.8	17.3	17.6	....	17.4	17.3	18.0	....
18	....	18.0	17.0	16.7	....	17.3	17.6	....	17.6	17.4	18.1	....
19	18.3	18.5	17.0	16.8	....	17.4	17.6	....	17.5	17.5	18.0	17.0
20	18.5	18.4	17.0	16.7	....	17.5	17.7	....	....	17.4	18.1	16.7
21	18.0	18.4	17.0	16.7	16.7	17.4	17.8	....	....	17.4	....	16.6
22	18.7	17.3	16.8	16.7	16.8	17.5	17.7	....	....	17.3	....	16.6
23	18.7	17.3	17.0	16.7	16.5	17.3	17.7	....	....	17.3	....	16.6
24	18.3	17.3	17.0	16.7	16.8	17.3	17.5	....	17.6	....	....	16.6
25	18.1	17.2	16.9	16.6	17.0	17.3	17.6	....	17.8	....	....	16.5
26	18.3	17.2	16.8	16.6	17.0	17.3	17.6	....	17.6	....	....	16.6
27	17.7	17.8	16.8	16.7	17.1	17.4	....	....	17.7	....	....	16.6
28	18.0	17.5	17.3	16.6	16.9	17.5	....	....	17.7	....	....	16.6
29	17.7	17.3	16.9	16.7	16.8	17.8	....	17.5	17.7	....	....	16.6
30	17.5	....	17.0	16.8	16.8	17.5	....	17.4	17.6	18.0	....	17.2
31	17.5	....	17.0	....	16.8	....	....	17.5	....	18.0	....	17.1

(A-12-1)31dab 1 (*817, p. 360; *840, p. 525; 845, p. 573; 886, p. 787; *910, p. 57; 940, p. 53; 948, p. 55; *990, p. 56). State claim 2537. R. S. Painter. Water levels, in feet above land-surface datum, 1944: Apr. 13, 35.1; Dec. 19, 35.7.

(A-13-1)29bdb 1 (*817, p. 361; *840, p. 526; 845, p. 574; 886, p. 788; *910, p. 57; 940, p. 54; 948, p. 55; 990, p. 57). State claim 1682. J. C. Cannell. Water levels, in feet below land-surface datum, 1944: Apr. 12, 3.08; Dec. 19, 0.45.

(A-14-1)22bad 1 (*845, p. 574; 886, p. 788; *910, p. 57; 940, p. 54; 948, p. 56; *990, p. 57). State claim 17652. C. B. Stoddard. Water levels, in feet above land-surface datum, 1944: Apr. 12, 6.2; Dec. 19, 6.0.

(A-14-1)34adb 1 (*817, p. 362; *840, p. 527; 845, p. 574; 886, p. 788; *910, p. 58; 940, p. 54; 948, p. 56; *990, p. 57). State claim 1373. Crockett Well Co. Water levels, in feet below land-surface datum, 1944: Apr. 12, 13.44; Dec. 19, 18.20.

(A-14-1)34dca 1 (*84-, p. 527; *845, p. 574; 886, p. 788; *910, p. 58; 940, p. 54; 948, p. 56; 990, p. 57). State application 12652. Richmond Irrigation Co. Water levels, in feet below land-surface datum, 1944: Apr. 12, 3.02; Dec. 19, 5.38.

(B-11-1)3bcd 1 (*817, p. 389; 840, p. 539; 845, p. 574; *886, p. 789; *910, p. 58; 940, p. 54; 948, p. 56; *990, p. 57). State claim 15787. Utah Power & Light Co. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 19, 6.5.

(B-11-1)13bbc 1 (*817, p. 390; *840, p. 539; 845, p. 575; 886, p. 789; 910, p. 58; 940, p. 54; 948, p. 56; *990, p. 57). State claim 19315. Alma Olsen. Water levels, in feet above land-surface datum, 1944: Apr. 12, 38.9; Dec. 19, 36.7.

(B-11-1)35caa 1 (*817, p. 390; *840, p. 539; 845, p. 575; *886, p. 789; 910, p. 58; 940, p. 54; 948, p. 57; *990, p. 57). State claim 1475. J. A. Lieshman. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 12, 15.2; Dec. 19, 15.7.

(B-12-1)8cdb 2 (*817, p. 391; *840, p. 540; 845, p. 575; *886, p. 789; 910, p. 58; 940, p. 54; 948, p. 57; *990, p. 57). State claim 16851. Edward Edwards. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 13, 8.5; Dec. 19, 8.1.

(B-13-1)30acc 1 (*817, p. 392; *840, p. 541; *845, p. 575; 886, p. 789; *910, p. 59; 940, p. 54; 948, p. 57; *990, p. 57). State claim 2757. E. R. Ballard. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 13, 19.6; Dec. 19, 19.5.

Davis County - East Shore area

North Davis Basin

(B-3-1)15aab 1 (*817, p. 381; *840, p. 531; 845, p. 579; *886, p. 795; *910, p. 63; 940, p. 56; 948, p. 59; *990, p. 59). State claim 8156. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Apr. 10, 12.26; Dec. 21, 13.39.

(B-3-1)24aaa 4 (*817, p. 381; *840, p. 531; 845, p. 579; 886, p. 795; *910, p. 63; 940, p. 56; 948, p. 59; *990, p. 59). State claim 10019. Lagoon Resort. Water levels, in feet above land-surface datum, 1944: Apr. 10, 10.5; Dec. 21, 11.4.

(B-3-1)24aad 1 (*817, p. 381; *840, p. 531; 845, p. 579; 886, p. 795; *910, p. 63; 940, p. 56; 948, p. 59; *990, p. 60). State claim 10012. Lagoon Resort. Water levels, in feet above land-surface datum, 1944: Apr. 10, 3.9; Dec. 21, 4.7.

(B-4-1)19cd (*817, p. 382; *840, p. 531; 845, p. 579; 886, p. 795; 910, p. 63; 940, p. 57; 948, p. 59; *990, p. 60). Charles Layton. Water levels, in feet above land-surface datum, 1944: Apr. 10, 0.68; Dec. 21, 0.35.

(B-4-1)30ba (*817, p. 382; 840, p. 532; 845, p. 579; 886, p. 795; 910, p. 63; 940, p. 57; 948, p. 59; *990, p. 60). W. W. Evans. Water levels, in feet below land-surface datum, 1944: Apr. 10, 0.55; Dec. 21, 1.36.

(B-4-1)34cbc 3 (*840, p. 532; 845, p. 579; 886, p. 795; *910, p. 63; 940, p. 57; 948, p. 59; *990, p. 60). State claim 14733. Kaysville Canning Corporation. Water levels, in feet below land-surface datum, 1944: Apr. 10, 3.25; Dec. 21, 2.95.

(B-4-2)1dcc 1 (*817, p. 383; *840, p. 532; 845, p. 580, *886, p. 796; *910, p. 64; 940, p. 57; 948, p. 59; *990, p. 60). State claim 8139. Drought Relief Administration.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	.....	.....	.....	.....	174.25	.....
2	.....	.....	.....	.....	174.30	.....
3	.....	174.24	.....	.....	174.40	175.40
4	.....	174.18	.....	175.66	.....	175.50
5	.....	174.22	.....	175.59	174.60	175.75
6	.....	174.28	.....	175.64	174.54	175.83
7	.....	174.25	175.64	175.63	174.48	175.80
8	174.25	174.20	175.68	175.53	174.48	175.72
9	174.19	174.07	175.67	175.31	174.46	175.73
10	174.13	174.24	175.58	175.24	174.49	175.81
11	174.15	.....	175.53	174.21	.....	175.85
12	174.29	.....	175.47	174.21	.....	175.84
13	174.33	.....	175.36	174.22	.....	175.82
14	174.30	.....	175.36	174.20	.....	175.78
15	174.19	.....	.....	174.25	.....	175.80
16	.....	.....	.....	174.20	.....	175.81
17	.....	.....	.....	174.28	.....	175.86
18	.....	.....	.....	175.32	.....	175.94
19	.....	174.29	.....	.....	.....	175.95
20	.....	174.28	.....	.....	.....	175.92
21	.....	174.15	.....	.....	.....	175.88
22	.....	174.16	.....	.....	.....	.....
23	.....	174.20	.....	.....	.....	.....
24	.....	174.15	.....	.....	.....	.....
25	.....	174.10	.....	.....	.....	.....
26	.....	174.14	.....	174.27	.....	.....
27	.....	.....	.....	174.24	.....	.....
28	.....	.....	.....	174.19	.....	.....
29	.....	.....	.....	174.19	.....	174.82
30	.....	.....	.....	174.23	.....	174.82
31	.....	.....	.....	.....	.....	.....

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	174.76	.....	.....	174.57	174.56	174.43
2	174.73	.....	.....	174.62	174.56	174.39
3	174.73	.....	.....	174.65	174.54	174.39
4	174.75	175.01	.....	174.64	174.50	174.41
5	174.74	175.05	.....	174.60	174.49	174.41
6	174.77	175.05	.....	174.66	174.48	174.41
7	174.75	175.03	.....	.....	174.47	.....
8	174.74	175.02	174.65	.....	174.52	.....
9	.....	175.00	174.65	.....	.....	.....
10	.....	175.03	174.65	174.67	.....	.....

(B-4-2)1dcc 1--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	.....	.....	174.65	174.67	174.45	.....
12	174.80	.....	174.65	174.67	174.37	.....
13	174.79	.....	174.63	174.65	174.32	.....
14	174.79	.....	174.59	174.62	174.46	.....
15	174.79	.....	.....	174.63	.....	.....
16	174.81	.....	.....	174.66	.....	.....
17	174.81	.....	.....	.....	.....	.....
18	174.81	.....	.....	174.72	.....	.....
19	174.82	.....	.....	174.72	.....	.....
20	.....	.....	.....	174.72	.....	174.58
21	.....	.....	174.63	174.71	.....	174.58
22	.....	.....	174.63	174.70	.....	174.56
23	.....	.....	174.66	174.72	.....	174.47
24	.....	.....	174.69	174.74	.....	174.47
25	.....	175.00	174.69	174.75	.....	174.47
26	.....	175.05	174.70	174.74	.....	174.48
27	.....	175.06	174.73	174.73	.....	174.51
28	.....	175.04	174.69	174.72	.....	174.48
29	.....	174.99	174.63	174.69	.....	174.43
30	.....	175.02	174.55	174.67	174.45	174.47
31	.....	.....	.....	174.59	.....	174.57

(B-4-2)9caa 1 (*840, p. 532; 845, p. 580; 886, p. 796; *910, p. 64; 940, p. 57; 948, p. 59; *990, p. 60). State claim 11285. A. D. Miller. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 10, 21.1; Dec. 21, 19.9.

(B-4-2)10daa 1 (*817, p. 383; *840, p. 532; 845, p. 580;;886, p. 796; *910, p. 64; 940, p. 57; 948, p. 59; *990, p. 61). State claim 8143. Drought Relief Administration. No measurements made in 1944.

(B-4-2)20bbb 1 (*840, p. 532; 845, p. 580; 886, p. 796; *910, p. 64; 940, p. 57; 948, p. 59; *990, p. 61). State claim 12532. George Sandoz. No measurements made in 1944.

(B-5-3)36ada 1 (*817, p. 384; *840, p. 534; *845, p. 580; *886, p. 796; *910, p. 64; 940, p. 57; 948, p. 59; *990, p. 61). State claim 30774. Mary Stoddard. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 10, 29.0; Dec. 21, 26.7.

Davis County - East Shore area

South Davis Basin

(A-2-1)17ccb 1 (*840, p. 518; 845, p. 575; 886, p. 791; *910, p. 59; 940, p. 54; 948, p. 57; 990, p. 57). State claim 11318. Will Holbrook. Water levels, in feet below land-surface datum, 1944: Apr. 10, 34.98; Dec. 21, 27.12.

(A-2-1)18abd (*845, p. 576; 886, p. 791; 910, p. 59; 940, p. 55; 948, p. 57; *990, p. 58). T. Q. Williams.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.
1	....	....	....	....	29.0	....	....	25.0	....	....
2	....	....	....	22.8	29.2	....	....	25.8	....	....
3	22.2	....	....	22.0	29.2	....	....	25.8	....	....
4	22.0	....	....	22.9	29.5	....	....	26.8	24.4	....
5	22.1	....	....	23.3	30.0	....	....	27.3	24.4	....
6	22.1	20.9	....	23.4	30.6	....	....	27.1	24.4	....
7	22.1	20.9	....	23.5	31.0	....	....	26.1	24.2	....
8	22.1	21.0	....	23.3	31.5	....	....	24.9	24.4	....

(A-2-1)18abd--Continued.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.
9	22.1	21.0	....	23.9	31.6	....	....	....	24.4	....
10	22.1	21.1	21.1	23.9	....	....	....	....	24.2	....
11	22.0	21.0	21.2	24.2	....	....	....	....	24.4	....
12	22.0	21.1	21.2	23.2	....	....	....	....	24.1	....
13	22.0	21.0	21.0	23.8	....	....	....	....	24.1	....
14	22.0	20.9	21.2	24.0	....	....	....	....	24.1	....
15	22.0	20.9	21.2	24.6	....	30.5	....	....	24.0	....
16	22.0	20.9	21.3	24.6	....	30.3	....	....	....	....
17	....	21.0	21.3	24.5	....	29.5	....	....	....	....
18	....	21.0	21.3	25.0	....	28.7	....	....	....	....
19	....	21.0	21.3	25.1	....	28.4	....	....	....	....
20	....	20.9	21.4	25.3	....	30.4	....	....	....	....
21	....	20.9	21.4	25.9	....	26.7	....	24.3	....	a 22.3
22	....	20.9	....	26.2	....	27.2	....	23.2	....	....
23	....	20.9	....	26.2	....	28.0	....	23.3	....	....
24	....	....	....	25.8	....	27.9	....	23.5	....	....
25	....	....	....	27.0	....	29.8	....	23.9	....	....
26	....	....	....	27.3	....	27.8	....	24.1	....	....
27	....	....	....	26.0	....	....	....	24.1	....	....
28	....	....	....	26.9	....	....	....	23.9	....	....
29	....	....	....	....	....	....	25.4	24.1	....	....
30	....	....	....	....	....	....	25.0	....	....	....
31	....	....	....	28.8	....	....	26.6	....	....	....

a Gage reading.

(A-2-1)18baa 1 (*817, p. 351; *840, p. 518; 845, p. 576; *886, p. 792; *910, p. 60; 940, p. 55; 948, p. 58; *990, p. 58). State claim 5391. F. W. Cottrell. Water levels, in feet above land-surface datum, 1944: Apr. 10, 35.0; Dec. 21, 37.6.

(A-2-1)18dba 3 (*845, p. 576; 886, p. 792; *910, p. 60; 940, p. 55; 948, p. 58; *990, p. 58). State claim 10464. A. E. M. Bangerter. Water levels, in feet above land-surface datum, 1944: Apr. 10, 10.0; Dec. 21, 13.9.

(A-2-1)19aad 1 (*840, p. 518; 845, p. 576; 886, p. 792; *910, p. 60; 940, p. 55; 948, p. 58; 990, p. 58). State claim 2059. Moses Holbrook. Water levels, in feet below land-surface datum, 1944: Apr. 10, 65.20; Dec. 21, 65.22. Construction of this well permits movement of water from shallow aquifers into casing, through openings within 65 feet of land-surface. Measurements discontinued.

(A-2-1)19dbc 1 (*840, p. 519; 845, p. 577; 886, p. 792; *910, p. 61; 940, p. 55; 948, p. 58; *990, p. 58). State claim 1447. Bountiful City Corporation. Water level, in feet below land-surface datum, 1944: Dec. 28, 67.10.

(B-2-1)25bad 2 (*817, p. 365; *840, p. 528; 845, p. 577; 886, p. 793; *910, p. 61; 940, p. 55; 948, p. 58; *990, p. 58). State claim 12452. Myrtle Hatch. Water levels, in feet above land-surface datum, 1944: Apr. 10, 5.0; Dec. 21, 7.5.

(B-2-1)26aad 1 (*817, p. 368; *840, p. 528; 845, p. 577; 886, p. 793; *910, p. 61; 940, p. 55; 948, p. 58; *990, p. 58). State claim 3656. Clyde Hatch. Water levels, in feet above land-surface datum, 1944: Apr. 10, 44.7; Dec. 21; 48.3.

(B-2-1)27ddd 4 (*817, p. 373; *840, p. 529; 845, p. 577; 886, p. 793; *910, p. 61; 940, p. 55; 948, p. 58; *990, p. 59). State claim 12034. Albert Thalman. Water levels, in feet above land-surface datum, 1944: Apr. 10, 29.5; Dec. 21, 30.3.

(B-2-1)34ads 3 (*817, p. 374; 840, p. 529; 845, p. 577; 886, p. 793; *910, p. 61; 940, p. 55; 948, p. 58; *990, p. 59). State claim 9308. M. H. Dearden. Water levels, in feet above land-surface datum, 1944: Apr. 10, 21.1; Dec. 21, 19.6.

(B-2-1)36bad 2 (*817, p. 378; *840, p. 530; 845, p. 578; 886, p. 794; *910, p. 62; 940, p. 56; 948, p. 58; *990, p. 59). State claim 4550. M. P. Parkin. Water levels, in feet below land-surface datum, 1944: Apr. 10, 18.50; Dec. 21, 14.84.

(B-2-1)36bbd 1 (*817, p. 379; *840, p. 530; 845, p. 578; 886, p. 794; *910, p. 62; 940, p. 56; 948, p. 58; *990, p. 59). State claim 951. Anna I. Lemon.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.7	....	8.8	8.5	9.0	11.0	12.3	....	10.4	....	9.7	....
2	10.0	....	8.8	8.5	8.9	10.8	12.2	....	10.3	....	9.5	....
3	9.7	9.4	8.8	8.5	9.0	11.0	12.1	11.8	10.2	....	9.9	....
4	9.4	9.5	9.0	8.5	....	11.2	12.1	11.8	10.3	....	10.2	....
5	....	9.6	8.8	8.4	....	11.8	12.1	11.8	10.4	....	10.0	....
6	....	9.5	8.5	8.3	....	12.2	12.0	11.8	10.5	....	10.0	....
7	....	9.6	8.6	8.3	....	12.0	12.2	11.8	10.5	....	10.0	....
8	....	9.6	8.6	8.3	....	12.5	12.5	11.8	10.5	....	9.0	....
9	....	9.5	8.7	8.0	....	12.2	12.6	11.5	10.4	....	10.0	....
10	....	8.6	9.0	8.0	....	12.1	12.5	11.5	10.6	10.0	10.4	....
11	....	9.3	8.8	7.9	9.3	12.7	12.5	11.4	10.5	10.3	10.4	....
12	....	9.2	8.8	7.6	9.5	12.8	12.5	11.4	10.5	10.3	....	....
13	....	9.2	8.5	7.8	10.2	12.8	12.5	11.3	10.5	10.1	10.3	....
14	....	9.2	8.7	7.8	10.2	12.8	12.5	11.0	10.2	10.0	10.2	....
15	....	8.6	8.6	8.0	10.1	12.8	12.3	10.6	9.9	9.9	10.3	....
16	....	9.0	8.5	8.1	10.1	12.7	12.3	10.7	10.1	9.6	10.2	....
17	....	9.1	8.6	8.3	9.5	12.5	12.2	10.9	10.4	9.6	10.2	....
18	....	9.0	8.6	8.1	10.0	12.8	12.3	10.8	9.7	9.6	....	....
19	....	9.0	8.6	8.1	9.8	12.7	12.1	10.8	9.9	9.6	....	....
20	....	8.8	8.5	8.3	10.0	12.8	12.3	10.7	10.1	9.5	....	....
21	....	8.8	8.3	8.3	10.9	12.9	12.3	10.7	10.3	9.6	....	10.7
22	....	9.1	8.3	8.3	10.9	12.8	12.3	10.6	9.9	9.6	....	11.1
23	....	9.1	8.5	8.5	10.5	12.8	12.6	....	10.1	9.6	....	11.1
24	....	9.0	8.5	8.7	10.8	13.0	12.7	10.7	10.3	9.5	....	10.8
25	....	9.1	8.7	8.4	10.9	12.7	12.6	10.5	10.3	9.4	....	10.7
26	....	9.0	8.5	8.6	11.0	11.9	12.7	10.3	10.3	9.5	....	10.6
27	....	9.0	8.3	8.8	11.3	12.0	12.3	10.5	10.2	9.6	....	10.7
28	....	8.8	8.3	8.8	11.1	12.0	....	10.7	....	9.7	....	10.9
29	....	8.9	8.4	8.9	10.9	12.0	....	10.5	....	9.7	....	9.9
30	....	....	8.5	9.0	11.0	12.3	....	10.4	....	9.8	....	....
31	....	....	8.8	....	11.1	....	....	10.5	....	9.8	....	....

(8-2-1)36ccb 1 (*817, p. 380; *840, p. 530; 845, p. 579; *886, p. 795; 910, p. 62; 940, p. 56; 948, p. 59; *990, p. 59). State claim 17108. Farmers State Bank. Water levels, in feet above land-surface datum, 1944: Apr. 10, 3.2; Dec. 21, 5.9; well flowing prior to measurement.

Duchesne County - Uinta Basin 7/

U(B-1-1)31ddb (*817, p. 477; *840, p. 613; 845, p. 580; 886, p. 796; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61). Morris Woodward. Water level, in feet below land-surface datum, 1944: Nov. 4, 5.92.

U(B-4-3)2bad 1 (*886, p. 797; *910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61). State application 12553. Duchesne City. Water level, in feet below land-surface datum, 1944: Nov. 3, 3.71.

U(C-1-2)4adc 1 (*817, p. 478; *840, p. 614; 845, p. 580; 886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; numbered U(C-1-2)4acd in *990, p. 61). State claim 8162. Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Nov. 4, 15.56.

U(C-1-2)15bbc 1 (*817, p. 478; *840, p. 614; 845, p. 580; 886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61). State claim 2152. R. M. Clarke. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Nov. 4, 11.1.

7/ For other wells in this basin, see page 125.

U(C-1-2)27aaa (*817, p. 478; *840, p. 614; *845, p. 581; 886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 62). State claim 3169. Drought Relief Administration. Water level, in feet above land-surface datum, 1944: Nov. 4, 18.0.

U(C-1-3)28dcd 1 (*886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61). D. H. Allred. Water level, in feet below land-surface datum, 1944: Nov. 3, 6.87.

U(C-1-3)31cca 5 (*886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61). R. A. Lister. Water level, in feet below land-surface datum, 1944: Nov. 3, 2.66.

U(C-1-4)14aad 1 (*886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; 990, p. 61). State application 12748. Forest Service, U. S. Dept. of Agriculture. Water level, in feet below land-surface datum, 1944: No. 3.52.

U(C-1-4)28dcc 1 (*886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61). State claim 8170. Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Nov. 3, 7.45.

U(C-1-5)13ada 2 (*817, p. 478; 840, p. 614; 845, p. 581; 886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61). State claim 6006. Brigham Stephenson. Water level, in feet below land-surface datum, 1944: Nov. 3, 6.30.

U(C-1-5)13ada 3 (*817, p. 478; *840, p. 614; 845, p. 581; *886, p. 797; *910, p. 65; 940, p. 58; 948, p. 60; *990, p. 61). State claim 8165. Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Nov. 3, 7.47.

U(C-2-1)15dda 1 (*886, p. 797; *910, p. 65; 948, p. 60; *990, p. 61). State application 12977. R. Q. Warnock. No measurements made in 1944.

U(C-2-1)22bb (*840, p. 614; *845, p. 581; 886, p. 797; *910, p. 65; 940, p. 58; 948, p. 60; *990, p. 62). State application 12440. E. H. Peterson. No measurements made in 1944.

U(C-2-1)22bcb 1 (*817, p. 478; *840, p. 614; 845, p. 581; 886, p. 797; 910, p. 65; 940, p. 58; 948, p. 60; *990, p. 22). State claim 959. Stephen Wogac. No measurements made in 1944.

U(C-2-2)13ccc (*886, p. 798; 910, p. 65; 940, p. 58; 948, p. 60; *990, p. 62). State claim 1861. J.). Griffin. Water level, in feet above land-surface datum, 1944: Nov. 4, 2.60. Pressure pump installed; measurements discontinued.

U(C-2-2)13ddc 1. State application 15324. Hugh Gagon. Stock well, diameter 4½ inches, depth 75 feet. Measuring point, top of concrete plug, 1.3 feet above land-surface datum. Water levels, in feet above land-surface datum, 1943-44: Oct. 20, 1943, 7.4; Nov. 4, 1944, 6.1. Well flowing prior to measurement.

U(C-2-2)23bac 1 (*817, p. 478; *840, p. 614; 845, p. 581; 886, p. 798; 910, p. 65; 940, p. 58; 948, p. 60; 990, p. 62). State claim 1658. City of Roosevelt. Water level, in feet above land-surface datum, 1944: Nov. 4, 10.2. Well flowing prior to measurement.

U(C-2-3)10dad (*886, p. 798; 910, p. 65; 940, p. 58; 948, p. 61; *990, p. 62). George Vangundy. Measurements discontinued after Oct. 19, 1943.

U(C-2-3)28da (*817, p. 478; 840, p. 614; 845, p. 581; 886, p. 798; 910, p. 65; 940, p. 58; 948, p. 61; *990, p. 62). Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Nov. 3, 4.25.

U(C-2-3)33ccd 1 (*886, p. 798; 910, p. 66; 940, p. 58; 948, p. 61; *990, p. 62). E. B. Thompson. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Nov. 3, 6.0.

U(C-2-5)2bbc 1 (*817, p. 478; *886, p. 798; *910, p. 66; 940, p. 58; 948, p. 61; *990, p. 62). State claim 8161. Drought Relief Administration. Measurements discontinued after Oct. 19, 1943. Record unreliable; affected by surface water.

U(C-3-3)8cdd 1 (*817, p. 478; 840, p. 614; 845, p. 581; 886, p. 798; 910, p. 66; 940, p. 58; 948, p. 51; *990, p. 62). Henry Richins. Water level, in feet above land-surface datum, 1944: Nov. 3, 9.7. Well flowing prior to measurement.

U(C-3-4)7ca 1 (*817, p. 479; *886, p. 798; 910, p. 66; 948, p. 61; *990, p. 62). Knight Investment Co. Water level, in feet below land-surface datum, 1944: Nov. 3, 96.65.

U(C-3-4)7ca 2 (*845, p. 581; 886, p. 798; 910, p. 66; 940, p. 58; 948, p. 61; *990, p. 62). Knight Investment Co. Water level, in feet below land-surface datum, 1944: Nov. 3, 117.35. Measurements discontinued.

U(C-3-4)21aa (*817, p. 479; 840, p. 614; 845, p. 581; 886, p. 798; 910, p. 66; 940, p. 58; 948, p. 61; *990, p. 62). Knight Investment Co. Water level, in feet below land-surface datum, 1944: Nov. 3, 94.88.

U(C-3-4)22ba (*817, p. 479; 840, p. 614; 845, p. 581; 886, p. 798; 910, p. 66; 940, p. 58; 948, p. 61; *990, p. 62). Knight Investment Co. Water level, in feet below land-surface datum, 1944: Nov. 3, 154.52.

U(C-4-2)5bb (*817, p. 479; 840, p. 614; 845, p. 581; 886, p. 798; 910, p. 66; 940, p. 58; 948, p. 61; *990, p. 63). Drought Relief Administration.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	4.04	4.36	4.82	....	3.41	....	2.80	2.94
2	....	....	4.05	4.36	4.79	....	3.41	....	2.79	2.93
3	....	....	4.06	....	....	....	3.41	....	2.78	2.93
4	....	....	4.11	....	....	....	....	....	2.78	2.92
5	4.02	....	4.15	....	....	....	....	....	2.78	2.92
6	4.03	....	4.18	4.29	....	....	....	....	2.79	2.91
7	4.05	....	4.20	4.27	....	....	....	....	2.80	2.91
8	4.07	....	....	4.25	....	....	....	....	2.80	....
9	4.09	....	....	4.22	....	....	....	....	....	....
10	4.10	....	....	4.19	....	....	2.63	....	....	....
11	....	....	4.22	4.16	3.88	....	2.63	....	....	....
12	....	3.82	4.25	4.12	3.86	....	2.63	....	2.81	....
13	....	3.84	4.27	4.08	3.82	....	2.63	....	2.81	2.91
14	....	3.86	4.30	....	3.79	....	2.63	....	2.81	2.91
15	....	3.88	4.33	....	3.73	2.95	2.63	....	2.82	2.92
16	....	3.90	4.37	....	....	....	2.63	....	2.82	2.93
17	....	3.93	4.40	3.75	....	2.81	2.63	....	2.82	2.94
18	....	3.95	....	3.81	....	2.88	....	....	2.83	2.95
19	....	3.97	....	3.87	3.20	2.88	....	....	2.83	2.96
20	....	3.97	4.41	3.93	....	....	....	....	2.84	2.97
21	....	3.98	4.41	3.99	....	....	....	....	2.85	....
22	....	3.98	4.42	4.05	....	....	....	2.80	2.86	2.98
23	....	3.99	....	4.11	....	....	....	2.80	2.87	2.98
24	....	3.99	....	4.17	....	....	....	2.80	2.88	3.00
25	....	4.00	....	4.24	....	....	....	2.80	2.89	3.01
26	....	4.00	....	4.83	....	....	....	2.80	2.90	3.01
27	....	4.00	4.40	4.83	....	....	....	2.80	2.91	3.02
28	....	4.01	4.40	4.83	....	3.40	....	2.80	....	3.02
29	....	4.02	4.41	4.83	2.49	3.39	....	....	....	3.03
30	....	4.03	4.41	4.83	....	3.39	....	....	2.94	....
31	....	....	4.41	....	....	3.41	....	....	....	....

U(C-4-2)5bb 2 (*990, p. 63). Lila Gentry. No measurements made in 1944. Measurements discontinued after Nov. 8, 1943.

U(C-4-3)3cb (*817, p. 479; *840, p. 614; 845, p. 581; 886, p. 798; *910, p. 66; 940, p. 58; 948, p. 61; *990, p. 63). State claim 13129. Roy Taylor. Measurements discontinued after Oct. 21, 1943.

U(C-4-3)4bdc 1 (*886, p. 799; 910, p. 66; 940, p. 58; 948, p. 61; *990, p. 63). State application 12568. Bureau of Reclamation, U. S. Dept. of Interior. Water level, in feet below land-surface datum, 1944: Nov. 3, 6.87.

Garfield County - East Sevier Valley

(C-31-2)10cba 1 (*840, p. 565; 845, p. 581; 886, p. 799; 910, p. 66; *940, p. 58; 948, p. 61; *990, p. 63). Gus Lambson. Water levels, in feet below land-surface datum, 1944: Mar. 18, 17.51; Dec. 3, 9.41.

(C-32-2)2dad 1 (*840, p. 565; 845, p. 581; 886, p. 799; 910, p. 66; *940, p. 58; 948, p. 61; *990, p. 63). T. W. Roberts. Water levels, in feet below land-surface datum, 1944: Mar. 18, 11.43; Dec. 3, 11.00.

(C-35-4)34dca 1 (*845, p. 582; 886, p. 799; *910, p. 67; 940, p. 59; 948, p. 62; *990, p. 64). State claim 5140. Charles and Will Proctor. Water levels, in feet below land-surface datum, 1944: Mar. 18, 7.20; Dec. 3, 7.74.

(C-36-3)7aac 1 (*845, p. 582; *886, p. 799; 910, p. 67; *940, p. 59; 948, p. 62; *990, p. 64). Lillie Stead. Water level, in feet below land-surface datum, 1944: Mar. 18, 5.15.

(C-36-3)18bdd 1 (*845, p. 582; 886, p. 799; 910, p. 67; 940, p. 59; 948, p. 62; *990, p. 64). R. G. Syrett. Water levels, in feet below land-surface datum, 1944: Mar. 18, 55.66; Dec. 3, 88.50.

Garfield County - Upper Sevier Valley 8/

(C-33-5)21bdb 1 (*817, p. 424; 840, p. 566; 845, p. 581; 886, p. 799; 910, p. 66; *940, p. 58; 948, p. 62; *990, p. 63). Eva Tebbs. Water levels, in feet below land-surface datum, 1944: Mar. 18, 12.33; Dec. 3, 12.07.

(C-33-5)28bcd 1 (*840, p. 566; 845, p. 582; 886, p. 799; *910, p. 66; 940, p. 59; 948, p. 62; 990, p. 63). State application 11739. Annie Wilcock. Water levels, in feet below land-surface datum, 1944: Mar. 18, 46.88; Dec. 3, 41.08.

(C-34-5)8adb 2 (*817, p. 426; *840, p. 569; 845, p. 582; 886, p. 799; *910, p. 66; 940, p. 59; 948, p. 62; *990, p. 63). Deward Woodard. Water levels, in feet below land-surface datum, 1944: Mar. 18, 18.17; Dec. 3, 14.20.

(C-34-5)28dca 1 (*817, p. 426; 840, p. 569; 845, p. 582; *886, p. 799; 910, p. 66; *940, p. 59; 948, p. 62; 990, p. 63). Reed Hayward. Water levels, in feet below land-surface datum, 1944: Mar. 18, 15.78; Dec. 3, 8.75.

(C-36-5)29da (*817, p. 435; 840, p. 535; *845, p. 582; 886, p. 800; 910, p. 67; 940, p. 59; 948, p. 62; *990, p. 64). J. A. Yardley. Water levels, in feet below land-surface datum, 1944: Mar. 18, 31.77; Dec. 3, 22.73.

Grand County - Colorado River area

(D-22-19)27dbb (948, p. 62; 990, p. 64). Frank Paxton. No measurements made in 1944.

(D-24-20)22bac 1 (948, p. 62; *990, p. 64). Grazing Service, U. S. Dept. of Interior. No measurements made in 1944.

(D-26-22)17dbb (948, p. 62; *990, p. 64). No measurements made in 1944.

Iron County - Cedar City Valley

Coal Creek District

(C-35-11)21dbd 1 (*886, p. 810; 910, p. 75; 940, p. 60; 948, p. 63; 990, p. 65). State claim 1222. D. C. Urie.

8/ For other wells in this valley, see page 104.

(C-35-11)21dbd 1--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.88	24.54	24.21	23.69	23.38	23.29	22.40	22.93	23.91	24.49	24.39	24.07
2	24.84	24.55	24.15	23.71	23.40	23.23	22.38	23.03	24.00	24.50	24.40	24.04
3	24.83	24.50	24.14	23.66	23.38	23.16	22.39	23.09	24.07	24.46	24.41	24.06
4	24.87	24.50	24.07	23.63	23.35	23.18	22.36	23.12	24.12	24.47	24.38	24.09
5	24.84	24.52	24.07	23.62	23.31	23.17	22.37	23.15	24.14	24.49	24.35	24.08
6	24.79	24.47	24.11	23.60	23.29	23.12	22.39	23.20	24.14	24.52	24.34	24.04
7	24.85	24.44	24.13	23.56	23.31	23.07	22.40	23.22	24.13	24.53	24.36	24.01
8	24.83	24.43	24.11	23.56	23.33	22.98	22.44	23.25	24.22	.....	24.39	23.99
9	24.78	24.49	24.08	23.53	23.32	22.97	22.42	23.31	24.22	.....	24.33	24.02
10	24.76	24.47	24.04	23.57	23.32	22.94	22.48	23.34	24.23	.....	24.30	24.02
11	24.79	24.41	24.00	23.53	23.36	22.91	22.53	23.33	24.23	24.55	24.25	23.98
12	24.82	.....	23.96	23.49	23.35	22.84	22.58	23.30	24.22	24.55	24.30	23.99
13	24.79	24.42	23.93	23.48	23.30	22.75	22.61	23.32	24.24	24.53	24.31	23.99
14	24.76	24.36	23.93	23.47	23.26	22.68	22.64	23.36	24.24	24.53	24.29	23.95
15	24.73	24.39	23.98	23.48	23.21	22.64	22.69	23.37	24.31	24.56	24.26	23.93
16	24.76	24.37	23.94	23.43	23.24	22.60	.....	23.38	24.26	24.57	24.25	23.91
17	24.72	24.38	23.88	23.51	23.28	22.56	.....	23.44	24.25	24.57	24.23	23.90
18	24.75	24.37	23.89	23.57	23.27	22.53	.....	23.47	24.24	24.58	24.22	23.91
19	24.71	24.35	23.85	23.47	23.29	22.48	.....	23.52	24.23	.....	24.24	23.88
20	24.66	24.31	23.82	23.41	23.33	22.44	.....	23.57	24.23	24.57	24.27	23.87
21	24.65	24.29	23.85	23.47	23.37	22.43	.....	23.62	24.25	24.54	24.25	23.86
22	24.64	24.32	23.88	23.50	23.36	22.48	.....	23.65	24.31	24.54	24.22	23.82
23	24.59	24.29	23.82	23.45	23.40	22.46	.....	23.62	24.33	24.55	24.16	23.80
24	24.53	24.25	23.76	23.40	23.45	22.47	.....	23.69	24.35	24.54	24.11	23.79
25	24.60	24.26	23.74	23.43	23.46	22.45	.....	23.74	24.39	24.52	24.18	23.80
26	24.60	24.24	23.82	23.48	23.46	22.36	.....	23.78	24.42	24.52	24.16	23.78
27	24.59	24.26	23.80	23.49	23.48	22.43	.....	23.76	24.47	24.51	24.13	23.78
28	24.60	24.25	23.81	23.42	23.47	22.43	.....	23.79	24.47	24.46	24.16	23.74
29	24.57	24.22	23.75	23.43	23.43	22.48	.....	23.82	24.46	24.45	24.12	23.75
30	24.56	.....	23.72	23.41	23.37	22.45	22.89	23.87	24.46	24.44	24.09	23.77
31	24.56	.....	23.69	.....	23.32	.....	22.94	23.88	.....	24.41	.....	.....

(C-35-11)21dcc 1 (*817, p. 429; *840, p. 576; 845, p. 603; *886, p. 811; *910, p. 76; 940, p. 60; 948, p. 64; *990, p. 66). State claim 11599. Wilford Fife. Water level, in feet below land-surface datum, 1944: Dec. 7, 27.72.

(C-35-11)27acc 1 (*817, p. 429; *840, p. 577; *845, p. 604; *886, p. 811; *910, p. 77; 940, p. 60; 948, p. 64; *990, p. 66). State claim 332. Fernleigh Gardner.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	33.90	May 26	35.36	Aug. 28	46.41	Dec. 2	40.93
Feb. 28	38.12	June 28	35.57	Sept.29	45.93	7	38.87
Mar. 25	37.38	July 19	44.72	Oct. 28	41.21	30	38.19
Apr. 29	34.55	30	42.05				

(C-35-11)33aac 1 (*777, p. 244; *817, p. 532; *840, p. 578; 845, p. p. 607; *886, p. 814; 910, p. 79; 940, p. 60; 948, p. 64; 990, p. 66). State claim 5126. Cottonwood Pump & Irrigation Co. Water level, in feet below land-surface datum, 1944: Dec. 7, 62.43.

(C-36-11)8aab 1 (*817, p. 435; *840, p. 586; 845, p. 612; *886, p. 816; *910, p. 81; 940, p. 60; 948, p. 65; *990, p. 66). State claim 13494. Leonard Hargrave. No measurements made in 1944.

(C-36-11)18aba 2 (*817, p. 436; 840, p. 586; 845, p. 613; 886, p. 817; *910, p. 81; 940, p. 61; 948, p. 65; 990, p. 66). State claim 17383. Jacob Smith. Water level, in feet below land-surface datum, 1944: Dec. 7, 19.56.

Iron County - Cedar City Valley

Enoch District

(C-34-10)31cbc 1 (*845, p. 594; *886, p. 801; 910, p. 67; 940, p. 59; 948, p. 63; *990, p. 64). M. S. Jones. Water level, in feet below land-surface datum, 1944: Dec. 7, 0.62.

(C-35-10)18cbb 1 (*840, p. 574; 845, p. 598; *886, p. 804; *910, p. 69; 940, p. 59; 948, p. 63; *990, p. 64). Richard Williams. Water levels, in feet below land-surface datum, 1944: Mar. 14, 44.02; Dec. 7, 48.53.

(C-35-11)1cdc 1 (*840, p. 574; 845, p. 598; *886, p. 805; *910, p. 70; 940, p. 59; 948, p. 63; *990, p. 65). State claim 17278. Ray Grimshaw. Water levels, in feet below land-surface datum, 1944: Mar. 14, 3.44; Dec. 7, 3.88.

(C-35-11)14dab 1 (*840, p. 575; 845, p. 602; *886, p. 809; *910, p. 73; 940, p. 59; 948, p. 63; 990, p. 65). State claim 14000. David Murie. Water levels, in feet below land-surface datum, 1944: Mar. 14, 1.24; Dec. 7, 1.51.

Iron County - Cedar City Valley

Hamilton Fort District

(C-36-12)26cbb 1 (*845, p. 616; *886, p. 820; *910, p. 84; 940, p. 61; 948, p. 65; *990, p. 67). State claim 13747. Cox and Thorley. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 7, 5.2.

(C-37-12)11dbc 1 (*845, p. 617; *886, p. 821; 910, p. 86; 940, p. 61; 948, p. 65; *990, p. 67). Oliver Berkhelder. Water level, in feet below land-surface datum, 1944: Dec. 7, 8.96.

Iron County - Cedar City Valley

Iron Springs District

(C-35-11)29abd 2 (*840, p. 577; *845, p. 605; *886, p. 813; *910, p. 77; 940, p. 60; 948, p. 64). Measurements discontinued.

(C-35-11)31acd 1 (*817, p. 431; *840, p. 578; 845, p. 606; *886, p. 814; *910, p. 78; 940, p. 60; 948, p. 64; *990, p. 66). State claim 13498. Heber Jensen. Water level, in feet below land-surface datum, 1944: Dec. 7, 22.37.

(C-35-12)34dcd 1 (*817, p. 433; *840, p. 579; *845, p. 608; *886, p. 815; *910, p. 80; 940, p. 60; 948, p. 64; *990, p. 66). State claim 4873. R. J. and W. M. Shay. Water level, in feet below land-surface datum, 1944: Dec. 7, 16.29.

(C-36-12)1aaa 2 (*817, p. 436; *840, p. 587; 845, p. 614; *886, p. 818; *910, p. 82; 940, p. 61; 948, p. 65; *990, p. 66). State claim 13995. M. J. McFarland. Water level, in feet below land-surface datum, 1944: Dec. 7, 9.23.

(C-36-12)12dba 1 (*817, p. 437; 840, p. 587; 845, p. 615; *886, p. 819; *910, p. 83; 940, p. 61; 948, p. 65; *990, p. 66). State claim 15411. Branch Agricultural College. Water level, in feet below land-surface datum, 1944: Dec. 7, 13.43.

(C-36-12)14bbd 1 (*817, p. 437; 840, p. 587; 845, p. 615; *886, p. 819; 910, p. 84; 940, p. 61; 948, p. 65; *990, p. 66). G. H. Pratt. Water level, in feet below land-surface datum, 1944: Dec. 7, 7.02.

Iron County - Cedar City Valley

Kanarraville District

(C-37-12)23aab 1 (*817, p. 438; *840, p. 588; *845, p. 617; *886, p. 822; *910, p. 87; 940, p. 61; 948, p. 65; *990, p. 67). State claim 13010. Federal Land Bank. Water level, in feet below land-surface datum, 1944: Dec. 7, 51.11.

(C-37-12)34abb 1 (*817, p. 438; *840, p. 588; *845, p. 618; *886, p. 828; *910, p. 87; 940, p. 61; 948, p. 65; *990, p. 67). State claims 1646 and 8184. Kanarra Field & Reservoir Co. Water level, in feet below land-surface datum, 1944: Dec. 7, 39.07.

(C-38-12)3bcb 1 (*845, p. 618; *886, p. 822; *910, p. 87; 940, p. 61; 948, p. 65; *990, p. 67), State claim 12845. Ford and Williams. Water level, in feet below land-surface datum, 1944: Dec. 7, 65.45.

Iron County - Cedar City Valley

Midvalley District

(C-34-11)29bad 1 (*840, p. 570; *845, p. 595; *886, p. 803; 910, p. 69; 940, p. 59; 948, p. 63; *990, p. 64). E. E. Williams. Water level, in feet below land-surface datum, 1944: Dec. 7, 24.06.

(C-34-11)36cbc 2 (*840, p. 571; 845, p. 596; *886, p. 804; *910, p. 69; 940, p. 59; 948, p. 63; *990, p. 64). State claim 10820. George Grimshaw. Water level, in feet below land-surface datum, 1944: Dec. 7, 19.02.

(C-35-11)4ddd 1 (*840, p. 575; *845, p. 599; *886, p. 805; *910, p. 70; 940, p. 59; 948, p. 63; *990, p. 65). State claim 5121. Federal Land Bank. Water level, in feet below land-surface datum, 1944: Dec. 7, 3.08.

(C-35-11)8cdd 1 (*840, p. 575; *845, p. 599; 886, p. 806; *910, p. 71; 940, p. 59; 948, p. 63; *990, p. 65). State claim 13703. Charles Corry. Water levels, in feet below land-surface datum, 1944: Mar. 14, 9.97; Dec. 7, 11.41.

(C-35-11)15aac 1 (*840, p. 575; 845, p. 602; *886, p. 809; *910, p. 74; 940, p. 59; 948, p. 63; *990, p. 65). State claim 1220. H. D. Haight. Water level, in feet below land-surface datum, 1944: Dec. 7, 7.46. Correct water level on Dec. 11, 1943 is 7.77 feet below land-surface datum, not 8.67 feet as reported.

Iron County - Cedar City Valley

Quaatchupah District

(C-36-12)20ddc 1 (*910, p. 84; 940, p. 61; 948, p. 65; *990, p. 66). State claim 13516. E. L., H. D., and L. M. Jones. Water level, in feet below land-surface datum, 1944: Dec. 7, 1.93.

(C-36-12)28ccc 1 (*845, p. 616; *886, p. 820; 910, p. 85; 940, p. 61; 948, p. 65; *990, p. 67). A. P. Spilsbury. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 7, 6.5. Well flowing prior to measurement.

(C-37-12)9baa 1 (*845, p. 617; *886, p. 821; *910, p. 86; 940, p. 61; 948, p. 65; *990, p. 67). State claim 16350. Platt Watson. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 7, 3.73.

Iron County - Cedar City Valley

Rush Lake District

(C-33-11)30ddd 1 (*845, p. 590; *886, p. 800; *910, p. 67; 940, p. 59; 948, p. 63; *990, p. 64). State claim 6005. G. P. Stapley. Water level, in feet below land-surface datum, 1944: Dec. 7, 55.58.

(C-34-10)6ccc 1 (*845, p. 594; *886, p. 801; *910, p. 67; 940, p. 59; 948, p. 63; 990, p. 64). State claim 11213. Public Land. Water level, in feet below land-surface datum, 1944: Dec. 7, 10.44.

(C-34-11)9cdc 1 (*845, p. 595; *886, p. 802; 910, p. 88; 940, p. 59; 948, p. 63; *990, p. 64). D. C. Evans. Water level, in feet below land-surface datum, 1944: Dec. 7, 22.17.

Iron County - Escalante Valley 9/

(C-31-12)9abb 1 (*886, p. 823; 910, p. 87; *940, p. 61; 948, p. 65; *990, p. 67). R. R. McGinty and others. Water level, in feet below land-surface datum, 1944: Nov. 26, 76.41.

(C-31-12)9cbc 1 (*886, p. 823; 910, p. 87; *940, p. 61; 948, p. 65; *990, p. 67). Alta Bonner. Water level, in feet below land-surface datum, 1944: Nov. 26, 61.33.

(C-31-12)17cad 1 (*910, p. 87; *940, p. 61; 948, p. 66; *990, p. 67). Alta Bonner. Water level, in feet below land-surface datum, 1944: Nov. 26, 43.83.

(C-31-12)19ccd 1 (*886, p. 823; 910, p. 87; *940, p. 61; 948, p. 66; *990, p. 67). State claim 20091. Public Land. Water level, in feet below land-surface datum, 1944: Nov. 26, 48.54.

(C-31-13)1a 1 (*845, p. 582; 886, p. 823; *910, p. 87; *940, p. 61; 948, p. 66; 990, p. 67). State claim 6486. Public Land. Water level, in feet below land-surface datum, 1944: Nov. 26, 27.69.

(C-31-13)1a 2 (*817, p. 424; 840, p. 565; *845, p. 583; 886, p. 823; 910, p. 87; 940, p. 61; 948, p. 66; *990, p. 67). Public Land. Water level, in feet below land-surface datum, 1944: Nov. 26, 27.38.

(C-31-13)4bcc 2 (*940, p. 61; 948, p. 66; 990, p. 67). State claim 14007. J. O. Steele. Measurements discontinued after Dec. 8, 1943.

(C-31-13)4cdd 1 (*845, p. 583; 886, p. 823; 910, p. 87; 940, p. 61; 948, p. 66; 990, p. 68). Pearl Boeck. Water level, in feet below land-surface datum, 1944: Nov. 26, 24.91.

(C-31-13)8dbc 1 (*845, p. 583; 886, p. 823; *910, p. 87; *940, p. 62; 948, p. 66; *990, p. 68). State claim 11588. Public Land. Water level, in feet below land-surface datum, 1944: Nov. 26, 36.77.

(C-31-13)27bcd 1 (*910, p. 88; *940, p. 62; 948, p. 66; *990, p. 68). State claim 11567. Bell Couch. Water level, in feet below land-surface datum, 1944: Nov. 26, 39.38.

(C-31-13)33ccc 1 (*845, p. 583; 886, p. 823; 910, p. 88; 940, p. 62; 948, p. 6[illegible] *990, p. 68). Lemont Lowe. Water level, in feet below land-surface datum, 1944: Nov. 26, 33.75.

(C-31-14)9bcd 1 (*910, p. 88; *940, p. 62; 948, p. 66; *990, p. 68). State claim 13999. Public Land. Water level, in feet below land-surface datum, 1944: Dec. 8, 42.68. Measurements discontinued.

(C-32-12)6cbb 1 (*910, p. 88; *940, p. 62; 948, p. 66; *990, p. 68). G. A. Lowe, Jr. Windmill pumping during measurement. Water level, in feet below land-surface datum, 1944: Nov. 26, 61.46.

(C-32-12)34dda 1 (*886, p. 823; 910, p. 88; 940, p. 62; 948, p. 66; 990, p. 68). State claim 6004. W. L. Adams. Measurements discontinued after Mar. 15, 1943.

(C-32-13)6baa 1 (*940, p. 62; 948, p. 67; *990, p. 68). Wm. Hinz. Measurements discontinued after Mar. 15, 1943.

9/ For other wells in this valley see pages 61-67, 91, 137-138.

(C-32-14)12ccd 1 (*886, p. 824; 910, p. 88; *940, p. 62; 948, p. 67; 990, p. 68). Fred C. Pagel. Water level, in feet below land-surface datum, 1944: Nov. 26, 24.48. Measurements discontinued; well caved.

(C-32-14)28bbb 1 (*840, p. 566; *845, p. 594; *886, p. 824; 910, p. 88; 940, p. 62; 948, p. 67; *990, p. 68). State claim 17227. Joseph Dyson. Water level, in feet below land-surface datum, 1944: Nov. 26, 3.20.

(C-32-14)30bab 1 (*910, p. 88; 940, p. 62; 948, p. 67; *990, p. 68). J. H. Johnston. Windmill stopped 10 minutes prior to measurement. Water level, in feet below land-surface datum, 1944: Nov. 26, 33.38.

(C-32-14)32add 2 (*948, p. 67; *990, p. 69). J. H. Johnston. Water level, in feet below land-surface datum, 1944: Nov. 26, 11.98.

(C-32-16)26abb 1 (*940, p. 62; 948, p. 67; *990, p. 69). Byant Hedrick. No measurements made in 1944.

(C-32-16)27bab 1 (*940, p. 62; 948, p. 67; 990, p. 69). State claim 17689. Donald Mackelprang. No measurements made in 1944.

(C-32-16)28b (*940, p. 62; 948, p. 67; 990, p. 69). Byant Hedrick. Measurements discontinued after March 16, 1943.

(C-33-12)17abd 1 (*940, p. 63; 948, p. 67; *990, p. 69). State claim 13489. Iron County. No measurements made in 1944.

(C-33-12)18bda 1 (*940, p. 63; 948, p. 67; *990, p. 69). State claim 13715. Public Land. No measurements made in 1944.

(C-33-12)29adc 1 (*940, p. 63; 948, p. 67; *990, p. 69). State claim 17643. R. B. Nelson. No measurements made in 1944.

(C-33-13)3d (*940, p. 63; 948, p. 67; *990, p. 69). Rebecca Bullock. No measurements made in 1944.

(C-33-14)36ddc 1 (*817, p. 427; *840, p. 567; 845, p. 590; 886, p. 824; 910, p. 89; *940, p. 63; 948, p. 68; *990, p. 69). Henry Jones. No measurements made in 1944.

(C-33-15)12aaa 1 (*836, p. 824; 910, p. 89; *940, p. 63; 948, p. 68; *990, p. 69). State of Utah. No measurements made in 1944.

(C-33-15)13cbb 1 (*886, p. 824; 910, p. 89; 940, p. 63; 948, p. 68; *990, p. 69). Iron County. Water level, in feet below land-surface datum, 1944: Dec. 9, 13.47.

(C-33-15)19bcc 1 (*840, p. 567; 845, p. 590; 886, p. 825; 910, p. 89; 940, p. 63; 948, p. 68; *990, p. 69). Robins and Maguire. No measurements made in 1944.

(C-33-15)25bbb 1 (*886, p. 825; 910, p. 89; 940, p. 63; 948, p. 68; *990, p. 69). Public Land. Water level, in feet below land-surface datum, 1944: Dec. 7, 7.37.

(C-33-15)27cda 1 (*886, p. 825; 910, p. 89; 940, p. 63; 948, p. 68; *990, p. 70). Public Land. Measurements discontinued after Dec. 12, 1943.

(C-33-15)31cbb 1 (*817, p. 425; *840, p. 568; 845, p. 590; 886, p. 825; 910, p. 89; 940, p. 63; 948, p. 68; *990, p. 70). Jesse Carlson. Water level, in feet below land-surface datum, 1944: Dec. 9, 26.72.

(C-33-15)33dcb 1 (*840, p. 568; 845, p. 590; *886, p. 825; *910, p. 89; 940, p. 63; 948, p. 68; *990, p. 70). State claim 13492. Arlie Fourman. Water level, in feet below land-surface datum, 1944: Dec. 9, 9.98.

(C-33-16)19ddd 1 (*817, p. 426; *840, p. 568; 845, p. 590; 886, p. 825; *910, p. 89; 940, p. 63; 948, p. 68; *990, p. 70). Clarence Lynd. Water level, in feet below land-surface datum, 1944: Dec. 11, 66.45.

(C-33-16)25bba 1 (*840, p. 568; *886, p. 825; 910, p. 89; 940, p. 64; 948, p. 69; 990, p. 70). Frank Emerine. Measurements discontinued after March 16, 1943.

(C-33-17)13dcc 1 (*840, p. 569; *940, p. 64; 948, p. 69; *990, p. 70). Lucie A. Burascono. Water level, in feet below land-surface datum, 1944: Dec. 11, 164.08.

(C-33-17)25add 1 (*840, p. 569; 886, p. 826; 910, p. 89; 940, p. 64; 948, p. 69; *990, p. 70). State claim 15293. Nunzio Furarino. Water level, in feet below land-surface datum, 1944: Dec. 11, 59.19.

(C-33-17)29dcb 1 (*817, p. 426; 840, p. 569; 845, p. 591; 886, p. 826; 910, p. 89; 940, p. 64; 948, p. 69; *990, p. 70). Frank Webster. No measurements made in 1944.

(C-33-17)31baa 1 (*840, p. 569; 940, p. 64; 948, p. 69; *990, p. 70). Agatha Webster. No measurements made in 1944.

(C-34-14)31ccc 1 (*886, p. 836; 910, p. 89; 940, p. 64; 948, p. 69; *990, p. 70). Geological Survey, U. S. Dept. of Interior. No measurements made in 1944.

(C-34-15)1ada 1 (*817, p. 427; *840, p. 571; 845, p. 593; *886, p. 826; *910, p. 89; *940, p. 64; 948, p. 69; *990, p. 70). State claims 5230 and 10672. Bank of Southern Utah. No measurements made in 1944.

(C-34-15)16ccc 1 (*886, p. 826; 910, p. 90; *940, p. 64; 948, p. 69; *990, p. 71). P. S. McQuarrie. Measurements discontinued after Mar. 16, 1943.

(C-34-15)16ccc 2 (886, p. 826; 910, p. 90; 940, p. 64; 948, p. 69; *990, p. 71). Geological Survey, U. S. Dept. of Interior. Measurements discontinued after Mar. 16, 1942.

(C-34-15)17bbb 1 (*886, p. 826; 910, p. 90; 940, p. 64; 948, p. 69; *990, p. 71). Public Land. Measurements discontinued after Mar. 16, 1943.

(C-34-15)27daa 2 (*886, p. 827; 910, p. 90; 940, p. 64; 948, p. 69; *990, p. 71). Geological Survey, U. S. Dept. of Interior. Measurements discontinued after Mar. 16, 1943.

(C-34-16)7aab 2 (*840, p. 57; *886, p. 827; *910, p. 90; 940, p. 64; 948, p. 69; *990, p. 71). State claim 17296. J. M. Robinson. Water level, in feet below land-surface datum, 1944: Dec. 11, 12.73. Measurements discontinued.

(C-34-16)9cbc 1 (*840, p. 571; 845, p. 596; 886, p. 827; 910, p. 90; 940, p. 64; 948, p. 69; *990, p. 71). Augustus Lott. Water level, in feet below land-surface datum, 1944: Dec. 11, 8.50.

(C-34-16)15ccc 2 (*886. p. 827; 910, p. 90; *940, p. 64; 948, p. 70; *990, p. 71). Iron County. Measurements discontinued after Dec. 13, 1943.

(C-34-16)17dcc 2 (*840, p. 571; 845, p. 597; 886, p. 827; 910, p. 90; 940, p. 65; 948, p. 70; *990, p. 71). Water level, in feet below land-surface datum, 1944: Dec. 11, 6.82.

(C-34-16)18aac 1 (*840, p. 571; *886, p. 827; 910, p. 90; 940, p. 65; 948, p. 70; *990, p. 71). C. E. Aye. Water level, in feet below land-surface datum, 1944: Dec. 11, 10.29.

(C-34-16)21dcc 2 (*840, p. 572; 886, p. 827; 910, p. 90; 940, p. 65; 948, p. 70; *990, p. 71). Public Land. Water level, in feet below land-surface datum, 1944: Dec. 11, 9.52.

(C-34-16)26ccc 2 (*886, p. 827; 910, p. 90; 940, p. 65; 948, p. 70; *990, p. 71). Public Land. Water level, in feet below land-surface datum, 1944: Dec. 11, 10.97.

(C-34-16)27bcc 2 (*840, p. 572; *940, p. 65; 948, p. 70; *990, p. 71). Public Land. Water level, in feet below land-surface datum, 1944: Dec. 11, 10.27.

(C-34-16)28bcc 2 (*817, p. 428; *840, p. 572; 845, p. 597; 886, p. 828; 910, p. 90; 940, p. 65; 948, p. 70; *990, p. 72). Fred Fisher.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 7	10.61	May 25	10.06	Aug. 28	10.67	Nov. 25	10.75
26	10.54	June 25	10.15	Sept. 25	10.83	Dec. 11	10.70
Mar. 25	10.37	July 27	10.41	Oct. 25	10.83	26	10.75
Apr. 26	10.17						

(C-34-16)30adb 1 (*840, p. 573; 886, p. 828; 910, p. 90; *940, p. 65; 948, p. 70; *990, p. 72). D. F. Shelley. Water level, in feet below land-surface datum, 1944: Dec. 11, 8.53.

(C-34-16)30ddc 2 (*840, p. 573; 886, p. 828; 910, p. 90; 940, p. 65; 948, p. 71; *990, p. 72). State claim 11721. Iron County. Water level, in feet below land-surface datum, 1944: Dec. 11, 10.52.

(C-34-16)31bcc 3 (*840, p. 573; 845, p. 597; 886, p. 828; 910, p. 91; 940, p. 65; 948, p. 71; *990, p. 72). S. B. Endicott. Water level, in feet below land-surface datum, 1944: Dec. 11, 15.05.

(C-34-16)33cdc 2 (*886, p. 828; 910, p. 91; 940, p. 65; 948, p. 71; *990, p. 72). State of Utah. Water level, in feet below land-surface datum, 1944: Dec. 11, 12.49.

(C-34-16)34bcc 2 (*840, p. 573; *940, p. 66; 948, p. 71; *990, p. 72). K. L. McGarry. Water level, in feet below land-surface datum, 1944: Dec. 11, 11.09.

(C-34-17)1dab 1 (*840, p. 573; 845, p. 597; 886, p. 828; 910, p. 91; 940, p. 66; 948, p. 71; 990, p. 72). Freda Spooner. Water level, in feet below land-surface datum, 1944: Dec. 10, 22.20.

(C-34-17)9ddd 1 (*840, p. 574; 845, p. 598; 886, p. 829; 910, p. 91; 940, p. 66; 948, p. 71; *990, p. 72). William Haigh. Water level, in feet below land-surface datum, 1944: Dec. 10, 30.61.

(C-34-17)10bbc 1 (*886, p. 828; 910, p. 91; *940, p. 66; 948, p. 71; *990, p. 72). W. B. Proud. Water level, in feet below land-surface datum, 1944: Dec. 10, 32.62.

(C-34-17)24cbb 1 (*840, p. 574; 845, p. 598; 886, p. 829; *910, p. 91; 940, p. 66; 948, p. 71; *990, p. 73). State claim 6835. Marvin Hughes. Water level, in feet below land-surface datum, 1944: Dec. 11, 15.42.

(C-34-18)23bbc 1 (*940, p. 66; 948, p. 71; *990, p. 73). H. A. Thorley. Water level, in feet below land-surface datum, 1944: Dec. 10, 116.22.

(C-35-12)18ddd 2 (*817, p. 433; 840, p. 579; *845, p. 607; *886, p. 829; *910, p. 91; 940, p. 66; 948, p. 72; *990, p. 73). State claim 11258. Columbia Steel Co. Water level, in feet below land-surface datum, 1944: Nov. 27, 12.90.

(C-35-13)4aaa 1 (*940, p. 66; 948, p. 72; *990, p. 73). Iron County. No measurements made in 1944.

(C-35-15)3dcc 1 (*817, p. 434; *840, p. 579; 845, p. 608; 886, p. 829; *910, p. 91; 940, p. 66; 948, p. 72; 990, p. 73). State claim 3790. C. G. Clarke. Water level, in feet below land-surface datum, 1944: Dec. 9, 15.18.

(C-35-15)3dcc 2 (*840, p. 579; 845, p. 608; 886, p. 829; *910, 91; *940, p. 67; 948, p. 72; 990, p. 73). State claim 3788. C. G. Clarke. Water level, in feet below land-surface datum, 1944: Dec. 8, 14.61.

(C-35-15)4dcc 2 (*840, p. 579; *886, p. 829; 910, p. 91; 940, p. 67; 948, p. 72; *990, p. 73). Iron County. Water level, in feet below land-surface datum, 1944: Dec. 9, 13.71.

(C-35-15)6cdd 1 (*817, p. 434; *840, p. 579; 845, p. 608; 886, p. 829; 910, p. 91; 940, p. 67; 948, p. 72; *990, p. 73). Frank Bridel. Water level, in feet below land-surface datum, 1944: Dec. 9, 13.59.

(C-35-15)10bdc 2 (*817, p. 434; 840, p. 580; 845, p. 609; 886, p. 829; *910, p. 91; 940, p. 67; 948, p. 72; *990, p. 73). State application 12134. Walter Martini. Water level, in feet below land-surface datum, 1944: Dec. 9, 16.50.

(C-35-15)11bbb 1 (*840, p. 580; *886, p. 830; 910, p. 91; 940, p. 67; 948, p. 72; *990, p. 74). Marvel Del Vecchio. Water level, in feet below land-surface datum, 1944: Dec. 9, 17.04.

(C-35-15)20bcd 1 (*840, p. 580; *886, p. 830; 910, p. 91; 940, p. 67; 948, p. 72; 990, p. 74). Public Land. Measurements discontinued after Dec. 13, 1943.

(C-35-15)30acc 2 (*817, p. 434; 840, p. 580; 845, p. 609; 886, p. 830; 910, p. 92; 940, p. 67; 948, p. 72; *990, p. 74). Hugh Ash. Water level, in feet below land-surface datum, 1944: Dec. 9, 27.72.

(C-35-16)3bcd 1 (*840, p. 580; 845, p. 609; 886, p. 830; *910, p. 92; *940, p. 67; 948, p. 72; *990, p. 74). State claim 3792. C. G. Clarke. Water level, in feet below land-surface datum, 1944: Dec. 11, 16.10.

(C-35-16)5add 1 (*940, p. 67; 948, p. 73; *990, p. 74). Lawrence Hurt. Water level, in feet below land-surface datum, 1944: Dec. 11, 14.04.

(C-35-16)7bbb 1 (*840, p. 581; 845, p. 610; 886, p. 830; *910, p. 92; 940, p. 67; 948, p. 73; 990, p. 74). State claim 13661. H. L. Austin. Water level, in feet below land-surface datum, 1944: Dec. 11, 21.22.

(C-35-16)10bda 1 (*840, p. 582; 886, p. 830; *910, p. 92; *940, p. 67; 948, p. 73; *990, p. 74). State claim 13760. C. G. Clarke. Measurements discontinued after Mar. 17, 1943.

(C-35-16)15abc 1 (*840, p. 582; 845, p. 610; 886, p. 830; 910, p. 92; 940, p. 67; 948, p. 73; 990, p. 74). J. E. Harris. Water level, in feet below land-surface datum, 1944: Dec. 11, 19.19.

(C-35-16)17bba 1 (*940, p. 68; 948, p. 73; *990, p. 74). Public Land. Water level, in feet below land-surface datum, 1944: Dec. 11, 15.08.

(C-35-16)18cdc 4 (*840, p. 583; 886, p. 830; *910, p. 92; *940, p. 68; 948, p. 73; *990, p. 75). J. C. Bosshardt. Water level, in feet below land-surface datum, 1944: Dec. 11, 21.90.

(C-35-16)20cdd 2 (*840, p. 583; *940, p. 68; 948, p. 73; *990, p. 75) Eva Hard. Water level, in feet below land-surface datum, 1944: Dec. 11, 20.80.

(C-35-16)22add 1 (*840, p. 583; 845, p. 611; 886, p. 831; *910, p. 92; 940, p. 68; 948, p. 73; *990, p. 75). State claim 10337. C. and S. Inatomi. Water level, in feet below land-surface datum, 1944: Dec. 11, 22.73.

(C-35-17)1bcc 1 (*840, p. 584; *886, p. 831; 910, p. 92; *940, p. 68; 948, p. 74; *990, p. 75). Robert Pershall. Measurements discontinued after Mar. 17, 1943.

(C-35-17)3bbb 1 (*817, p. 434; *840, p. 584; 845, p. 611; 886, p. 831; *910, p. 92; *940, p. 68; 948, p. 74; *990, p. 75). State claim 8432. L. E. and H. M. Sevy. Water level, in feet below land-surface datum, 1944: Dec. 10, 45.87.

(C-35-17)8cbb 1 (*840, p. 584; 845, p. 611; *940, p. 68; 948, p. 74; *990, p. 75). W. W. Adams. Water level, in feet below land-surface datum, 1944: Dec. 10, 85.15.

(C-35-17)13acc 1 (*940, p. 68; 948, p. 74; *990, p. 75). Parley Moyle. Water level, in feet below land-surface datum, 1944: Dec. 11, 25.49.

(C-35-17)25cdd 1 (*817, p. 434; *840, p. 585; 845, p. 612; 886, p. 831; 910, p. 93; 940, p. 69; 948, p. 74; *990, p. 75). Henry Brenn. Water level, in feet below land-surface datum, 1944: Dec. 10, 35.86.

(C-36-15)8bba 1 (*940, p. 69; 948, p. 74; *990, p. 75). R. F. Jones. Water level, in feet below land-surface datum, 1944: Dec. 8, 85.03.

(C-36-15)20bac 1 (*940, p. 69; 948, p. 74; *990, p. 75). A. C. Christensen. Water level, in feet below land-surface datum, 1944: Dec. 8, 116.39.

(C-36-16)5a 2 (*940, p. 69; 948, p. 74; *990, p. 76). Public Land. Water level, in feet below land-surface datum, 1944: Dec. 8, 46.97.

(C-36-16)5a 4 (*840, p. 588; *845, p. 616; *886, p. 831; 910, p. 93; *940, p. 69; 948, p. 75; *990, p. 76). State claim 8431. Bryant Beacham. Measurements discontinued after Mar. 17, 1943.

(C-36-16)3ddd 1 (*940, p. 69; 948, p. 75; 990, p. 76). J. A. Eldredge. Water level, in feet below land-surface datum, 1944: Dec. 8, 55.90.

(C-36-16)16dda 1 (*840, p. 588; 845, p. 616; 886, p. 832; 910, p. 93; 940, p. 69; 948, p. 75; *990, p. 76). C. J. Erickson. Water level, in feet below land-surface datum, 1944: Dec. 8, 56.91.

(C-36-16)19caa 1 (*940, p. 69; 948, p. 75). J. A. Eldredge. Water level, in feet below land-surface datum, 1944: Dec. 8, 79.56.

(C-36-16)31bdd 1 (*940, p. 69; 948, p. 75; *990, p. 76). W. H. Leigh. Water level, in feet below land-surface datum, 1944: Dec. 8, 100.29.

(C-36-17)11dcc 1 (*940, p. 70; 948, p. 75; 990, p. 76). Public Land. Water level, in feet below land-surface datum, 1944: Dec. 10, 119.31.

Iron County - Parowan Valley

Buckhorn District

(C-32-8)1ada 1 (*886, p. 832; 910, p. 93; 940, p. 70; 948, p. 75; *990, p. 76). Iron County. Water levels, in feet below land-surface datum, 1944: Mar. 12, 48.35; Dec. 6, 48.47.

(C-32-8)35bcb 1 (*817, p. 424; *840, p. 565; 845, p. 584; *886, p. 832; *910, p. 94; 940, p. 70; 948, p. 75; *990, p. 76). State claim 5683. H. N. Edwards. Water levels, in feet above land-surface datum, 1944: Mar. 12, 10.0; Dec. 6, 7.4, well flowing prior to measurement.

Iron County - Parowan Valley

Little Salt Lake District

(C-33-9)1dad 2 (*845, p. 586; *886, p. 834; *910, p. 98; 940, p. 70; 948, p. 75; *990, p. 76). State claim 4743. Henry Mitchell Estate. Water levels, in feet above land-surface datum, 1944: Mar. 13, 14.8; Dec. 6, 14.8.

(C-33-9)14ccc 1 (*845, p. 586; *886, p. 835; *910, p. 99; 940, p. 70; 948, p. 76; *990, p. 77). State claim 6489. W. M. Eyre Estate. Water level, in feet above land-surface datum, 1944: Dec. 6, 17.3.

(C-33-9)28abd 1 (*845, p. 587; *886, p. 836; *910, p. 101; 940, p. 71; 948, p. 76; *990, p. 77). State claim 17259. John Dolorinski. Water levels, in feet above land-surface datum, 1944: Mar. 13, 6.10; Dec. 6, 3.13, well flowing prior to measurement.

(C-33-9)32ccd 2 (*845, p. 587; *886, p. 836; 910, p. 101; 940, p. 71; 948, p. 76; *990, p. 77). State claim 17335. Alfrd Wilcox. Water levels, in feet above land-surface datum, 1944: Mar. 13, 10.8; Dec. 6, 2.85, well flowing prior to measurement.

(C-33-9)34cbd 2 (*817, p. 425; *840, p. 566; *845, p. 588; *886, p. 836; *910, p. 103; 940, p. 71; 948, p. 76; *990, p. 77). State claim 5694. Mary Marsden. Water levels, in feet below land-surface datum, 1944: Mar. 13, 18.90; Dec. 6, 26.56.

(C-34-9)6bcd 1 (*845, p. 593; *886, p. 840; *910, p. 106; 940, p. 71; 948, p. 77; *990, p. 78). State claim 13506. R. D. Hyatt. Water level, in feet below land-surface datum, 1944: Dec. 6, 6.20.

(C-34-9)8bdd 1 (*910, p. 107; 940, p. 71; 948, p. 77; *990, p. 78). State claim 4868. P. H. Gurr. Water levels, in feet below land-surface datum, 1944: Mar. 13, 21.59; Dec. 6, 21.00.

Iron County - Parowan Valley

Paragonah District

(C-33-8)15bba 1 (*948, p. 75; *990, p. 76). State claim 18229. R. W. Talbot. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 6, 1.35.

(C-33-8)15bbd 1 (*910, p. 95; 940, p. 70; 948, p. 75; *990, p. 76). State claim 18610. Walter Talbot. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 6, 6.2.

(C-33-8)28bbb 1 (*910, p. 96; 940, p. 70; 948, p. 75; *990, p. 76). State claim 15133. State of Utah. Water levels, in feet below land-surface datum, 1944: Mar. 13, 11.63; Dec. 6, 11.54.

(C-34-8)5bca 1 (*817, p. 426; 840, p. 569; 845, p. 591; 886, p. 838; *910, p. 104; 940, p. 71; 948, p. 77; *990, p. 77). Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Mar. 13, 18.90; Dec. 6, 20.18.

Iron County - Parowan Valley

Parowan District

(C-33-9)24aba 1 (*845, p. 586; *886, p. 835; *910, p. 99; 940, p. 70; 948, p. 76; *990, p. 77). State claim 10202. A. J. Decker. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 13, 11.3; Dec. 6, 9.2.

(C-33-9)34dcd 1 (*817, p. 425; *840, p. 566; *845, p. 588; 886, p. 837; *910, p. 103; 940, p. 71; 948, p. 76; 990, p. 77). State claim 6750 and State application 1426. Federal Land Bank. Water levels, in feet below land-surface datum, 1944: Mar. 13, 1.88; Dec. 6, 5.41.

(C-33-9)34ddd 1 (*910, p. 103; 940, p. 71; 948, p. 76; 990, p. 77). State claim 13496. J. B. Dalton. Water levels, in feet below land-surface datum, 1944: Mar. 13, 20.47; Dec. 6, 22.80.

(C-33-9)35ddd 1 (*840, p. 567; 845, p. 589; *886, p. 837; *910, p. 104; 940, p. 71; 948, p. 77; 990, p. 77). State claim 13812. State of Utah. Water levels, in feet below land-surface datum, 1944: Mar. 13, 34.34; Dec. 6, 36.41.

(C-33-9)36dcd 1 (*777, p. 243; *817, p. 425; *840, p. 567; 845, p. 589; *886, p. 838; 910, p. 104; 940, p. 71; 948, p. 77; 990, p. 77). State claim 494. H. L. Adams. Water levels, in feet below land-surface datum, 1944: Mar. 13, 34.93; Dec. 6, 39.05.

(C-34-9)10bdd 1 (*840, p. 570; 845, p. 593; *886, p. 841; *910, p. 108; *940, p. 71; 948, p. 77; 990, p. 78). State claim 8801. Federal Land Bank. Water levels, in feet below land-surface datum, 1944: Mar. 13, 49.43; Dec. 6, 56.98.

(C-34-9)16cdd 1 (*845, p. 594; *886, p. 841; *910, p. 108; 940, p. 72; 948, p. 77; *990, p. 78). State claim 5818. Federal Land Bank. Water levels, in feet below land-surface datum, 1944: Mar. 13, 23.96; Dec. 6, 26.87.

Iron County - Parowan Valley

Summit District

(C-34-10)24abc 1 (*886, p. 841; 910, p. 109; 940, p. 72; 948, p. 77; *990, p. 78). State application 12115. R. J. Green. Water level, in feet below land-surface datum, 1944: Dec. 6, 52.52.

(C-15-1)4ddd 1 (*845, p. 619; 886, p. 843; 910, p. 110; *940, p. 72; 948, p. 78; *990, p. 78). C. H. Johnson. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 20, 4.02; Dec. 2, 4.32.

(C-15-1)4ddd 2 (*845, p. 619; 886, p. 842; 910, p. 110; *940, p. 72; 948, p. 78; *990, p. 78). C. H. Johnson. Measurements discontinued after Dec. 18, 1943.

(C-15-1)11bab 1 (*845, p. 619; 886, p. 842; *910, p. 110; 940, p. 72; 948, p. 78; 990, p. 78). State claim 3120. Mrs. Nicholine Powell. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 2, 2.85.

(C-15-1)12aba 1 (*817, p. 406; *840, p. 549; 845, p. 619; 886, p. 842; *910, p. 110; 940, p. 72; 948, p. 78; *990, p. 78). State claim 10223. R. C. Mangelson. Water levels, in feet below land-surface datum, 1944: Mar. 20, 52.63; Dec. 2, 51.68.

Juab County - Juab Valley

(C-12-1)36dca 1 (*817, p. 405; *840, p. 549; 845, p. 618; 886, p. 843; *910, p. 109; 940, p. 72; 948, p. 78; *990, p. 78). State claim 2227. Orson Cazier. Water levels, in feet below land-surface datum, 1944: Mar. 20, 18.60; Dec. 2, 18.54.

(D-11-1)9bbb 4 (*817, p. 453; *840, p. 606; *845, p. 619; 886, p. 842; *910, p. 110; 940, p. 72; 948, p. 78; *990, p. 78). State claim 3099. J. L. and H. J. Fowkes. Water levels, in feet above land-surface datum, 1944: Mar. 20, 9.6; Dec. 2, 12.8.

(D-11-1)31abc 1 (*817, p. 464; 840, p. 606; 845, p. 619; 886, p. 842; 940, p. 72; 948, p. 78; *990, p. 78). Loren Keyte. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 20, 1.15; Dec. 2, 2.78.

(D-12-1)19cdc 1 (*817, p. 464; *840, p. 606; 845, p. 619; 886, p. 842; *910, p. 110; 940, p. 72; 948, p. 78; *990, p. 77). State claim 4397. P. P. Christenson. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 2, 18.6.

(D-13-1)6cbc 1 (*817, p. 464; *840, p. 606; 845, p. 619; 886, p. 842; *910, p. 110; 940, p. 72; 948, p. 78; *990, p. 79). State claim 8188. Nephi Irrigation Co. Water levels, in feet below land-surface datum, 1944: Mar. 20, 22.61; Dec. 2, 21.96.

(D-14-1)6baa 1 (*817, p. 464; 840, p. 607; 845, p. 619; 886, p. 842; 910, p. 110; *940, p. 72; 948, p. 78; *990, p. 79). State claim 2730. C. H. Garrett. Water levels, in feet below land-surface datum, 1944: Mar. 20, 190.94; Dec. 2, 190.80.

Juab County - Snake Valley 10/

(C-11-15)30c (*886, p. 843; *910, p. 109; 940, p. 73; 948, p. 78). Grazing Service, U. S. Dept. of Interior. Measurements discontinued after Sept. 30, 1942.

10/ For other wells in this valley see pages 102-103.

(C-11-16)6ccc (*845, p. 618; 886, p. 843; 910, p. 109; 940, p. 73; 948, p. 78; *990, p. 79). J. H. Guilmette. Water level, in feet below land-surface datum, 1944: Oct. 3, 18.26.

(C-11-17)1bdc 1 (*845, p. 618; 886, p. 843; *910, p. 109; 940, p. 73; 948, p. 78; *990, p. 79). State claim 8190. Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Oct. 3, 0.25.

(C-13-18)13d (*845, p. 618; 886, p. 843; 910, p. 109; 940, p. 73; 948, p. 78; *990, p. 79). David Howells. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Oct. 3, 6.9. Measurements discontinued.

(C-13-18)14dcc 1 (*845, p. 618; 886, p. 843; 910, p. 110; *940, p. 73; 948, p. 79; *990, p. 79). Will Parker. Water level, in feet below land-surface datum, 1944: Oct. 3, 14.60.

(C-13-18)23aab 2 (*886, p. 843; 910, p. 110; 940, p. 73; 948, p. 79; *990, p. 79). Charles Nielson. Water level, in feet below land-surface datum, 1944: Oct. 3, 5.67.

(C-14-18)3 (*845, p. 619; *886, p. 843; *910, p. 110; 940, p. 73; 948, p. 79). State application 12809. Public land. Water level, in feet above land-surface datum, 1944: Oct. 3, 5.1.

Millard County - Escalante Valley 11/

(C-24-10)22aca 1 (*940, p. 73; 948, p. 79; *990, p. 79). Grazing Service, U. S. Dept. of Interior. Water level, in feet below land-surface datum, 1944: Nov. 24, 16.00

(C-24-10)22acb 1 (*940, p. 73; 948, p. 79; *990, p. 79). Grazing Service, U. S. Dept. of Interior. Water level, in feet below land-surface datum, 1944: Nov. 24, 14.09.

(C-25-9)20abd 1 (*940, p. 73; 948, p. 79; *990, p. 79). Walter James and E. C. Lewis. Water level, in feet below land-surface datum, 1944: Nov. 24, 82.83.

(C-25-9)29cca 1 (*940, p. 73; 948, p. 79; *990, p. 79). Ferdinand Erickson. Water level, in feet below land-surface datum, 1944: Nov. 24, 61.30.

(C-25-10)9dba 1 (*940, p. 73; 948, p. 79; 990, p. 80). E. C. Hiltbrand. Water level, in feet below land-surface datum, 1944: Nov. 24, 56.24.

(C-25-10)26caa 1 (*940, p. 73; 948, p. 79; *990, p. 80). State of Utah. Water level, in feet below land-surface datum, 1944: Nov. 24, 17.37.

Millard County - North Pavant Valley

(C-18-5)28acc 1 (*817, p. 409; 840, p. 551; 845, p. 622; 886, p. 845; 910, p. 112; 940, p. 74; 948, p. 79; *990, p. 80). State claim 16404. Lawrence Clark. Water levels, in feet below land-surface datum, 1944: Mar. 9, 32.37; May 26, 31.99; Nov. 23, 30.44.

(C-19-4)31bcc 1 (*817, p. 410; *840, p. 552; 845, p. 622; 886, p. 845; *910, p. 112; *940, p. 74; 948, p. 79; *990, p. 80). State claim 4263. Union Pacific Railroad. Water levels, in feet below land-surface datum, 1944: Mar. 9, 12.33; May 26, 11.07; July 28, 10.52; Nov. 16, 10.43.

(C-19-5)4dda 1 (*817, p. 410; *840, p. 552; 845, p. 622; 886, p. 845; *910, p. 112; 940, p. 74; 948, p. 79; *990, p. 80). State claim 16405. Lawrence Clark. Water levels, in feet below land-surface datum, 1944: Mar. 9, 29.99; May 26, 29.80; July 28, 29.45; Nov. 16, 28.84.

11/ For other wells in this valley see pages 61-67, 83-88, 137-138.

(C-20-5)13dad 1 (*840, p. 552; 845, p. 622; 886, p. 846; 910, p. 112; 940, p. 74; 948, p. 80; *990, p. 80). C. H. Day.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Mar. 9	44.56	July 28	42.42	Nov. 16	42.62
May 26	44.90	Sept.21	42.27		

(C-20-5)22bcc 1 (*817, p. 411; *840, p. 552; 845, p. 622; *886, p. 846; *910, p. 112; *940, p. 74; 948, p. 80; 990, p. 80). State claim 7671. Arnold Lesin.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 9	8.4	June 15	8.3	Sept.21	9.0	Nov. 16	9.2
May 26	8.7	July 24	9.1	Oct. 7	9.3		

(C-20-5)32aaa 1 (*990, p. 80). State claim 6620. Otis Walch. Measurements discontinued after Dec. 15, 1943.

(C-21-5)4ccd 1 (*990, p. 82). State claim 16536. A. R. Beaurgard.

Water level, in feet below land-surface datum, 1944

Mar. 9	24.24	June 15	24.60	Sept.21	23.64	Nov. 17	23.21
May 26	24.83	July 24	24.22	Oct. 7	23.65		

Millard County - South Pavant Valley

Fillmore District

(C-21-4)7bbd 1 (*990, p. 81). State claim 17867. Arthur Brunson.

Water level, in feet below land-surface datum, 1944

Mar. 10	64.97	Juno 15	32.98	Sept.21	43.54	Nov. 14	43.90
May 24	55.28	July 24	34.56	Oct. 7	44.64		

(C-21-4)7cba 1 (*990, p. 81). Frank Partridge.

Water level, in feet below land-surface datum, 1944

Mar. 10	70.45	June 15	40.62	Sept.21	45.37	Nov. 14	48.38
May 24	54.40	July 24	38.71	Oct. 7	46.76		

(C-21-4)9bbd 1 (*886, p. 846; 910, p. 113; 940, p. 74; 948, p. 80; *990, p. 81). John Carling. Well was evidently silted up prior to beginning of record in July 1939, and measurements are believed to be valueless. Measurements discontinued.

(C-21-5)12bad 1 (*990, p. 83). State claim 18478. T. C. Hatton.

Water level, in feet below land-surface datum, 1944

Mar. 10	88.50	June 15	86.49	Sept.21	72.18	Nov. 14	73.22
May 24	89.53	July 24	75.32	Oct. 7	72.46		

Millard County - South Pavant Valley

Flowell District

(C-21-5)5cbc 1 (*990, p. 82). State claim 7679. A. and E. Rogers.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 9	16.0	June 15	12.1	Sept.21	11.2	Nov. 17	15.3
May 26	12.4	July 24	10.9	Oct. 7	11.7	22	15.3

(C-21-5)6dba 1 (*990, p. 82). State claim 11967. D. V. Dimmick.

Water level, in feet above land-surface datum, 1944

Mar. 9	17.9	June 15	17.5	Sept.21	16.5	Nov. 17	17.8
May 26	17.4	July 24	16.4	Oct. 7	16.4	22	18.1

(C-21-5)8cab 1 (*990, p. 82). State claim 15622. Melvin Robinson.

Water level, in feet below land-surface datum, 1944

Mar. 9	0.30	July 24	4.34	Oct. 7	4.41	Nov. 21	0.90
May 26	3.63	Sept.21	3.59	Nov. 17	1.09	22	.80
June 15	3.87						

(C-21-5)8ccc 1 (*990, p. 82). Wells Johnson. Well flowing prior to measurements.

Water level, in feet above land-surface datum, 1944

Mar. 10	8.62	July 24	4.55	Oct. 8	4.32	Nov. 21	7.57
May 24	5.34	Sept.21	4.17	Nov. 17	7.42	22	9.15
June 21	4.94						

(C-21-5)8dbb 1 (*990, p. 82). Edward Nelson.

Water level, in feet below land-surface datum, 1944

Mar. 9	14.57	June 15	17.46	Oct. 7	18.25	Nov. 21	15.01
May 26	16.23	Sept.21	18.0	Nov. 17	15.21	22	14.92

(C-21-5))9cdc 1 (*990, p. 83). State claim 6221. John Carling. Well flowing prior to measurements.

Water level, in feet below land-surface datum, 1944

Mar. 9	4.49	July 24	8.55	Oct. 7	10.65	Nov. 21	3.26
May 26	10.71	Sept.21	11.11	Nov. 14	3.62	22	3.38

(C-21-5)15dbb 1 (*990, p. 83). Martin Hansen.

Water level, in feet below land-surface datum, 1944

Mar. 9	46.09	June 15	44.58	Sept.21	44.14	Nov. 14	42.06
May 26	46.10	July 24	44.26	Oct. 7	44.01		

(C-21-5)16ada 1 (*990, p. 83). State claim 17224. Frank Holbrook.

Water level, in feet below land-surface datum, 1944

Mar. 9	35.94	Jupe 15	26.74	Sept.21	32.85	Nov. 14	32.43
May 26	29.18	July 24	29.45	Oct. 7	33.17		

(C-21-5)16bcc 2 (*990, p. 83). State claim 15150. State Land Board. Water levels, in feet above land-surface datum, 1944: Mar. 9, 17.3; May 24, 2.03; Nov. 14, 15.9. Measurements discontinued.

(C-21-5)17bdd 1 (*990, p. 83). State claims 11209, 8813, 4716. D. A. Brinkerhoff. Water levels, in feet above land-surface datum, 1944: Mar. 10, 37.1; Nov. 17, 38.2. Measurements discontinued.

(C-21-5)18dad 2 (*990, p. 84). State claim 7673. Walter Brinkerhoff. Water levels, in feet above land-surface datum, 1944: Nov. 20, 30.0; Nov. 21, 30.3; Nov. 22, 29.9. Measurements discontinued.

(C-21-5)19ada 1 (*990, p. 84). State claim 13525. A. Huntsman. Water levels, in feet above land-surface datum, 1944: Mar. 10, 29.0; May 24, 10.5; Nov. 16, 27.3. Measurements discontinued.

(C-21-5)20cbd 1 (*990, p. 84). State claim 1378. F. M. Christensen. Water levels, in feet above land-surface datum, 1944: Mar. 10, 36.2; Nov. 16, 37.4. Measurements discontinued.

(C-21-5)20dda 1 (*990, p. 84). State claim 3808. Oren Allen. Water level, in feet above land-surface datum, 1944: Mar. 10, 26.1. Measurements discontinued.

(C-21-5)21aba 1 (*777, p. 241; *817, p. 412; 840, p. 554; 845, p. 623; 886, p. 847; 910, p. 113; 940, p. 74; 948, p. 80; *990, p. 85). State of Utah.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	10.85	10.01	9.62	9.61	16.24	18.10	17.63	17.35	.....	15.89	10.66	7.15
2	10.76	10.07	9.61	11.15	16.28	18.11	17.70	17.34	.....	15.88	10.62	7.07
3	10.77	9.97	9.58	10.72	16.44	18.13	17.74	17.37	.....	15.78	10.42	7.08
4	10.87	9.97	9.62	12.32	16.54	18.20	17.69	17.34	16.82	15.71	10.30	7.09
5	10.70	10.01	9.61	13.15	16.56	18.20	.....	.....	16.82	15.61	10.25	7.02
6	10.81	10.00	9.64	13.52	16.71	18.02	.....	.....	16.90	.....	10.18	....
7	.....	9.89	9.70	13.50	16.98	17.98	17.68	.....	16.92	15.54	.....	....
8	10.71	.....	9.75	13.51	17.04	17.87	17.68	.....	16.92	15.35	.....	6.85
9	10.64	.....	9.69	13.70	17.17	.....	17.63	.....	16.91	15.27	.....	6.88
10	10.59	.....	9.60	13.85	17.15	.....	17.58	16.70	16.89	15.21	.....	6.84
11	10.67	.....	9.58	14.12	17.15	17.80	17.66	16.68	.....	15.15	.....	6.75
12	10.70	.....	9.52	14.50	17.19	17.81	17.65	16.66	.....	14.96	.....	6.73
13	10.40	.....	9.45	14.83	17.26	17.79	17.63	16.59	17.76	14.47	.....	6.77
14	10.25	9.83	9.51	14.96	17.39	17.82	.....	16.60	17.75	14.33	.....	6.59
15	10.26	9.80	9.61	15.18	17.54	17.80	.....	16.76	17.86	.....	8.55	6.53
16	10.30	9.79	9.57	15.23	17.59	17.82	.....	16.75	17.78	.....	8.47	6.49
17	10.28	9.66	9.45	15.34	17.81	17.93	17.61	16.61	17.59	12.85	8.41	6.47
18	10.33	9.78	....	15.41	17.84	17.81	17.61	16.54	17.61	12.53	8.34	6.47
19	10.28	9.75	....	15.54	17.86	17.79	17.60	16.52	17.61	12.41	8.27	6.41
20	10.18	10.02	....	15.74	17.87	17.80	17.58	16.52	17.64	12.09	8.20	6.37
21	10.16	10.07	....	15.93	17.87	17.86	17.57	16.50	17.71	11.87	8.05	6.40
22	10.15	9.63	9.65	15.89	17.77	17.90	17.54	16.60	17.63	11.80	8.34	6.33
23	10.02	9.66	9.56	16.00	.....	17.88	17.52	16.80	17.59	11.70	8.17	6.45
24	.....	9.64	9.47	16.00	17.89	17.90	17.40	16.82	17.17	11.46	7.76	6.47
25	.....	9.59	9.45	.....	17.92	17.81	17.42	16.90	17.22	11.36	7.71	6.50
26	.....	9.64	9.54	16.20	17.97	17.71	17.39	17.01	16.24	11.29	7.58	6.45
27	.....	9.61	9.53	16.11	18.09	17.82	17.40	17.01	.....	11.21	7.50	6.43
28	.....	9.64	9.53	16.16	18.11	17.71	17.38	16.95	.....	11.14	7.51	6.33
29	.....	9.63	9.49	16.22	18.10	17.74	17.39	16.91	15.98	.....	7.38	6.36
30	.....	.....	9.47	16.33	18.08	.....	17.36	16.80	15.94	10.91	7.24	6.39
31	10.00	.....	9.49	.....	18.15	.....	17.36	16.78	.....	10.73	.....	....

(C-21-5)22bbb 1 (*990, p. 85). State claim 17508. Francis Melville.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 9	39.57	June 21	23.87	Sept. 21	32.15	Nov. 14	33.96
May 24	34.02	July 24	27.95	Oct. 7	32.94		

(C-21-5)22dbc 1 (*990, p. 85). Edward Davies, Jr.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Mar. 10	49.56	July 28	46.66	Oct. 8	49.97
June 21	40.75	Sept.21	49.62	Nov. 15	49.17

(C-21-5)27aaa 1 (*990, p. 85). O. L. Robinson.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 10	88.56	June 21	93.32	Sept.21	92.36	Nov. 15	88.12
May 25	93.36	July 28	93.06	Oct. 8	91.85		

(C-21-5)27ccc 1 (*990, p. 85). State claim 13529. A. E. Robinson.

Water level, in feet below land-surface datum, 1944

Mar. 10	14.93	June 21	21.18	Sept.21	20.72	Nov. 15	14.98
May 25	21.07	July 28	21.08	Oct. 8	19.82		

(C-21-5)29aba 1 (*990, p. 86). State claim 14346. Flowell Farms, Inc. Water levels, in feet above land-surface datum, 1944: Mar. 10, 34.2; Nov. 16, 34.0. Measurements discontinued.

(C-21-5)29dca 1 (*990, p. 86). State claim 14347. Flowell Farms, Inc. Water levels, in feet above land-surface datum, 1944: May 25, 24.8; well flowing prior to measurement; Nov. 16, 33.3. Measurements discontinued.

(C-21-5)31cda 1 (*990, p. 86). State claim 6235. Samuel Utley. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: May 25, 14.9. Measurements discontinued.

(C-21-5)32bcd 1 (990, p. 87). State claim 3300. Flowell Farms, Inc. Water level, in feet above land-surface datum, 1944: Nov. 15, 35.7. Measurements discontinued.

(C-21-5)33dcc 1 (*817, p. 412; 840, p. 555; 845, p. 624; *886, p. 848; *910, p. 113; *940, p. 75; 948, p. 81; *990, p. 87). State claims 71, 6337, and 7831. Andrew Dahlquist.

Water level, in feet below land-surface datum, 1944

Mar. 10	0.80	June 20	7.95	Sept.20	6.89	Nov. 15	0.80
May 25	6.84	July 24	6.76	Oct. 8	7.20		

(C-21-5)34baa 1 (*990, p. 87). State claim 17381. Frank Sweeting.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.70	37.93	.....	.....	.....	43.11	43.18	43.04	.....	42.59	39.19	36.70
2	38.61	37.96	.....	38.41	.....	43.13	43.17	43.04	.....	42.57	39.12	36.62
3	38.62	37.86	.....	38.39	42.00	43.24	43.20	.....	43.00	42.33	38.99	36.62
4	38.72	37.87	.....	38.58	42.05	43.29	43.18	.....	43.02	42.24	38.83	36.64
5	38.58	37.91	.....	38.94	42.00	43.29	.....	.....	42.99	42.18	38.74	36.54
6	38.54	37.87	.....	39.16	42.01	43.13	.....	.....	43.05	.....	38.65	.....
7	.....	37.77	37.87	39.18	42.10	43.20	43.16	.....	43.08	.....	.....	.....
8	38.50	.....	37.82	39.34	42.20	43.10	43.16	.....	43.09	.....	38.37	36.33
9	38.45	.....	37.77	39.63	42.27	.....	43.18	.....	42.99	42.13	38.31	36.35
10	38.39	.....	37.68	39.80	.....	.....	43.18	43.03	42.96	42.10	38.19	36.34
11	38.48	.....	37.67	39.90	.....	.....	43.20	43.00	.....	42.04	38.07	36.27
12	38.50	.....	37.60	40.22	.....	43.20	43.20	42.96	.....	41.93	37.89	36.24
13	38.44	.....	37.55	40.31	.....	43.17	43.18	42.92	42.80	41.88	37.93	36.22
14	38.36	37.86	37.60	40.55	.....	43.16	.....	42.88	42.78	41.77	37.91	36.10
15	38.37	37.89	37.74	40.67	42.59	43.15	.....	42.91	42.88	.....	37.80	36.02

(C-21-5)34baa 1--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	38.36	37.85	37.72	40.72	42.64	43.16	43.12	42.92	42.83	41.68	37.72	35.95
17	38.41	37.78	37.58	40.95	42.75	43.21	43.12	.....	42.75	41.32	37.66	35.94
18	38.35	37.82	.....	.....	42.80	43.19	43.12	42.82	42.81	41.06	37.56	35.94
19	38.29	37.80	.....	41.13	42.85	43.22	43.11	42.81	42.80	40.91	37.54	35.84
20	38.27	37.84	.....	41.14	42.90	43.19	43.10	42.82	.....	40.64	37.52	35.78
21	38.25	37.80	.....	41.33	42.93	43.20	43.11	42.82	.....	40.48	37.43	35.73
22	.....	.....	37.65	41.49	.....	43.26	43.08	42.80	42.88	40.40	37.41	35.64
23	.....	.....	37.56	41.50	.....	43.26	43.06	42.79	.....	40.23	37.28	35.60
24	.....	.....	37.46	41.50	43.09	43.29	.....	42.79	.....	39.06	37.12	35.61
25	.....	.....	37.41	.....	43.07	43.24	43.08	42.88	.....	38.85	37.17	35.59
26	.....	.....	37.52	.....	43.08	43.22	43.09	42.90	.....	38.71	37.05	35.55
27	.....	.....	37.54	.....	43.08	43.25	43.10	42.89	.....	38.62	36.96	35.45
28	.....	.....	.....	.....	43.09	43.26	43.10	42.87	.....	38.49	37.00	35.39
29	.....	.....	.....	.....	43.10	43.24	43.05	42.88	42.57	.....	36.84	35.43
30	.....	.....	.....	.....	43.10	43.23	43.03	42.91	42.55	.....	36.79	.....
31	37.95	.....	.....	.....	43.09	.....	43.04	42.98	.....	39.27	.....	.....

(C-21-5)34bdd 1 (*817, p. 413; 840, p. 555; *845, p. 624; 886, p. 848; 910, p. 114; 940, p. 75; 948, p. 81; *990, p. 88). Frank Sweeting.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 10	41.11	June 21	45.52	Sept.21	45.58	Nov. 15	41.15
May 25	45.65	July 28	45.56	Oct. 8	45.06		

(C-21-5)34ccc 1 (*990, p. 88). State claims 4723 and 19707. W. H. Ray.

Water level, in feet below land-surface datum, 1944

Mar. 10	21.60	June 20	27.00	Sept.20	27.10	Nov. 15	21.74
May 25	26.91	July 24	26.93	Oct. 8	26.42		

(C-21-5)35bab (*990, p. 88). W. H. Ray. Water levels, in feet below land-surface datum, 1944: Mar. 10, 100.02; May 25; dry at 106.5; Nov. 15, 100.45.

(C-21-5)35cda 1 (*990, p. 88). State claim 13121. C. A. Davies.

Water level, in feet below land-surface datum, 1944

Mar. 10	98.55	June 19	102.50	Sept.20	102.56	Nov. 15	99.42
May 25	102.36	July 24	102.42	Oct. 7	102.27		

(C-21-6)25dab 1 (*990, p. 89). Ras Rasmussen.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.60	.....	11.99	.....	9.55	.....	11.68	.....	13.05	.....	13.15
2	14.59	.....	12.04	.....	9.63	.....	11.71	.....	13.05	.....	13.14
3	14.57	.....	.....	10.43	9.76	.....	11.78	.....	.....	.....	13.20
4	14.57	.....	.....	10.42	9.84	.....	11.82	12.66	.....	.....	13.22
5	14.57	.....	.....	10.37	9.88	.....	.....	12.68	.....	.....	13.23
6	14.56	.....	.....	10.31	9.86	.....	.....	12.69	.....	.....	.....
7	14.56	.....	11.15	10.29	9.82	10.52	.....	12.71	.....	.....	.....
8	.....	.....	11.13	10.23	.....	10.58	.....	12.78	12.97	.....	13.19
9	.....	.....	10.96	.....	.....	10.63	.....	12.78	13.04	.....	13.23
10	.....	.....	10.92	.....	.....	10.69	12.04	12.79	13.04	13.11	13.24
11	.....	13.00	10.91	.....	.....	10.75	12.05	.....	13.02	13.14	13.23
12	.....	12.97	.....	.....	9.82	10.80	12.05	.....	13.01	13.14	13.24

(C-21-6)25dab 1--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
13	.....	13.04	.....	.....	9.81	10.83	12.04	12.83	13.01	13.12	13.25
14	.....	13.08	.....	.....	9.80	.....	12.04	12.85	13.04	13.13	13.20
15	.....	13.14	.....	.....	9.82	.....	12.10	12.92	13.04	13.12	13.19
16	14.53	12.56	.....	.....	9.87	.....	12.12	12.90	13.03	13.18	13.01
17	14.53	11.42	.....	.....	9.90	.....	12.10	12.85	13.04	13.18	13.00
18	14.52	.....	.....	.....	9.90	11.22	12.12	12.91	13.03	.....	13.02
19	14.50	.....	.....	.....	9.85	11.26	12.16	.....	13.03	.....	13.01
20	.....	.....	.....	.....	9.86	11.30	12.22	.....	13.02	.....	.....
21	.....	.....	.....	.....	9.89	11.34	12.24	12.93	13.01	13.18	.....
22	.....	.....	.....	.....	9.99	11.38	12.26	12.99	13.00	13.19	.....
23	.....	.....	.....	.....	10.02	.....	12.27	12.99	13.04	13.13	12.95
24	.....	.....	.....	.....	10.04	.....	12.30	12.97	13.03	13.11	12.97
25	.....	.....	.....	8.95	10.04	11.37	12.36	12.98	13.02	13.19	12.99
26	.....	.....	.....	9.24	.....	11.43	12.40	12.98	13.04	13.18	12.99
27	.....	11.85	10.21	9.30	.....	11.48	12.42	12.98	13.02	13.17	12.99
28	.....	11.93	10.30	8.88	.....	11.51	12.43	13.00	13.02	13.20	12.94
29	.....	11.92	10.35	8.97	.....	11.54	12.56	12.99	13.02	13.16	.....
30	.....	11.92	10.36	9.18	.....	11.56	12.49	13.01	.....	13.16	.....
31	.....	11.89	.....	9.38	.....	11.63	12.49	.....	.....	.....	.....

(C-22-5)2bca (*990, p. 89). R. R. and M. S. Hoyt.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Mar.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	107.12	107.18	.....	107.18	105.34	.....
2	.....	.....	.....	107.12	107.17	.....	.....	105.28	.....
3	.....	.....	.....	107.15	107.22	.....	.....	105.20	.....
4	.....	.....	.....	107.14	107.20	.....	.....	105.02	.....
5	.....	.....	.....	107.14	.....	.....	.....	104.96	.....
6	.....	.....	.....	107.10	.....	.....	.....	104.91	.....
7	.....	.....	.....	107.11	.....	.....	.....	.....	.....
8	.....	.....	.....	107.11	.....	.....	106.97	104.75	103.05
9	.....	.....	.....	107.11	.....	.....	106.97	104.65	.....
10 a	103.38	.....	.....	107.15	107.25	.....	106.96	104.58	.....
11	.....	.....	.....	107.15	107.23	.....	106.91	104.53	.....
12	.....	.....	.....	107.14	107.19	.....	106.89	104.46	.....
13	.....	.....	.....	107.14	107.18	.....	106.87	104.48	.....
14	.....	.....	.....	107.16	107.16	.....	106.85	104.42	.....
15	.....	.....	.....	.....	107.19	.....	106.83	104.36	102.74
16	.....	.....	.....	.....	107.19	.....	106.80	104.30	102.74
17	.....	.....	.....	107.19	107.11	.....	106.71	104.23	102.72
18	.....	.....	.....	107.19	107.10	.....	106.60	.....	102.71
19	.....	.....	a 107.01	107.19	107.13	.....	106.50	.....	102.62
20	.....	.....	.....	.....	107.18	107.15	107.18	.....	102.60
21	.....	.....	107.06	107.19	107.13	107.19	.....	104.00	102.56
22	.....	.....	107.12	107.17	107.09	107.27	106.26	104.01	102.44
23	.....	.....	107.09	107.17	107.08	107.23	106.19	103.88	102.40
24	.....	.....	107.10	107.12	107.07	.....	106.09	103.82	102.43
25	.....	a 108.68	107.10	107.18	107.14	.....	105.97	103.73	102.42
26	.....	.....	107.11	.....	107.17	.....	.....	103.62	102.37
27	.....	.....	107.16	.....	107.15	.....	.....	103.55	.....
28	.....	.....	107.18	107.20	107.12	.....	.....	103.46	.....
29	.....	.....	107.16	107.18	107.16	107.14	.....	.....	.....
30	.....	.....	107.16	107.16	107.19	107.16	105.40	.....	.....
31	.....	.....	.....	107.18	107.20	.....	105.38	.....	.....

a Tape measurement.

(C-22-5)4daa 1 (*990, p. 89). State claim 12961. J. B. Davies.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 10	21.20	June 20	26.93	Sept.20	26.79	Nov. 15	21.36
May 25	26.18	July 24	26.84	Oct. 8	26.26		

(C-22-5)5aca 1 (*990, p. 90). State claims 11975 and 18128. J. B. Tope. Measurements discontinued after Nov. 11, 1943.

(C-22-5)5bba 1 (*990, p. 90). State claims 15853 and 6324. R. A. Utley. Water levels, in feet above land-surface datum, 1944: May 25, 12.8; well flowing prior to measurement; Nov. 15, 31.8.

(C-22-5)6acd 1 (*990, p. 90). State claim 6232. Samuel Utley. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: May 25, 12.5; Nov. 15, 21.6. Measurements discontinued.

Millard County - South Pavant Valley

Hatton District

(C-22-5)28dbd 1 (*990, p. 92). State claim 16860. Charles Swallow.

Water level, in feet below land-surface datum, 1944

Mar. 11	41.13	June 16	38.97	Sept.20	36.53	Nov. 18	37.03
May 25	39.64	July 24	35.79	Oct. 16	36.92		

(C-22-5)29cda 1 (*990, p. 92). State claim 11976. O. E. Beckstrand.

Water level, in feet below land-surface datum, 1944

Mar. 11	9.98	June 16	6.23	Sept.20	9.39	Nov. 18	9.07
May 25	6.23	July 24	7.70	Oct. 9	9.51		

(C-22-5)33cdd 1 (*990, p. 93). State application 13367. L. A. Kimball. Water levels, in feet below land-surface datum, 1944: Mar. 11, 60.35; May 25, 58.83; June 16, 58.86; Oct. 16, 57.28.

(C-23-5)6daa 1 (*990, p. 93). State claim 8201. Hatton Well Co.

Water level, in feet below land-surface datum, 1944

Mar. 11	51.04	June 16	45.78	Sept.20	47.24	Nov. 18	47.15
May 25	47.40	July 24	46.34	Oct. 9	47.34		

(C-23-6)1cad 1 (*990, p. 93). State application 12,538. Waldo George.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
May 25	48.65	July 24	48.18	Oct. 9	48.58
June 16	48.36	Sept.20	48.44	Nov. 18	48.66

Millard County - South Pavant Valley

Kanosh District

(C-23-6)8bdb 1 (*990, p. 94). State claim 16582. H. P. & O. H. Watts. Water level, in feet below land-surface datum, 1944: Nov. 22, 29.13.

(C-23-6)19abb 1 (*990, p. 94). Water level, in feet below land-surface datum, 1944: Nov. 22, 52.69.

(C-23-6)29baa (*990, p. 94). State claim 6581. Water level, in feet below land-surface datum, 1944: Nov. 22, 67.70.

(C-24-7)25 (*910, p. 115; 940, p. 75; 948, p. 82; *990, p. 94). Frank Paxton. Water level, in feet below land-surface datum, 1944: Nov. 22, 168.64.

Millard County - South Pavant Valley

Meadow District

(C-22-5)7bdd 1 (*990, p. 90). State claim 11971. L. Stott. Measurements discontinued after May 27, 1944.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	45.5	Jan. 24	45.6	Mar. 26	45.5	Apr. 19	44.5
2	45.3	25	46.3	27	45.4	May 6	43.0
3	45.3	26	45.5	Apr. 2	44.5	7	43.0
4	45.0	27	46.8	3	44.5	8	43.0
5	44.5	Mar. 11	44.2	4	44.5	9	43.0
6	45.5	12	44.0	5	44.4	10	43.0
7	45.6	13	44.0	6	44.4	11	43.0
8	46.1	14	46.5	7	44.5	12	43.0
9	45.8	15	46.5	8	44.6	13	43.0
10	46.0	16	46.2	9	44.5	14	42.0
11	45.6	17	45.6	10	44.4	15	43.0
12	45.5	18	45.4	11	44.5	16	43.0
17	43.6	19	45.6	12	44.3	17	43.0
18	47.2	20	45.5	13	44.5	18	42.8
19	46.5	21	45.5	14	44.4	19	42.7
20	45.5	22	46.0	15	44.6	20	42.8
21	46.6	23	45.5	16	44.4	21	42.6
22	46.2	24	45.6	17	44.5	27	a 45.7
23	46.0	25	45.5	18	44.5		

a Gage measurement.

(C-22-5)7caa 2 (*990, p. 91). Geological Survey, U. S. Dept. of Interior.

Water level, in feet above land-surface datum, 1944

Mar. 11	4.25	June 19	4.87	Sept.20	7.77	Nov. 18	7.19
May 25	4.40	July 24	6.05	Oct. 8	7.76		

(C-22-5)8cda 1 (*990, p. 91). State claim 10474. R. E. Stott. Measurements discontinued.

Water level, in feet above land-surface datum, 1944

Mar. 10	12.7	June 16	11.1	Sept.20	10.7	Nov. 18	13.6
May 25	11.7	July 24	10.5	Oct. 9	10.7		

(C-22-5)9dbc 1 (*990, p. 91). State claim 2232. R. Sweeting.

Water level, in feet below land-surface datum, 1944

Mar. 10	7.11	June 16	8.22	Sept.20	7.22	Nov. 18	5.86
May 25	8.42	July 24	7.42	Oct. 9	7.00		

(C-22-5)17acc 1 (*817, p. 413; *840, p. 555; 845, p. 625; 886, p. 848; *910, p. 114; 940, p. 75; 948, p. 81; *990, p. 91). State claim 3296. William Blake.

(C-22-5)17acc 1--Continued.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
June 16	a 22.0	Sept.20	24.5	Nov. 18	26.8
July 24	a 21.8	Oct. 8	a 22.7		

a Well flowing prior to measurement.

(C-22-5)20aad 1 (*990, p. 91). State claim 11970. G. H. Beckstrand.

Water level, in feet with reference to land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 11	+1.46	June 16	-0.11	Sept.20	+0.01	Nov. 18	+2.4
May 25	.00	July 24	-.53	Oct. 9	-.22		

(C-22-5)20ccd 1 (*990, p. 92). State claim 5011. P. L. Greenhalgh. Water levels, in feet above land-surface datum, 1944: Mar. 11, 12.2; May 25, 12.1; well flowing prior to measurement; Nov. 21, 14.5.

(C-22-5)28bcc 1 (*990, p. 92). State claim 7675. H. N. Bushnell.

Water level, in feet below land-surface datum, 1944

Mar. 11	19.90	June 16	8.63	Sept.20	13.64	Nov. 17	14.55
May 25	6.47	July 24	10.22	Oct. 9	14.11		

Millard County - Sevier Desert

(C-15-4)20dcc 1 (*817, p. 406; 840, p. 549; 845, p. 620; 886, p. 844; 910, p. 111; *940, p. 75; 948, p. 82; *990, p. 94). Spencer Nielson. Water levels, in feet below land-surface datum, 1944: Mar. 8, 123.03; Nov. 24, 121.82.

(C-15-5)1aaa 1 (*817, p. 406; 840, p. 549; 845, p. 620; 886, p. 844; 910, p. 111; 940, p. 75; 948, p. 82; *990, p. 94). I. P. Hinckley. Water levels, in feet below land-surface datum, 1944: Mar. 8, 99.58; May 29, 99.38; Nov. 24, 98.78.

(C-15-7)17da (*840, p. 559; 845, p. 620; 886, p. 844; 910, p. 111; 940, p. 76; 948, p. 82; *990, p. 94). I. H. Losee. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 8, 2.72; Nov. 23, 2.15.

(C-15-3)23bba 1 (*845, p. 620; *886, p. 844; *910, p. 111; 940, p. 76; 948, p. 82; *990, p. 94). State claim 12279. C. D. Ashby. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Nov. 23, 3.66.

(C-15-9)27b (*948, p. 82). Measurements discontinued after July 21, 1942.

(C-16-7)4abb 1 (*817, p. 407; 840, p. 550; 845, p. 620; 886, p. 844; 910, p. 111; 940, p. 76; 948, p. 82; *990, p. 94). L. N. Hinckley. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 8, 6.53; July 29, 6.63; Nov. 23, 6.42.

(C-16-7)7ccb 1 (*845, p. 621; 886, p. 844; 910, p. 111; 940, p. 76; 948, p. 82; *990, p. 94). Millard County.

Water level, in feet below land-surface datum, 1944

Mar. 9	2.38	July 3	a 1.43	Aug. 18	a 1.90	Nov. 23	2.25
May 15	a 2.00	29	2.24	Oct. 25	a 2.00		

a Measurement by War Relocation Authority.

(C-16-7)21acd 1 (*845, p. 621; 886, p. 844; 910, p. 111; 940, p. 76; 948, p. 82; *990, p. 95). Martin Tanner. Water levels, in feet below land-surface datum, 1944: Mar. 8, 12.37; Nov. 23, 12.04.

(C-16-8)9dcd 1 (numbered (C-16-8)9dcc in *948, p. 82; 990, p. 95). State claim 11738. War Relocation Authority. Unused well, diameter 2 inches, depth 180 feet. Measuring point, top of casing, level with land surface and 4574.73 feet above sea level. Water levels, in feet below land-surface datum, 1944: March 9, 3.36; May 29, 3.32; July 29, 3.90.

(C-16-8)15dcc 2 (*990, p. 95). War Relocation Authority.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 9	1.53	July 3	a 1.09	Oct. 6	1.72	Nov. 23	1.59
Apr. 12	a 1.2	29	1.37	25	a 1.90	Dec. 29	a 1.67
May 15	a 1.0	Aug. 18	a 1.35				

a Measurement by War Relocation Authority.

(C-16-8)15dcc 3 (*948, p. 83; *990, p. 95). War Relocation Authority.

Water level, in feet below land-surface datum, 1944

Mar. 9	a 1.01	July 3	a 1.26	Oct. 6	1.72	Nov. 23	1.71
Apr. 12	a 0.97	29	1.26	25	a 1.80	Dec. 29	a 1.96
May 15	a .90	Aug. 18	a 1.60				

a Measurement by War Relocation Authority.

(C-16-8)15ddd 3 (*817, p. 407; *840, p. 550; 845, p. 621; 886, p. 844; *910, p. 111; 940, p. 76; 948, p. 83; *990, p. 95). State claim 12335. Frank Foot.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Mar. 9	3.51	May 15	a 3.40	Oct. 25	a 4.45
Apr. 12	a 3.25	Aug. 18	a 3.55	Nov. 23	4.45

a Measurement by War Relocation Authority.

(C-16-8)21ddd (*948, p. 84; *990, p. 96). War Relocation Authority.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 9	0.34	July 3	a 0.69	Oct. 6	1.45	Nov. 23	1.62
Apr. 12	a .35	29	.96	25	a 1.55	Dec. 29	a 1.99
May 15	a .30	Aug. 18	a .70				

a Measurement by War Relocation Authority.

(C-16-8)27acd (*948, p. 84; *990, p. 96). War Relocation Authority.

Water level, in feet below land-surface datum, 1944

Mar. 9	7.53	July 3	a 7.46	Oct. 6	7.60	Nov. 23	7.80
Apr. 12	a 7.55	29	7.50	25	a 7.90	Dec. 29	a 8.70
May 15	a 8.70	Aug. 18	a 7.10				

a Measurement by War Relocation Authority.

(C-16-8)27ddd 1 (*948, p. 84; *990, p. 96). War Relocation Authority.

Water level, in feet below land-surface datum, 1944

Mar. 9	7.50	July 3	a 8.04	Oct. 6	7.42	Nov. 23	7.10
Apr. 12	a 7.59	29	8.10	25	a 7.40	Dec. 29	a 5.25
May 15	a 6.90	Aug. 18	a 8.20				

a Measurement by War Relocation Authority.

(C-16-8)32baa (*948, p. 84; *990, p. 96). War Relocation Authority.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 9	9.46	July 3	a 11.17	Oct. 6	11.22	Nov. 23	11.40
Apr. 12	a 9.63	29	10.59	25	a 11.45	Dec. 29	a 12.08
May 15	a 9.55	Aug. 18	a 10.90				

a Measurement by War Relocation Authority.

(C-16-8)33baa (*948, p. 84; *990, p. 97). War Relocation Authority.

Water level, in feet below land-surface datum, 1944

Mar. 9	9.92	July 3	a 9.98	Oct. 6	10.94	Nov. 23	11.10
Apr. 12	a 10.00	29	10.41	25	a 11.00	Dec. 29	a 11.42
May 15	a 9.90	Aug. 18	a 10.60				

a Measurement by War Relocation Authority.

(C-17-6)7dbb 2 (*817, p. 408; 840, p. 550; 845, p. 621; 886, p. 845; 910, p. 111; *940, p. 76; 948, p. 84; *990, p. 97). Edward M. Dalton. Water levels, in feet below land-surface datum, 1944: Mar. 8, 0.22; May 29, 0.04; July 29, 0.29; Nov. 24, 0.35.

(C-17-6)33dcc 1 (*817, p. 408; *840, p. 550; *845, p. 621; 886, p. 845; *910, p. 111; 940, p. 76; 948, p. 84; *990, p. 97). State claim 10288. Duluty Land Co. Water levels, in feet above land-surface datum, 1944: Mar. 9, 8.2; Nov. 23, 8.7.

(C-17-7)20cbb 1 (*817, p. 408; *840, p. 550; 845, p. 621; 886, p. 845; *910, p. 111; 940, p. 76; 948, p. 84; *990, p. 97). State claim 12287. W. J. Webb. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 9, 6.0; Nov. 23, 5.6.

(C-17-7)25daa 1 (*817, p. 408; 840, p. 551; 845, p. 621; 886, p. 845; 910, p. 111; 940, p. 76; 948, p. 84; *990, p. 97). Investors Finance Co. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 9, 5.32; Nov. 23, 6.5.

Millard County - Snake Valley 12/

(C-18-19)20dad 1 (*840, p. 551; 845, p. 622; 886, p. 845; 910, p. 112; 940, p. 76; 948, p. 85; *990, p. 97). Mrs. Ward Robinson. Water level, in feet below land-surface datum, 1944: Oct. 3, 22.88.

(C-18-19)20ddd 1 (*840, p. 551; 845, p. 622; 886, p. 845; *910, p. 112; 940, p. 76; 948, p. 85; *990, p. 97). State claim 7420. Louise Robinson. Water level, in feet below land-surface datum, 1944: Oct. 3, 25.31.

(C-20-19)6bcc (*840, p. 552; 845, p. 622; 886, p. 846; 910, p. 112; 940, p. 76; 948, p. 85; *990, p. 97). G. A. Bellander. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Oct. 3, 6.6.

(C-20-19)7aab (*340, p. 553; 886, p. 846; 910, p. 112; 940, p. 76; 948, p. 35; *990, p. 97). G. S. Quayle. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Oct. 3, 8.0.

(C-20-19)7bbd (*840, p. 553; 845, p. 622; 886, p. 846; 910, p. 112; 940, p. 77; 948, p. 85; *990, p. 98). Marcus Sorenson. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Oct. 3, 5.6.

(C-22-19)6b (*948, p. 85; *990, p. 98). Cecil Rowley. Water level, in feet below land-surface datum, 1944: Oct. 3, 56.47.

12/ For other wells in this valley see pages 90-91.

(C-22-19)9cc (*840, p. 557; 845, p. 625; 886, p. 848; 910, p. 115; 940, p. 77; 948, p. 85; *990, p. 98). Fred Loner. Water level, in feet below land-surface datum, 1944: Oct. 3, 7.25.

(C-23-19)9cdb 1 (*840, p. 557; 845, p. 625; 886, p. 848; 910, p. 115; 940, p. 77; 948, p. 85; *990, p. 98). Thomas Dearden. Water level, in feet below land-surface datum, 1944: Oct. 3, 14.60.

Morgan County - Morgan Valley

(A-3-2)14dc (*817, p. 352; 840, p. 519; 845, p. 625; 886, p. 849; 910, p. 115; 940, p. 77; 948, p. 85; 990, p. 98). Earl Walker. Water levels, in feet below land-surface datum, 1944: Apr. 14, 54.57; Dec. 13, 54.78. Measurements discontinued.

(A-3-2)24cba 1 (*817, p. 352; 840, p. 519; 845, p. 625; 886, p. 849; *910, p. 115; 948, p. 85; *990, p. 98). State claim 12405. Hyrum Adams. Water levels, in feet below land-surface datum, 1944: Apr. 14, 16.15; Dec. 13, 16.77.

(A-4-2)8ccd 1 (*910, p. 115; 940, p. 77; 948, p. 85; 990, p. 98). State claim 12133. L. H. Kobabe. Water levels, in feet below land-surface datum, 1944: Apr. 14, 17.80; Dec. 13, 17.97.

(A-4-2)15ccc (*817, p. 352; *840, p. 519; 845, p. 625; 886, p. 849; *910, p. 116; 940, p. 77; 948, p. 85; *990, p. 98). State claim 6594. Jake Pentz. Water levels, in feet below land-surface datum, 1944: Apr. 14, 22.52; Dec. 13, 21.27.

(A-4-2)17dbd 1 (*817, p. 352; 840, p. 519; 845, p. 625; 886, p. 849; *910, p. 116; 940, p. 77; 948, p. 85; *990, p. 98). Heber Anderson Estate. Water levels, in feet below land-surface datum, 1944: Apr. 14, 21.35; Dec. 13, 22.01.

(A-4-2)26cc (*817, p. 352; *840, p. 519; 845, p. 625; 886, p. 849; 910, p. 116; 940, p. 77; 948, p. 86; *990, p. 98). State application 11666. J. C. Little. Water levels, in feet below land-surface datum, 1944: Apr. 14, 15.63; Dec. 13, 13.15.

(A-4-2)27ddd 1 (*817, p. 352; *840, p. 519; 845, p. 625; *886, p. 849; *910, p. 116; 940, p. 77; 948, p. 86; *990, p. 98). State claim 14744. J. C. Little. Water levels, in feet below land-surface datum, 1944: Apr. 14, 13.43; Dec. 13, 11.08.

(A-4-2)28baa 1 (*817, p. 352; 840, p. 519; 845, p. 626; 886, p. 849; *910, p. 116; 940, p. 77; 948, p. 86; *990, p. 98). State claim 9247. Morgan County School District. Water levels, in feet below land-surface datum, 1944: Apr. 14, 25.19; Dec. 13, 25.13.

(A-4-2)35cdd 1 (*817, p. 352; *840, p. 520; 845, p. 626; 886, p. 849; *910, p. 116; 940, p. 77; 948, p. 86; *990, p. 98). State claim 11785. Albert Wiggins. Water levels, in feet below land-surface datum, 1944: Apr. 14, 23.18; Dec. 13, 21.73.

(A-4-3)31bcc (*840, p. 520; 845, p. 626; *886, p. 849; 910, p. 116; 940, p. 77; 948, p. 86; 990, p. 99). Morgan County. Water levels, in feet below land-surface datum, 1944: Apr. 14, 24.89; Dec. 13, 24.35.

(A-4-3)31cab 1 (*840, p. 520; 845, p. 626; 886, p. 850; *910, p. 116; 940, p. 77; 948, p. 86; *990, p. 99). State claim 12410. Como Springs Resort Co. Water levels, in feet below land-surface datum, 1944: Apr. 14, 2.72; Dec. 13, 2.42.

(A-4-4)30aac 2 (*910, p. 116; 940, p. 77; 948, p. 86; *990, p. 99). State claim 5670. J. A. Millyard. Water levels, in feet below land-surface datum, 1944: Apr. 14, 11.20; Dec. 13, 10.95.

(A-5-1)27db (*817, p. 352; 840, p. 520; 845, p. 626; 886, p. 850; 910, p. 116; 940, p. 77; 948, p. 86; 990, p. 99). E. R. France. Water levels, in feet below land-surface datum, 1944: Apr. 14, 1.40; Dec. 13, 1.50.

Piute County - Grass Valley 13/

(C-27-1)27abc 2 (*840, p. 559; 845, p. 626; 886, p. 850; *910, p. 117; 940, p. 73; 948, p. 86; *990, p. 99). State claim 2905. H. B. Crandall. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 5, 4.40.

(C-30-2)32a (*845, p. 626; 886, p. 850; 910, p. 117; 940, p. 78; 948, p. 86; 990, p. 99). Water levels, in feet below land-surface datum, 1944: Mar. 18, 14.28; Dec. 3, 13.25.

Piute County - Upper Sevier Valley 14/

(C-30-3)15bba 1 (*817, p. 422; 840, p. 565; 845, p. 626; 886, p. 850; 910, p. 117; *940, p. 78; 948, p. 86; *990, p. 99). O. P. Jessen. Water levels, in feet below land-surface datum, 1944: Mar. 13, 23.10; Dec. 3, 18.75.

(C-30-4)14dca 1 (*817, p. 423; *340, p. 565; 845, p. 627; 886, p. 850; 910, p. 117; *940, p. 78; 948, p. 86; *990, p. 99). Earl Whitaker. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 18, 7.4; Dec. 3, 8.7.,

(C-30-4)25bcc 1 (*845, p. 627; 886, p. 850; *910, p. 117; 940, p. 78; 948, p. 87; *990, p. 99). State claim 3210. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Mar. 18, 19.05; Dec. 3, 17.45.

Rich County - Bear Lake Valley

(A-13-5)10bbb 1 (*840, p. 526; 845, p. 627; 886, p. 852; 910, p. 118; 940, p. 79; 948, p. 87; *990, p. 100). Thomas Hodges. Water level, in feet below land-surface datum, 1944: Oct. 20, 14.47.

(A-13-5)10bbb 2 (*840, p. 526; 845, p. 627; 886, p. 852; 910, p. 118; 940, p. 79; 948, p. 87; *990, p. 100). Thomas Hodges. Water level, in feet below land-surface datum, 1944: Oct. 20, 16.72.

(A-13-5)21ad (*817, p. 361; 840, p. 526; 845, p. 627; 886, p. 852; 910, p. 118; 940, p. 79; 948, p. 87; *990, p.100). Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Oct. 20, 7.78.

(A-13-5)22bd (*817, p. 361; 840, p. 526; 845, p. 627; 886, p. 852; 910, p. 118; 940, p. 79; 948, p. 87; *990, p.100). Willis Bros. Water level, in feet below land-surface datum, 1944: Oct. 20, 20.78.

(A-13-5)22da (*817, p. 361; 840, p. 526; 845, p. 627; 886, p. 852; 910, p. 118; 940, p. 79; 948, p. 87; 990, p.100). Max Green. Water level, in feet below land-surface datum, 1944: Oct. 20, 19.70.

(A-13-5)25db (*817, p. 361; 840, p. 526; 845, p. 627; 886, p. 852; 910, p. 118; 940, p. 79; 948, p. 88; *990, p.100). Willis Bros. Water level, in feet below land-surface datum, 1944: Oct. 20, 8.41.

(A-13-6)30bb (*817, p. 361; 840, p. 526; 845, p. 627; 886, p. 852; 910, p. 118; 940, p. 79; 948, p. 88; *990, p.100). Rich County. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Oct. 20, 4.64.

(A-14-5)16cdc 1 (*817, p. 362; 840, p. 527; 845, p. 628; 886, p. 852; 910, p. 118; 940, p. 79; 948, p. 88; *990, p.100). Mrs. David Cook. Water level, in feet below land-surface datum, 1944: Oct. 20, 14.85.

(A-14-5)21bd (*817, p. 362; 840, p. 527; 845, p. 628; 886, p. 853; 910, p. 119; 940, p. 79; 948, p. 88; *990, p.100). Thomas Hodges. Water level, in feet below land-surface datum, 1944: Oct. 20, 11.07.

(A-14-5)21bda (*817, p. 362; 840, p. 527; 845, p. 628; 886, p. 853; *910, p. 118; 940, p. 79; 948, p. 88; *990, p.100). J. W. Gibbons. Water level, in feet below land-surface datum, 1944: Oct. 20, 14.47.

13/ For other wells in this valley see pages 118-119.
14/ For other wells in this valley see page 79.

(A-14-5)21bdb (*817, p. 362; 845, p. 628; 886, p. 852; 910, p. 119; 940, p. 79; 948, p. 88; *990, p.100). Alex Johnson. Water level, in feet below land-surface datum, 1944: Oct. 20, 18.23.

(A-14-5)21cd (*817, p. 362; 840, p. 527; 845, p. 628; 886, p. 853; 910, p. 119; 940, p. 80; 948, p. 88; *990, p.100). C. W. Pope. Water level, in feet below land-surface datum, 1944: Oct. 20, 3.82.

(A-15-5)32cd (*840, p. 527; 845, p. 628; 886, p. 853; 910, p. 119; 940, p. 80; 948, p. 88; 990, p.101). L. E. Scofield. Measurements discontinued after Oct. 25, 1943.

Rich County - Upper Bear River Valley

(A-9-7)16ba (*817, p. 358; 840, p. 523; 845, p. 627; 886, p. 851; *910, p. 117; 940, p. 78; 948, p. 87; *990, p. 99). State claim 8218. Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Oct. 20, 35.87.

(A-9-8)17ac (*845, p. 627; 886, p. 851; *910, p. 117; 940, p. 78; 948, p. 87; *990, p. 99). State claim 6837. S. Francis & Sons Co. Water level, in feet below land-surface datum, 1944: Oct. 20, 6.00.

(A-10-7)20aaa 1 (*840, p. 523; 845, p. 627; 886, p. 851; *910, p. 117; 940, p. 78; 948, p. 87; 990, p. 99). State claim 1886. Joseph Hatch. Water level, in feet below land-surface datum, 1944: Oct. 20, 10.72.

(A-11-7)9cd 1 (*817, p. 359; 840, p. 524; 845, p. 627; 886, p. 851; 910, p. 117; 940, p. 78; 948, p. 87; *990, p. 99). F. H. Jackson. Water level, in feet below land-surface datum, 1944: Oct. 20, 13.23.

(A-11-7)9cd 2 (*817, p. 359; 840, p. 524; 845, p. 627; 886, p. 851; 910, p. 117; 940, p. 78; 948, p. 87; *990, p. 99). F. H. Jackson. Water level, in feet below land-surface datum, 1944: Oct. 20, 13.10.

(A-11-7)21bc (*840, p. 524; 845, p. 627; 886, p. 851; 910, p. 117; 940, p. 78; 948, p. 87; *990, p.100). Loren Jackson. Water level, in feet below land-surface datum, 1944: Oct. 20, 9.65.

(A-12-7)26bb 1 (*817, p. 360; 840, p. 525; 845, p. 627; 886, p. 851; 910, p. 118; 940, p. 78; 948, p. 87; 990, p.100). William Hoffman. Water level, in feet below land-surface datum, 1944: Oct. 20, 8.98.

(A-12-7)26bb 2 (*817, p. 360; 840, p. 525; 845, p. 627; 886, p. 852; 910, p. 118; 940, p. 78; 948, p. 87; *990, p.100). William Hoffman. Water level, in feet below land-surface datum, 1944: Oct. 20, 8.99.

Salt Lake County - Jordan Valley

(B-1-1)6cca 1 (*817, p. 362; *840, p. 527; 845, p. 628; 886, p. 853; *910, p. 119; 940, p. 80; 948, p. 88; *990, p.101). State claim 747. Rudy Gun Club. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 8, 19.10; Dec. 16, 20.00.

(B-1-1)26ddc 2 (*840, p. 527; 845, p. 628; 886, p. 853; 910, p. 119; 940, p. 80; 948, p. 88; *990, p.101). L. T. Farnsworth. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 8, 5.7; Dec. 16, 4.59.

(B-1-1)33cda 1 (*817, p. 363; *840, p. 528; 845, p. 628; 886, p. 853; *910, p. 119; 940, p. 80; 948, p. 88; *990, p.101). State claim 8867. Salt Lake City Corporation. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	14.20	Apr. 27	14.40	Aug. 1	13.00	Nov. 2	13.00
Feb. 18	14.25	May 12	14.50	17	11.20	Dec. 5	13.30
Mar. 10	14.25	June 6	14.25	Sept. 5	12.85	19	12.25
Apr. 15	14.20	July 17	13.40	Oct. 16	13.20		

(B-1-1)36abc 1 (*840, p. 528; 845, p. 628; 886, p. 853; 910, p. 119; 940, p. 80; 948, p. 88; *990, p. 101). Utah Oil Co. Measurements by Salt Lake City Corporation.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	9.23	Apr. 8	7.35	June 22	7.05	Sept. 15	15.15
19	10.40	14	7.17	29	6.75	23	15.67
Feb. 7	11.07	27	7.95	July 7	6.40	Oct. 2	16.41
18	12.80	May 6	8.25	17	6.15	5	16.30
26	9.20	12	8.26	28	7.05	21	14.25
Mar. 4	8.70	17	7.91	Aug. 1	7.84	27	14.02
10	8.30	20	8.19	12	9.10	Nov. 2	14.70
11	8.45	22	8.29	17	10.65	24	12.64
16	8.25	24	8.55	29	13.40	Dec. 2	12.10
23	8.00	June 6	8.00	Sept. 5	14.32	16	11.02
31	7.55	15	7.57				

(B-1-2)36baa 1 (*940, p. 80; 948, p. 89; *990, p. 101). State claim 18176. E. J. Jeremy. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 8, 15.1; Dec. 16, 15.5.

(C-1-1)2cda 1 (*840, p. 541; 845, p. 629; 886, p. 854; 910, p. 120; 940, p. 81; 948, p. 89; *990, p. 101). J. D. Brown. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1944

Jan. 19	3.40	Apr. 15	3.30	July 17	2.40	Oct. 16	2.07
Feb. 18	3.40	May 12	2.00	Aug. 17	2.35	Nov. 2	3.00
Mar. 10	3.70	June 15	4.20	Sept. 5	2.90	Dec. 5	3.25

(C-1-1)22bda 1 (*817, p. 394; *840, p. 542; 845, p. 629; *886, p. 854; *910, p. 120; 940, p. 81; 948, p. 89; *990, p. 101). State claim 2199. William Gedge. Water levels, in feet above land-surface datum, 1944: Apr. 8, 11.0; Dec. 16, 11.9.

(C-1-1)33abb 1 (*817, p. 395; *840, p. 544; 845, p. 629; 886, p. 854; *910, p. 120; 940, p. 81; 948, p. 89; *990, p. 101). State claim 7547. W. D. Hill. Water levels, in feet above land-surface datum, 1944: Apr. 8, 18.3; Dec. 16, 21.1.

(C-1-2)5bbb 1 (*817, p. 395; *840, p. 542; 845, p. 629; 886, p. 854; 910, p. 120; 940, p. 81; 948, p. 89; *990, p. 102). State claim 13403. Morton Salt Co. Water levels, in feet above land-surface datum, 1944: Apr. 7, 17.8; Dec. 16, 18.3.

(C-1-2)19dad 1 (*817, p. 395; *840, p. 542; 845, p. 629; 886, p. 855; 910, p. 120; 940, p. 81; 948, p. 89; *990, p. 102). State claim 5828. Utah Copper Co. Water levels, in feet above land-surface datum, 1944: Apr. 8, 13.0; Dec. 16, 16.6.

(C-1-2)22bcd 3 (*948, p. 89; *990, p. 102). Harriet Brown. No measurements made in 1944.

(C-1-2)22cbb 1 (*817, p. 396; 840, p. 543; 845, p. 630; 886, p. 855; *910, p. 120; *940, p. 81; 948, p. 90; *990, p. 102). F. E. Fowler. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 8, 13.1; Dec. 16, 15.7.

(C-2-1)1bab 2 (*817, p. 396; *840, p. 543; 845, p. 630; 886, p. 855; *910, p. 120; 940, p. 81; 948, p. 90; *990, p. 102). State claim 4058. C. S. Walters. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1944

Jan. 7	18.10	Apr. 27	20.30	June 30	16.10	Sept. 12	14.50
Feb. 3	18.90	May 12	19.30	July 10	15.05	Oct. 6	17.00
Mar. 9	19.40	29	17.70	Aug. 7	14.35	Nov. 2	17.60
Apr. 14	19.80	June 9	19.20	26	14.35	Dec. 4	19.00

(C-2-1)10bad 1 (*845, p. 630; 886, p. 855; 910, p. 121; 940, p. 82; 948, p. 90; *990, p.103). E. B. Lindsay. Water levels, in feet below land-surface datum, 1944: Apr. 8, 12.65; Dec. 16, 6.42.

(C-2-1)22bd (*777, p. 245; *817, p. 397; *840, p. 543; 845, p. 630; 886, p. 855; 910, p. 121; 940, p. 82; 948, p. 90; *990, p.103). W. A. Diamond. Measurements by Salt Lake City Corporation.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	72.65	Apr. 18	75.31	Aug. 31	70.80	Nov. 29	69.60
Feb. 26	73.55	May 22	76.71	Sept.28	67.96	Dec. 12	70.40
Mar. 17	74.60	July 13	72.70	Oct. 21	67.05		

(C-2-1)24adc 1 (*817, p. 397; *840, p. 543; 845, p. 630; *886, p. 855; 910, p. 121; 940, p. 82; 948, p. 91; *990, p.103). State claim 16012. J. D. Blain. Water levels, in feet below land-surface datum, 1944: Apr. 8, 22.75; Dec. 16, 21.29.

(C-2-1)24ccc 2 (*817, p. 398; 840, p. 543; *845, p. 630; 886, p. 856; *910, p. 121; 940, p. 82; 948, p. 91; *990, p.103). J. R. Smith. Water levels, in feet below land-surface datum, 1944: Apr. 8, 1.46; Dec. 16, 1.17.

(C-3-1)25aa (*817, p. 402; 840, p. 547; 845, p. 631; 886, p. 856; 910, p. 121; 940, p. 82; 948, p. 91; *990, p.103). Sproul Bros. Water levels, in feet below land-surface datum, 1944: Apr. 8, 30.55; Dec. 16, 28.02.

(C-3-1)26cad 1 (*817, p. 402; *840, p. 547; 845, p. 631; 886, p. 856; 910, p. 121; 940, p. 82; 948, p. 91; *990, p.103). Frank Bagley. Water levels, in feet above land-surface datum, 1944: Apr. 8, 21.5; Dec. 16, 23.3.

(C-3-1)27cdd 1 (*817, p. 402; 840, p. 547; 845, p. 631; 886, p. 856; 910, p. 121; 940, p. 82; 948, p. 91; *990, p.103). J. R. Dansie and others. Water levels, in feet below land-surface datum, 1944: Apr. 8, 26.72; Dec. 16, 20.52.

(D-1-1)5aad 1 (*817, p. 439; 840, p. 589; 845, p. 631; 886, p. 856; *910, p. 121; 940, p. 82; 948, p. 91; *990, p.103). Salt Lake City Corporation.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	99.63	99.70	99.98	100.02	100.28	100.32
2	99.54	99.72	99.98	100.07	100.33	100.27
3	99.53	99.69	99.99	100.10	100.40	100.33
4	99.69	99.68	99.96	100.10	100.39	100.42
5	99.65	99.74	100.02	100.11	100.35	100.46
6	99.60	99.77	100.11	100.19	100.28	100.45
7	99.75	99.71	100.17	100.12	100.27	100.40
8	99.73	99.68	100.16	100.03	100.27	100.28
9	99.63	99.63	100.12	100.10	100.28	100.37
10	99.58	99.87	100.05	100.20	100.34	100.38
11	99.68	99.89	100.00	100.19	100.42	100.38
12	99.74	99.82	99.97	100.22	100.45	100.35
13	99.73	99.81	99.93	100.18	100.42	100.28
14	99.65	99.71	100.01	100.20	100.42	100.27
15	99.60	99.83	100.17	100.26	100.39	100.31
16	99.68	99.83	100.20	100.19	100.36	100.34
17	99.65	99.86	100.10	100.28	100.47	.....
18	99.73	99.89	100.12	100.24	100.39	.....
19	99.72	99.89	100.10	100.24	100.52	.....
20	99.63	99.86	100.07	100.08	100.55	.....

(D-1-1)5aad 1--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
21	99.60	99.77	100.15	100.25	100.49	100.40
22	99.62	99.91	100.20	100.32	100.42	100.50
23	99.49	99.90	100.13	100.27	100.48	100.47
24	99.44	99.88	100.02	100.15	100.51	.....
25	99.59	99.89	99.97	100.22	100.51	.....
26	99.63	99.91	100.09	100.30	100.54	.....
27	99.66	99.97	100.11	100.20	100.56	.....
28	99.72	99.98	100.16	100.21	100.48	.....
29	99.73	99.98	100.18	100.26	100.44	.....
30	99.72	.....	100.13	100.29	100.42	.....
31	99.71	.....	100.04	.....	100.42	.....

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	99.87	99.53	99.69	99.63	99.26
2	.....	99.87	99.59	99.74	99.60	99.17
3	.....	99.89	99.66	99.72	99.61	99.25
4	.....	99.89	99.72	99.67	99.57	99.32
5	100.30	99.89	99.72	99.67	99.58	99.25
6	100.30	99.82	99.71	99.74	99.57	99.04
7	100.26	99.60	99.75	99.71	99.65	98.92
8	100.24	99.46	99.77	99.64	99.71	98.96
9	100.24	99.37	99.68	99.71	99.63	99.06
10	100.21	99.31	99.55	99.73	99.57	99.12
11	100.22	99.31	99.55	99.71	99.60	99.08
12	100.22	99.37	99.50	99.69	99.52	99.14
13	100.22	99.36	99.44	99.67	99.67	99.15
14	100.22	99.35	99.48	99.69	99.75	99.09
15	100.20	99.34	99.64	99.71	99.68	99.09
16	100.15	99.34	99.60	99.74	99.63	99.06
17	100.07	99.38	99.56	99.74	99.62	99.08
18	100.01	99.38	99.71	99.72	99.60	99.13
19	99.98	99.36	99.72	99.67	99.67	99.06
20	99.98	99.36	99.75	99.68	99.73	99.01
21	99.98	99.34	99.60	99.67	99.72	99.11
22	99.92	99.33	99.71	99.68	99.67	99.02
23	99.89	99.32	99.62	99.70	99.55	99.05
24	99.89	99.32	99.55	99.66	99.52	99.09
25	99.89	99.35	99.57	99.64	99.61	99.13
26	99.92	.....	99.58	99.80	99.50	99.13
27	99.92	.....	99.60	99.81	99.46	99.11
28	99.92	.....	99.64	99.78	99.52	99.03
29	99.89	.....	99.57	99.76	99.36	99.09
30	99.87	99.55	99.62	99.73	99.31	99.18
31	99.87	99.53	.....	99.68	.....	99.24

(D-1-1)6ccd 1 (*817, p. 440; 840, p. 590; 845, p. 632; 886, p. 857; 910, p. 122; 940, p. 83; 948, p. 92; *990, p.104). Royal Laundry Co. Measurements by Salt Lake City Corporation.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	10.00	Apr. 3	10.15	July 19	8.30	Oct. 20	13.62
Feb. 18	8.80	May 18	8.68	Aug. 29	10.30	Nov. 24	12.71
Mar. 10	9.53	June 15	9.00	Sept.12	11.50	Dec. 8	12.60

(D-1-1)7abd 6 (*840, p. 590; 845, p. 632; 886, p. 858; 910, p. 122; 940, p. 83; 948, p. 92; *990, p.104). Salt Lake City Corporation. Measurements by Salt Lake City Corporation.

(D-1-1)7abd 6--Continued.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	8.00	Apr. 8	8.35	June 15	7.85	Sept.29	6.10
Feb. 21	8.10	May 18	8.15	July 17	6.50	Nov. 18	7.30
Mar. 10	8.25	June 6	8.95	Aug. 26	6.40	Dec. 11	6.90

(D-1-1)9aca 1 (*886, pp. 858-862; 910, p. 122; 940, p. 83; 948, p. 93; *990, p. 104). State claim 4836. Salt Lake City Corporation.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	141.30	141.94	142.51	142.83	142.24	140.41
2	141.24	142.02	142.49	142.93	142.33	140.31
3	141.33	141.97	142.56	142.87	142.33	140.42
4	141.48	142.14	142.48	142.83	142.23	140.47
5	141.33	142.15	142.63	142.90	142.11	140.41
6	141.42	142.15	142.66	142.88	142.01	140.31
7	141.52	142.11	142.65	142.83	141.99	140.26
8	.....	142.05	142.60	142.69	141.91	139.95
9	.....	142.14	142.59	142.85	141.29	140.06
10	.....	142.32	142.56	142.86	141.19	140.05
11	141.60	142.16	142.64	142.77	141.19	139.98
12	141.63	142.18	142.54	142.80	141.09	139.91
13	141.66	142.18	142.62	142.78	140.94	139.90
14	141.58	142.32	142.62	142.86	140.94	139.83
15	141.60	142.28	142.74	142.80	140.84	139.84
16	141.68	142.21	142.68	142.80	140.69	139.87
17	141.66	142.27	142.59	142.86	140.80	139.96
18	141.73	142.28	142.73	142.76	140.70	139.91
19	141.75	142.26	142.63	142.78	140.62	139.83
20	141.62	142.17	142.69	142.65	140.60	139.78
21	141.72	142.27	142.80	142.79	140.47	139.78
22	141.75	142.40	142.83	142.79	140.40	139.97
23	.....	142.38	142.73	142.68	140.50	139.93
24	.....	142.36	142.75	142.56	140.45	139.91
25	141.85	142.48	142.63	142.65	140.42	139.88
26	141.84	142.46	142.78	.....	140.42	139.83
27	141.89	142.48	142.88	.....	140.39	140.00
28	141.94	142.47	142.84	.....	140.34	139.96
29	141.91	142.45	142.84	142.62	140.31	139.91
30	141.91	.....	142.82	142.03	140.24	139.87
31	141.94	.....	142.80	.....	140.22	.....

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	139.83	139.95	140.10	.....	140.21	140.47
2	139.83	139.93	140.12	.....	140.15	140.50
3	139.84	140.04	140.16	.....	140.20	140.59
4	139.82	140.09	140.17	140.10	140.15	140.65
5	139.81	140.08	140.13	140.03	140.20	140.63
6	139.83	140.08	140.12	140.22	140.20	140.60
7	139.82	140.06	140.12	140.16	140.27	140.62
8	139.81	140.05	140.13	140.08	140.29	140.64
9	139.82	140.12	140.10	140.16	140.19	140.72
10	139.85	140.12	140.09	140.15	140.16	140.73
11	140.11	140.10	140.11	140.15	140.24	140.71
12	139.93	140.05	140.08	140.19	140.12	140.76
13	139.95	140.02	140.06	140.19	140.33	140.76
14	139.95	140.05	140.07	140.20	140.37	140.71
15	139.95	140.05	140.26	140.16	140.31	140.72
16	139.96	140.08	140.16	140.12	140.34	140.71

(D-1-1)9aca 1--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
17	139.95	140.14	.....	140.15	140.34	140.73
18	139.95	140.10	.....	140.13	140.34	140.77
19	139.95	140.14	.....	140.15	140.44	140.74
20	139.91	140.16	.....	140.16	140.50	140.76
21	139.95	140.11	140.10	140.15	140.49	140.80
22	139.91	140.10	140.26	140.20	140.47	140.70
23	139.91	140.03	140.16	140.23	140.28	140.72
24	139.91	140.02	140.12	140.20	140.36	140.80
25	139.95	140.12	140.11	140.19	140.52	140.84
26	140.00	140.13	140.11	140.24	140.42	140.81
27	140.01	140.09	140.10	140.24	140.42	140.79
28	139.99	140.02	140.11	140.22	140.58	140.67
29	139.93	140.10	140.03	140.21	140.44	140.79
30	139.90	140.11	140.16	140.19	140.50	140.84
31	139.92	140.02	.....	140.17	.....	140.84

(D-1-1)19bba 1 (*840, p. 591; 845, p. 633; 886, p. 863; *910, p. 123; 930, p. 84; 948, p. 95; *990, p.105). State claim 13468. Salt Lake County Hospital. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	13.40	May 12	11.60	Aug. 17	7.20	Oct. 6	11.40
Feb. 18	14.20	June 6	13.80	Sept.12	7.90	Nov. 2	12.00
Mar. 10	14.30	15	10.90	29	9.10	Dec. 5	13.40
Apr. 3	14.40	July 17	7.25				

(D-1-1)20cdc 4 (*840, p. 591; 845, p. 633; 886, p. 863; 910, p. 123; 940, p. 84; 948, p. 93; *990, p.106). Louis Lund. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1944

Jan. 20	3.70	Apr. 3	4.30	June 24	2.80	Oct. 3	3.70
Feb. 5	3.02	27	4.40	July 18	2.30	Nov. 2	3.80
18	3.80	May 27	2.80	Aug. 28	2.20	Dec. 4	4.20
Mar. 10	4.10	June 6	4.50	Sept.12	2.20	21	4.40

(D-1-1)21acc 1 (*817, p. 440; *840, p. 591; 845, p. 633; 886, p. 863; *910, p. 123; 940, p. 84; 948, p. 94; *990, p.106). State claim 33. Utah State Prison. Measurements by Salt Lake City Corporation.

Water level, in feet below land-surface datum, 1944

Jan. 27	75.20	Apr. 29	74.53	June 24	68.49	Oct. 3	72.61
Feb. 21	76.67	May 22	71.88	July 17	70.02	Nov. 4	72.40
Mar. 17	76.29	June 5	70.77	Aug. 19	70.62	Dec. 19	72.50
Apr. 13	76.33	17	69.12	Sept.11	71.17		

(D-1-1)30bbc 9 (*840, p. 592; 845, p. 633; 886, p. 863; 910, p. 123; 940, p. 84; 948, p. 94; *990, p.106). L. W. Amodt. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1944

Feb. 5	13.35	June 6	13.40	Aug. 7	4.00	Oct. 6	10.50
26	13.55	15	9.60	26	4.40	Nov. 18	13.20
Mar. 16	14.20	30	7.50	Sept.12	5.45	Dec. 5	13.05
Apr. 10	14.90	July 17	4.55	29	7.30	21	12.60
27	15.80						

(D-1-1)31caa 2 (*840, p. 592; 845, p. 634; 886, p. 863; *910, p. 124; 940, p. 84; 948, p. 94; *990, p. 106). State claim 4120. William Sorenson. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	15.30	Apr. 21	16.30	Aug. 7	9.00	Nov. 2	13.80
Feb. 3	15.10	May 12	15.25	28	9.40	Dec. 4	15.00
Mar. 9	15.60	June 16	12.70	Oct. 5	13.50		

(D-2-1)4dbd 4 (*777, p. 246; *817, p. 442; *840, p. 592; 845, p. 634; 886, p. 864; 910, p. 124; 940, p. 85; 948, p. 94; *990, p. 107). Eugene Templeman. Measurements by Salt Lake City Corporation.

Water level, in feet with reference to land-surface datum, 1944

Jan. 7	+0.60	Apr. 15	-0.75	July 8	+3.05	Oct. 9	+4.25
20	+.35	21	-.75	14	+3.45	19	+3.85
27	+.33	25	-.76	28	+3.10	25	+3.42
Feb. 1	+.18	May 2	-.95	Aug. 3	+3.60	30	+3.58
11	-.02	11	-.82	7	+3.30	Nov. 4	+3.60
21	-.30	18	-.54	11	+4.00	18	+3.50
29	-.35	31	-.17	19	+4.40	29	+3.45
Mar. 10	-.50	June 3	+.22	29	+4.20	Dec. 1	+3.40
20	-.55	12	+.85	Sept.11	+4.10	8	+3.20
25	-.71	13	+.80	16	+4.10	12	+3.25
Apr. 4	-.67	27	+2.25	23	+4.15	21	+2.90
7	-.65	July 1	+2.55	30	+4.15		

(D-2-1)5aaa 1 (*840, p. 593; 845, p. 634; 886, p. 864; *910, p. 124; 940, p. 85; 948, p. 94; *990, p. 107). State claim 6685. M. L. Davis. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1944

Jan. 26	1.70	Apr. 21	1.83	July 26	1.05	Oct. 9	1.78
Feb. 3	1.60	May 11	1.50	Aug. 24	.35	Nov. 3	2.30
Mar. 9	1.55	June 8	2.05	Sept.14	.70	Dec. 6	2.46

(D-2-1)7bcd 1 (*777, p. 247; *817, p. 442; *840, p. 593; 845, p. 635; 886, p. 864; *910, p. 124; 940, p. 85; 948, p. 95; *990, p. 107). State claim 1530. American Smelting & Refining Co.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	....	21.4	21.5	21.1	21.8	20.8
2	....	21.5	21.5	20.9	21.7	20.6
3	....	21.6	21.6	21.1	21.7	20.9
4	22.0	21.6	21.6	21.2	21.8	21.2
5	....	21.6	21.6	21.3	21.7	21.6
6	....	21.6	21.6	21.4	21.6	21.6
7	22.0	21.5	21.6	21.5	21.4	21.8
8	21.6	21.5	21.7	21.4	21.3	21.9
9	....	21.5	21.7	21.4	21.2	21.9
10	....	21.5	21.7	21.5	21.2	21.9
11	21.6	21.5	21.5	21.4	21.2	21.8
12	21.6	21.5	21.5	21.3	20.9	21.8
13	....	21.5	21.6	21.5	20.6	22.0
14	21.6	21.5	21.3	21.5	20.6	21.8
15	....	21.4	21.3	21.6	20.6	21.7
16	21.5	21.4	21.5	21.6	20.1	21.1
17	21.6	21.4	21.4	21.6	....	20.9
18	21.6	21.4	21.3	21.6	....	20.6
19	21.5	21.4	21.3	21.7	....	20.4

(D-2-1)7bcd 1--Continued.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
20	21.6	21.4	21.3	21.7	....	20.4
21	21.6	21.4	21.3	21.5	....	20.1
22	....	21.4	21.4	21.5	21.1	....
23	21.5	21.4	21.7	21.5	21.1	....
24	21.6	21.5	21.5	21.6	21.1	....
25	21.5	21.5	21.3	21.5	20.6	....
26	21.5	21.5	21.3	21.7	20.3	....
27	....	21.6	21.3	21.7	20.3	....
28	21.5	21.5	21.3	21.7	19.9	....
29	21.5	21.5	21.3	21.7	20.1	....
30	21.4	....	21.1	21.8	20.1	....
31	21.4	....	21.1	....	20.6	....

(D-2-1)8ada 3 (*777, p. 248; *817, p. 442; *840, p. 594; *845, p. 635; 886, p. 865; 910, p. 125; 940, p. 86; 948, p. 95; 990, p. 107). State claim 9757. Chester Cahoon.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.8	7.7	7.9	8.1	7.7	8.5	9.4	9.0	6.1	7.5	9.6	9.3
2	...	7.7	7.7	8.2	8.1	8.6	9.4	8.9	6.6	7.5	9.8	9.3
3	...	7.9	8.1	...	8.1	8.7	9.4	3.1	6.8	8.0	9.9	9.2
4	...	7.8	8.0	8.1	8.2	9.0	9.7	7.0	6.6	8.0	9.9	9.2
5	7.8	7.9	7.9	7.5	8.7	9.3	9.0	8.9	6.4	8.0	9.7	9.3
6	8.0	8.1	7.6	8.0	8.7	9.1	9.5	8.9	6.5	7.9	9.5	9.3
7	8.0	8.0	8.0	8.1	...	9.2	9.3	8.5	6.7	7.5	9.7	9.2
8	8.0	8.1	8.1	8.0	...	9.3	9.4	8.5	6.5	7.3	9.8	9.2
9	8.0	7.8	8.1	7.6	8.7	9.3	9.0	8.3	6.4	7.2	9.8	9.2
10	8.0	7.8	7.6	7.9	...	9.4	9.0	8.0	6.6	3.7	10.0	9.1
11	7.9	7.9	7.6	8.0	...	9.4	8.7	5.0	6.5	4.0	9.7	9.0
12	7.8	7.9	7.7	7.8	...	9.3	8.7	5.3	6.3	3.7	9.7	9.1
13	7.8	8.0	7.7	7.5	...	9.3	9.0	5.6	6.2	3.7	9.5	9.1
14	7.8	7.8	7.6	7.6	...	9.2	8.6	5.2	6.3	3.6	9.5	9.0
15	7.8	7.7	7.5	7.9	...	9.0	9.0	5.2	3.4	3.5	9.5	9.0
16	7.8	...	6.9	7.6	8.1	8.8	9.4	5.4	3.5	...	9.5	9.0
17	7.8	...	7.1	7.9	7.9	8.8	9.4	5.3	3.4	...	9.5	9.0
18	7.8	...	7.0	7.7	8.3	9.0	9.3	6.0	9.1	...	9.5	9.0
19	7.9	...	7.1	7.9	8.4	9.0	9.3	6.7	9.4	7.3	9.5	9.1
20	7.9	...	7.5	7.6	8.6	9.0	9.2	7.2	3.5	7.2	9.5	9.1
21	7.9	...	7.5	7.6	8.7	9.0	9.0	6.9	3.5	7.0	9.4	9.0
22	7.9	7.7	...	7.9	8.7	9.3	9.3	6.0	4.2	7.0	9.5	9.0
23	7.9	8.2	...	8.1	8.7	9.3	9.2	6.0	4.5	7.0	9.5	9.1
24	7.9	8.0	...	8.0	9.0	9.3	9.4	6.0	4.7	7.0	9.5	9.1
25	7.9	7.7	...	7.5	8.3	9.3	9.3	5.8	4.6	9.3	9.4	9.1
26	7.9	8.1	...	8.0	8.6	9.3	9.0	6.0	3.6	9.5	9.3	9.2
27	7.9	8.0	...	8.0	8.6	9.3	9.4	6.4	3.5	9.5	9.4	9.2
28	7.9	8.0	7.8	7.9	8.7	9.3	9.3	6.1	3.4	9.7	9.4	...
29	7.9	8.1	7.2	7.7	8.9	9.4	9.5	5.9	6.7	9.7	9.3	...
30	7.9	...	7.0	7.8	8.4	9.5	9.3	5.8	7.5	9.7	9.3	...
31	7.9	...	8.1	...	9.0	...	9.7	5.7	...	9.6	...	...

(D-2-1)8bbb 1 (*817, p. 443; *840, p. 595; 845, p. 636; 886, p. 866; *910, p. 126; 940, p. 86; 948, p. 96; *990, p. 108). State claim 218. A. B. and T. E. Hogge. Measurements by Salt Lake City Corporation.

Water level, in feet with reference to land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	+0.25	May 11	+0.26	Aug. 11	-2.33	Oct. 27	+0.25
Feb. 5	+.60	July 14	-.70	Sept. 4	-1.37	Nov. 18	+.28
Mar. 2	+.28	31	-.35	25	-2.42	Dec. 5	+.25
Apr. 1	+.20	Aug. 8	-2.75	Oct. 10	-2.15	21	+.28
21	-1.72						

(D-2-1)15acc 1 (*840, p. 595; 845, p. 637; 886, p. 866; 910, p. 127; 940, p. 87; 948, p. 96; *990, p. 108). M. A. Keyser.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	69.24	71.21	72.52	73.51	72.63	64.25	59.73	.....	60.16	62.17	64.10	66.31
2	69.24	71.20	72.52	73.52	71.00	64.25	59.65	58.31	60.27	62.26	64.20	66.31
3	69.24	71.20	72.52	73.52	.....	64.25	59.65	58.61	60.28	62.26	64.20	66.61
4	69.74	71.21	72.55	73.50	.....	64.25	59.65	58.75	60.28	62.35	64.20	66.61
5	69.71	71.31	72.58	73.50	.....	64.25	59.54	58.75	60.28	62.36	64.37	66.61
6	69.56	71.44	72.73	73.50	.....	64.25	59.34	58.66	60.75	62.59	64.40	66.70
7	69.80	71.44	73.07	73.50	.....	62.90	.....	58.59	60.81	62.60	64.50	66.73
8	69.80	71.51	73.08	73.50	.....	62.90	.....	58.59	60.82	62.60	64.80	66.76
9	69.80	.....	73.08	73.49	69.30	62.90	.....	58.63	60.85	62.66	64.80	66.98
10	69.79	71.78	73.05	73.57	.....	.....	.....	58.74	60.92	62.77	64.77	67.08
11	69.93	71.81	73.05	73.60	.....	.....	.....	58.83	60.99	62.77	64.77	67.08
12	69.97	71.80	73.06	73.59	.....	.....	58.00	58.83	61.05	.....	64.79	67.15
13	69.97	71.80	73.03	73.59	.....	.....	57.93	58.83	61.10	.....	65.07	67.33
14	69.97	71.73	73.03	73.59	.....	61.92	57.93	58.78	61.10	.....	65.25	67.30
15	69.97	71.74	73.26	73.59	.....	61.92	57.88	58.85	61.48	.....	65.28	67.29
16	69.97	71.76	73.27	73.55	67.70	61.84	57.88	58.99	61.48	.....	65.28	67.29
17	70.05	71.76	73.23	73.55	.....	61.83	57.88	59.10	61.48	.....	65.28	67.30
18	70.20	71.76	73.19	73.60	.....	.....	57.73	59.11	61.54	63.45	65.28	67.39
19	70.24	71.76	73.19	.....	.....	.....	57.50	59.19	61.54	63.45	65.45	67.46
20	70.24	71.76	73.19	.....	.....	61.07	57.51	59.30	61.67	63.45	65.64	67.63
21	70.24	71.76	73.40	.....	.....	60.75	.....	59.33	61.67	63.52	65.66	67.69
22	70.24	72.12	73.43	.....	.....	.....	.....	59.37	61.87	63.66	65.80	67.69
23	70.23	72.12	73.42	.....	66.25	.....	.....	59.37	61.87	63.85	65.76	67.70
24	70.21	72.13	73.28	.....	.....	60.66	.....	59.44	61.87	63.85	65.70	67.86
25	70.90	72.13	73.28	72.63	.....	60.44	.....	59.71	61.38	63.82	65.79	67.91
26	71.04	72.16	73.29	.....	.....	60.30	57.83	59.82	61.90	63.82	65.79	67.91
27	71.04	72.33	73.29	.....	.....	60.30	.....	59.85	62.15	63.82	76.79	68.20
28	71.17	72.33	73.54	.....	.....	60.12	.....	59.85	62.17	63.83	65.79	68.20
29	71.18	72.54	73.54	.....	64.25	60.07	.....	59.93	62.17	63.83	66.15	68.21
30	71.19	.....	73.54	.....	64.25	59.92	.....	60.13	62.17	63.83	66.28	68.56
31	71.23	.....	73.51	.....	.....	.....	.....	60.16	.....	63.83	.....	68.56

(D-3-1)5cdc 1 (*817, p. 444; 840, p. 596; 845, p. 637; 886, p. 866; 910, p. 127; 940, p. 87; 948, p. 96; *990, p. 109). Sam Jones. Water levels, in feet below land-surface datum, 1944: Apr. 8, 9.13; Dec. 16, 6.60.

San Juan County - San Juan River area

(D-32-23)36dcc (*948, p. 97; *990, p. 109). Frank Redd. No measurements made in 1944.

(D-36-22)27ddb 1 (*948, p. 97; *990, p. 109). M. F. Lyman.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	21.50	Apr. 10	22.0	July 10	19.35	Oct. 12	20.0
28	23.9	27	21.7	25	18.60	25	20.2
Feb. 10	22.0	May 12	22.1	Aug. 10	18.4	Nov. 11	20.6
28	22.7	25	21.45	26	18.9	Dec. 1	20.8
Mar. 11	22.3	June 12	20.30	Sept. 11	21.9	12	21.0
27	22.07	July 1	19.55	27	19.3	27	21.2

(D-36-22)27ddb 2 (*948, p. 97; *990, p. 109). M. F. Lyman.

(D-36-22)27ddb 2--Continued.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	52.05	Apr. 10	52.45	July 10	53.30	Oct. 12	53.25
28	52.20	27	52.56	25	53.00	25	53.20
Feb. 10	52.30	May 12	53.10	Aug. 10	53.10	Nov. 11	53.10
28	52.60	25	52.75	26	53.15	Dec. 1	53.10
Mar. 11	52.45	June 12	52.80	Sept.11	53.10	12	53.50
27	52.50	July 1	53.10	27	53.20	27	53.60

(D-40-22)29bcc (*948, p. 97; *990, p.109). F. A. Nielson. No measurements made in 1944.

Sanpete County - Central Sevier Valley 15/

(C-18-1)13ccc 2 (*817, p. 409; 840, p. 551; 845, p. 637; 886, p. 866; 910, p. 127; 940, p. 87; 948, p. 97; *990, p. 109). Arch Mellor. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 4, 9.7. Measurements discontinued.

(C-19-1)23bcc 1 (*817, p. 410; *840, p. 552; *845, p. 637; 886, p. 866; *910, p 127; 940, p. 87; 948, p. 97; *990, p.109). State claim 1457. C. H. Beal. Water levels, in feet below land-surface datum, 1944: Mar. 19, 35.64; Dec. 4, 29.69.

(C-19-1)25cd 2 (*817, p. 410; 840, p. 552; 845, p. 637; 886, p. 866; 910, p. 127; 940, p. 87; 948, p. 97; *990, p.110). W. J. Wintch and R. P. Dyreng. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 19, 0.01; Dec. 4, 1.07.

(D-20-1)5bd (*886, p. 872; 910, p. 131; 940, p. 90; 948, p. 100; *990, p.112). Federal Land Bank. Water levels, in feet below land-surface datum, 1944: Mar. 19, 24.92; Dec. 4, 16.71.

(D-20-1)20aaa 1 (*817, p. 477; *840, p. 615; *845, p. 642; *886, p. 872; *910, p. 131; 940, p. 90; 948, p. 100; *990, p.112). State claim 6356. Federal Land Bank. Water levels, in feet below land-surface datum, 1944: Mar. 19, 33.94; Dec. 4, 31.58.

(D-14-2)13aa (*817, p. 465; *840, p. 607; 845, p. 637; 886, p. 866; 910, p. 127; 940, p. 87; 948, p. 97; *990, p.110). Ernest Hansen. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 20, 17.4; Dec. 4, 20.0.

(D-14-3)33bcc 1 (*817, p. 465; *840, p. 607; 845, p. 637; 886, p. 867; *910, p. 127; 940, p. 87; 948, p. 97; *990, p.110). State claim 3708. Joseph Cloward. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 20, 5.5; Dec. 4, 5.9.

(D-15-3)8cda 3 (*840, p. 607; 845, p. 637; 886, p. 867; *910, p. 127; 940, p. 87; 948, p. 97; *990, p.110). State claim 13671. William Prestwick. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 20, 3.83; Dec. 4, 2.72.

(D-15-3)28aba 1 (*840, p. 607; 845, p. 638; 886, p. 867; *910, p. 127; 940, p. 87; 948, p. 97; *990, p.110). State claim 2100. Isaac Reynolds. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 20, 3.38; Dec. 4, 2.24.

(D-15-4)4dda 1 (*817, p. 466; *840, p. 607; 845, p. 638; *886, p. 867; 910, p. 127; 940, p. 88; 948, p. 98; *990, p.110). State claim 3606. Twin Creek Irrigation Co. Water levels, in feet below land-surface datum, 1944: Mar. 20, 17.32; Dec. 4, 12.22.

15/ For other wells in this valley see pages 117-118.

(D-15-4)6ada 1 (*840, p. 608; 845, p. 638; 886, p. 867; *910, p. 128; 940, p. 88; 948, p. 98; *990, p.110). State claims 3741 and 8279. W. H. Brinton. Water levels, in feet below land-surface datum, 1944: Mar. 20, 4.20; Dec. 4, 4.88.

(D-15-4)29bac 1 (*817, p. 466; *840, p. 608; 845, p. 638; 886, p. 867; *910, p. 128; 940, p. 88; 948, p. 98; *990, p.110). State claim 8276. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Mar. 20, 5.73; Dec. 4, 1.72.

(D-16-3)4aaa 1 (*817, p. 466; *840, p. 608; 845, p. 638; 886, p. 868; *910, p. 128; 940, p. 88; 948, p. 98; *990, p.110). State claim 2252. J. F. Bagnall. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 20, 7.0; Dec. 4, 6.7.

(D-16-3)14dca 1 (*845, p. 638; 886, p. 868; *910, p. 128; 940, p. 88; 948, p. 98; 990, p.110). State claim 65. Chris Larsen. Water levels, in feet below land-surface datum, 1944: Mar. 20, 12.21; Dec. 4, 12.15.

(D-16-3)15aca 1 (*845, p. 638; 886, p. 868; *910, p. 128; 940, p. 88; 948, p. 98; *990, p.110). State claim 8492. Federal Land Bank. Water level, in feet below land-surface datum, 1944: Dec. 4, 29.21.

(D-16-3)15adc 1 (*845, p. 638; *886, p. 868; *910. p. 128; 940, p. 88; 948, p. 98; *990, p.110). State Application 12588. E. L. Davidson. Water levels, in feet below land-surface datum, 1944: Mar. 20, 50.47; Dec. 4, 46.85.

(D-16-3)32ddc 2 (*817, p. 471; *840, p. 608; *845, p. 639; 886, p. 868; *910, p. 128; 940, p. 88; 948, p. 98; *990, p.111). State claim 11676. George Beal.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.8	12.3	11.7	10.8	....	11.4	16.4	17.6	18.7	17.1	16.9	16.0
2	12.8	12.2	11.8	11.1	10.5	11.4	16.5	17.8	....	17.1	17.0	16.3
3	12.7	12.5	11.8	10.9	10.5	11.4	16.7	17.8	....	17.0	....	15.8
4	12.6	12.2	11.6	10.9	10.6	11.5	17.1	17.8	17.9	17.1	16.6	15.6
5	11.7	12.1	11.5	10.9	10.6	11.6	17.0	18.0	17.1	17.1	16.7	16.6
6	12.6	12.1	11.5	10.9	10.6	11.9	17.1	18.1	16.1	17.1	16.7	18.4
7	12.7	12.3	....	11.0	10.6	12.0	17.1	17.1	15.9	17.2	16.6	18.4
8	11.6	12.1	....	10.8	....	12.2	17.4	....	16.3	17.1	16.6	18.3
9	12.7	12.0	....	10.8	10.3	12.3	17.4	....	16.6	17.1	16.7	18.2
10	12.7	12.0	....	10.8	10.5	12.5	17.5	....	17.0	17.2	16.9	18.0
11	12.7	12.3	....	10.8	10.5	12.5	17.6	....	17.8	17.1	16.8	18.1
12	12.6	12.3	....	10.8	10.6	12.7	17.8	16.8	17.4	17.1	16.6	18.2
13	12.6	12.3	....	10.8	10.6	12.8	18.1	17.6	17.3	17.1	16.5	18.1
14	12.7	12.3	....	10.8	10.6	12.9	17.6	17.9	17.3	17.1	16.8	18.6
15	12.7	12.2	11.6	10.8	10.6	13.3	16.8	18.2	17.3	17.0	16.6	18.3
16	12.6	12.5	11.7	10.8	10.5	13.6	16.0	18.6	17.6	17.1	16.2	18.2
17	12.5	12.3	11.5	10.8	10.6	13.7	15.8	18.7	17.7	17.2	16.8	17.9
18	12.4	11.9	11.5	10.7	10.6	13.7	....	18.7	17.8	17.1	16.5	17.9
19	12.4	11.9	11.2	10.7	10.5	13.9	....	18.8	17.4	17.2	16.2	18.0
20	12.6	11.8	11.2	10.7	10.5	14.0	17.6	18.8	17.3	17.1	16.5	18.0
21	12.5	11.9	11.1	10.7	10.6	....	17.6	18.8	17.6	17.1	16.2	18.0
22	12.7	11.8	11.2	....	10.7	14.9	17.5	18.6	17.5	17.1	16.5	18.0
23	12.6	11.8	11.0	....	10.8	15.1	17.5	18.3	17.5	17.1	16.6	17.8
24	12.5	11.7	....	10.6	10.7	15.1	17.8	18.3	17.3	....	16.7	17.7
25	12.3	11.8	11.1	10.7	10.8	15.2	....	18.3	17.5	17.0	16.3	17.8
26	12.5	12.1	11.1	10.7	10.8	....	....	18.5	17.6	17.1	16.4	17.9
27	12.6	....	11.1	10.6	10.8	....	....	18.6	17.5	17.1	16.1	18.0
28	12.5	....	11.2	10.6	10.9	16.0	17.2	18.7	17.5	17.0	16.1	17.9
29	12.4	....	....	10.5	....	16.2	17.1	18.8	17.8	16.8	16.2	17.6
30	12.5	....	....	10.5	11.3	16.4	16.8	18.8	17.3	16.8	16.1	17.9
31	12.5	....	....	....	....	....	17.2	18.8	....	16.8	....	17.7

(D-16-3)33ccb 1 (*817, p. 470; *840, p. 609; 845, p. 639; *886, p. 869; *910, p. 129; 940, p. 88; 948, p. 99; 990, p.111). State claim 7333. Chris Olsen.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	4.1	Apr. 17	5.1	July 6	0.6	Sept.29	2.8
11	4.3	23	5.1	13	.8	Oct. 7	2.4
21	4.2	May 2	4.9	20	.9	15	2.1
Feb. 7	4.9	9	5.3	28	1.1	25	2.9
15	4.9	16	4.9	Aug. 4	.9	Nov. 3	2.9
23	5.1	23	5.1	12	1.6	11	2.9
Mar. 1	5.7	31	5.6	19	2.0	19	2.9
8	5.1	June 7	1.2	27	2.0	26	2.9
15	5.1	14	.9	Sept. 4	2.1	Dec. 4	2.32
25	5.1	22	.6	11	2.2	20	2.9
Apr. 1	5.3	28	.8	21	2.9	28	2.7
9	5.0						

(D-17-2)1bca 2 (*845, p. 640; 886, p. 869; *910, p. 129; 940, p. 89; 948, p. 99; *990, p.111). State claim 11528. G. A. Anderson. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 5, 6.1.

(D-17-2)36cbd 1 (*817, p. 470; 840, p. 609; *845, p. 640; 886, p. 869; 910, p. 129; 940, p. 89; 948, p. 99; 990, p.111). G. B. Cox. Water level, in feet above land-surface datum, 1944: Dec. 4, 2.56.

(D-17-3)4bcc 1 (*817, p. 471; *840, p. 609; *845, p. 640; 886, p. 869; *910, p. 129; 940, p. 89; 948, p. 99; *990, p.112). State application 11763. R. A. Olsen and others. Well flowing from June 22, 1944, through Dec. 31, 1944.

Water level, in feet below land-surface datum, 1944

Jan. 3	2.5	Feb. 23	4.9	Apr. 9	4.9	May 16	5.1
11	2.2	Mar. 1	5.9	17	5.0	23	5.0
21	3.0	8	6.2	20	4.0	31	4.9
29	3.01	15	6.1	23	5.0	June 7	2.2
Feb. 7	4.00	25	4.9	May 2	5.2	14	1.2
15	4.00	Apr. 1	4.9	9	5.1		

(D-17-3)6dba 1 (*817, p. 474; *840, p. 611; 845, p. 641; *886, p. 870; *910, p. 130; 940, p. 89; 948, p. 99; 990, p.112). State claim 11431. Niels Christensen. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 20, 4.93; Dec. 5, 6.1.

(D-17-3)8cdd 1 (*817, p. 475; *840, p. 611; 845, p. 641; 886, p. 870; *910, p. 130; 940, p. 89; 948, p. 99; *990, p.112). State claim 10498. Stanley Nielsen. Water levels, in feet below land-surface datum, 1944: Mar. 19, 2.95; Dec. 4, flowing. Measurements discontinued.

(D-17-3)9cbd 1 (*817, p. 475; *840, p. 611; 845, p. 641; *886, p. 870; *910, p. 130; 940, p. 89; 948, p. 99; *990, p.112). State claims 4446 and 8260. S. E. Christensen. Water levels, in feet below land-surface datum, 1944: Mar. 19, 37.23; Dec. 4, 25.29.

(D-17-3)17adb 1 (*845, p. 641; 886, p. 871; *910, p. 130; 940, p. 89; 948, p. 99; *990, p.112). State claim 8261. Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Dec. 4, 35.78.

(D-17-3)30dbd 1 (*845, p. 641; 886, p. 871; *910, p. 130; 940, p. 89; 948, p. 99; *990, p.112). State claim 2696. Earnest Monk. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 19, 10.1; Dec. 4, 13.2.

(D-18-2)1da (*817, p. 475; 840, p. 612; 845, p. 642; 886, p. 871; 910, p. 130; 940, p. 89; 948, p. 99; *990, p.112). L. H. Hougaard. Water levels, in feet below land-surface datum, 1944: Mar. 19, 79.14; Dec. 5, 68.02.

(D-18-2)12bab 1 (*817, p. 476; *840, p. 612; *845, p. 642; *886, p. 871; *910, p. 131; 940, p. 90; 948, p. 99; *990, p.112). State claim 13390. City of Manti. Water levels, in feet below land-surface datum, 1944: Mar. 19, 80.05; Dec. 5, 70.20.

(D-19-2)17aad 1 (*817, p. 476; *840, p. 612; *845, p. 642; 886, p. 871; *910, p. 131; 940, p. 90; 948, p. 99; *990, p.112). State claim 13462. W. G. Frischknecht. Water levels, in feet below land-surface datum, 1944: Mar. 19, 6.90; Dec. 4, 2.82.

(D-19-2)32aac 1 (*817, p. 476; *840, p. 612; 845, p. 642; 886, p. 872; *910, p. 131; 940, p. 90; 948, p. 100; *990, p.112). State claim 11881. Mayfield Irrigation Co. Water level, in feet below land-surface datum, 1944: Dec. 4, 29.04.

Sevier County - Central Sevier Valley 16/

(C-21-1)13bda 1 (*817, p. 411; *840, p. 553; 845, p. 643; *886, p. 872; *910, p. 131; 940, p. 90; 948, p. 100; *990, p.113). State claim 5817. Federal Land Bank. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 19, 6.3; Dec. 4, 7.7.

(C-21-1)27aad 1 (*817, p. 411; *840, p. 553; 845, p. 643; 886, p. 872; *910, p. 131; 940, p. 90; 948, p. 100; *990, p.113). State claim 8407. E. A. Thorsen. Water levels, in feet below land-surface datum, 1944: Mar. 19, 3.06; Dec. 4, 2.00.

(C-22-1)8bbd 1 (*817, p. 413; 840, p. 555; 845, p. 643; 886, p. 872; 910, p. 131; *940, p. 90; 948, p. 100; *990, p.113). Max Curtis. Water level, in feet below land-surface datum, 1944: Dec. 4, 29.26.

(C-23-2)1aac 1 (*817, p. 413; *840, p. 556; *845, p. 643; *886, p. 872; *910, p. 131; 940, p. 90; 948, p. 100; *990, p. 113). State claim 16479. U. S. Gypsum Co. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 19, 2.6; Dec. 4, 3.8.

(C-23-2)15bdd 3 (*817, p. 413; *840, p. 556; 845, p. 643; *886, p. 872; *910, p. 132; 940, p. 90; 948, p. 100; *990, p. 113). State claim 1989. Sevier School District. Water levels, in feet above land-surface datum, 1944: Mar. 18, 7.5; Dec. 3, 9.1.

(C-23-2)15ccc 6 (*840, p. 556; 845, p. 643; 886, p. 873; 910, p. 132; 940, p. 91; 948, p. 100; *990, p.113). Martha Avery.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.8	5.8	...	...	2.2	...	3.1	2.8	4.3	5.0	7.2
2	5.7	5.7	...	...	...	...	3.2	2.8	4.1	5.6	7.1
3	...	5.8	...	...	...	...	3.3	2.2	4.4	5.5	7.1
4	...	6.0	...	...	...	...	3.5	2.5	...	5.6	7.2
5	...	5.8	...	...	...	...	3.5	2.4	...	5.6	...
6	6.2	5.7	...	...	...	...	3.5	2.4	4.3	5.6	...
7	5.9	5.6	...	...	...	3.8	3.5	2.5	4.3	...	...
8	5.9	5.5	...	...	...	3.4	3.4	2.6	4.5	...	7.4
9	6.0	5.8	...	...	...	3.2	3.5	2.5	4.5	...	...
10	7.0	5.9	...	...	...	3.1	3.6	2.6	4.7	...	...
11	6.4	5.5	...	...	...	...	...	2.4	4.7	...	...
12	6.3	5.6	...	...	...	...	...	2.4	4.8	...	...
13	6.3	5.6	...	...	...	...	...	2.5	4.8	...	...
14	5.8	...	...	...	...	2.4	...	2.6	4.8	...	...

16/ For other wells in this valley see pages 114-117.

(C-23-2)15ccc 6--Continued.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
15	5.9	...	...	...	...	2.1	...	2.8	4.8	...	...
16	5.8	...	...	...	...	2.0	...	2.8	4.9	...	...
17	5.8	...	...	...	...	2.0	3.9	2.8	4.9	6.0	...
18	5.7	...	5.2	...	...	...	4.1	2.7	5.0	6.0	...
19	5.8	...	5.0	...	...	...	3.9	3.0	5.2	6.0	...
20	6.0	...	5.0	...	...	...	3.8	3.4	5.2	6.0	...
21	6.0	...	4.7	...	3.4	2.1	3.7	3.9	5.2	6.0	...
22	5.9	...	...	...	3.4	2.5	3.7	3.4	5.2	...	...
23	...	...	...	...	3.8	2.0	3.6	3.4	5.2	...	...
24	...	...	...	...	3.8	2.1	3.5	3.4	5.2	...	...
25	...	...	...	...	3.7	2.2	3.0	3.3	5.2	...	...
26	...	...	...	2.5	3.7	2.4	3.1	3.3	5.3	...	...
27	...	...	...	2.0	3.7	2.4	3.0	3.9	5.4	...	...
28	...	...	...	2.0	...	3.2	2.7	4.0	5.3	...	...
29	...	...	...	2.0	...	3.2	2.2	4.4	5.2	...	...
30	...	...	...	2.0	3.7	3.0	2.6	4.3	5.0	...	...
31	...	...	...	2.3	...	3.2	2.8	...	5.0	...	...

(C-23-2)15dcb 4 (*817, p. 414; *840, p. 557; 845, p. 644; 886, p. 873; *910, p. 132; 940, p. 91; 948, p. 101; 990, p.114). State claim 1969. F. M. Jackson. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 18, 8.4; Dec. 3, 9.6.

(C-23-2)19dab 1 (*817, p. 414; *840, p. 557; *845, p. 644; 886, p. 873; *910, p. 132; 940, p. 91; 948, p. 101; 990, p.114). State claim 8447. William Hallows. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 18, 20.00; Dec. 4, 28.1.

(C-23-2)26cdb 1 (*817, p. 414; *840, p. 557; 845, p. 644; 886, p. 873; *910, p. 132; 940, p. 91; 948, p. 101; *990, p.114). State claim 325. N. C. Johnson. Water levels, in feet above land-surface datum, 1944: Mar. 18, 5.4; Dec. 3, 6.1; well flowing prior to measurement.

(C-23-2)31dcb 2 (*817, p. 414; *840, p. 557; *845, p. 644; 886, p. 874; *910, p. 133; 940, p. 91; 948, p. 101; *990, p.114). State claim 3302. Pacific National Life Insurance Co. Water levels, in feet above land-surface datum, 1944: Mar. 18, 7.4; Dec. 3, 9.5.

(C-25-3)3bbd 1 (*817, p. 415; *840, p. 558; 845, p. 644; 886, p. 874; 910, p. 133; 940, p. 91; 948, p. 101; *990, p.114). Luther Winget. Water levels, in feet below land-surface datum, 1944: Mar. 18, 14.68; Dec. 3, 8.82.

(C-25-4)2db (*886, p. 874; 910, p. 133; 940, p. 91; 948, p. 101; *990, p.114). R. W. Pinney. Water levels, in feet below land-surface datum, 1944: Mar. 18, 50.53; Dec. 3, 46.22.

Sevier County - Grass Valley 17/

(C-26-1)23ddb 1 (*817, p. 415; *840, p. 558; 845, p. 645; 886, p. 874; *910, p. 133; 940, p. 91; 948, p. 101; *990, p.114). State claim 12620. A. E. DeLange. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 6, 13.2.

(C-26-1)25acc 1 (*817, p. 416; *840, p. 558; 845, p. 645; 886, p. 875; *910, p. 133; 940, p. 91; 948, p. 101; *990, p.114). State claim 3159. A. R. Brown. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 5, 15.0.

(C-26-1)35acd 1 (*817, p. 416; *840, p. 558; 845, p. 645; 886, p. 874; *910, p. 133; 940, p. 91; 948, p. 101; *990, p.114). State claim 12713. Otto Erickson. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 5, 6.6.

17/ For other wells in this valley see page 104.

(D-25-1)31cba 1 (*817, p. 477; 840, p. 613; 845, p. 645; 886, p. 874; 910, p. 133; *940, p. 91; 948, p. 101; *990, p. 114). Charles Burr. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 5, 2.22.

Summit County - Rhodes Valley

(A-3-4)4 (*845, p. 645; *886, p. 875; 910, p. 133; 940, p. 92; 948, p. 102; 990, p. 114). Thomas Overd. Water levels, in feet below land-surface datum, 1944: Apr. 14, 4.68; Dec. 13, 7.23.

(D-1-4)31bdb 1 (*817, p. 442; *840, p. 592; 845, p. 645; *886, p. 875; 910, p. 134; 940, p. 92; 948, p. 102; *990, p. 114). Theodore Johnson. Water levels, in feet below land-surface datum, 1944: Apr. 14, 9.25; Dec. 13, 9.01.

(D-1-4)31dc (*940, p. 92; 948, p. 102; *990, p. 114). Water level, in feet below land-surface datum, 1944: Dec. 13, 10.65.

(D-1-5)3ccb 1 (*845, p. 645; 886, p. 875; *910, p. 134; 940, p. 92; 948, p. 102; *990, p. 115). State claim 12256. Martin Larsen. Water level, in feet below land-surface datum, 1944: Dec. 13, 25.48.

(D-1-5)4cd (*845, p. 645; *886, p. 875; 910, p. 134; 940, p. 92; 948, p. 102; 990, p. 115). Joe Bean. Water level, in feet below land-surface datum, 1944: Apr. 14, 6.85.

(D-1-6)19dad 1 (*845, p. 646; *886, p. 875; 910, p. 134; 940, p. 92; 948, p. 102; *990, p. 115). State claim 3699. A. W. Frazier. Water levels, in feet below land-surface datum, 1944: Apr. 14, 14.37; Dec. 13, 13.25.

(D-1-6)29daa (*845, p. 646; 886, p. 875; *910, p. 134; 940, p. 92; 948, p. 102; *990, p. 115). State claim 12227. C. C. Mitchell. Measurements discontinued after Sept. 17, 1943.

(D-2-6)5dbb (*845, p. 646; 886, p. 876; 910, p. 134; 940, p. 92; 948, p. 102; *990, p. 115). Burton Peterson. Water levels, in feet below land-surface datum, 1944: Apr. 14, 6.82; Dec. 13, 7.67.

(D-2-6)8aaa (*845, p. 646; 886, p. 876; 910, p. 135; 940, p. 93; 948, p. 102; *990, p. 115). State claim 12248. Ed Rockhill. Water levels, in feet below land-surface datum, 1944: Apr. 14, 11.90; Dec. 13, 12.16.

(D-2-6)17dac (*845, p. 646; *886, p. 876; 910, p. 135; 940, p. 93; 948, p. 102; *990, p. 115). Jack Wilsonhulme. Water levels, in feet below land-surface datum, 1944: Apr. 14, 9.91; Dec. 13, 11.66. Well converted to cesspool; measurements discontinued.

(D-2-6)20ccc (*845, p. 647; 886, p. 876; 910, p. 135; 940, p. 93; 948, p. 102; *990, p. 115). State claim 12231. A. H. Padfield. Water level, in feet below land-surface datum, 1944: Dec. 13, 4.50.

(D-2-6)28ccc 1 (*845, p. 647; 886, p. 876; 910, p. 135; 940, p. 93; 948, p. 102; *990, p. 115). Lillian McNeil. Water levels, in feet below land-surface datum, 1944: Apr. 14, 26.65; Dec. 13, 25.67.

(D-2-6)28ddc (*845, p. 647; 886, p. 876; 910, p. 136; *940, p. 93; 948, p. 103; *990, p. 115). A. D. Prescott. Water levels, in feet below land-surface datum, 1944: Apr. 14, 11.84; Dec. 13, 9.50.

Tooele County - Rush Valley

(C-5-5)2bc (*817, p. 403; 840, p. 547; 845, p. 681; 886, p. 881; 910, p. 140; 940, p. 93; 948, p. 103; *990, p. 116). Alma Young. Water levels, in feet below land-surface datum, 1944: Apr. 8, 23.96; Dec. 31, 23.39.

(C-5-5)30bcb 1 (*845, p. 651; 886, p. 881; 910, p. 140; 940, p. 93; 948, p. 103; *990, p. 116). State claim 8286. Willard Sager. Water levels, in feet below land-surface datum, 1944: Apr. 8, 11.66; Dec. 31, 12.26.

(C-5-5)31db 1 (*940, p. 93, 948, p. 103; *990, p. 116). Water levels, in feet below land-surface datum, 1944: Apr. 8, 20.53; Dec. 31, 20.57.

(C-5-5)32add 1 (*940, p. 93; 948, p. 103; *990, p.). Published as (C-5-5)32adb in Water-Supply Papers 940 and 948. Water levels, in feet below land-surface datum, 1944: Apr. 8, 29.92; Dec. 31, 30.52.

(C-5-5)32add 2. Stookey Bros. Unused well, diameter 2 inches, depth 1,004 feet. Measuring point, top of casing, level with land-surface datum. Water levels, in feet below land-surface datum, 1944: Apr. 8, 2.82; Dec. 31, 2.70.

(C-7-5)4da (*940, p. 94; 948, p. 103). Measurements discontinued after Mar. 23, 1942.

(C-8-5)20dc (*940, p. 94; 948, p. 103; *990, p.116). Water levels, in feet below land-surface datum, 1944: Apr. 8, 7.27; Dec. 31, 9.11.

(C-8-5)30ccc (*940, p. 94; 948, p. 103; *990, p.116). State claim 1573. H. I. Yates. Water levels, in feet below land-surface datum, 1944: Apr. 8, 6.66; Dec. 31, 8.91.

(C-8-5)31aad (*940, p. 94; 948, p. 103; 990, p.116). D. J. Fredrickson. Water levels, in feet below land-surface datum, 1944: Apr. 8, 19.73; Dec. 31, 19.92.

(C-8-6)23cd (*940, p. 94; 948, p. 103; *990, p.116). Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 8, 1.75; Dec. 31, 1.77.

(C-8-6)26aaa 1 (*817, p. 405; *840, p. 548; 845, p. 651; 886, p. 881; *910, p. 141; 940, p. 94; 948, p. 103; *990, p.116). State claim 1415. J. E. Olson. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 3, 20.4; Dec. 31, 29.4.

(C-9-5)6bca 1 (*817, p. 405; *840, p. 549; 845, p. 651; *886, p. 882; *910, p. 141; 940, p. 94; 948, p. 103; 990, p.116). State claim 8285. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Apr. 8, 18.26; Dec. 31, 17.98.

Tooele County - Salt Lake Desert

(C-7-10)25cc (*886, p. 882; *910, p. 140; 940, p. 94; 948, p. 104) Grazing Service, U. S. Dept. of Interior. No measurements made in 1944.

(C-7-10)25c (*948, p. 104). Dugway Proving Ground. No measurements made in 1944.

Tooele County - Tooele Valley

Burmester District

(C-2-4)16aad 2 (*940, p. 96; 948, p. 104; *990, p.117). State claim 14209. Utah Wool Pulling Co. Water levels, in feet below land-surface datum, 1944: Apr. 7, 6.32; Dec. 31, 5.71.

(C-2-4)17dad 1 (*817, p. 399; 840, p. 544; 845, p. 647; 886, p. 877; *910, p. 136; 940, p. 96; 948, p. 104; *990, p.117). E. J. Jeremy. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 7, 23.4; Dec. 31, 23.8.

(C-2-5)5acc 3 (*940, p. 109; 948, p. 108). A. Searle. Measuring point is 1.0 foot above land-surface datum, Water level, in feet below land-surface datum, 1944: Dec. 31, 1.34.

(C-2-5)25aab 1 (*817, p. 400; 840, p. 546; 845, p. 650; *886, p. 879; *910, p. 138; 940, p. 111; 948, p. 108; *990, p.119). State of Utah. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 7, 11.1; Dec. 31, 10.8.

(C-2-5)27ccd 3 (*940, p. 112; 948, p. 108; 990, p.119). State claim 17008. Edwin Cassity. Water levels, in feet below land-surface datum, 1944: Apr. 7, 0.70; Dec. 31, 0.76.

(C-2-5)29dcc 1 (*840, p. 546; *845, p. 650; 886, p. 880; *910, p. 138; 940, p. 112; 948, p. 108). State application 12227. J. R. Clark. Measurements discontinued after Dec. 15, 1942.

(C-2-5)29dcc 5 (*840, p. 546; 845, p. 650; 886, p. 880; *910, p. 139; 940, p. 112; 948, p. 108; 990, p. 119). State claim 4672. J. R. Clark. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 7, 11.6; Dec. 31, 12.7.

(C-2-6)23cbb 1 (*940, p. 116; 948, p. 109; *990, p. 120). State claim 16776. C. H. Worthington. Water levels, in feet below land-surface datum, 1944: Apr. 7, 2.87; Dec. 31, 2.70.

(C-3-5)4bbb 1 (*940, p. 119; 948, p. 110). Stanley Stromberg. Measuring point is 6.0 feet below land-surface datum. Water level, in feet below land-surface datum, 1944: Dec. 31, 6.05.

Tooele County - Tooele Valley

Erda District

(C-2-4)27ccb 1 (*940, p. 97; 948, p. 105). State claim 902. V. J. Crocheron. Measuring point is 1.0 foot above land-surface datum. Water level, in feet above land-surface datum, 1944: Dec. 31, 4.9.

(C-2-4)31dad 1 (*940, p. 102; 948, p. 105; 990, p. 117). State claim 6924. E. R. Nelson. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 7, 10.3; Dec. 31, 9.9.

(C-2-4)31dad 2 (*940, p. 103; 948, p. 105). State application 14298. Utah Water Storage Commission. Measuring point is 1.5 feet above land-surface datum. Water level, in feet above land-surface datum, 1944: Dec. 31, 10.3.

(C-2-4)31dbc 6 (*940, p. 104; 948, p. 105; *990, p. 117). State claim 19253. Smith & Dillard. Water levels, in feet below land-surface datum, 1944: Apr. 7, 4.65; Dec. 31, 4.94.

(C-2-4)31dbc 7 (*940, p. 104; 948, p. 105; *990, p. 117). State claim 7035. Smith & Dillard. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 7, 2.6; Dec. 31, 2.27. Measurements discontinued.

(C-2-4)31dca 1 (*948, p. 106; *990, p. 117). State claim 15160. State of Utah.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	....	....	3.53	3.27	2.94	2.73	2.71	2.92	4.02
2	a 4.63	....	....	....	3.57	3.23	2.94	2.71	2.70	2.92	4.05
3	....	....	....	....	3.50	3.21	2.89	2.67	2.71	2.94	....
4	....	....	....	....	3.44	3.22	2.88	2.66	2.75	2.98	....
5	....	....	....	....	3.42	3.19	2.90	2.67	2.75	3.00	....
6	....	....	....	....	3.44	3.16	2.90	2.68	2.70	3.01	....
7	....	a 4.98	a 4.95	....	3.44	3.15	2.89	2.67	2.72	2.99	....
8	....	....	....	....	3.52	3.13	2.89	2.66	2.78	2.96	....
9	a 4.63	....	....	....	3.53	3.11	2.85	2.68	2.74	3.03	....
10	....	....	....	....	3.39	3.08	2.81	2.67	2.74	3.05	....
11	....	....	....	....	3.41	3.06	2.79	2.66	2.76	3.04	....
12	....	....	....	....	3.41	3.02	2.81	2.68	2.78	3.07	....
13	....	....	....	....	3.41	3.02	2.80	2.70	2.79	3.01	....
14	....	....	....	a 4.54	3.42	3.01	2.81	2.69	2.78	2.97	....
15	....	....	....	....	3.40	3.02	2.78	2.63	2.78	3.00	....
16	....	....	....	....	3.40	2.99	2.77	2.68	2.77	3.02	....
17	....	....	....	....	3.34	2.98	2.78	2.73	2.78	3.04	....
18	....	....	....	....	3.34	3.00	2.78	2.67	2.79	3.13	....
19	....	....	....	....	3.35	2.96	2.76	2.67	2.80	3.09	....
20	....	....	....	a 3.83	3.35	3.00	2.75	2.67	2.81	3.07	....

a Tape measurement.

(C-2-4)31dca 1--Continued.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	....	....	....	3.79	3.35	2.97	2.76	2.72	2.82	3.08	....
22	....	....	....	3.80	3.28	2.96	2.77	2.64	2.78	3.10	....
23	....	....	....	3.71	3.29	3.00	2.79	2.68	2.79	3.20	....
24	a 4.71	....	....	3.69	3.28	3.01	2.79	2.71	2.80	3.22	....
25	....	....	....	3.67	3.29	2.99	3.05	2.71	2.80	3.15	....
26	....	....	....	3.65	3.28	2.96	2.78	2.78	2.79	3.55	....
27	....	....	....	3.62	3.22	2.95	2.73	2.71	2.80	3.69	....
28	....	a 4.95	....	3.60	3.19	2.95	2.72	2.71	2.83	3.92	....
29	....	....	....	3.58	3.20	2.96	2.71	2.76	2.84	3.96	....
30	....	....	....	3.58	3.25	2.98	2.71	2.74	2.86	3.99	....
31	....	....	....	3.55	....	2.95	2.76	....	2.91	....	....

a Tape measurement.

(C-2-4)32bcc 1 (*817, p. 399; *840, p. 544; 845, p. 648; *886, p. 877; *910, p. 137; 940, p. 106; 948, p. 106). State claim 578. R. A. Fenton. Measuring point is 2.4 feet above land-surface datum. Water level, in feet above land-surface datum, 1944: Dec. 31, 21.4.

(C-2-4)33aac 2 (*817, p. 399; *840, p. 544; 845, p. 648; 886, p. 877; *910, p. 137; *940, p. 107; 948, p. 106; *990, p.118). State claim 888. I. L. Clegg. Water levels, in feet below land-surface datum, 1944: Apr. 7, 4.16; Dec. 31, 3.88.

(C-2-4)33abb 2 (*817, p. 400; *840, p. 545; 845, p. 648; 886, p. 878; *910, p. 137; 940, p. 107; 948, p. 108; *990, p.118). State claim 806. L. T. Liddell.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	10.25	Apr. 9	10.02	July 9	5.79	Oct. 8	6.69
9	10.42	17	10.96	16	5.77	14	6.51
23	10.55	23	10.71	22	5.71	22	7.10
29	10.55	30	10.77	30	5.98	31	7.27
Feb. 6	10.59	May 7	10.33	Aug. 6	6.06	Nov. 11	7.69
13	10.42	14	8.12	13	5.94	18	8.75
21	10.73	20	8.00	19	6.85	25	9.92
28	10.75	28	7.37	27	5.35	Dec. 4	10.37
Mar. 6	10.67	June 5	7.46	Sept. 3	5.42	11	10.54
14	10.87	11	9.66	10	5.59	17	10.81
18	10.81	18	8.59	18	5.95	25	10.75
25	10.92	25	8.50	24	5.98	31	10.89
Apr. 2	10.87	July 2	6.75	Oct. 1	6.13		

(C-2-4)33abb 4 (*817, p. 400; *840, p. 545; 845, p. 648; 886, p. 878; 910, p. 137; 940, p. 107; 948, p. 107; *990, p.118). State claim 808. L. T. Liddell.

Water level, in feet above land-surface datum, 1944

Jan. 2	12.79	Apr. 9	13.43	July 9	8.79	Oct. 8	9.25
9	12.77	17	14.06	16	8.29	14	9.50
23	12.93	23	13.29	22	8.58	22	9.79
29	12.89	30	13.37	30	8.70	31	9.54
Feb. 6	12.95	May 7	12.54	Aug. 6	8.58	Nov. 11	9.89
13	13.02	14	10.52	13	8.81	18	10.58
21	13.06	20	10.31	19	8.70	25	11.85
28	13.04	28	9.79	27	8.41	Dec. 4	12.31
Mar. 6	13.06	June 5	9.81	Sept. 3	8.49	11	12.45
14	13.33	11	10.87	10	8.56	17	12.64
18	13.19	18	10.93	18	8.64	25	13.19
25	13.37	25	10.93	24	8.87	31	13.27
Apr. 2	13.27	July 2	9.33	Oct. 1	8.98		

(C-2-4)33add 1 (*840, p. 545; 845, p. 649; 886, p. 879; *910, p. 138; 940, p. 108; 948, p. 107; *990, p.119). State claim 899. Ida L. Clegg.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.73	37.59	37.30	37.26	37.16	38.47	38.44	39.34	39.65	39.30	38.72	37.45
2	37.68	37.61	37.34	37.29	37.22	38.48	38.68	39.36	39.66	39.31	38.69	37.46
3	37.69	37.55	37.37	37.28	37.25	38.53	38.80	39.45	39.65	39.28	38.68	37.49
4	37.78	37.62	37.28	37.17	37.22	38.60	38.83	39.44	39.66	39.24	38.65	37.48
5	37.71	37.60	37.33	37.20	37.14	38.51	38.87	39.43	39.65	39.25	38.67	37.44
6	37.74	37.54	37.38	37.22	37.13	38.47	38.95	39.35	39.62	39.27	38.61	37.48
7	37.90	37.48	37.42	37.17	37.26	38.20	39.03	39.31	39.61	39.22	38.63	37.33
8	37.86	37.45	37.44	37.10	37.29	38.03	39.00	39.29	39.63	.....	38.65	37.31
9	37.73	37.47	37.39	37.16	37.32	38.12	39.07	39.34	39.61	.....	38.57	37.32
10	37.67	37.63	37.34	37.20	37.33	38.14	39.08	39.36	39.60	39.08	38.47	37.30
11	37.76	37.56	37.34	37.15	37.59	38.09	39.13	39.37	39.59	39.06	38.49	37.25
12	37.80	37.52	37.29	37.16	37.66	38.08	39.13	39.37	39.60	39.03	38.45	37.26
13	37.71	37.48	37.35	37.12	37.78	38.07	39.18	39.46	39.60	39.00	38.51	37.24
14	37.82	37.40	37.30	37.15	37.91	38.04	39.17	39.32	39.60	39.02	38.52	37.18
15	37.82	37.50	37.38	37.18	37.98	38.03	39.20	39.38	39.66	39.02	38.47	37.15
16	37.82	37.46	37.37	37.10	37.98	38.05	39.20	39.42	39.60	39.04	38.39	37.14
17	37.78	37.50	37.38	37.11	38.03	38.12	39.22	39.45	39.52	39.02	38.25	37.12
18	37.80	37.48	37.32	37.14	38.09	38.10	39.28	39.52	39.55	39.01	38.18	37.10
19	37.75	37.46	37.21	37.12	38.10	38.10	39.25	39.49	39.49	39.00	38.18	37.04
20	37.65	37.42	37.26	37.15	38.13	28.10	39.22	39.59	39.52	38.96	38.10	37.01
21	37.54	37.40	37.33	37.20	38.03	38.05	39.27	39.57	39.47	38.90	38.06	36.96
22	37.52	37.45	37.32	37.25	38.03	38.13	39.28	39.59	39.54	38.87	37.99	36.86
23	37.45	37.44	37.31	37.15	38.12	38.12	39.28	39.58	39.45	38.88	37.78	36.95
24	37.53	37.41	37.29	37.08	38.17	38.11	39.28	39.58	39.42	38.85	37.70	36.95
25	37.61	37.38	37.17	37.08	38.21	38.10	39.30	39.64	39.38	38.84	37.75	36.95
26	37.59	37.40	37.27	37.14	38.28	38.07	39.32	39.65	39.36	38.84	37.66	36.92
27	37.56	37.43	37.34	37.06	38.31	38.38	39.34	39.62	39.36	38.82	37.62	36.89
28	37.65	37.39	37.35	37.09	38.34	38.43	39.34	39.58	39.34	38.78	37.65	36.78
29	37.61	37.39	37.30	37.17	38.43	38.45	39.37	39.65	39.29	38.76	37.57	36.83
30	37.62	.....	37.26	37.20	38.44	38.47	39.27	39.66	39.29	38.74	37.56	36.86
31	37.62	.....	37.22	.....	38.46	.....	39.34	39.60	.....	38.70	.....	36.86

(C-2-4)33bcb 2 (*940, p. 109; 948, p. 108). State claim 16796. Franklin Whitehouse. Water level, in feet above land-surface datum, 1944: Dec. 31, 0.04.

Tooele County - Tooele Valley

Grantsville District

(C-2-5)19dcc 1 (*840, p. 546; *845, p. 650; 886, p. 879; 910, p. 138; 940, p. 110; 948, p. 108; *990, p.119). G. L. Sutton. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 7, 4.1; Dec. 31, 3.8.

(C-2-5)31bbd 3 (*840, p. 546; *845, p. 650; *886, p. 880; *910, p. 139; 940, p. 113; 948, p. 108; *990, p.120). State claim 17112. Tony Castagno. Water levels, in feet above land-surface datum, 1944: Apr. 7, 16.2; Dec. 31, 15.7. Well flowing prior to measurement.

(C-2-6)36baa 8 (*817, p. 401; 840, p. 547; 845, p. 651; *886, p. 880; 910, p. 139; 940, p. 118; 948, p. 109; *990, p.120). State claim 16575. J. R. Clark. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 7, 5.5; Dec. 31, 5.8.

(C-2-6)36bac 1 (*940, p. 118; 948, p. 109; *990, p.120). State application 12189. J. R. Clark. Water levels, in feet below land-surface datum, 1944: Apr. 7, 21.48; Dec. 31, 20.84.

(C-2-6)36cdd 1 (*840, p. 547; 910, p. 140; 940, p. 118; 948, p. 109; *990, p.120). E. C. Walk.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	79.90	80.05	80.03	79.78	79.28	77.75	76.36	77.10	77.73	78.35	78.71	78.89
2	79.89	80.05	80.02	79.77	79.30	77.68	76.39	77.12	77.86	78.35	78.73	78.90
3	79.91	80.02	80.03	79.76	79.29	77.65	76.42	77.17	77.88	78.37	78.73	78.93
4	79.96	80.05	80.00	79.72	79.25	77.59	76.41	77.18	77.90	78.40	78.73	78.94
5	79.93	80.05	80.06	79.71	79.21	77.56	76.32	77.19	77.91	78.44	78.72	78.94
6	79.94	80.05	80.06	79.71	79.16	77.45	76.43	77.19	77.92	78.47	78.71	78.94
7	79.96	80.05	80.08	79.67	79.14	77.39	76.44	77.22	77.95	78.46	78.73	78.94
8	79.93	80.03	80.07	79.63	79.09	77.22	76.44	77.24	77.97	78.44	78.75	78.94
9	79.92	80.05	80.06	79.62	79.03	77.25	76.46	77.28	77.99	78.50	78.73	78.96
10	79.93	80.10	80.02	79.60	79.00	77.20	76.48	77.33	78.00	78.50	78.72	78.98
11	79.97	80.04	80.03	79.59	78.98	77.11	76.51	77.39	78.02	78.50	78.76	78.98
12	79.97	80.03	79.98	79.57	78.93	77.15	76.53	77.41	78.03	78.50	78.73	78.99
13	79.94	80.03	80.00	79.57	78.88	76.97	76.56	77.44	78.03	78.50	....	78.99
14	79.92	80.01	80.00	79.58	78.86	76.89	76.58	77.47	78.05	78.52	78.83	78.96
15	79.94	80.05	.....	79.55	78.80	76.83	76.59	77.50	78.10	78.54	78.83	78.96
16	79.95	80.02	.....	79.52	78.74	76.75	76.62	77.54	78.11	78.55	78.83	78.94
17	79.94	80.04	.....	79.55	78.73	76.73	76.66	77.56	78.13	78.56	78.84	78.96
18	79.97	80.03	.....	79.54	78.66	76.63	76.70	77.58	.....	78.57	78.84	78.97
19	79.97	80.01	.....	79.52	78.60	76.57	76.75	77.59	78.16	78.57	78.88	78.95
20	79.94	79.98	79.96	79.47	78.53	76.50	76.76	77.58	78.19	78.58	78.89	78.94
21	79.96	79.97	79.98	79.48	78.42	76.47	76.75	77.60	78.18	78.59	78.90	78.93
22	79.96	80.01	79.97	79.48	78.37	76.52	76.80	77.60	78.24	78.64	78.89	78.90
23	79.93	80.00	79.92	79.42	78.35	76.46	76.80	77.60	78.23	78.66	78.84	78.92
24	79.97	79.98	79.92	79.39	78.28	76.44	76.82	77.61	78.23	78.66	78.86	78.93
25	80.02	80.01	79.86	79.40	78.21	76.41	76.88	77.67	78.25	78.66	78.91	78.93
26	80.01	80.00	79.96	79.37	78.15	76.38	76.89	77.69	78.26	78.68	78.88	78.93
27	80.03	80.01	79.90	79.33	78.07	76.40	76.95	77.71	78.28	78.69	78.88	78.94
28	80.04	80.02	79.89	79.32	77.99	76.40	76.97	.....	78.30	78.69	78.92	78.90
29	80.04	80.00	79.84	79.31	77.94	76.39	77.01	77.75	78.21	78.70	78.88	78.96
30	80.05	.....	79.81	79.29	77.87	76.38	77.03	77.77	78.32	78.69	78.90	78.99
31	80.05	.....	79.78	.....	77.78	.....	77.06	77.77	.....	78.70	.....	79.00

(C-2-6)36dba 1 (*940, p. 119; 948, p. 110). LeMoyne Rowberry. Measuring point is 1.5 feet below land-surface datum. Water level, in feet below land-surface datum, 1944: Dec. 31, 30.25.

(C-3-5)5bbb 1 (*948, p. 110; *990, p.121). State claim 15330. R. W. Brown. Water levels, in feet below land-surface datum, 1944: Apr. 7, 0.73; Dec. 31, 0.60.

(C-3-5)6acb 1 (*940, p. 120; 948, p. 110; *990, p.121). State claim 13584. L. W. Hale. Water levels, in feet below land-surface datum, 1944: Apr. 7, 39.79; Dec. 31, 39.05.

(C-3-5)6dda 1 (*940, p. 121; 948, p. 111; *990, p.121). State claim 9952. Federal Land Bank. Water levels, in feet below land-surface datum, 1944: Apr. 7, 54.50; Dec. 31, 54.76.

Tooele County - Tooele Valley

Lake Point District

(C-1-4)36bcb 1 (*817, p. 396; *840, p. 543; 845, p. 647; 886, p. 877; 910, p. 136; 940, p. 95; 948, p. 104; 990, p.116). State claim 13593. A. J. Williams. Water level, in feet above land-surface datum, 1944: Dec. 31, 10.7.

(C-2-4)1bcc 1 (*940, p. 95; 948, p. 104; *990, p.116). Jesse Long. Water levels, in feet below land-surface datum, 1944: Apr. 7, 35.30; Dec. 31, 33.00.

(C-2-4)2aba 2 (*840, p. 544; 845, p. 647; 886, p. 877; 910, p. 136; 940, p. 95; 948, p. 104; *990, p.117). State claim 6997. B. D. Davis. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Apr. 7, 6.2; Dec. 31, 9.0.

(C-2-4)3dcc 1 (*940, p. 96; 948, p. 104; *990, p.117). Nick Soter. Water levels, in feet below land-surface datum, 1944: Apr. 7, 4.22; Dec. 31, 4.09.

Tooele County - Tooele Valley

Marshall District

(C-2-5)34add 1 (*940, p. 114; 948, p. 109; *990, p.120). State application 13537. B. H. Woodward. Water levels, in feet above land-surface datum, 1944: Apr. 7, 10.0; Dec. 31, 9.7; well flowing prior to measurement.

(C-2-5)36caa 1 (*840, p. 546; 845, p. 650; 886, p. 880; *910, p. 139; 940, p. 115; 948, p. 109; 990, p.120). State claim 13692. J. A. and S. W. Smith. Water levels, in feet below land-surface datum, 1944: Apr. 7, 31.87; Dec. 31, 32.78.

Uintah County - Uinta Basin 18/

U(B-1-1)2ca 2 (*817, p. 477; 840, p. 613; 845, p. 652; 886, p. 893; 910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). Jay Larsen. Water level, in feet below land-surface datum, 1944: Nov. 4, 25.34.

U(D-1-1)14bbc 1 (*817, p. 479; *840, p. 615; 845, p. 652; *886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). State claim 1868. George Hackford. Water level, in feet below land-surface datum, 1944: Nov. 4, 13.35.

U(D-1-1)19cc (*817, p. 479; 840, p. 615; 845, p. 652; 886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). Bennett School. Water level, in feet below land-surface datum, 1944: Nov. 4, 7.00.

U(D-1-1)23ab (*817, p. 479; 840, p. 615; 845, p. 652; 886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). Albert Daniels. Water level, in feet below land-surface datum, 1944: Nov. 4, 12.99.

(D-3-21)17cda 1 (*817, p. 445; *840, p. 596; *845, p. 652; *886, p. 894; *910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). State claim 6641. M. M. Bingham. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Nov. 4, 8.0.

(D-3-21)30dc (*817, p. 445; *840, p. 596; 845, p. 652; 886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). State claim 2629. R. G. Alexander. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Nov. 4, 3.27.

(D-4-21)2bcd 1 (*886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). Gibson Ranch Co. Water level, in feet below land-surface datum, 1944: Nov. 4, 7.77.

(D-4-21)12acc 1 (*886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). Lonzo McCarl. Water level, in feet below land-surface datum, 1944: Nov. 4, 9.35.

(D-4-21)15ddd 1 (*886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). Bill Hall. Water level, in feet below land-surface datum, 1944: Nov. 4, 1.21. Measurements discontinued.

(D-4-21)24dbb 1 (*886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p.121). State claim 6931. Peter Erickson. Water level, in feet below land-surface datum, 1944: Nov. 4, 3.66.

18/ For other wells in this basin see pages 76-78.

Utah County - Cedar Valley

(C-6-2)29cac 1 (*990, p.122). Marsh Williams. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 24, 3.42; Dec. 28, 5.5.

(C-6-2)32baa 2 (*817, p. 405; 840, p. 548; *845, p. 652; *886, p. 882; *910, p. 142; 940, p. 122; 948, p. 111; *990, p.122). State claim 17686. W. C. Thomas. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 24, 3.28; Dec. 28, 5.5.

Utah County - Goshen Valley

(C-9-1)26dcb 1 (*817, p. 405; *840, p. 548; *845, p. 652; 886, p. 882; 910, p. 142; 940, p. 122; 948, p. 112; *990, p.122). State claim 17465. R. C. Lewis. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 8, 3.33; Dec. 12, 3.95.

(C-10-1)2aad 1 (*845, p. 652; 886, p. 882; 910, p. 142; 940, p. 122; 948, p. 112; *990, p.122). State claim 5206. Albert Morgan. Water levels, in feet below land-surface datum, 1944: Mar. 8, 12.70; Dec. 12, 12.53.

(D-9-1)29cdd 1 (*845, p. 665; *886, p. 893; 910, p. 152; 940, p. 122; 948, p. 112; *990, p.122). Water levels, in feet below land-surface datum, 1944: Mar. 8, 26.97; Dec. 12, 25.04.

Utah County - Utah Lake Valley

North Utah Basin

(C-5-1)2daa 1 (*910, p. 141; 940, p. 122; 948, p. 112; *990, p.122). State claims 10922, 10923, and 10924. O. J. Roberts. Measurements by Utah State Engineer except on Mar. 25 and Dec. 28.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	18.70	Apr. 17	19.16	July 24	16.37	Oct. 2	17.72
26	18.15	22	18.48	31	15.99	9	17.43
Feb. 8	18.88	27	18.37	Aug. 7	16.15	16	16.59
15	18.89	May 22	16.52	14	16.09	23	16.68
Mar. 6	17.43	June 5	15.49	21	16.38	30	16.12
14	17.67	13	15.26	28	16.47	Nov. 6	16.42
20	18.22	20	14.99	Sept. 5	15.57	13	16.45
25	17.36	27	15.76	11	15.96	20	15.82
30	18.50	July 3	15.88	18	17.49	28	15.54
Apr. 3	18.67	10	15.63	25	16.91	Dec. 28	16.49
13	18.89	17	15.44				

(D-5-1)8aaa 1 (*910, p. 142; 940, p. 122; 948, p. 112; *990, p.122). State claim 11095. Lehi Irrigation Co. Water level, in feet below land-surface datum, 1944: Dec. 28, 30.17.

(D-5-1)9ccc 3 (*817, p. 446; *840, p. 596; *845, p. 652; 886, p. 882; 910, p. 142; 940, p. 122; 948, p. 112; *990, p.123). State claim 16332. E. N. Webb. Water levels, in feet above land-surface datum, 1944: Mar. 25, 7.2; Dec. 28, 7.6.

(D-5-1)9cdc 2 (*817, p. 446; *840, p. 598; 845, p. 653; *886, p. 882; 910, p. 142; *940, p. 122; 948, p. 112; *990, p.123). State claim 10991. Lehi Irrigation Co. Measurements discontinued after Dec. 28, 1943.

(D-5-1)9dbb 1 (*817, p. 446; *840, p. 598; 845, p. 653; 886, p. 882; 910, p. 142; 940, p. 122; 948, p. 112; *990, p.123). State claim 11083. City of Lehi. Measurements by Utah State Engineer except those on Mar. 25 and Dec. 28.

(D-5-1)9dbb 1-Continued.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	13.01	Mar. 25	12.30	June 27	12.53	Sept. 18	16.16
13	12.97	30	13.73	July 3	12.38	25	15.82
19	13.18	Apr. 3	13.89	10	12.12	Oct. 2	16.27
26	13.39	13	14.22	17	12.86	9	15.87
Feb. 1	13.69	17	14.15	24	13.53	16	15.48
8	14.03	22	13.27	31	14.72	23	15.21
15	14.16	27	13.37	Aug. 7	16.16	30	14.97
21	14.22	May 8	13.63	14	16.81	Nov. 6	14.25
28	13.23	22	13.48	21	16.62	13	13.92
Mar. 6	11.81	June 5	12.83	28	17.02	20	13.66
14	12.25	13	12.48	Sept. 5	16.90	28	12.93
20	12.96	20	12.26	11	16.57	Dec. 28	11.11

(D-5-1)14adb 1 (*840, p. 598; 845, p. 653; 886, p. 883; 910, p. 142; 940, p. 122; 948, p. 112; *990, p. 123). State claim 8371. Drought Relief Administration.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	58.90	58.47	58.14	58.57	59.18	57.90	55.15	55.27	55.77	.....	55.82	.....
2	58.84	58.49	58.11	58.70	59.29	57.63	55.06	55.26	55.89	55.90	55.82	56.02
3	58.74	58.40	58.12	58.70	59.41	57.60	55.03	55.39	55.90	55.90	55.85	56.20
4	58.95	58.27	58.13	58.58	59.40	57.75	55.07	55.31	55.81	55.79	55.77	56.43
5	58.90	58.45	58.14	.....	59.29	57.76	54.99	55.36	.....	55.75	55.72	56.51
6	58.65	58.52	58.39	.....	59.15	57.60	55.09	55.28	56.00	55.92	55.72	56.36
7	58.97	58.32	58.53	.....	59.10	57.34	54.93	55.35	56.05	55.94	55.83	56.29
8	58.94	58.21	58.47	.....	59.15	56.99	55.01	55.40	56.17	55.77	56.04	56.25
9	.....	58.98	58.37	.....	59.14	57.06	55.00	55.50	56.14	55.87	55.92	56.45
10	.....	58.49	58.16	.....	59.23	57.14	55.11	55.60	56.07	55.94	55.80	56.54
11	58.72	58.51	58.10	.....	59.41	.....	55.18	55.64	56.08	55.92	55.79	56.49
12	58.93	58.29	57.95	.....	59.53	56.88	55.20	55.53	56.07	55.87	55.65	56.55
13	58.93	58.27	57.86	.....	59.46	56.73	55.19	55.54	56.08	55.80	55.91	56.58
14	58.77	.....	58.07	.....	59.45	56.53	55.27	55.53	55.88	55.83	56.11	56.44
15	58.64	58.26	58.39	.....	59.38	56.51	55.26	55.82	56.16	55.90	56.09	56.35
16	58.76	58.22	58.43	.....	59.32	56.43	55.25	55.79	56.06	55.96	56.02	56.30
17	58.70	58.22	58.21	.....	59.44	56.43	55.22	.....	56.06	55.93	56.01	56.25
18	58.83	58.27	58.24	.....	59.44	56.36	55.31	55.75	56.03	55.89	55.98	56.35
19	58.87	58.25	58.16	58.97	59.44	56.11	55.30	55.89	56.08	55.83	56.08	56.14
20	58.70	58.13	58.13	58.86	59.44	55.85	55.19	55.72	56.07	55.83	56.25	56.14
21	58.49	.....	58.34	59.15	59.30	55.77	55.20	55.76	55.93	55.80	56.28	56.17
22	58.52	.....	.....	59.41	59.07	55.84	55.05	55.65	56.10	.....	56.25	55.97
23	58.23	57.93	58.42	59.35	59.11	55.79	55.11	55.69	56.10	.....	55.97	.....
24	57.96	58.17	58.14	59.07	59.10	55.61	54.96	55.55	55.96	55.93	55.77	55.91
25	58.28	58.14	58.14	.....	58.97	55.47	54.98	55.64	55.77	55.90	56.19	56.02
26	58.43	58.06	58.38	59.27	58.89	55.19	55.04	55.96	55.84	55.95	56.19	55.97
27	58.44	58.05	58.52	59.05	58.73	55.26	55.21	56.03	55.85	56.03	56.13	55.98
28	58.56	58.10	58.71	59.00	58.61	55.32	55.24	55.88	55.83	55.98	56.33	55.78
29	58.56	58.22	58.66	59.14	58.40	55.24	55.21	55.91	55.93	55.95	56.20	55.79
30	58.51	.....	58.61	59.20	58.25	55.24	55.08	55.89	.....	55.89	.....	55.99
31	58.50	.....	58.47	.....	58.05	.....	55.21	55.80	.....	55.81	.....	56.12

(D-5-1)15bca 1 (*817, p. 447; 840, p. 599; 845, p. 653; *886, p. 883; 910, p. 143; 940, p. 123; 948, p. 113; *990, p. 124). State claim 5061. Eugene Briggs. Measurements by Utah State Engineer except those on Mar. 25 and Dec. 28.

(D-5-1)15bca 1--Continued.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	32.4	Mar. 25	33.6	June 27	33.5	Sept.18	30.9
13	32.3	30	32.4	July 3	33.7	25	31.9
19	32.1	Apr. 3	32.5	10	34.0	Oct. 2	32.6
26	32.0	13	32.3	17	33.6	9	32.1
Feb. 1	31.7	17	32.1	24	32.7	16	32.6
8	31.5	22	32.2	31	31.8	23	33.0
15	31.9	27	32.1	Aug. 7	31.5	30	33.2
21	32.7	May 8	32.0	14	30.9	Nov. 6	33.0
28	32.6	22	32.1	21	30.7	13	33.2
Mar. 6	33.0	June 5	32.6	28	31.1	20	33.9
14	32.7	13	32.9	Sept. 5	31.0	28	34.0
20	32.5	20	33.3	11	31.2	Dec. 28	34.9

(D-5-1)17adc 5 (*817, p. 452; *840, p. 599; 845, p. 653; 886, p. 883; 910, p. 143; 940, p. 123; 948, p. 113; *990, p.124). State claim 11174. H. C. Comer. Measurements by Utah State Engineer except those on Mar. 25 and Dec. 28.

Water level, in feet above land-surface datum, 1944

Jan. 11	31.3	Apr. 4	32.3	July 11	29.8	Sept.26	28.3
19	31.0	10	32.0	17	27.3	Oct. 3	29.5
26	31.0	17	32.2	25	27.0	10	28.8
Feb. 2	30.8	24	32.0	31	26.4	17	29.9
8	31.0	29	31.9	Aug. 8	26.1	24	30.1
16	30.7	May 6	31.9	15	26.5	31	31.0
22	31.3	13	31.5	22	26.3	Nov. 7	31.5
29	31.9	June 6	32.0	29	26.0	14	32.3
Mar. 7	32.7	13	32.6	Sept. 4	25.8	21	33.1
15	32.8	19	33.1	12	25.2	29	33.5
21	32.5	26	31.3	19	26.7	Dec. 28	32.7
30	32.4	July 4	31.5				

(D-5-1)17add 5 (*817, p. 451; *840, p. 599; 845, p. 653; 886, p. 883; 910, p. 143; 940, p. 123; 948, p. 113; *990, p.124). State claim 3628. M. S. Lott. Measurements by Utah State Engineer except those on Mar. 25 and Dec. 28.

Water level, in feet above land-surface datum, 1944

Jan. 11	21.5	Mar. 30	22.5	July 4	20.2	Sept.26	13.3
19	21.4	Apr. 4	22.2	11	17.4	Oct. 3	14.6
26	21.7	10	22.3	17	13.7	10	15.5
Feb. 2	21.7	17	22.4	25	13.1	17	16.1
8	21.1	22	22.1	31	12.4	23	16.4
16	21.2	29	22.1	Aug. 8	12.3	30	17.5
22	21.5	May 6	22.1	15	12.9	Nov. 7	18.4
29	21.1	13	21.8	22	12.1	14	19.0
Mar. 7	22.5	June 6	21.0	29	12.5	21	20.7
15	22.7	13	21.5	Sept. 4	11.6	29	23.1
21	22.3	19	21.8	12	11.3	Dec. 28	23.2
25	23.5	26	20.9	19	12.1		

(D-5-1)20aba 1 (*817, p. 457; *845, p. 654; *886, p. 883; 910, p. 143; 940, p. 123; 948, p. 113; *990, p.124). State claim 6860. Jacob Cox. Measurements by Utah State Engineer except on Dec. 28.

(D-5-1)20aba 1--Continued.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	50.8	Apr. 4	51.6	July 4	51.2	Sept.26	47.9
19	50.6	10	51.4	11	50.6	Oct. 3	46.8
26	50.8	17	51.8	17	49.4	10	47.0
Feb. 2	50.4	22	51.5	25	48.4	17	47.4
8	49.9	29	51.9	31	47.6	23	47.4
16	50.2	May 6	51.6	Aug. 8	47.4	30	48.6
22	50.6	13	51.7	15	46.8	Nov. 7	49.6
29	50.9	22	51.4	21	46.7	14	50.5
Mar. 7	52.4	June 5	51.2	29	46.4	21	50.6
15	52.0	13	51.8	Sept. 4	46.2	29	51.1
21	51.9	19	52.4	11	45.9	Dec. 28	49.6
30	51.7	26	51.5	19	46.3		

(D-5-1)20aba 2 (*817, p. 456; *840, p. 600; 845, p. 654; 886, p. 884; 910, p. 143; 940, p. 123; 948, p. 114; *990, p. 125). State claim 6861. Jacob G. Cox.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Mar. 24	a 32.2	Sept.18	16.8	Oct. 22	25.3	Nov. 25	28.8
Aug. 2	a 14.5	19	17.1	23	25.2	26	28.9
3	14.1	20	16.8	24	25.2	27	29.2
4	14.2	21	16.9	25	25.3	28	29.1
5	14.2	22	17.0	26	25.1	Dec. 2	29.5
6	14.2	23	17.2	27	24.8	3	29.0
7	14.2	24	17.4	28	25.3	4	28.8
8	14.2	25	17.3	29	25.5	5	28.8
9	14.2	26	17.5	30	25.6	6	28.9
10	14.2	27	17.6	31	25.9	7	28.8
11	14.2	28	17.5	Nov. 1	25.9	8	29.0
12	14.3	29	17.6	2	26.2	9	28.9
13	15.2	30	17.8	3	26.5	10	28.9
14	15.3	Oct. 1	18.1	4	26.5	11	29.1
15	15.3	2	18.1	5	26.5	12	29.1
16	15.2	3	18.6	6	26.6	13	29.1
17	15.1	4	18.7	7	26.6	14	28.8
18	14.9	5	19.1	8	26.6	15	29.0
19	15.2	6	19.1	9	26.5	16	29.0
20	15.2	7	19.3	10	26.8	17	28.5
27	15.5	8	19.8	11	27.0	18	28.6
28	15.6	9	20.7	12	27.2	19	28.8
29	15.7	10	21.4	13	27.3	20	28.6
30	15.8	11	22.0	14	27.9	21	28.5
31	15.8	12	22.1	15	27.9	22	28.6
Sept. 1	16.0	13	22.5	16	28.3	23	29.1
2	16.1	14	22.7	17	28.4	24	29.0
3	16.2	15	22.8	18	28.8	25	29.3
4	16.3	16	22.8	19	28.5	26	29.3
12	16.4	17	23.0	20	27.7	27	29.1
13	16.3	18	23.6	21	28.9	28	29.1
14	16.4	19	24.1	22	28.4	29	28.9
15	16.6	20	25.4	23	28.9	30	29.6
16	16.7	21	24.9	24	28.9	31	29.6
17	16.7						

a Gage measurement.

(D-5-1)23dab 3 (*910, p. 144; 940, p. 124; 948, p. 114; *990, p. 125). State claim 17054. City of American Fork. Measurements by Utah State Engineer except those on Mar. 25 and Dec. 28.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	18.8	Mar. 25	20.1	June 26	21.1	Sept.19	19.4
17	18.6	30	18.9	July 4	20.6	27	19.6
24	18.4	Apr. 4	19.1	11	20.7	Oct. 3	19.3
31	18.5	11	19.2	19	20.3	10	19.4
Feb. 2	18.4	18	19.0	25	19.7	17	19.0
9	18.6	24	18.8	Aug. 1	19.0	24	19.7
16	18.9	29	18.7	8	19.2	31	20.1
29	19.3	May 6	18.9	15	19.2	Nov. 7	19.6
Mar. 2	19.5	13	18.9	22	19.1	14	20.1
7	19.6	June 6	19.7	29	19.1	21	19.9
15	19.4	12	20.2	Sept. 4	18.9	29	20.5
21	19.2	19	20.6	12	19.0	Dec. 28	22.0

(D-5-1)25dab 1 (*840, p. 600; *845, p. 655; 886, p. 884; 910, p. 144; 940, p. 124; 948, p. 114; *990, p. 125). State application 11897. George Addy and others. Measurements by Utah State Engineer except those on Mar. 25 and Dec. 28.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	32.8	Apr. 4	33.3	July 4	32.8	Sept.27	32.2
24	32.3	11	33.0	11	33.2	Oct. 3	31.2
Feb. 2	32.2	18	33.4	19	32.7	10	30.8
9	32.0	24	32.8	25	31.6	17	31.1
16	32.3	29	32.5	Aug. 1	30.5	24	31.5
29	32.5	May 6	32.3	8	30.3	31	31.6
Mar. 2	33.1	13	32.2	15	31.1	Nov. 8	31.2
7	33.0	23	32.5	22	30.6	15	32.3
15	33.2	June 6	33.0	29	30.2	21	32.6
21	33.0	12	33.3	Sept. 4	29.7	29	32.8
25	33.2	19	33.9	12	31.2	Dec. 28	34.1
30	33.1	26	33.6	19	31.6		

(D-5-2)18dcd 2 (*910, p. 144; 940, p. 124; 948, p. 115; *990, p. 125). A. C. Christensen. Measurements by Utah State Engineer except those on Mar. 25 and Dec. 28.

Water level, in feet with reference to land-surface datum, 1944

Date		Date		Date		Date	
Jan. 7	+0.2	Mar. 25	-0.42	June 27	a +2.7	Sept.18	a +2.5
13	.0	30	-.6	July 3	a +2.9	25	a +3.1
19	-.2	Apr. 3	a +1.1	10	a +3.2	Oct. 2	a +2.3
26	-.2	13	a +.9	17	a +3.7	9	a +2.5
Feb. 1	-.3	17	a +.5	24	a +3.3	16	a +2.5
8	-.6	22	+.2	31	a +2.9	23	a +3.0
15	-1.3	27	.0	Aug. 7	a +2.9	30	a +3.3
21	-.5	May 8	-.4	14	a +2.6	Nov. 6	a +2.8
28	a +1.7	22	-.3	21	a +1.9	13	a +2.8
Mar. 6	-.9	June 5	a +.5	28	a +2.1	20	a +3.3
14	-.9	13	a +1.3	Sept. 5	a +2.3	28	a +3.5
20	-.7	20	a +1.8	11	a +2.2	Dec. 28	a +2.3

a Flowing prior to measurement.

(D-5-2)29dba 4 (*317, p. 459; *840, p. 600; 845, p. 655; 886, p. 884; 910, p. 144; 940, p. 124; 948, p. 115; *990, p. 126). State claim 13150. Mark Richins. Measurements by Utah State Engineer except those on Mar. 25 and Dec. 28. Well flowing prior to measurements.

(D-5-2)29dba 4--Continued.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	16.8	Apr. 14	16.9	June 29	16.8	Sept. 20	12.6
8	16.2	21	16.4	July 6	16.2	28	13.2
15	17.0	25	16.4	13	16.0	Oct. 4	12.5
20	17.1	28	16.3	20	15.2	11	12.9
25	17.0	May 1	16.4	27	13.5	19	13.6
Feb. 3	16.6	4	16.3	Aug. 2	13.3	25	15.0
10	16.0	9	16.4	10	13.4	Nov. 2	15.8
18	17.3	12	16.2	14	13.2	9	16.5
25	16.9	June 2	17.5	25	13.0	16	17.5
Mar. 25	15.2	8	17.6	31	12.5	27	18.3
Apr. 1	17.0	14	18.0	Sept. 7	12.2	Dec. 28	18.7
7	16.9	21	17.8	14	12.3		

(D-6-2)3bdd 1 (*840, p. 600; *845, p. 655; 886, p. 884; 910, p. 144; 940, p. 124; 948, p. 115; *990, p.126). State claim 1651. Pioneer Pumping Co. Water levels, in feet below land-surface datum, 1944: Mar. 24, 46.00; Dec. 28, 40.36.

(D-6-2)4adc 1 (*845, p. 655; *886, p. 885; 910, p. 144; 940, p. 124; 948, p. 115; *990, p.126). W. P. Kirk. Measurements by Utah State Engineer except those on Mar. 24 and Dec. 28. Measurements discontinued after Dec. 28, 1944.

Water level, in feet below land-surface datum, 1944

Jan. 5	28.45	Mar. 16	34.92	May 9	38.79	Aug. 2	27.27
10	28.45	22	35.66	12	37.87	10	27.59
17	28.91	24	35.95	June 2	36.63	22	27.04
22	28.61	30	36.47	8	37.61	30	25.87
31	30.35	Apr. 1	36.96	16	36.11	Sept. 6	24.78
Feb. 4	30.72	7	37.35	22	34.99	13	25.67
11	31.19	13	37.58	29	33.11	20	26.81
19	31.81	20	37.82	July 6	31.98	27	26.69
26	32.68	28	38.35	13	30.68	Dec. 28	29.04
Mar. 2	33.36	May 1	38.52	20	29.27		
8	34.07	4	38.67	27	26.69		

(D-6-2)10add 1 (*910, p. 145; 940, p. 124; 948, p. 116; *990, p.126). State claim 3123. City of Orem. Water levels, in feet below land-surface datum, 1944: Mar. 24, 40.89; Dec. 28, 40.91.

(D-6-2)16bcb 1 (*948, p. 116; *990, p.127). State claim 11852. Alpine School District. Measurements by Utah State Engineer. Discontinued after Nov. 24, 1944.

Water level, in feet above land-surface datum, 1944

Jan. 3	6.7	Mar. 1	4.4	May 2	3.1	Aug. 25	4.3
10	6.2	3	5.1	5	3.2	31	4.0
13	5.4	8	3.4	10	4.1	Sept. 7	5.3
15	5.2	13	3.8	23	6.0	14	5.0
17	5.4	16	2.8	June 2	7.3	22	6.2
18	5.1	18	2.7	8	7.1	28	6.3
21	5.1	22	3.3	12	5.4	Oct. 4	6.6
22	5.2	25	3.8	14	5.9	11	6.3
24	5.6	29	3.0	21	5.3	19	4.7
28	5.0	31	3.4	29	6.1	26	5.1
29	5.4	Apr. 1	3.0	July 6	6.9	Nov. 2	5.2
31	5.5	7	3.7	13	5.1	6	4.2
Feb. 3	5.0	14	3.2	20	5.6	9	5.0
7	5.2	18	3.6	27	4.2	13	6.0
12	4.4	21	3.3	Aug. 2	4.1	16	5.4
17	5.4	25	3.1	10	4.5	20	5.3
23	5.1	28	3.0	14	4.7	24	5.4
25	5.0						

(D-6-2)16cbc 1 (*845, p. 657; 886, p. 836; 910, p. 145; 940, p. 124; 948, p. 116; *990, p.127). Frank Burningham. Water levels, in feet with reference to land-surface datum, 1944: Mar. 24, -0.03; Dec. 28, +3.4; well flowing prior to measurement.

(D-6-2)18add 2 (*845, p. 657; 910, p. 146; 940, p. 125; 948, p. 117; *990, p.127). State application 11747. J. L. Larson. Measurements by Utah State Engineer except those on Mar. 24 and Dec. 28.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	18.5	Mar. 24	17.9	June 14	20.5	Sept.22	15.9
10	18.3	25	18.6	17	20.4	28	16.3
18	17.8	31	18.2	21	20.2	Oct. 4	17.0
20	17.8	Apr. 1	18.1	28	18.4	13	17.1
22	17.8	6	18.5	July 1	16.9	18	17.2
25	17.5	8	18.4	7	14.9	20	17.3
28	17.4	14	18.6	14	14.7	25	17.7
Feb. 5	17.5	21	18.6	21	14.2	27	17.8
12	17.2	25	18.7	28	14.1	31	18.0
18	17.6	28	18.9	Aug. 2	15.6	Nov. 3	18.2
25	18.4	May 2	18.7	10	15.4	8	18.2
Mar. 1	18.6	5	18.5	12	15.3	10	18.4
3	18.6	10	18.4	22	15.1	15	18.6
8	18.4	23	18.8	25	15.4	18	18.7
13	18.3	June 2	19.6	31	15.6	22	19.0
16	18.2	7	20.2	Sept. 7	15.3	24	19.2
18	18.4	10	20.3	14	15.8	Dec. 28	20.5
22	18.3						

(D-6-2)23bab (*845, p. 658; *886, p. 887; 910, p. 146; 940, p. 125; 948, p. 117; *990, p.127). Elias Nielson. Water levels, in feet below land-surface datum, 1944: Mar. 24, 39.21; Dec. 28, 36.39.

(B-6-2)24bd 1 (numbered (D-6-2)24dac in Water-Supply Paper *845, p. 658) (886, p. 887; 910, p. 146; 940, p. 125; 948, p. 117; *990, p. 128). Isaac Boyce. Water level, in feet below land-surface datum, 1944: Mar. 24, 124.77; Dec. 28, 122.62.

(B-6-2)28bad 1 (*817, p. 460; *840, p. 601; 845, p. 659; 886, p. 886; 910, p. 147; 940, p. 125; 948, p. 117; *990, p.128). State claim 2087. Henry Williamson. Measurements by Utah State Engineer except those on Mar. 24 and Dec. 28.

Water level, in feet above land-surface datum, 1944

Jan. 6	14.2	Apr. 5	12.8	June 30	13.8	Sept.16	10.7
21	13.6	12	12.7	July 8	14.6	23	11.1
29	13.6	19	12.5	15	13.7	30	12.2
Feb. 4	13.6	26	12.6	22	13.0	Oct. 14	12.7
11	13.4	May 3	12.9	29	12.0	21	13.2
19	13.2	11	12.5	Aug. 5	12.1	28	13.1
26	13.5	24	13.1	12	11.6	Nov. 4	13.4
Mar. 4	13.5	June 3	14.3	19	11.5	11	13.6
10	13.0	9	14.6	26	11.2	17	13.8
17	12.7	16	14.9	Sept. 2	10.6	25	14.0
24	12.7	23	15.2	8	10.4	Dec. 28	14.6
30	13.0						

(D-7-2)4cbd 1 (*840, p. 601; 845, p. 660; 886, p. 888; 910, p. 148; 940, p. 125; 948, p. 117; *990, p.128). State application 11794. Reed Knudsen. Measurements by Utah State Engineer except those on Mar. 24 and Dec. 28.

(D-7-2)4cbd 1--Continued.

Water level, in feet above land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	27.9	Mar. 30	28.7	June 30	26.9	Sept. 16	22.7
14	27.3	Apr. 5	28.5	July 8	27.0	23	24.1
21	27.1	12	28.4	15	24.7	30	26.6
29	27.0	19	28.1	22	25.8	Oct. 14	26.3
Feb. 4	26.8	26	28.7	29	23.1	21	26.5
11	26.7	May 3	28.6	Aug. 5	23.7	28	26.9
19	26.9	11	28.4	12	24.0	Nov. 4	27.6
26	27.0	24	28.7	19	23.6	11	28.2
Mar. 4	27.6	June 3	29.5	26	23.4	17	28.8
10	28.2	9	29.9	Sept. 2	22.6	25	29.4
17	27.5	16	28.0	8	19.7	Dec. 28	27.9
24	28.7	23	28.8				

(D-7-2)12bcb 1 (*817, p. 460; *840, p. 601; 845, p. 661; 886, p. 889; 910, p. 149; 940, p. 125; 948, p. 118; *990, p.128). State claim 105. Provo City Corporation.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Mar. 24	a 25.1	Aug. 30	21.5	Sept. 29	23.6	Oct. 24	25.5
July 8	a 23.1	31	21.1	30	23.7	25	25.5
Aug. 1	a 24.0	Sept. 1	21.6	Oct. 1	25.0	26	25.6
2	22.4	2	21.8	2	25.1	27	25.9
3	22.1	3	21.4	3	25.3	Nov. 5	26.5
4	22.1	4	21.6	4	25.4	6	26.6
5	22.5	5	21.6	5	25.4	7	26.7
6	22.3	6	22.0	6	25.4	8	26.8
7	22.4	7	22.3	7	25.4	9	27.1
8	22.0	8	22.2	8	25.5	10	27.2
9	21.9	9	22.4	9	25.5	14	27.0
10	22.1	10	22.0	10	25.3	15	27.2
11	22.6	11	22.3	11	25.3	16	27.5
12	22.8	12	22.2	12	25.5	17	27.6
13	22.7	13	22.2	13	25.5	Nov. 21	28.5
15	21.5	14	22.1	14	25.3	22	29.6
16	20.7	16	22.4	15	25.8	24	28.4
17	21.3	17	22.5	16	25.5	Dec. 2	27.3
18	21.5	18	22.6	17	25.7	3	27.4
24	21.8	20	24.0	18	25.9	6	27.7
25	21.5	21	23.9	19	26.0	7	27.4
26	22.3	23	23.5	20	25.9	27	a 28.2
27	22.0	24	24.0	21	26.1	28	28.0
28	22.3	25	23.5	22	26.0	29	27.6
29	22.0	28	23.9	23	25.9	30	27.6

a Gage measurement.

Utah County - Utah Lake Valley

South Utah Basin

(D-7-2)35ccd (*840, p. 604; 845, p. 662; 886, p. 890; *910, p. 149; 940, p. 125; 948, p. 118; *990, p.128). Angus Hales. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 24, 6.12; Dec. 27, 6.0.

(D-7-2)36dcc 2 (*845, p. 662; 886, p. 890; 910, p. 149; 940, p. 126; 948, p. 118; *990, p.128). H. H. Spatford. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 24, 15.3; Dec. 27, 14.0.

(D-7-3)32bcc 1 (*840, p. 604; 845, p. 663; 886, p. 891; 910, p. 150; 940, p. 126; 948, p. 118; *990, p.128). State claim 8345. Drought Relief Administration. Water levels, in feet above land-surface datum, 1944: Mar. 24, 51.2; Dec. 27, 50.3.

(D-7-3)33baa 6 (*817, p. 460; *840, p. 605; *845, p. 663; *886, p. 891; 910, p. 150; 940, p. 126; 948, p. 119; *990, p.129). State claim 7006. A. W. Finley. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 24, 8.4; Dec. 27, 10.7.

(D-8-1)13aaa 1 (*817, p. 461; *840, p. 605; *845, p. 663; 886, p. 891; 910, p. 150; 940, p. 126; 948, p. 119; *990, p.129). State claim 14076. R. G. Francis. Water levels, in feet above land-surface datum, 1944: Mar. 24, 16.1; Dec. 27, 14.6; well flowing prior to measurement.

(D-8-1)25ccb 1 (*845, p. 664; 886, p. 891; *910, p. 150; 940, p. 126; 948, p. 119; *990, p.129). State claim 11790. F. S. Hiatt. Water levels, in feet above land-surface datum, 1944: Mar. 24, 13.8; Dec. 30, 11.8; well flowing prior to measurement.

(D-8-2)4cba 2 (*840, p. 605; 845, p. 664; *886, p. 891; 910, p. 151; 940, p. 126; 948, p. 119; *990, p.129). State claim 10844. Mary Barney. Water levels, in feet above land-surface datum, 1944: Mar. 24, 30.8; Dec. 27, 30.7.

(D-8-2)7ddd 1 (*845, p. 664; 886, p. 891; 910, p. 151; 940, p. 126; 948, p. 119; *990, p.129). State claim 10762. A. H. Beers. Water levels, in feet above land-surface datum, 1944: Mar. 24, 19.6; Dec. 27, 18.0.

(D-8-2)23dbd 1 (*817, p. 461; *840, p. 605; 845, p. 664; 886, p. 892; 910, p. 151; 940, p. 126; 948, p. 119; *990, p.129). State claim 13201. Utah-Idaho Sugar Co. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 24, 23.0; D 30, 24.5.

(D-8-2)29add 1 (*910, p. 152; 940, p. 126; 948, p. 119; *990, p.129). State application 11860. Reed Reynolds. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1944: Mar. 24, 23.0; Dec. 30, 24.5.

(D-8-3)4cad 1 (*817, p. 462; *840, p. 605; 845, p. 664; 886, p. 892; 910, p. 152; 940, p. 126; 948, p. 119; *990, p.129). State application 11830. Eddington Canning Co. Water levels, in feet above land-surface datum, 1944: Mar. 24, 20.4; Dec. 30, 24.3.

(D-8-3)15ccb (*845, p. 665; *886, p. 892; 910, p. 152; 940, p. 126; 948, p. 119; *990, p.129). E. Whitcomb. Water levels, in feet below land-surface datum, 1944: Mar. 24, 9.30; Dec. 30, 8.60.

(D-9-1)1cbc 2 (*910, p. 152; 940, p. 126; 948, p. 119; 990, p.129). State claim 8344. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Mar. 24, 2.75; Dec. 30, 2.21.

(D-9-2)5ddc 2 (*817, p. 462; *840, p. 606; 845, p. 666; 886, p. 893; 910, p. 153; 940, p. 127; 948, p. 120; *990, p.129). State claim 1139. Payson City Corporation.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	15.6	....	....	17.0	17.4	....	18.5	18.4	17.4
2	....	15.9	....	....	17.0	17.3	....	18.7	....	17.4
3	....	15.8	....	....	16.9	17.4	....	....	....	17.7
4	....	15.9	....	....	16.9	17.5	....	....	....	17.4
5	....	15.8	....	....	17.0	17.4	....	....	....	....
6	....	15.8	....	....	17.0	17.4	....	....	....	17.1
7	....	15.8	....	....	17.0	17.6	....	....	....	16.9
8	a 13.9	15.9	....	....	17.0	17.7	....	....	....	....
9	....	....	....	....	17.1	17.6	....	....	....	16.8
10	....	....	....	....	17.3	17.6	....	....	....	....
11	....	....	....	....	17.4	17.8	....	....	....	....
12	....	....	....	....	17.3	17.8	....	....	....	....
13	....	....	....	....	17.4	17.9	....	....	....	....
14	....	....	....	....	17.3	18.0	....	....	17.5	....
15	....	....	....	a 17.1	17.4	18.1	....	....	17.8	....
16	....	....	....	17.3	17.4	18.1	19.0	18.8	17.8	....

a Gage measurement.

(D-9-2)5ddc 2--Continued.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
17	....	....	....	....	17.4	18.3	18.5	18.5	17.8	....
18	....	....	....	....	17.5	18.3	18.4	18.5	17.8	....
19	....	....	....	....	....	18.2	18.3	18.6	17.7	....
20	....	....	15.7	....	....	18.4	18.5	18.6	17.5	....
21	....	....	15.9	17.8	....	18.4	18.5	18.6	17.5	....
22	....	....	16.0	17.4	18.0	18.4	18.3	18.6	17.7	....
23	....	....	16.0	17.3	17.6	18.4	18.3	18.5	17.7	....
24	a 16.1	....	15.9	17.3	17.7	18.6	18.5	18.5	17.8	....
25	15.9	....	....	17.4	17.7	....	18.6	18.5	16.1	....
26	15.9	....	....	17.4	17.5	....	18.7	18.7	15.6	....
27	16.0	....	....	17.1	17.5	....	18.7	18.7	17.4	a 16.8
28	15.9	....	....	17.0	17.4	....	18.6	18.8	17.1	16.4
29	16.0	....	....	17.1	17.4	....	18.7	18.6	17.3	16.7
30	16.0	a 15.5	....	17.0	17.4	....	18.7	18.5	17.4	a 17.2
31	15.9	....	....	....	17.4	....	....	18.5	....	....

a Gage measurement.

(D-9-2)11aaa 1 (*817, p. 463; *840, p. 606; 845, p. 666; 886, p. 893; 910, p. 153; 940, p. 127; 948, p. 120; *990, p.130). State claim 3364. Salt Lake & Utah Railroad Corporation. Water levels, in feet above land-surface datum, 1944: Mar. 24, 37.0; Dec. 27, 41.4.

(D-9-2)18bcd 1 (*940, p. 127; 948, p. 120; *990, p.130). State claim 8357. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Mar. 24, 4.17; Dec. 30, 5.67.

Wasatch County - Heber Valley

(D-2-5)20cc (*817, p. 444; *840, p. 596; 845, p. 666; 886, p. 894; 910, p. 154; 940, p. 127; 948, p. 120; *990, p.130). Lee Bros.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	a 26.30	Apr. 13	a 26.06	July 20	a 27.20	Nov. 20	a 26.50
Feb. 17	a 26.75	14	25.94	Aug. 18	a 27.24	Dec. 13	27.58
Mar. 18	a 26.92	June 16	a 27.08	Sept.20	a 28.20		

a Measurement by Provo River Water Commissioner.

(D-2-5)31ada (*817, p. 444; *840, p. 596; 845, p. 666; 886, p. 895; 910, p. 154; 940, p. 128; 948, p. 121; *990, p.130). State claim 11234. Harry Morris.

Water level, in feet below land-surface datum, 1944

Jan. 17	a 9.08	Apr. 13	a 5.04	June 16	a 1.25	Sept.20	a 2.00
Feb. 17	a 12.45	14	5.52	July 20	a 5.55	Nov. 20	a 6.08
Mar. 18	a 6.50	May 20	a 5.25	Aug. 18	a 3.75	Dec. 13	7.85

a Measurement by Provo River Water Commissioner.

(D-3-4)35bbc 1 (*845, p. 666; 886, p. 895; 910, p. 154; 940, p. 128; 948, p. 121; *990, p.131). State claims 8379 and 11260. Drought Relief Administration. Water levels, in feet below land-surface datum, 1944: Apr. 14, 2.15; Dec. 13, 3.38.

(D-3-5)29cac (*817, p. 445; 840, p. 596; 845, p. 667; *886, p. 895; 910, p. 154; 940, p. 128; 948, p. 121; *990, p.131). Miles Clyde. Water levels, in feet below land-surface datum, 1944: Apr. 14, 9.54; Dec. 13, 7.39.

(D-4-2)12aaa (*910, p. 154; 940, p. 128; 948, p. 121; *990, p.131). Hartley Carlisle.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.33	.....	51.20	53.40	52.88	34.95	15.15	15.81	23.35	28.12	33.97	38.99
2	44.48	.....	51.40	53.38	52.91	34.08	15.30	16.00	23.72	27.93	34.40	39.20
3	44.63	47.99	51.35	53.27	52.92	.....	15.43	16.35	23.80	28.08	34.59	39.45
4	44.79	48.07	51.38	53.13	52.88	.....	15.20	16.63	24.18	28.26	34.76	39.71
5	44.91	48.17	51.41	53.07	53.08	.....	14.78	16.51	24.37	28.48	35.07	39.95
6	45.02	48.10	51.47	52.96	53.13	.....	14.48	16.38	24.43	28.35	35.22	40.17
7	45.26	48.10	51.53	52.97	52.62	.....	14.31	16.89	24.50	27.88	34.94	40.40
8	45.31	48.17	51.61	53.00	52.48	25.55	14.53	17.29	24.63	27.92	34.61	40.60
9	45.47	48.40	51.66	53.07	52.38	24.29	14.50	17.71	24.90	28.50	34.70	40.82
10	45.58	48.56	51.65	53.13	52.22	23.82	15.12	17.90	25.11	29.16	34.99	41.05
11	45.71	48.66	51.68	53.22	52.10	24.92	15.50	18.13	25.19	29.55	34.94	41.25
12	45.80	48.81	51.65	53.32	52.13	24.30	15.55	18.38	25.28	29.77	34.92	41.53
13	45.85	48.90	51.67	53.45	52.34	23.15	15.15	18.65	25.53	30.11	34.78	41.67
14	45.90	49.05	51.77	53.52	52.23	22.77	15.84	18.90	26.33	30.50	34.55	41.87
15	46.00	49.15	51.88	53.60	52.97	22.90	16.10	18.75	.....	30.83	34.75	42.07
16	46.50	49.27	51.80	53.72	51.58	22.77	16.31	19.13	25.98	31.15	34.99	42.25
17	.....	49.37	51.99	.....	51.22	21.20	16.26	19.25	26.23	31.45	35.28	42.45
18	.....	49.42	52.11	.....	50.81	19.89	15.75	19.30	26.25	31.70	35.40	42.63
19	.....	49.67	52.28	.....	50.15	18.95	15.50	19.62	26.54	31.92	35.48	42.82
20	46.65	49.75	52.38	53.80	48.75	18.37	15.85	.....	26.41	32.15	35.64	43.00
21	46.68	49.95	52.47	53.80	.....	17.93	15.95	.....	27.22	32.35	35.85	43.17
22	46.73	50.22	52.56	53.85	.....	17.87	15.75	.....	27.41	32.43	36.25	43.35
23	47.10	50.35	52.50	53.87	.....	18.12	15.44	.....	27.71	32.79	36.60	43.50
24	.....	50.50	52.60	53.92	.....	18.13	15.32	21.40	28.00	32.77	36.92	43.65
25	.....	50.60	52.70	53.86	42.03	17.30	15.19	21.77	28.21	32.85	37.25	43.82
26	.....	50.70	52.79	53.55	40.31	16.47	14.95	22.02	28.33	32.95	37.55	43.97
27	47.39	50.83	52.88	53.39	39.33	16.37	14.95	.....	28.15	33.07	37.83	44.10
28	.....	51.00	52.98	53.23	39.11	16.67	15.39	.....	28.32	33.25	38.12	44.19
29	.....	51.10	53.05	53.01	38.90	16.75	15.43	.....	28.23	33.50	38.45	44.40
30	.....	.....	53.29	52.83	37.05	16.96	15.62	.....	28.25	33.85	38.71	44.55
31	.....	.....	53.36	.....	36.00	.....	15.68	23.16	.....	33.89	.....	44.67

(D-4-4)14abb (*840, p. 596; 845, p. 667; 886, p. 895; 910, p. 155, 940, p. 129; 948, p. 122; 990, p.132). Charlotte Brown.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.77	.....	22.32	19.94	21.41	15.05	5.11	10.24	15.34	17.74	13.57	19.28
2	20.78	.....	22.33	19.75	21.64	.....	5.51	10.45	15.61	17.92	18.67	19.35
3	20.89	21.80	22.30	19.75	21.82	.....	5.69	10.72	15.69	18.09	18.47	19.42
4	20.93	21.85	22.29	19.37	21.89	.....	5.45	11.02	15.93	18.00	17.60	19.48
5	20.95	21.86	22.31	20.02	21.86	.....	4.76	10.95	16.18	17.82	17.21	19.54
6	.....	21.86	22.32	20.72	21.83	.....	4.52	11.00	15.89	17.81	15.90	19.60
7	.....	21.86	22.32	20.86	21.82	.....	4.75	10.73	16.06	18.03	16.76	19.66
8	.....	21.88	22.32	20.95	21.81	.....	5.30	11.41	16.23	18.07	17.25	19.72
9	.....	21.97	22.33	20.62	21.80	10.60	5.57	11.96	16.35	18.24	17.47	19.77
10	.....	22.00	22.34	20.36	21.79	10.26	5.73	12.45	16.43	18.36	17.53	19.82
11	.....	22.01	22.29	20.27	21.71	9.68	6.22	12.82	16.45	18.18	17.57	19.85
12	.....	22.03	22.23	20.23	21.59	9.28	6.61	13.06	16.58	18.25	17.63	19.93
13	21.16	22.04	22.17	20.20	21.25	8.85	7.16	13.27	16.68	17.65	17.70	20.00
14	21.19	22.05	22.13	20.20	21.00	8.04	6.96	13.45	16.59	18.10	17.79	20.04
15	.....	22.06	22.14	20.14	20.28	7.90	7.06	13.13	.....	18.12	17.70	20.08
16	.....	22.07	22.14	20.23	20.28	6.58	7.37	13.49	16.40	18.14	17.83	20.11
17	.....	22.09	22.15	20.30	20.26	6.25	8.03	13.15	16.50	18.13	17.88	20.12
18	.....	22.11	22.16	20.23	20.32	6.15	8.58	13.58	16.67	18.06	17.97	20.12
19	.....	22.11	22.16	20.39	20.41	6.15	8.75	13.82	16.85	18.02	18.06	20.25
20	21.42	22.12	22.13	20.54	20.15	5.67	8.65	14.07	16.91	18.01	18.28	20.32
21	.....	22.14	22.04	20.52	19.46	5.80	8.94	14.27	16.98	18.06	18.47	20.35
22	.....	22.18	21.91	20.65	19.15	6.10	9.22	14.31	17.13	18.23	18.60	20.39
23	.....	22.22	21.38	20.80	18.88	6.09	9.57	14.46	17.10	18.38	18.70	20.42
24	.....	22.22	20.91	20.93	18.54	5.70	9.69	14.65	17.14	18.58	18.78	20.39

(D-4-4)14abb--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
25	.....	22.26	20.86	21.00	18.07	4.42	9.81	14.58	17.35	18.37	18.86	20.42
26	.....	22.28	20.96	21.07	17.25	4.98	9.25	14.87	17.22	18.11	18.94	20.47
27	21.60	22.29	21.04	21.16	16.27	5.34	8.73	14.62	17.16	17.88	19.02	20.55
28	.....	22.31	20.96	21.25	15.26	5.40	8.73	14.92	17.14	17.97	19.12	20.57
29	.....	22.33	20.80	21.26	15.70	5.40	9.47	15.06	17.10	18.20	19.15	20.62
30	.....	.....	20.67	21.16	15.37	5.10	9.88	15.35	17.50	18.40	19.22	20.63
31	.....	.....	20.03	.....	15.13	.....	10.19	15.27	.....	18.52	.....	20.67

(D-4-4)14ccc 1 (*817, p. 445; *840, p. 598; *845, p. 667; 886, p. 895; 910, p. 155; 940, p. 129; 948, p. 122; *990, p. 132). State claim 8380. Town of Charleston.

Water level at noon, in feet with reference to land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-3.86	-4.78	.....	-4.98	-4.68	+1.20	+4.91	+2.62	.....	-0.60	-1.14	-1.42
2	-3.86	-4.82	.....	-4.94	-4.75	+1.49	+4.97	+2.54	.....	-.63	-1.19	-1.50
3	-3.90	-4.81	-5.34	-4.89	-4.79	+1.67	+4.95	.....	.....	-.64	-1.18	-1.60
4	-3.03	-4.83	.....	-4.76	-4.79	+1.80	+4.92	.....	.....	-.64	-1.11	-1.70
5	.....	-4.89	.....	-4.72	.....	+1.93	+4.98	.....	.....	-.65	-1.08	-1.76
6	-4.04	-4.92	.....	-4.70	.....	+2.14	+4.94	.....	.....	-.71	-1.04	-1.80
7	-4.17	-4.90	.....	-4.64	.....	+2.88	+4.95	.....	+0.65	-.72	-1.04	-1.85
8	-4.17	-4.91	.....	-4.59	.....	+2.73	+4.97	.....	+.57	-.70	-1.10	-1.92
9	-4.17	-4.91	-5.36	-4.65	.....	+2.93	+4.90	.....	+.58	-.75	-1.03	-2.02
10	-4.20	-5.03	-5.33	-4.70	.....	+3.20	+4.95	.....	+.46	-.78	-0.97	-2.10
11	-4.29	-5.03	-5.33	-4.68	-4.04	+3.42	+4.84	.....	+.39	-.79	-.98	-2.15
12	-4.28	-5.03	-5.23	-4.67	.....	+3.69	+4.70	.....	+.34	-.79	-.97	-2.23
13	-4.32	-5.05	-5.17	-4.63	-3.67	+3.85	+4.60	.....	+.27	-.81	-1.05	-2.30
14	-4.33	-5.00	-5.18	-4.60	-3.37	+3.90	+4.50	+2.45	+.23	-.85	-1.12	-2.34
15	-4.35	-5.12	-5.23	-4.63	-3.00	+4.00	+4.38	+2.31	.....	-.88	-1.06	-2.39
16	-4.42	-5.11	-5.22	-4.54	-2.82	+4.12	+4.24	+2.20	.00	-.90	-1.06	-2.45
17	-4.43	-5.15	-5.16	-4.63	-2.66	+4.13	+4.17	.....	.00	-.91	-1.06	-2.50
18	-4.51	.....	-5.19	-4.57	-2.61	+4.25	+3.95	.....	-.11	-.92	-1.06	-2.57
19	-4.52	.....	-5.17	-4.57	-1.99	+4.36	+3.85	.....	-.18	-.93	-1.10	-2.60
20	-4.50	.....	-5.17	-4.47	-1.74	+3.53	+3.80	.....	-.16	-.95	-1.15	-2.63
21	-4.53	.....	-5.24	-4.58	-1.00	+4.57	+3.78	.....	-.10	-.94	-1.15	-2.68
22	-4.58	.....	-5.28	44.62	.....	+3.95	+3.73	.....	-.22	-.96	-1.14	-2.66
23	-4.52	.....	-5.20	-4.60	.....	+3.96	+3.70	.....	-.24	-1.00	-1.09	-2.67
24	-4.52	-5.23	-5.14	-4.58	.....	+3.98	+3.55	+1.65	-.29	-1.00	-1.10	-2.75
25	-4.65	.....	-5.11	-4.61	-1.01	+4.14	+3.40	+1.54	-.36	-1.03	-1.22	-2.80
26	-4.67	-5.30	-5.15	-4.66	-.72	+4.24	+3.25	+1.43	-.44	-1.10	-1.23	-2.83
27	-4.69	.....	-5.15	-4.63	-.45	+4.27	+3.07	+1.35	-.49	-1.15	-1.25	-2.88
28	-4.74	.....	-5.17	-4.64	-.16	+4.41	+2.96	+1.30	-.49	-1.14	-1.35	-2.86
29	-4.76	.....	-5.13	-4.66	+.26	+4.56	+2.85	+1.26	-.48	-1.15	-1.37	-2.91
30	-4.78	.....	-5.07	-4.68	+.60	+4.85	+2.77	+1.16	-.40	-1.15	-1.43	-2.99
31	-4.80	.....	-5.00	.....	+.86	.....	+2.67	+1.15	.....	-1.14	.....	-3.04

Washington County - Escalante Valley 19/

(C-37-17)11dbd 1 (*940, p. 130; 948, p. 123; *990, p. 133). E. W. Simkins. Water level, in feet below land-surface datum, 1944: Dec. 8, 27.52.

(C-37-17)12cbc 1 (*940, p. 130; 948, p. 123; *990, p. 133). Charles Sides. Water level, in feet below land-surface datum, 1944: Dec. 8, 29.63.

(C-37-17)12cdd 1 (*817, p. 438; *840, p. 588; 845, p. 668; 886, p. 896; 910, p. 153; *940, p. 130; 948, p. 123; *990, p. 133). State claim 8384. Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Dec. 8, 42.43.

(C-37-17)14adc 1 (*940, p. 130; 948, p. 123; 990, p. 133). J. C. Bosshardt. Water level, in feet below land-surface datum, 1944: Dec. 8, 38.33.

19/ For other wells in this valley see pages 61-67, 83-88, 91.

(C-37-17)15bab 1 (*940, p. 130; 948, p. 123; 990, p. 133). Everest Hackett. Water level, in feet below land-surface datum, 1944: Dec. 8, 10.48.

(C-37-17)16cbb 1 (*940, p. 130; 948, p. 123; *990, p. 133). State application 14146. J. W. Holt. Water level, in feet below land-surface datum, 1944: Dec. 8, 14.53.

Washington County - Virgin River Valley

(C-42-10)33bb (*817, p. 438; 840, p. 589; 845, p. 668; 886, p. 896; 910, p. 153; 940, p. 131; 948, p. 123; *990, p. 133). Oscar De Mill. No measurements made in 1944.

(C-42-11)3ac (*817, p. 438; *840, p. 589; 845, p. 668; 886, p. 896; 910, p. 153; 940, p. 131; 948, p. 123; 990, p. 133). Drought Relief Administration. Water level, in feet below land-surface datum, 1944: Mar. 17, 18.74.

Wayne County - Fremont Valley

(D-27-2)25bd (*817, p. 477; *840, p. 613; 845, p. 668; 886, p. 896; 910, p. 156; 940, p. 131; 948, p. 124; *990, p. 134). State claim 7164. S. E. Tanner. Water level, in feet above land-surface datum, 1944: Dec. 5, 10.2. Well flowing prior to measurement.

(D-28-4)36cdb 1 (*817, p. 477; 840, p. 613; 845, p. 668; 886, p. 897; 910, p. 156; 940, p. 131; 948, p. 124). V. A. Lee. Water level, in feet below land-surface datum, 1944: Dec. 5, 12.91.

(D-29-4)15cbd 1 (*817, p. 477; 840, p. 613; 845, p. 668; 886, p. 897; 910, p. 156; 940, p. 131; 948, p. 124; *990, p. 134). W. P. Coleman. Water level, in feet above land-surface datum, 1944: Dec. 5, 1.45. Well flowing prior to measurement.

Weber County - East Shore area

(B-5-1)4aac (*990, p. 134). C. J. Hobbs. Water levels, in feet below land-surface datum, 1944: Apr. 15, 14.22; Nov. 1, 12.73. Measurements discontinued.

(B-5-1)4ccb 2 (*990, p. 134). State claim 19020. N. G. London. Water levels, in feet below land-surface datum, 1944: Apr. 15, 6.18; Nov. 1, 6.45. Measurements discontinued.

(B-5-1)5cda (*990, p. 134). T. G. Burch. Water level, in feet below land-surface datum, 1944: Apr. 15, 29.18. Measurements discontinued.

(B-5-1)8cbd 1 (*990, p. 134). State claim 19627. Earl Porter. Water levels, in feet below land-surface datum, 1944: Apr. 15, 7.88; Nov. 1, 6.34. Measurements discontinued.

(B-5-1)10bcd 2 (*990, p. 134). State claim 17719. R. L. Gabey. Water levels, in feet below land-surface datum, 1944: Apr. 15, 15.15; Nov. 1, 12.74. Measurements discontinued.

(B-5-1)15cdc (*990, p. 135). H. V. Browning. Water level, in feet below land-surface datum, 1944: Apr. 15, 17.25. Measurements discontinued.

(B-5-1)17adc (*990, p. 135). Ogden Land Co. Water level, in feet below land-surface datum, 1944: Apr. 15, 18.92. Measurements discontinued.

(B-5-1)22cda 1 (*990, p. 135). State claim 20384. G. B. Webb. Water level, in feet below land-surface datum, 1944: Apr. 15, 22.76. Measurements discontinued.

(B-5-1)27aca (*990, p. 135). J. C. Fleming. Water level, in feet below land-surface datum, 1944: Apr. 15, 55.32. Measurements discontinued.

(B-5-2)4cdd 1 (*817, p. 383; *840, p. 533; 845, p. 671; 886, p. 899; 910, p. 158; 940, p. 131; 948, p. 124; *990, p. 135). State application 11889. Samuel Peterson. Water levels, in feet above land-surface datum, 1944: Apr. 10, 35.6; Dec. 18, 33.6.

(B-5-3)15dda 1 (*817, p. 384; *840, p. 534; 845, p. 671; 886, p. 899; 910, p. 159; 940, p. 131; 948, p. 124; *990, p.135). State application 11790. T. W. Read. Water levels, in feet above land-surface datum, 1944: Apr. 10, 46.0; Dec. 18, 43.6.

(B-6-1)6caa 1 (*990, p.135). State claim 595. Martin Harris. Water levels, in feet above land-surface datum, 1944: Apr. 11, 46.9; Dec. 28, 51.0.

(B-6-1)8acb 1 (*845, p. 672; 886, p. 899; 910, p. 159; 940, p. 131; 948, p. 124; 990, p.136). L. W. Winkler and Carl Nielson. Water levels, in feet below land-surface datum, 1944: Apr. 11, 3.70; Aug. 29, 4.22; Dec. 27, 4.64.

(B-6-1)8bdd 16 (*840, p. 534; 845, p. 672; 886, p. 900; 910, p. 159; 940, p. 131; 948, p. 124; *990, p.136). State claim 5438. J. T. Bybee. Water levels, in feet above land-surface datum, 1944: Apr. 11, 11.1; Aug. 29, 10.9; Dec. 27, 8.2.

(B-6-1)9bdd 1 (*990, p.136). State claim 6353. Federal Land Bank. Water levels, in feet below land-surface datum, 1944: Apr. 15, 5.75; Oct. 26, 6.30. Measurements discontinued.

(B-6-1)16cbd 1 (*990, p.136). State claim 19537. Flintera & Huggins. Water levels, in feet below land-surface datum, 1944: Apr. 15, 12.45; Oct. 26, 11.90. Measurements discontinued.

(B-6-1)16dcb 1 (*990, p.136). Emma Spaun. Water levels, in feet below land-surface datum, 1944: Apr. 15, 13.08; Oct. 26, 13.32. Measurements discontinued.

(B-6-1)17abb 3 (*990, p.136). State claim 14838. A. G. Tobias. Water levels, in feet below land-surface datum, 1944: Apr. 15, 22.10; Oct. 26, 17.55. Measurements discontinued.

(B-6-1)21abb 1 (*817, p. 385; *840, p. 534; 845, p. 672; *886, p. 900; 910, p. 159; 940, p. 131; 948, p. 124; *990, p.136). State claim 684. Western Irrigation Co.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 15	29.02	Sept.11	a 29.55	Oct. 9	30.00	Oct. 30	a 30.66
Aug. 24	29.32	18	a 29.70	16	a 29.93	Nov. 8	a 30.80
29	29.23	25	a 29.86	23	a 30.30	Dec. 15	a 30.40
Sept. 1	a 29.37	Oct. 2	a 29.85				

a Measurement by Ogden City Corporation.

(B-6-1)21add 1 (*845, p. 672; 886, p. 904; 910, p. 159; 940, p. 131; 948, p. 124; *990, p.136). State claim 8389. Drought Relief Administration.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	.....	.....	.....	46.00	.....	46.78	47.25	48.20	47.89
2	.....	.....	.....	.....	.....	45.90	46.09	.....	46.76	47.28	48.34	47.84
3	.....	46.10	.....	46.45	.....	45.88	46.13	.....	46.86	47.28	48.36	47.88
4	.....	46.05	.....	46.39	.....	45.92	46.13	46.43	46.91	47.32	48.20	47.95
5	.....	46.10	.....	46.37	46.45	.....	46.14	46.45	46.87	47.30	.....	.....
6	.....	46.17	.....	46.40	.....	.....	46.15	46.45	46.86	47.36	.....	47.89
7	.....	46.12	46.61	46.41	.....	.....	46.12	46.45	46.93	47.45	48.16	47.87
8	.....	46.08	46.59	46.37	.....	45.84	46.12	46.46	46.97	47.46	48.35	47.84
9	45.97	45.95	.....	46.25	.....	45.89	.....	46.42	46.97	47.41	48.40	47.88
10	45.96	46.12	.....	.....	.....	45.93	.....	46.47	46.95	47.52	48.35	47.90
11	45.98	.....	.....	46.39	.....	45.93	.....	.....	46.93	47.48	48.30	47.87
12	46.10	.....	.....	46.38	.....	45.92	46.38	.....	46.98	47.48	48.20	47.88
13	46.14	.....	.....	46.36	.....	45.91	46.38	.....	47.02	47.49	.....	47.90
14	46.10	.....	.....	46.35	.....	45.90	46.43	.....	47.08	47.49	48.40	47.85

(B-6-1)21add 1--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
15	46.07	.....	.....	46.39	.....	45.95	46.46	.....	47.21	47.51	48.42	47.80
16	.....	.....	.....	46.40	.....	45.95	46.44	.....	47.31	47.50	48.41	47.77
17	.....	.....	.....	46.34	.....	45.98	46.44	.....	47.11	47.44	48.43	47.74
18	.....	.....	.....	46.44	.....	46.04	46.44	.....	47.11	47.42	48.43	47.77
19	.....	46.16	.....	.....	.....	46.02	46.50	.....	47.12	47.48	48.42	47.73
20	.....	46.13	.....	.....	.....	45.98	.....	.....	47.21	47.57	48.42	.....
21	.....	46.03	.....	.....	.....	45.94	.....	.....	47.29	47.64	48.38	47.68
22	.....	46.13	.....	.....	.....	.....	.....	.....	.....	.....	48.32	47.58
23	.....	46.15	.....	.....	.....	.....	.....	.....	47.35	47.79	48.15	47.57
24	.....	46.16	.....	.....	.....	.....	.....	46.66	47.31	47.84	48.04	47.58
25	.....	46.09	.....	.....	.....	.....	.....	46.71	47.29	47.90	48.12	47.62
26	.....	46.14	.....	.....	.....	.....	.....	46.72	47.29	47.93	48.08	47.62
27	.....	.....	.....	.....	.....	.....	.....	46.70	47.31	48.00	48.04	47.61
28	.....	.....	.....	.....	.....	46.06	.....	46.59	47.32	48.08	.....	47.52
29	.....	.....	.....	.....	.....	46.06	.....	46.60	47.30	48.13	47.98	.....
30	.....	.....	.....	.....	.....	46.04	.....	46.62	47.21	48.15	47.94	.....
31	.....	.....	.....	.....	.....	.....	.....	46.63	.....	48.13	.....	.....

(B-6-1)21bcb 1 (*990, p.137). State claim 15124. I. L. Richards. Water levels, in feet below land-surface datum, 1944: Apr. 15, 11.39; Oct. 28, 10.40. Measurements discontinued.

(B-6-1)27ccc 1 (*990, p.137). State claim 14980. W. E. Sylvester. Water levels, in feet below land-surface datum, 1944: Apr. 15, 10.20; Oct. 26, 10.72. Measurements discontinued.

(B-6-1)28cba 1 (*990, p.137). State claim 17827. A. L. Jenson. Water levels, in feet below land-surface datum, 1944: Apr. 15, 9.70; Oct. 28, 9.70. Measurements discontinued.

(B-6-1)28dba 1 (*990, p.138). City of Ogden.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	100.64	June 2	100.83	Sept.12 a	101.74	Oct. 23 a	102.43
Feb. 3	100.86	14	100.63	21	101.95	27	102.55
19	101.17	July 1	100.82	22 a	101.97	30 a	102.69
Apr. 3	101.39	Aug. 24	101.51	Oct. 9	102.15	Nov. 8 a	102.75
15	101.35	29	101.48	16 a	102.29	21 a	102.96
26	101.35	Sept. 6	101.67	18	101.93	Dec. 14 a	102.15

a Measurement by Ogden City Corporation.

(B-6-1)28dba 2 (*990, p.138). City of Ogden. Measurements discontinued.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Feb. 3	11.13	Apr. 3	10.88	June 2	9.95
19	10.97	26	10.70	July 1	10.43

(B-6-1)29abb 1 (*990, p.138). State application 13003. Becker Products Co.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	17.1	....	17.3	....	17.7	....	16.3	14.9	12.6	14.8
2	....	....	....	....	17.3	....	17.6	....	16.2	14.5	12.1	15.4
3	....	17.2	....	17.6	17.3	....	17.6	....	16.2	14.5	12.9	15.5

(B-6-1)29abb 1--Continued.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
4	....	17.0	....	17.5	17.4	....	17.6	17.5	16.3	14.8	....	15.5
5	....	17.0	....	17.4	17.5	....	17.5	17.5	16.4	14.8	....	15.6
6	....	17.0	....	17.4	17.4	....	17.5	17.4	16.0	14.4	....	15.5
7	....	16.9	....	17.5	17.5	....	17.3	17.5	15.7	14.4	....	15.7
8	....	16.9	16.9	17.6	17.6	....	17.5	17.7	15.8	14.8	12.9	15.7
9	17.0	17.2	17.0	17.2	....	16.9	17.0	17.5	15.6	14.6	12.6	15.4
10	17.1	16.9	17.3	17.2	....	16.8	16.9	17.4	15.8	14.8	12.8	....
11	16.9	17.8	17.0	17.4	....	16.7	17.6	17.4	15.6	14.9	13.0	....
12	16.6	17.4	17.1	17.3	....	16.8	17.5	17.5	15.3	14.8	13.2	....
13	16.7	17.1	17.2	17.5	....	16.8	17.5	17.4	15.2	14.5	13.2	....
14	16.5	17.4	17.1	17.2	....	16.7	17.5	17.5	15.1	14.8	13.0	....
15	16.7	16.8	17.1	17.3	....	16.8	17.5	....	14.9	14.9	13.0	....
16	17.2	....	17.2	17.3	....	16.8	17.7	....	14.9	14.7	12.9	....
17	17.1	....	....	17.0	....	16.8	17.7	....	15.4	14.7	13.0	....
18	16.0	....	....	17.4	....	16.8	17.6	....	15.3	14.5	13.2	....
19	....	....	....	17.2	....	16.7	17.6	....	14.9	14.3	13.1	....
20	....	17.4	....	17.4	....	....	17.5	....	14.8	14.1	13.1	16.2
21	....	17.4	....	17.2	....	....	17.5	....	14.9	14.0	14.1	16.1
22	....	17.2	....	17.2	....	....	17.5	....	14.6	13.8	13.9	16.3
23	....	17.2	....	17.3	....	....	17.4	....	14.5	13.7	14.4	16.5
24	....	17.2	....	....	....	....	....	17.4	14.8	13.4	14.5	16.6
25	....	17.1	....	....	....	....	....	16.9	14.7	13.3	15.7	16.7
26	....	17.1	....	....	....	....	....	16.8	14.9	13.4	15.3	16.5
27	....	17.0	....	17.4	....	....	....	16.8	15.1	13.3	14.9	16.4
28	....	17.1	....	17.4	....	16.8	....	16.9	15.1	13.2	15.8	16.7
29	....	17.2	....	17.5	....	16.8	....	16.8	15.2	13.1	15.9	16.8
30	....	....	....	17.3	....	17.4	....	16.4	14.9	13.0	14.9	16.7
31	....	....	....	....	....	....	....	16.3	....	13.1	....	17.0

(B-6-1)29ccc (*990, p. 138). Ogden Union Railroad & Depot Co.

Water level at noon, in feet above land-surface datum, 1944
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 3	a 16.7	Oct. 31	11.3	Nov. 21	12.3	Dec. 11	14.5
19	a 16.8	Nov. 1	10.9	22	12.5	12	14.5
Apr. 3	a 16.8	2	10.6	23	12.7	13	14.5
Aug. 29	a 16.2	3	10.5	24	13.1	14	14.4
Sept. 6	a 15.5	4	11.1	25	13.1	15	14.6
21	a 15.4	5	11.4	26	13.4	16	14.6
28	a 15.7	6	11.7	27	13.6	17	14.6
Oct. 9	a 14.1	7	11.2	28	14.2	18	14.6
18	13.5	8	10.8	29	14.2	19	14.6
19	13.1	9	11.1	30	14.2	20	14.6
20	12.6	10	11.5	Dec. 1	14.0	21	14.6
21	12.5	11	11.9	2	14.0	22	14.9
22	12.4	12	12.1	3	14.1	23	14.9
23	12.1	13	12.1	4	14.1	24	14.8
24	12.0	14	12.2	5	14.1	25	14.9
25	12.0	15	12.1	6	14.5	26	14.9
26	11.7	16	12.1	7	14.2	27	14.8
27	11.5	17	12.0	8	14.3	28	14.9
28	11.5	18	12.2	9	14.3	29	15.0
29	11.4	19	12.4	10	14.4	30	14.9
30	11.1	20	11.6				

a Gage measurement.

(B-6-1)30bcb 2 (*840, p. 535; 845, p. 673; 886, p. 900; 910, p. 160; 940, p. 132; 948, p. 125; *990, p.139). American Packing & Provision Co. Water levels, in feet above land-surface datum, 1944: Apr. 11, 7.6; Oct. 26, 7.7; Dec. 28, 7.5.

(B-6-1)30cca 1 (*990, p.139). State claim 1030. California Packing Corporation.

Water level at noon, in feet below land-surface datum, 1944 (From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.20	28.32	28.39	28.61	28.44	28.35	a28.34	.....	.....	.....	29.42	.....
2	28.08	28.34	28.38	28.67	28.49	28.30	.....	.....	.....	a29.23	29.41	a29.56
3	28.10	28.32	28.40	28.66	28.50	28.22	.....	.....	a29.13	.....	29.51	.....
4	28.19	28.30	28.40	28.62	28.52	28.25	.....	.....	.....	.....	29.54	.....
5	28.18	28.33	28.45	28.60	28.49	28.29	.....	a28.73	.....	.....	29.51	.....
6	28.13	28.35	28.51	28.66	28.49	28.30	.....	.....	.....	.....	29.51	.....
7	28.24	28.32	28.60	28.57	28.48	28.28	.....	.....	.....	a29.23	.....	.....
8	28.27	28.30	28.60	28.47	28.48	28.20	a28.43	.....	.....	.....	.....	.....
9	28.21	28.23	28.60	28.49	28.48	28.24	.....	.....	a29.05	.....	29.53	a29.60
10	28.17	28.36	28.53	28.54	28.49	28.25	.....	.....	.....	.....	29.52	.....
11	28.22	28.38	28.55	28.53	28.52	28.26	.....	.....	.....	.....	29.54	.....
12	28.30	28.33	28.52	28.51	28.56	28.26	.....	a28.80	.....	.....	29.49	.....
13	28.32	28.33	28.48	28.50	28.54	28.25	.....	.....	.....	.....	29.54	.....
14	28.28	28.25	28.49	28.49	28.53	28.26	.....	.....	.....	a29.29	29.60	.....
15	28.28	28.31	28.53	28.53	28.50	.....	a28.77	.....	.....	.....	29.61	.....
16	28.32	28.30	28.56	28.44	28.45	.....	.....	.....	a29.18	.....	29.62	a29.54
17	28.31	28.32	28.51	28.54	28.43	a28.34	.....	.....	.....	.....	29.63	.....
18	28.37	28.33	28.49	28.53	28.41	.....	.....	.....	.....	.....	29.63	.....
19	28.38	28.35	28.46	28.54	28.42	.....	.....	a28.91	.....	.....	29.68	.....
20	28.32	28.32	28.47	28.45	28.44	.....	.....	.....	.....	.....	29.72	.....
21	28.32	28.24	28.54	28.49	28.43	.....	.....	.....	.....	a29.30	29.74	.....
22	28.33	28.32	28.60	28.55	28.40	.....	a28.66	.....	.....	.....	29.73	.....
23	28.25	28.32	28.57	28.54	28.42	.....	.....	.....	a29.25	.....	29.63	a29.39
24	28.14	28.31	28.54	28.47	28.43	a28.44	.....	.....	.....	.....	29.58	.....
25	28.24	28.31	28.52	28.44	28.41	.....	.....	.....	.....	.....	29.66	.....
26	28.27	28.33	28.60	28.52	28.43	.....	.....	a29.03	.....	a29.43	29.65	.....
27	28.29	28.37	28.66	28.48	28.43	.....	.....	.....	.....	29.43	29.66	.....
28	28.29	28.41	28.70	28.44	28.43	.....	.....	.....	.....	29.42	29.63	.....
29	28.30	28.37	28.69	28.43	28.45	.....	a28.70	.....	.....	29.41	.....	.....
30	28.28	.....	28.65	28.30	28.43	.....	.....	.....	.....	29.42	.....	a29.43
31	28.32	.....	28.60	.....	28.41	.....	.....	.....	.....	29.43	.....	.....

a Tape measurement.

(B-6-1)32cbb (*990, p.140). State claim 13143. Utah Canning Co. Water levels, in feet below land-surface datum, 1944: Apr. 15, 8.12; Nov. 1, 12.74. Measurements discontinued.

(B-6-1)33baa 1 (*990, p.140). State claim 19828. Fronk & Burrows. Water levels, in feet below land-surface datum, 1944: Apr. 15, 8.41; Oct. 26, 9.73. Measurements discontinued.

(B-6-2)1acd 3 (*840, p. 535; 845, p. 673; 886, p. 901; 910, p. 160; 940, p. 132; 948, p. 125; 990, p.140). G. B. Taylor. Well flowing prior to measurement. Water level, in feet above land-surface datum, 1944: Dec. 28, 6.7. Measurements discontinued.

(B-6-2)8abd 1 (*840, p. 535; 845, p. 673; 886, p. 901; 910, p. 160; 940, p. 132; 948, p. 125; *990, p.140). State claim 2471. West Weber Cemetery. Water level, in feet above land-surface datum, 1944: Dec. 20, 15.8.

(B-6-2)11dad 1 (*840, p. 535; 845, p. 673; 886, p. 901; 910, p. 160; 940, p. 132; 948, p. 125; *990, p.140). State claim 5613. Jerome Wheeler. Water levels, in feet above land-surface datum, 1944: Apr. 11, 19.0; Dec. 28, 22.8.

(B-6-2)14ddb 1 (*990, p.140). W. C. Panter. Water levels, in feet above land-surface datum, 1944: Apr. 11, 14.4; Dec. 28, 18.9. Measurements discontinued after Dec. 28, 1944.

(B-6-2)17acc 1 (*817, p. 385; *840, p. 535; 845, p. 673; 886, p. 901; *910, p. 160; 940, p. 132; 948, p. 125; *990, p.140). State claim 695. H. C. Gibson. Previous measurements do not record total pressure, because one outlet has been continuously open during period of record, and cannot be closed because of sand condition. Measurements discontinued.

(B-6-2)22dcd 1 (*840, p. 535; 845, p. 673; 886, p. 901; *910, p. 161; 940, p. 132; 948, p. 125; *990, p.140). F. M. Patterson. Water levels, in feet above land-surface datum, 1944: Apr. 11, 0.51; Dec. 20, 0.40.

(B-6-2)25ccc 1 (*840, p. 535; 845, p. 674; 886, p. 901; 910, p. 161; 940, p. 132; 948, p. 125; *990, p.140). State claim 15111. G. E. Stratford. Water levels, in feet above land-surface datum, 1944: Apr. 10, 7.7; Oct. 26, 6.3; Dec. 21, 6.9.

(B-6-2)26ada 1 (*817, p. 385; *840, p. 535; *845, p. 674; *886, p. 901; *910, p. 161; 940, p. 132; 948, p. 125; *990, p.141). State claim 1196. Amalgamated Sugar Co. Water levels, in feet above land-surface datum, 1944: Apr. 10, 9.5; Oct. 26, 6.9; Dec. 20, 10.1.

(B-6-2)34dbb 1 (*840, p. 536; 845, p. 674; 886, p. 902; 910, p. 161; 940, p. 132; 948, p. 125; *990, p.141). State application 11869. Heber Swarner. Water levels, in feet above land-surface datum, 1944: Apr. 10, 22.6; Dec. 18, 24.1.

(B-6-3)26bbb 1 (*817, p. 386; *840, p. 536; 845, p. 674; 886, p. 902; 910, p. 161; 940, p. 132; 948, p. 126; *990, p.141). State claim 7505. Mrs. F. G. Kelley. Water levels, in feet above land-surface datum, 1944: Apr. 11, 29.0; Dec. 20, 28.3.

(B-7-1)32ada 1 (*817, p. 386; *840, p. 536; 845, p. 674; 886, p. 902; 910, p. 161; 940, p. 132; 948, p. 126; *990, p.141). State claim 14931. Joseph Folkman. Water levels, in feet above land-surface datum, 1944: Apr. 11, 15.0; Dec. 27, 15.2.

(B-7-2)21dc (*817, p. 388; 840, p. 537; 845, p. 674; 886, p. 902; *910, p. 161; 940, p. 132; 948, p. 126; *990, p.141). Annie Maw. Water levels, in feet above land-surface datum, 1944: Apr. 11, 3.15; Dec. 20, 2.46.

(B-7-2)32dab 1 (*840, p. 537; 845, p. 675; 886, p. 902; *910, p. 161; 940, p. 132; 948, p. 126; *990, p.141). State claim 15095. Marie Olsen. Water levels, in feet above land-surface datum, 1944: Apr. 11, 33.2; Dec. 20, 32.4.

(B-7-3)35daa 1 (*817, p. 388; *840, p. 537; 845, p. 675; *886, p. 903; 910, p. 162; 940, p. 132; 948, p. 126; *990, p.141). State claim 5489. Herman Van Braak. Water levels, in feet above land-surface datum, 1944: Apr. 11, 9.7; Dec. 20, 10.1.

Weber County - Ogden Valley

(A-6-1)2db (*817, p. 352; 840, p. 520; 845, p. 669; 886, p. 897; 910, p. 156; 940, p. 133; 948, p. 126; *990, p.141). H. B. Stallings. Water level, in feet below land-surface datum, 1944: Oct. 31, 14.55.

(A-6-1)11dc (*817, p. 354; 840, p. 521; 845, p. 669; 886, p. 897; 910, p. 156; 940, p. 133; 948, p. 126; *990, p.141). Bureau of Reclamation, U. S. Dept of Interior.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	16.70	.....	9.03	.....	.....	18.71	21.54	23.56
2	.....	.....	.....	17.12	10.50	9.08	.....	.....	18.80	21.62	23.47
3	20.64	.....	22.15	17.02	10.10	9.14	.....	.....	18.90	21.80	23.58

(A-6-1)11dc--Continued.

Water level at noon, in feet below land-surface datum, 1944
(From recorder charts)

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
4	20.67	.....	22.17	.....	8.40	9.20	12.10	.....	18.97	21.78	23.69
5	20.71	.....	22.19	17.01	8.36	9.26	12.23	16.09	19.05	21.77	.....
6	20.75	.....	22.22	17.11	8.26	9.32	12.37	16.19	19.12	21.78	23.97
7	20.79	21.41	22.24	17.40	7.60	9.39	12.51	16.29	19.20	21.75	24.06
8	20.83	21.44	22.26	17.09	5.92	.....	12.66	16.39	19.26	21.76	24.17
9	20.87	21.47	22.28	17.48	5.42	.....	12.80	16.50	19.40	21.82	24.25
10	20.91	21.50	22.33	17.24	5.19	.....	12.95	16.61	19.50	21.89	24.33
11	.....	21.54	22.33	16.71	5.11	.....	.....	16.73	19.61	21.89	24.41
12	.....	21.57	22.32	16.14	5.13	9.84	.....	16.87	19.73	21.84	24.49
13	.....	21.58	22.32	.....	5.00	9.97	.....	16.99	19.83	21.73	24.46
14	.....	21.59	22.27	.....	5.07	10.09	.....	17.11	19.94	21.81	24.72
15	.....	.....	22.26	.....	5.76	10.21	.....	17.24	20.03	21.88	24.80
16	.....	.....	22.26	.....	6.52	10.33	.....	17.36	20.15	21.95	24.86
17	.....	.....	22.24	.....	6.92	10.42	.....	17.48	20.21	22.03	24.93
18	.....	.....	22.24	.....	7.27	10.50	.....	17.61	20.30	22.11	25.00
19	21.26	.....	.....	.....	7.56	10.60	.....	17.77	20.38	22.19	25.06
20	21.29	.....	.....	.....	7.76	.....	.....	17.87	20.47	22.29	25.14
21	21.32	.....	.....	.....	7.94	.....	.....	17.95	20.57	22.38	25.41
22	21.36	.....	.....	10.95	.....	.....	.....	18.03	20.66	22.47	25.44
23	21.39	.....	.....	10.90	.....	.....	.....	16.10	20.77	22.54	25.39
24	21.43	.....	.....	10.92	.....	.....	14.74	18.19	20.84	22.67	25.41
25	21.47	.....	.....	10.94	.....	.....	14.84	18.30	20.93	22.77	25.48
26	21150	.....	21.90	10.96	.....	.....	14.97	18.43	21.01	22.88	25.57
27	.....	.....	18.40	10.99	.....	.....	15.09	18.51	21.10	23.00	25.64
28	.....	.....	16.97	11.01	8.90	.....	15.22	18.58	21.19	23.08	25.71
29	.....	.....	17.10	11.03	8.93	.....	15.34	18.60	21.28	23.16	.....
30	.....	.....	17.13	.....	8.96	.....	15.47	18.60	21.38	23.26	.....
31	.....	.....	.....	.....	.....	.....	.....	.....	21.45	.....	.....

(A-6-1)12aa 1 (*317, p. 355; 340, p. 521; 845, p. 669; 886, p. 897; 910, p. 157; 940, p. 133; 948, p. 127; *990, p.142). City of Ogden.

Water level at noon, in feet, with reference to land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	.....	-0.52	.....	+7.57	.....	.....	-5.56	-5.42	-5.30
2	.....	.....	.....	.....	-.34	+8.08	+7.36	.....	.....	-5.85	-5.39	-5.97
3	.....	-5.72	.....	-4.86	-.08	+3.57	+7.22	+1.32	.....	-5.98	-5.36	-6.11
4	.....	-5.75	.....	-4.70	.....	.....	+7.13	+1.61	.....	-5.90	-5.23	-6.14
5	.....	-5.82	.....	-4.55	+.01	.....	+6.99	+1.23	-3.55	-5.84	-5.17	.....
6	.....	-5.87	.....	-4.42	+.97	.....	+6.82	+.97	-3.63	-5.87	-5.10	-6.44
7	.....	-5.87	-6.59	-4.21	+1.35	.....	+6.71	+.79	-3.75	-5.91	-5.15	-6.49
8	-4.45	-5.90	-6.57	-3.97	+1.80	+9.14	+6.08	+.40	-3.84	-6.10	.....	-6.52
9	-4.44	-5.90	-6.55	-3.84	+2.23	+9.21	.....	+.44	-4.01	-6.13	.....	-6.34
10	-4.50	.....	-6.53	-3.67	+2.79	+9.31	.....	+.23	-4.24	-6.16	.....	-6.43
11	-4.56	.....	-6.55	-3.45	+3.38	+9.36	.....	.....	-4.40	-6.16	.....	-6.54
12	-4.67	.....	-6.50	-3.35	+3.98	+9.39	+5.35	.....	-4.50	-6.16	.....	-6.68
13	-4.75	.....	-6.44	-3.20	.....	+9.42	+5.02	.....	-4.58	-6.17	.....	-6.78
14	-4.88	.....	.....	-3.06	.....	+9.51	+4.78	.....	-4.65	-6.14	-4.30	-6.82
15	-5.01	.....	.....	-3.02	.....	+9.41	+4.61	.....	-4.84	-5.80	-4.31	-6.85
16	.....	.....	.....	-2.87	.....	+9.15	+4.42	.....	-4.80	-5.65	-4.33	-6.91
17	.....	.....	.....	-3.00	.....	+8.98	+4.63	.....	-4.76	-5.59	-4.87	-6.92
18	.....	.....	.....	-2.93	.....	+8.90	+4.66	.....	-4.94	-5.65	-4.92	-7.01
19	.....	-6.12	.....	.....	.....	+8.92	+4.15	.....	-4.98	-5.66	-5.01	-7.06
20	.....	-6.12	.....	.....	.....	+8.63	.....	.....	-4.90	-5.63	-5.16	-6.87
21	.....	-6.10	.....	.....	.....	+8.02	.....	.....	-4.77	-5.59	-5.23	-7.31
22	.....	-6.23	.....	.....	+7.39	.....	.....	.....	-4.60	-5.55	-5.35	-7.32
23	.....	-6.24	.....	.....	.....	.....	.....	.....	-4.66	-5.55	-5.37	-7.33
24	.....	-6.28	.....	.....	.....	.....	.....	-1.95	-4.66	-5.51	-5.32	-7.38
25	.....	-6.35	.....	.....	.....	.....	.....	-2.22	-5.20	-5.47	-5.49	-7.42
26	.....	-6.49	.....	-2.24	.....	.....	.....	-2.40	-5.60	-5.45	-5.52	-7.45
27	.....	.....	.....	-2.36	.....	.....	.....	-2.56	-5.21	-5.44	-5.53	-7.46

(A-6-1)12aa 1--Continued.

Water level at noon, in feet, with reference to land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
28	.....	.....	.....	-1.35	.....	+7.84	.....	-2.69	-5.04	-5.41	-5.40	-7.47
29	.....	.....	.....	-1.09	.....	+7.96	.....	-2.90	-4.95	-5.44	-5.36	.....
30	.....	.....	.....	-.86	.....	+7.87	.....	-3.37	-5.21	-5.45	-5.36	.....
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	-5.40	.....	.....

(A-6-1)13ab (*817, p. 356; 840, p. 522; 845, p. 670; 886, p. 898; 910, p. 158; 940, p. 134; 948, p. 127; 990, p. 143). Water level, in feet below land-surface datum, 1944: Oct. 31, 14.32.

(A-6-2)6aa (*817, p. 356; 840, p. 522; 845, p. 670; 886, p. 898; 910, p. 158; 940, p. 134; 948, p. 127; 990, p. 143). Water level, in feet below land-surface datum, 1944: Oct. 31, 3.93.

(A-6-2)6dd 1 (*817, p. 356; 840, p. 522; 845, p. 670; *910, p. 158; 940, p. 134; 948, p. 127; *990, p. 143). Water level, in feet below land-surface datum, 1944: Oct. 31, 10.61.

(A-6-2)16bad 1 (*817, p. 357; *840, p. 522; 845, p. 670; *886, p. 898; 910, p. 158; 940, p. 134; 948, p. 127; *990, p. 143). State claim 14230. Golden Binghsm. Water level, in feet below land-surface datum, 1944: Oct. 31, 28.85.

(A-6-2)18acc (*817, p. 357; 840, p. 522; 845, p. 671; 886, p. 898; 910, p. 158; 940, p. 134; 948, p. 127; 990, p. 143). Charles Pelt. Water level, in feet below land-surface datum, 1944: Oct. 31, 15.50.

(A-7-1)29baa 1 (*817, p. 357; *840, p. 523; 845, p. 671; 886, p. 898; 910, p. 158; 940, p. 134; 948, p. 127; *990, p. 143). State claim 14564. Elmer Gardner. Water level, in feet below land-surface datum, 1944: Oct. 31, 14.90.

(A-7-1)35cd (*817, p. 358; 840, p. 523; 845, p. 671; 886, p. 898; 910, p. 158; 940, p. 134; 948, p. 127; *990, p. 143). Water level, in feet below land-surface datum, 1944: Oct. 31, 15.57.

WASHINGTON

By T. E. Eakin and J. W. Robinson

PROGRAM OF WORK

The program of periodic measurements of water levels in observation wells in the State of Washington was continued in 1944 in connection with several projects involved in a general inventory of the ground-water resources of the State. These projects were carried out in cooperation with the Washington State Department of Conservation and Development, the city of Tacoma, and Snohomish County Public Utility District No. 1. The records obtained during 1944 include 1,542 determinations of water level, in 123 wells, distributed unevenly over 19 of the 39 counties in the State. A water-stage recorder was operated on one observation well throughout the year. Nonrecording float gages were operated throughout the year on 17 wells and during part of the year on one additional well. Of these gages, 17 were read by local well readers. More detailed information is given in the following table and in the sections relating to the four principal areas under investigation.

Distribution of observation wells in the State of Washington, 1944

County	Number of observation wells			Number of records of water level in this report		Number of wells with water-level recorders (R) or float gages (F)		
	Established during 1944	Discontinued in 1944	At year end	1943	1944	Throughout 1944	Part of 1944	At year end
Adams	0	0	3	0	5	0	0	0
Benton	0	0	1	0	3	0	0	0
Chelan	0	0	1	0	26	F1	0	F1
Franklin	0	1	5	0	14	0	0	0
Grant	0	3	15	0	199	F3	0	F3
King	0	0	1	0	1	0	0	0
Kitsap	0	0	1	0	11	0	0	0
Lewis	0	1	1	0	2	0	0	0
Lincoln	0	0	1	0	3	0	0	0
Okanogan	1	0	7	0	129	F2	F1	F3
Pierce	a 2	2	47	4	b 609	R1,F4	0	R1,F4
Skagit	0	0	1	0	2	0	0	0
Snohomish	0	1	2	0	4	0	0	0
Spokane	c 1	2	23	49	515	F7	0	F7
Thurston	0	0	1	0	3	0	0	0
Walla Walla	0	0	1	0	1	0	0	0
Whatcom	0	0	1	0	2	0	0	0
Whitman	0	0	6	0	11	0	0	0
Yakima	0	0	1	0	2	0	0	0
The State	4	10	119	53	1,542	R1,F17	F1	R1,F18

a Measurements begun in 1943.
b In addition, 12 measurements were made in 3 water-table lakes.
c Float gage installed and measurements begun in 1943.

PRECIPITATION

The first of the two following tables shows seasonal distribution of precipitation at two representative stations in Washington for 50 years of records, in inches and in percentage of the whole, also for the water year ending September 30, 1944, in percentage. The second table shows the precipitation, in inches, and in percentage of the 50-year average, at 13 stations for the water year 1943-44. These tables suggest, in part, that precipitation during the year was considerably less than average over most of or all the State, and that most of the deficiency occurred in the earlier half of the water year, which is the relatively wet part of the year. Snowfall was uncommonly light. Thus, following the dry autumn of 1943, the precipitation of the water-year 1943-44 was insufficient to accomplish average ground-water replenishment.

Monthly precipitation at two representative stations in the State of Washington in 1943-44, in percentage of the yearly average for the 50 years ending Sept. 30, 1940

Month	Olympia (for western Washington)			Waterville (for east-central Washington)		
	50-year average		1943-44	50-year average		1943-44
	Inches	Percent	Percent	Inches	Percent	Percent
October	4.32	8.2	7.6	0.73	6.6	13.7
November	8.47	16.1	4.4	1.43	12.9	5.0
December	9.37	17.8	10.2	1.72	15.6	1.8
January	7.98	15.2	11.9	1.45	13.1	6.4
February	6.40	12.2	6.6	1.20	10.9	17.5
March	5.12	9.7	4.4	.79	7.2	.7
	41.66	79.2	45.1	7.32	66.3	45.1
April	3.39	6.4	7.5	.69	6.2	16.2
May	2.38	4.5	2.1	.85	7.7	3.3
June	1.58	3.0	2.7	.83	7.5	19.1
July	.62	1.2	.0	.40	3.6	.0
August	.64	1.2	.9	.38	3.4	1.5
September	2.35	4.5	4.8	.58	5.3	8.9
	10.96	20.8	18.0	3.73	33.7	49.0
The year	52.62	100.0	63.1	11.05	100.0	94.1

Precipitation, in inches and percentages, at 13 representative stations in the State of Washington for the year ending Sept. 30, 1944

Province [a]	Station and county [b]	Precipitation 1943-44	
		Inches	Percentage of 50-year average [c]
Northern Coast Ranges	Port Angeles, Clallam	12.94	51
	Aberdeen, Grays Harbor	64.55	77
Puget-Willamette Trough	Olga, San Juan	19.86	67
	Seattle, King	21.20	65
	Olympia, Thurston	33.34	63
	Vancouver, Clark	27.42	75

a Ground-water provinces and subprovinces are defined in Water-Supply Paper 990, pages 147-152.

b All stations on lowland or regional plateau; long-term records of precipitation not available for mountain stations.

c Average for years ending Sept. 30, 1891, to 1940.

Precipitation, in inches and percentages, at 13 representative stations in the State of Washington for the year ending Sept. 30, 1944--Cont.

Province a/	Station and county b/	Precipitation 1943-44	
		Inches	Percentage of 50-year average c/
Columbia Plateau	Ellensburg, Kittitas	6.12	68
	Waterville, Douglas	10.39	94
	Kennewick, Benton	6.12	88
	Walla Walla, Walla Walla	13.11	81
Northern Rocky Mountains	Lakeside, Chelan	10.29	97
	Colville, Stevens	12.75	75
	Spokane, Spokane	11.69	77

a Ground-water provinces and subprovinces are defined in Water-Supply Paper 990, pages 147-152."

b All stations on lowland or regional plateau; long-term records of precipitation not available for mountain stations.

c Average for years ending Sept. 30, 1891, to 1940.

SUMMARY OF WATER-LEVEL FLUCTUATIONS

The following table summarizes the net change in water levels during the year ended September 30, 1944 in the four areas of the State for which fairly long records have been obtained.

Summary of water levels in certain areas in the State of Washington, 1943-44

Area	Number of observation wells	Length of water-level records (years)	Observed range of water level (feet)	Water levels at end of Sept. 1944	
				Below end of Sept. 1943 (average in feet)	Above lowest of record (average in percent of observed range)
Puget-Willamette Trough: (Pierce County); Tacoma area; wells tapping regional water body in glacial deposits:					
Long-term record	1	37	4.83	1.60	0
Short-term record	9	5-7	1.38-15.93	1.28	3
Columbia Plateau province: Columbia basin: (Adams, Franklin, and Grant Counties):					
Wells in sand and gravel	10	3-7	.57-21.1	.48	29
Wells in basalt	7	5-7	.36-14.4	1.35	38
Palouse River area, (Whitman County): artesian wells tapping basalt:					
Short-term record	1	5	6.99	a 2.25	a 14
Moderate-term record	3	9	7.80- 8.82	a .42	a 0

a End of December 1944.

Summary of water levels in certain areas in the State of Washington, 1943-44--Continued

Area	Number of observation wells	Length of water-level records (years)	Observed range of water level (feet)	Water levels at end of Sept. 1944	
				Below end of Sept. 1943 (average in feet)	Above lowest of record (average in percent of observed range)
Northern Rocky Mountains Province: Spokane Valley; (Spokane County): wells in outwash gravel:					
Intermediate-term records-influent conditions	4	16-17	12.96-20.12	1.54	27
Long-term records effluent conditions	3	28.33	16.0 -21.8	.53	8
Intermediate-term records, effluent conditions	7	14-19	4.78-19.8	1.24	20

a End of December 1944.

Tacoma area, Puget Sound subprovince

The general concept of the occurrence and fluctuations of ground-water in the Tacoma area, Pierce County, has been described in the annual water-level report for 1943 (Water-Supply Paper 990, pp. 154-155). In this area the program of water-level measurements in observation wells was continued during 1944 in cooperation with the city of Tacoma. Four rounds of measurements were made on a course of 47 wells; in addition water levels were measured monthly by means of a tape or air-gage in eight municipal wells, by Lawrence Angeline, of the Water Division, city of Tacoma, by means of float gages on four wells read about weekly by local observers, and by means of a tape in two wells measured about weekly.

Descriptions for two wells are given in this report for the first time. The water-level records for these two wells include four measurements in 1943.

In the Tacoma area ground-water levels have trended downward since measurements started in 1937. Records for 1944 indicate an average net decline of 0.8 foot in 33 wells, the lowest water levels of record in 22 wells, and water levels below the bottoms of several other wells at some time during the year.

Columbia Basin, Columbia Plateau province

The water-level program in the Columbia Basin was continued in 1944 in cooperation with the Washington State Department of Conservation and

Development. The observation wells are listed under the counties of Adams, Franklin, and Grant. During the year, measurements were made at intervals of about four months in 20 wells, and readings were taken about weekly from float gages in three additional wells.

The preceding table indicates an average decline of 0.92 foot in 17 wells that tap basalt or gravel. The net yearly change in individual wells ranged from a rise of 2.77 feet to a decline of 4.76 feet. Well 21/26-3H1, which had the greatest net decline, is in an area of heavy draft; well 16/29-35R1, which had the greatest net rise, is about 2 miles east of Othello and its water level may fluctuate in response to variations in withdrawal for public supply and railroad use at that place.

Palouse River area, Columbia Plateau province

The observation-well program in Whitman County consisted of measurements of water level in three artesian wells and two water-table wells in and near Pullman, also in one artesian well at Steptoe. In the one water-table well in which a measurement was made at the end of 1944, the water level at the end of the year was 1.26 feet below that at the end of 1943. In the three artesian wells in or near Pullman the water level declined an average of 0.42 foot in 1944 and reached a record low in each well during the year. In the artesian well at Steptoe the water level declined 2.25 feet but was still 14 percent above the lowest stage of record. Thus the water levels in these artesian wells continued the downward trend of the past several years.

Spokane Valley, Northern Rocky Mountain province

The water-level program in the Spokane Valley and Rathdrum Prairie, in Idaho, was continued in 1944. Measurements of water level from the part of this program in the State of Washington are recorded under Spokane County. One observation well is described in this report for the first time; its record includes 14 measurements of water level in 1943. Float gages were maintained throughout the year at seven wells, with readings daily to weekly by local well readers. Tape measurements were made by representatives of either the Geological Survey or the Washington Water Power Co.

Records for the observation wells in the Rathdrum Prairie area may be found in the Idaho section of this volume, under Bonner and Kootenai Counties.

There was an average net decline of 0.88 foot in the 10 wells in the area of effluent ground water that sustains the low flow of the Spokane River, and an average net decline of 1.54 feet in four wells in the upstream area where the river is influent. In observation wells on the Rathdrum Prairie, in Idaho, the average decline was even greater. Thus, at the end of 1944 ground-water storage in the Spokane Valley and in the Rathdrum Prairie was considerably less than that of 1943. On the average, the year-end ground-water levels of 15 wells, expressed in relation to the observed ranges of fluctuation, were only about 15 percent above the lowest stages of record.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Observation wells are listed alphabetically by counties and numerically by townships within each county. The system of well numbers used in this report has been described on page 157 of Water-Supply Paper 990. For convenience, the names of the appropriate ground-water areas as used in this report are added after the county names. The character of the water-bearing material is indicated following the owner's name. The altitude of the land-surface datum is given in feet "above mean sea level" if determined by aneroid barometer or interpolated from Geological Survey topographic maps; or, in feet "above sea-level datum of 1929" if determined by third-order leveling with respect to that specific datum.

Adams County

Columbia Basin

15/29-30B1 (*940, p. 139; 948, p. 135; 990, p. 158). Herman R. Kuhn. NW¼NW¼NE¼ sec. 30, T. 15 N., R. 29 E. Taps water in basalt. Water level influenced principally by precipitation. No measurements made in 1944.

16/29-35R1 (*940, p. 140; 948, p. 135; 990, p. 158). Kathryn D. Tate. SE¼SE¼SE¼ sec. 35, T. 16 N., R. 29 E. Taps water in basalt. Water level influenced principally by precipitation. Water levels, in feet below land-surface datum, 1944: Mar. 23, 300.05; Dec. 13, 298.57.

19/31-19B1 (*940, p. 140; 948, p. 135; 990, p. 158). Barbara Dormaier. NW¼NE¼ sec. 19, T. 19 N., R. 31 E. Taps water in basalt. Water level influenced principally by precipitation. Water levels, in feet below land-surface datum, 1944: Mar. 24, 184.33; Aug. 29, 184.27; Dec. 14, 184.30.

Benton County

Yakima River Basin

9/27-19G1 (*990, p. 158). Frank Decker. SW¼NE¼ sec. 19, T. 9 N., R. 27 E., in Kiona. Taps water from gravel in valley fill of the Yakima River. Water levels, in feet below land-surface datum, 1944: Mar. 23, 15.32; Sept. 1, 15.09; Dec. 10, 14.78.

Chelan County

Wenatchee River Basin

23/19-4D1 (*990, p.159). City of Cashmere well 1. (U. S. 69). Water from gravel in terrace deposit of Wenatchee River. Water level commonly depressed, at time of reading, from antecedent pumping in this and three nearby city wells.

Water level, in feet below land-surface datum, 1944
(From daily float-gage readings, by city water superintendent)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	a 13.85	Apr. 15	12.07	Aug. 1	17.19	Oct. 15	16.62
16	13.36	May 1	12.00	10	15.59	Nov. 1	16.57
Feb. 2	13.54	18	11.04	28	14.79	18	15.20
15	13.25	June 3	11.73	Sept. 1	16.23	Dec. 2	ab 24.63
Mar. 1	13.30	20	11.59	19	14.93	10	14.88
15	13.08	July 2	14.14	Oct. 1	16.52	30	15.15
Apr. 1	12.86	16	15.30				

a Pumping.
b Measured by Geological Survey.

Franklin County

Columbia Basin

9/29-25D1 (*948, p. 135; *990, p.161). Owner unknown. NW¼NW¼ sec. 25, T. 9 N., R. 29 E. Taps water in gravel of terrace deposit of Columbia River. Water levels, in feet below land-surface datum, 1944: Mar. 23, 37.74; Sept. 5, 34.70; Dec. 10, 36.21.

10/30-18G1 (*940, p. 140; 948, p. 136; *990, p. 161). J. L. DeForce. SE¼SE¼NW¼ sec. 19, T. 9 N., R. 30 E. Taps water in basalt. Water level influenced principally by precipitation. No measurements made in 1944; temporarily discontinued as observation well.

11/30-11B1 (*940, p. 141; 948, p. 136; *990, p. 161). Northern Pacific Railway. NW¼NE¼ sec. 11, T. 11 N., R. 30 E. Taps water in glacial-outwash gravel. Water level affected by infiltration from runoff in Esquatzel Coulee. Water levels, in feet below land-surface datum, 1944: Sept. 5, 111.83, adjacent well pumping; Dec 10, 111.85.

13/30-26G2 (*940, p. 141; 948, p. 136; *990, p. 161). M. M. Poe. SW¼NE¼ sec. 26, T. 13 N., R. 30 E. Taps water in glacial-outwash gravel. Water level affected by nearby pumping and by infiltration from runoff in Esquatzel Coulee. Water levels, in feet below land-surface datum, 1944: Mar. 23, 27.40; Sept. 5, 27.47; Dec. 10, 29.19, pumping; measurement may not be accurate.

13/32-10A1 (*990, p. 162). Owner unknown. NE¼NE¼ sec. 10, T. 13 N., R. 32 E. Taps water in basalt. Water levels, in feet below land-surface datum, 1944: Mar. 23, 253.98; Sept. 5, 253.92; Dec. 12, 253.99.

13/34-4G1 (*990, p. 162). City of Kahlotus. SW¼NE¼ sec. 4, T. 13 N., R. 34 E., in Kahlotus. Taps water in gravel deposit in Washtucna Coulee. Water levels, in feet below land-surface datum, 1944: Mar. 23, 48.76, pumping; Sept. 5, 49.12; Dec. 12, 48.86.

Grant County

Columbia Basin

18/30-34M1 (*990, p. 162). Owner unknown. NW¼SW¼ sec. 34, T. 18 N., R. 30 E., about 2 miles north of Warden. Probably taps water in basalt. Water levels, in feet below land-surface datum, 1944: Mar. 24, 102.58; Aug. 29, 102.84; Dec. 13, 103.14.

19/24-7J1 (*940, p. 141; 948, p. 136; *990, p.163). E. J. Hutton. NE¼SE¼ sec. 7, T. 19 N., R. 24 E. Taps water in basalt. Water level influenced principally by precipitation. Water levels, in feet below land-surface datum, 1944: Mar. 24, 170.01; Aug. 30, 171.09; Dec. 14, 171.20.

19/26-34D1 (*940, p. 142; 948, p. 138; *990, p.163). F. H. Bordwell. Water from sand in Pleistocene (?) lake deposit. Water levels, in feet below land-surface datum, 1944: Aug. 24, 92.35; Dec. 13, 92.30.

19/27-8C1 (*948, p. 138; *990, p.163). George E. Spaulding. NE¼NW¼ sec. 8, T. 19 N., R. 27 E. Taps water in basalt. Water level, in feet below land-surface datum, 1944: Aug. 26, 73.57. In latter part of year, a turbine pump was installed with no access for measurement provided. Water-level measurements subsequently discontinued.

19/27-16N1 (*948, p. 138; *990, p.163). M. R. Steele. SW¼SW¼ sec. 16, T. 19 N., R. 27 E. Taps water in glacial-outwash gravel. Deep-well turbine of 1,100 gallon-a-minute capacity installed prior to Aug. 29, 1944. Water levels, in feet below land-surface datum, 1944: Aug. 29, 68.76; Dec. 13, 68.91.

19/28-15L1 (*940, p. 142; 948, p. 139; *990, p.164). Owner unknown. NE¼SW¼ sec. 15, T. 19 N., R. 28 E. Taps water in fluvioglacial deposit. Water level affected by changes in stage of Moses Lake. Water levels, in feet below land-surface datum, 1944: Mar. 24, 58.98; Aug. 29, 60.61; Dec. 14, 60.59.

19/28-22G1 (*948, p. 139; *990, p.164). Frank W. Lees. SW¼NE¼ sec. 22, T. 19 N., R. 28 E. Taps water in glacial-outwash gravel. Water level affected by changes in stage of Moses Lake.

Water level, in feet below land-surface datum, 1944
(From float-gage readings by owner)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	25.58	Apr. 9	24.85	July 16	25.38	Oct. 15	26.05
9	25.50	16	24.84	23	25.46	22	26.07
16	25.44	23	24.79	30	25.59	25	26.09
23	25.38	30	24.80	Aug. 6	25.72	Nov. 5	25.92
30	25.31	May 7	24.82	13	25.69	12	25.82
Feb. 6	25.21	14	24.99	20	25.84	19	25.72
13	25.14	21	24.97	25	25.90	26	25.59
20	25.04	25	25.10	27	25.90	Dec. 3	25.48
27	25.00	28	25.06	29	a 25.89	10	25.40
Mar. 5	24.96	June 4	25.08	Sept. 3	25.96	13	a 25.49
12	24.92	11	25.21	10	26.00	17	25.15
19	24.90	18	25.10	24	25.95	24	25.11
24	a 24.90	25	25.18	Oct. 1	25.97	31	25.15
26	24.89	July 2	25.36	8	26.01		
Apr. 2	24.88	9	25.36				

a Measured by Geological Survey.

20/24-9E1 (*940, p. 142; 948, p. 140; *990, p.165). W. E. Huff. Formerly owned by Wenatchee Apple Land Co. Taps water in basalt. Water level affected by pumping in four irrigation wells located 0.25 mile northeast, 0.30 mile northwest, 0.50 mile west, and 0.30 mile southwest. Reaming of well begun in August 1943 and another pump installed with no access for measurement provided. Measurements discontinued.

20/26-18R1 (*940, p. 143; 948, p. 140; *990, p.165). D. J. Miles. SE¼SE¼ sec. 18, T. 20 N., R. 26 E. Probably taps water in basalt. Water levels, in feet below land-surface datum, 1944: Mar. 24, 162.27; Aug. 30, 162.35; Dec. 14. 162.29.

20/28-15F1 (*948, p. 141; *990, p.165). County of Grant. SE¼NW¼ sec. 15, T. 20 N., R. 28 E. Taps water in glacial-outwash gravel and in basalt. Water levels, in feet below land-surface datum, 1944: Mar. 24, 20.3; Aug. 29, 17.00; Dec. 14, 19.68.

21/26-3H1 (*940, p. 143; 948, p. 141; *990, p. 165). Sivert Andersen. Taps water in basalt. Water level affected by pumping in two irrigation wells located 0.25 mile north, and 0.50 mile south. Water levels, in feet below land-surface datum, 1944: Mar. 24, 136.04; Aug. 29, 145.13, nearby well pumping almost continuously through the summer period; Dec. 14, 138.74.

21/23-34A1 (*940, p. 143; 948, p. 141; *990, p. 166). Arabella E. Bunnell. NE¼NE¼ sec. 34, T. 21 N., R. 28 E. Taps water in basalt. Water level influenced principally by precipitation. Water levels, in feet below land-surface datum, 1944: Mar. 24, 96.50; Aug. 29, 96.94; Dec. 14, 97.63.

21/30-9P1 (*940, p. 143; 948, p. 142; *990, p. 166). Owner unknown. SE¼SE¼SW¼ sec. 9, T. 21 N., R. 30 E. Taps water in basalt. Water level influenced principally by precipitation. No measurements made in 1944; measurements discontinued.

22/27-30P1 (*948, p. 142; *990, p. 166). L. W. Beasley. SE¼SW¼ sec. 30, T. 22 N., R. 27 E. Taps water in basalt.

Water level, in feet below land-surface datum, 1944
(From float-gage readings by owner)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	47.67	Apr. 3	48.50	July 10	49.94	Oct. 9	47.42
10	47.61	10	48.01	17	49.69	16	45.18
17	47.73	17	48.02	24	49.49	23	45.56
24	47.74	24	48.14	31	49.20	30	45.85
31	47.77	May 1	48.24	Aug. 7	49.04	Nov. 6	46.01
Feb. 7	47.84	8	49.75	14	48.91	13	46.39
14	47.82	15	48.42	21	48.79	20	46.58
21	47.84	22	50.56	28	48.57	27	46.77
28	47.83	29	50.75	29 a	49.29	Dec. 4	46.96
Mar. 6	47.84	June 5	50.75	Sept. 4	48.41	11	47.09
13	47.97	12	50.82	11	48.32	12 a	47.13
20	47.97	19	50.77	18	48.19	18	47.12
24 a	47.80	26	50.60	25	49.91	25	47.16
27	48.00	July 3	50.25	Oct. 2	47.63		

a Measured by Geological Survey.

22/28-3R1 (*940, p. 144; 948, p. 142; *990, p. 167). Riley Parsons. SE¼SE¼ sec. 3, T. 22 N., R. 28 E. Taps water in Boulder gravel in fluvio-glacial tongue in coulee. Water level fluctuates in response to infiltration from floods of upper Crab Creek. Water levels, in feet below land-surface datum, 1944: Mar. 24, 99.77; Aug. 29, 100.27; Dec. 14, 103.7.

22/28-6R1 (*948, p. 143; *990, p. 167). Chas. A. Kennedy. SE¼SE¼ sec. 6, T. 22 N., R. 28 E. Taps water in glacial-outwash gravel.

Water level, in feet below land-surface datum, 1944
(From float-gage readings by owner)

Jan. 6	166.8	Mar. 30	165.0	June 27	160.9	Oct. 5	164.45
13	167.0	Apr. 6	164.0	July 6	161.1	12	164.55
20	167.3	13	163.5	15	161.2	19	164.85
27	167.6	20	162.8	20	161.3	26	165.25
Feb. 3	167.8	27	162.4	27	161.5	Nov. 2	165.45
10	168.0	May 4	161.9	Aug. 3	161.9	9	165.75
17	168.1	11	161.5	10	162.0	16	166.05
24	168.2	18	161.2	17	162.3	23	166.25
Mar. 2	167.0	25	161.0	24	162.67	30	166.40
9	167.6	June 1	160.9	Sept. 7	163.01	Dec. 7	167.15
16	166.8	8	160.8	14	163.40	14 a	166.98
23	166.0	15	160.7	21	163.77	22	167.45
24 a	165.77	22	160.7	28	164.05	27	167.65

a Measured by Geological Survey.

22/30-18M1 (*940, p. 144; 948, p. 143; *990, p. 167). Owner unknown. NW¼SW¼ sec. 18, T. 22 N., R. 30 E. Taps water in glacial-outwash gravel. Water level fluctuates in response to infiltration from runoff in nearby coulee. Water levels, in feet below land-surface datum, 1944: Mar. 24, 17.12; Aug. 29, 17.34; Dec. 14, 17.20.

25/29-1H1 (*990, p. 167). Mr. Moody. SE¼NE¼ sec. 1, T. 25 N., R. 29 E. Taps water in basalt. Water levels, in feet below land-surface datum, 1944: Mar. 25, 49.69; Dec. 3, 50.19.

King County

Glacial plains of the Puget Trough

26/6-13N1 (*990, p. 163). John Sinn. SW¼SW¼ sec. 13, T. 26 N., R. 6 E. Taps water in sand of fluvioglacial deposit. Water level, in feet below land-surface datum, 1944: Sept. 26, 41.50.

Kitsap County

Glacial plains of the Puget Trough

23/1-2C2 (*990, p. 168). W. A. Hiersch. NE¼NW¼ sec. 2, T. 23 N., R. 1 E. Taps water in sand in fluvioglacial deposits of an extensive rolling upland. Measured by owner.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 13	57.36	Mar. 19	57.93	May 21	58.68	Aug. 3	58.51
Mar. 5	58.08	Apr. 23	58.12	June 18	58.27	Oct. 22	58.27
12	57.74	May 14	58.47	July 9	58.44		

Lewis County

Cowlitz River Basin

11/1W-5H1 (*990, p. 169). Mrs. Joseph Sommer. SE¼NE¼ sec. 5, T 11 N., R. 1 W. Taps water in compact sand in deeply weathered terrace deposit. Water levels, in feet below land-surface datum, 1944: Apr. 27, 39.21; Dec. 31, 42.59.

Chehalis River Basin

14/2W-4E1 (*990, p. 169). City of Centralia, well 1. SW¼NW¼ sec. 4, T. 14 N., R. 2 W. Taps water in gravel in alluvial deposit of Skookumchuck River. No measurements made in 1944; measurements discontinued.

Lincoln County

Columbia Plateau

25/37-14M1 (*990, p. 170). Charles Straub, Sr. NW¼SW¼ sec. 14, T. 25 N., R. 37 E. Taps water in basalt. Water levels, in feet below land-surface datum, 1944: Mar. 25, 19.17; Aug. 22, 20.25; sec. 3, 20.90.

Okanogan County

Okanogan River Valley

34/26-26Q1 (*990, p. 170). City of Omak, well 1. SW¼SE¼ sec. 26, T. 34 N., R. 26 E. Taps water in stream gravel of Okanogan River.

Water level, in feet below land-surface datum, 1944

Jan. 10	14.71	Mar. 9	15.01	June 8	10.70	Aug. 15	14.40
17	14.80	16	15.03	19	10.90	22	14.49
24	14.91	24	15.11	26	11.40	25	14.56
Feb. 1	15.00	Apr. 1	15.20	July 7	12.70	Sept. 1	14.56
7	15.01	8	15.10	12	13.00	8	14.55
15	14.98	15	14.90	19	13.05	15	14.56
22	14.90	22	14.53	25	13.78	23	14.57
25	15.00	28	14.28	31	14.00	28	14.62
Mar. 2	14.97	June 2	10.60	Aug. 7	14.35	Oct. 7	14.41

34/26-26Q1--Continued.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 14	14.43	Nov. 4	14.22	Nov. 25	14.28	Dec. 16	13.90
21	14.47	11	14.18	Dec. 2	a 14.20	23	14.12
28	14.25	18	14.31	9	14.08	30	13.95

a Measured by Geological Survey.

34/26-28A1 (*990, p. 171). Charles Byrd. NE¼NE¼ sec. 28, T. 34 N., R. 26 E. Taps water in terrace gravel deposit west of Okanogan River. Water levels, in feet below land-surface datum, 1944: Aug. 25, 37.90, two pumps operating; Dec. 2, 32.19.

34/26-28P1 (*990, p. 171). Samuel Peterson. SE¼SW¼ sec. 28, T. 34 N., R. 26 E. Taps water in terrace gravel deposit west of Okanogan River. Water levels, in feet below land-surface datum, 1944: Aug. 25, 16.66; Dec. 2, 14.77.

34/26-35B1 (*990, p. 172). City of Omak, well 3. NW¼NE¼ sec. 35, T. 34 N., R. 26 E. Taps water in stream gravel in alluvial deposit of Okanogan River. Water levels, in feet below land-surface datum, 1944: Aug. 25, 9.34; Dec. 2, 9.84.

34/26-35R1. City of Omak well 4. SE¼SE¼ sec. 35, T. 34 N., R. 26 E. At Omak, about 475 feet south of city limit along Fourth St. (extended), beneath concrete pump house. New public-supply dug well, diameter 14 feet, depth 37 feet, open-bottom concrete casing. Three turbine pumps installed with capacities of 230, 560 and 760 gallons a minute, respectively. Water from coarse alluvial deposit of Okanogan River. Test pumped 9 hours at 2,500 gallons a minute with less than 1-foot drawdown. Measuring point, beginning Aug. 26, 1944, top edge of concrete curb for manhole at southeast corner of trap door, 0.75 foot above concrete pump floor and 7.35 feet below land-surface datum which is equal to upper concrete deck of pump house and is about 850 feet above mean sea level. One or more of three pumps operating at time of each measurement. Float-gage installed Aug. 26, 1944. Except as indicated by footnote, water levels are from readings taken by city water superintendent.

Water level, in feet below land-surface datum, 1944

Aug. 26	a 27.87	Sept. 30	27.43	Nov. 4	26.64	Dec. 9	25.66
Sept. 2	27.50	Oct. 7	27.15	11	25.82	16	25.60
9	27.69	14	26.91	18	25.66	23	25.88
16	27.80	21	26.64	25	25.66	30	25.71
26	27.56	28	26.81	Dec. 2	a 25.80		

a Measured by Geological Survey.

36/26-13K1 (*990, p. 172). Owner unknown. NW¼SE¼ sec. 13, T. 36 N., R 26 E. Taps water in fluvioglacial gravel. Water levels, in feet below land-surface datum, 1944: Aug. 26, 27.86; Dec. 3, 28.72.

40/27-28G1 (*990, p. 172). City of Oroville well 1. SW¼NE¼ sec. 28, T. 40 N., R. 27 E. Taps water in gravel of valley alluvium.

Water level, in feet below land-surface datum, 1944

Jan. 10	18.00	May 14	17.48	Aug. 1	17.44	Oct. 23	17.08
19	18.00	22	17.07	15	17.52	28	17.13
Feb. 4	18.18	26	16.94	21	17.63	30	17.11
14	18.26	June 2	16.51	26	a 17.61	Nov. 7	17.12
21	18.33	7	16.21	28	17.64	13	17.07
28	18.43	14	16.09	Sept. 4	17.65	21	17.26
Mar. 6	18.48	19	15.82	11	17.69	24	17.29
30	18.55	26	15.87	18	17.52	27	17.29
Apr. 6	18.58	July 1	16.11	25	17.28	Dec. 3	a 17.41
12	18.44	10	16.50	28	17.22	11	17.38
18	18.27	17	16.84	Oct. 5	17.12	19	17.05
24	18.28	25	17.15	10	17.05	25	17.53
May 1	18.05	28	17.28	16	17.10	27	17.47
8	17.80						

a Measured by Geological Survey.

Pierce County

Alluvial and glacial plains of the Puget Trough

17/2-16Q3. Roy Gonia. SW¼SE¼ sec. 16, T. 17 N., R. 2 E. About 3 miles south of Roy, toward McKenna, at the McKenna Spaniel Kennels at base of wooden tank tower. Used dug domestic well, diameter 48 inches, depth 39.0 feet. Regional water table. Measuring point, bottom edge of pump-base flange, at land-surface datum which is about 320 feet above mean sea level.

Water level, in feet below land-surface datum, 1943-44

Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1943	37.15	Apr. 22, 1944	34.79	Dec. 28, 1944	37.8
Dec. 2	37.50	July 25	a 36.75		

a Pumping within 5 minutes prior to measurement; maximum drawdown 1.2 feet.

17/2-16Q4. James Gonia. SW¼SE¼ sec. 16, T. 17 N., R. 2 E. About 3 miles south of Roy, toward McKenna, opposite the McKenna Spaniel Kennels in well house east of dwelling. Used drilled domestic well, diameter 6 inches, reported depth 115 feet. Confined artesian water. Measuring point, top of 6-inch casing, 0.7 foot above land-surface datum which is about 315 feet above mean sea level.

Water level, in feet below land-surface datum, 1943-44

Oct. 4, 1943	7.05	Apr. 22, 1944	6.46	Dec. 28, 1944	8.90
Dec. 2	7.05	July 25	8.15		

18/3-11N1 (*990, p.174). E. Flannery. SW¼SW¼ sec. 11, T. 18 N., R. 3 E. Water levels, in feet below land-surface datum, 1944: Apr. 18, 45.12; July 28, 47.85; Sept. 28, 49.55; Dec. 30, 52.46.

18/3-14Q1 (*990, p.175). A. S. Morris. SW¼SE¼ sec. 14, T. 18 N., R. 3 E. Taps confined water beneath the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 44.33; July 28, 48.05; Sept. 28, 50.79; Dec. 30, 51.88.

18/3-27E1 (*990, p.175). H. E. Bowman. SW¼NW¼ sec. 27, T. 18 N., R. 3 E. Regional water table above the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 14.83; July 28, 16.94; Sept. 28, 16.86; Dec. 30, 15.17.

18/4-3E1 (*990, p.176). John Howard. SW¼NW¼ sec. 3, T. 18 N., R. 3 E. Regional water table below the Vashon till. Well caved early in 1944; measurements discontinued.

18/4-3M1 (*990, p.176). C. F. Southard. NW¼SW¼ sec. 3, T. 18 N., R. 4 E. Perched water table, in or above the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 1.22; July 28, 6.19; Sept. 28, dry; Dec. 30, 1.24.

18/4-7P1 (*990, p.177). Joe Jupiter. SE¼SW¼ sec. 7, T. 18 N., R. 4 E. Regional water table below the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 78.42; July 28, 79.27; Sept. 28, 79.29; Dec. 30, 79.70.

18/4-10N1 (*990, p. 177). Fred Erickson. SW¼SW¼ sec. 10, T. 18 N., R. 4 E. Perched water table, above the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 2.85; July 28, measurements discontinued as well no longer accessible.

18/4-14C1 (*990, p.178). W. Rodlund. NE¼NW¼ sec. 14, T. 18 N., R. 4 E. Probably in the regional zone of saturation. Water levels, in feet below land-surface datum, 1944: Apr. 18, 58.45; July 28, 59.80; Sept. 28, 60.83; Dec. 30, 61.86.

19/2-10F1 (*990, p. 178). Lakewood Water District. Formerly owned by Fort Lewis Area Water District. Confined water, probably nonartesian.

Water level, in feet below land-surface datum, 1944
(From float-gage readings by L. E. Crusoe, operator)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	48.59	June 6	46.56	Aug. 27	48.55	Oct. 25	49.36
10	48.55	9	46.58	27	48.54	29	49.41
13	48.54	12	46.90	28	48.65	30	49.47
24	48.27	13	47.11	Sept. 5 a	49.42	31	49.40
28	48.18	14	46.96	18	48.92	Nov. 1	49.40
Feb. 6	47.99	15	46.93	19	48.88	3	49.39
18	47.47	16	47.04	20	48.87	9	49.49
23	47.23	17	46.86	21	48.91	11	49.48
Mar. 1	47.19	18	46.81	23	48.90	14	49.51
8	47.11	22	47.05	24	48.94	23	49.52
15	47.04	July 25	43.45	27	48.96	26	49.53
Apr. 2	46.86	28 a	48.84	29	48.99	29	49.55
22 a	46.64	Aug. 7	48.54	30	49.03	30	49.56
May 3	46.50	14	48.35	Oct. 3	49.06	Dec. 1	49.56
4	46.57	21	48.80	7	49.07	1	49.56
10	46.48	21	48.74	9	49.11	5	49.56
27	46.45	26	48.65	12	49.15	13	49.63
June 1	46.49	26	48.60	16	49.23	18	49.63
3	46.56	26	48.58	24	49.39	30	49.67

a Measured by Geological Survey.

19/3-2Q1 (*990, p. 182). I. G. Young. SW¼SE¼ sec. 2, T. 19 N., R. 3 E. Local perched water table, in the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 0.76; July 28, 6.60; Sept. 28, 8.70; Dec. 29, 5.40.

19/3-3Q1 (*990, p. 182). D. Stuart, tenant. SW¼SE¼ sec. 3, T. 19 N., 3 E. Regional water table. Water levels, in feet below land-surface datum, 1944: Apr. 18, 152.87; July 28, 153.67; Sept. 28, 155.30; Dec. 29, 156.80.

19/3-7B1 (*990, p. 183). L. F. Van der Stoep. NW¼NE¼ sec. 7, T. 19 N., R. 3 E. Regional water table, above the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 12.39; July 28, 14.39; Sept. 28, 15.50; Dec. 29, 16.10.

19/3-9C1 (*990, p. 183). N. G. Kramer. NE¼NW¼ sec. 9, T. 19 N., R. 3 E. Perched water table in the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 13.20; July 28, 16.90; Sept. 28, 19.65; Dec. 28, 21.76.

19/3-28F1 (*990, p. 184). C. C. Modahl. SE¼NW¼ sec. 28, T. 19 N., R. 3 E. Depth given in Water Supply Paper 990 should be corrected to read 35 feet. Regional water table, above the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 22, 30.40; July 25, 32.13; Sept. 28, 33.18; Dec. 28, well dry at 31 feet below land-surface; new well drilled in same pit to depth of 56 feet and old well partly caved.

19/3-33L1 (*990, p. 184). B. M. Shandrow. NE¼SW¼ sec. 33, T. 19 N., R. 3 E. Semiperched water table, above the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 22, 16.05; July 25, 18.00; Sept. 28, 13.50; Dec. 28, 18.67.

19/4-4J1 (*990, p. 185). O. S. Peterson. NE¼SE¼ sec. 4, T. 19 N., R. 4 E. Perched water table in the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 16.95; July 28, 26.00, recovering from recent pumping; Sept. 28, 23.34; Dec. 29, 23.10.

19/4-7A1 (*990, p. 185). S. Lilja. NE¼NE¼ sec. 7, T. 19 N., R 4 E. Perched water table in the Vashon till.

19/4-7A1--Continued.

Water level, in feet below land-surface datum, 1944
(From float-gage readings by owner)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	35.33	Apr. 18	27.61	July 17	33.14	Oct. 3	34.72
10	35.01	18 a	27.55	24	33.34	10	34.85
18	33.33	24	27.23	28 a	33.48	16	35.02
24	30.15	May 2	27.68	31	33.55	23	35.20
31	27.33	8	27.78	Aug. 7	33.77	30	35.35
Feb. 8	25.73	15	28.40	14	33.93	Nov. 6	35.45
14	24.45	22	28.98	21	34.03	13	35.56
21	24.08	29	29.69	28	34.18	20	35.68
28	24.56	June 5	30.43	Sept. 1	34.23	27	35.76
Mar. 6	25.16	12	31.10	6	34.30	Dec. 4	35.83
13	25.30	19	31.73	11	34.38	11	35.78
20	25.39	26	32.23	18	34.49	19	35.71
27	25.93	July 3	32.60	25	34.60	25	35.71
Apr. 3	26.25	10	32.92	28 a	34.64	29 a	35.70
10	27.02						

a Measured by Geological Survey.

19/4-20K3 (*990, p. 187). Mrs. Margaret Gould. NW¼SE¼ sec. 20, T. 19 N., R. 4 E. Regional water table. Water levels are from tape measurement readings by Floyd R. Blyton, well reader.

Water level, in feet below land-surface datum, 1944

Jan. 3	187.4	Feb. 14	187.4	May 8	189.0	June 19	188.6
10	188.4	21	186.8	15	189.2	Sept. 28 a	189.73
17	188.8	23	186.4	22	189.0	Oct. 16	188.2
24	188.8	Mar. 6	185.8	29	189.2	23	188.8
31	188.4	13	185.4	June 5	189.2	30	189.0
Feb. 7	187.4	May 1	189.0	12	189.0	Dec. 31	186.4

a Measured by Geological Survey.

19/4-21G1 (*990, p. 187). Leroy Powell. SW¼NE¼ sec. 21, T. 19 N., R. 4 E. Perched water table, just above the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 18, 2.23; July 28, 4.99; Sept. 28, 5.34; Dec. 30, 4.90.

19/4-24A1 (*990, p. 187). Birchal A. Baker. NE¼NE¼ sec. 24, T. 19 N., R. 4 E. Regional water table. Water levels, in feet below land-surface datum, 1944: Apr. 22, 16.40; Sept. 27, 16.78; Dec. 29, 16.80.

19/4-24A2 (*990, p. 188). Birchal A. Baker. NE¼NE¼ sec. 24, T. 19 N., R. 4 E. Regional water table. Water levels, in feet below land-surface datum, 1944: July 27, 16.72; Sept. 27, 16.82.

19/4-24A3 (*990, p. 188). Birchal A. Baker. NE¼NE¼ sec. 24, T. 19 N., R. 4 E. Confined nonartesian water. Water levels, in feet below land-surface datum, 1944: Apr. 22, 15.04; July 27, 15.25; Sept. 27, 15.30.

19/5-19M1 (*990, p. 188). C. J. Lawson. NW¼SW¼ sec. 19, T. 19 N., R. 5 E. Regional water table. Water levels are from tape measurements by owner.

Water level, in feet below land-surface datum, 1944

Jan. 7	2.5	Mar. 28	2.6	Aug. 5	3.0	Oct. 31	3.4
19	2.2	Apr. 22 a	2.68	17	3.1	Nov. 14	3.5
28	1.8	May 15	2.7	29	3.2	28	3.0
Feb. 9	1.6	24	2.5	Sept. 9	3.3	Dec. 21	3.0
19	2.2	June 15	2.6	21	3.0	28	3.1
29	2.4	26	2.7	27 a	3.99	29 a	3.0
Mar. 16	2.3	July 7	2.6	Oct. 7	3.0		

20/2-10F1 (*990, p.189). C. L. Stout. SE¼NW¼ sec. 10, T. 20 N., R. 2 E. Probably semiperched water table below the Vashon till.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	102.85	Apr. 16	103.60	July 15	104.15	Oct. 15	104.60
8	102.80	21 a	103.68	23	104.10	22	104.60
15	102.35	23	103.50	30	104.15	29	104.65
23	102.75	30	103.70	Aug. 6	104.20	Nov. 5	104.70
30	102.85	May 7	103.75	13	104.25	12	104.70
Feb. 6	103.10	14	103.60	20	104.30	19	104.80
13	102.95	21	103.80	27	104.30	26	104.80
20	102.95	28	103.85	Sept. 3	104.40	Dec. 3	104.85
27	103.15	June 4	103.95	10	104.40	9	104.85
Mar. 13	103.15	13	103.90	16	104.45	17	104.85
27	103.35	17	103.95	27 a	104.48	23	104.90
Apr. 2	103.35	July 2	104.10	Oct. 1	104.60	31	105.00
9	103.60	10	104.10	8	104.60		

a Measured by Geological Survey.

20/2-10K1 (*990, p.189). C. W. Holman. NW¼SE¼ sec. 10, T. 20 N., R. 2 E. Probably semiperched water table. Water levels, in feet below land-surface datum, 1944: Apr. 21, 59.5; July 27, 60.55; Sept. 27, dry; Dec. 28, dry.

20/2-13H1 (*990, p.190). City of Tacoma well 4-A. SE¼NE¼ sec. 13, T. 20 N., R. 2 E. Confined, nonartesian water in large part. Water levels are from tape measurements or air-gage readings by Tacoma Water Division.

Water level, in feet below land-surface datum, 1944

Jan. 31	14.53	May 30 a	15.48	Sept.28	15.92	Dec. 6 c	115.5
Feb. 28	14.46	June 27	15.34	Oct. 31	15.79	7 c	116
Apr. 18 a	14.62	July 31 b	17.71	Dec. 4 c	113	8 c	116.5
28	14.73	Aug. 29	16.01	5 c	115	27	16.03

a Measured by Geological Survey.
b Pump operating in well or adjacent wells within 5 days.
c Lowest daily pumping level; pump on from 9:10 a.m., Dec. 4, until 7:25 p.m., Dec. 8.

20/2-13J1 (*990, p.191). City of Tacoma well 6-A. NE¼SE¼ sec. 13, T. 20 N., R. 2 E. Confined, nonartesian water in large part. Water levels are from tape measurements or air-gage readings by Tacoma Water Division.

Water level, in feet below land-surface datum, 1944

Jan. 31	34.58	June 27	35.67	Oct. 31	36.12	Dec. 7 c	83
Feb. 28	34.54	July 31 b	37.76	Dec. 4 c	80	8 c	83
Apr. 18 a	34.73	Aug. 29	36.33	5 c	81	10 c	81
28	34.87	Sept.28	36.19	6 c	86	27	36.46
May 30 b	35.82						

a Measured by Geological Survey.
b Pump operating in well or adjacent wells within 5 days.
c Lowest daily pumping level; pump on from 10:55 p.m., Dec. 3, until 7:17 p.m., Dec. 8, and from 11:00 a.m., Dec. 10, until 12:30 a.m., Dec. 11.

20/2-15L2 (*990, p.192). C. H. Erickson. NE¼SW¼ sec. 15, T. 20 N., R. 2 E. Probably semiperched water table below the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 21, 125.89; July 27, 126.84; Sept. 27, 127.15; Dec. 28, 126.90.

20/2-24F1 (*990, p.193). S. W. Bell. SE¼NW¼ sec. 24, T. 19 N., R. 2 E. Regional water table below the Vashon till. Pump operating at time of each measurement. Water levels, in feet below land-surface datum, 1944: Apr. 21, 64.37; July 26, 65.25; Sept. 28, 65.89.

20/2-26J1 (*990, p. 193). James Holroyd. NE¼SE¼ sec. 26, T. 20 N., R. 2 E. Regional water table, above the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 21, 29.97; July 27, 32.97, fifteen-gallon-a-minute pump shut off two minutes prior to measurement; Sept. 27, 32.54; Dec. 28, 32.18.

20/3-9E1 (*990, p. 195). National Soap Co. SW¼NW¼ sec. 9, T. 20 N., R. 3 E. Confined, nonartesian water below the Vashon till. Water level depressed somewhat by continuous pumping in nearby refrigeration well 9E3; pump off over night in well 9E2 before each measurement. Water levels, in feet below land-surface datum, 1944: Sept. 29, 74.6; Dec. 28, 70.6.

20/3-18D1 (*990, p. 196). City of Tacoma well 2-A. NW¼NW¼ sec. 18, T. 20 N., R. 3 E. Confined, nonartesian water in large part. Water levels are from tape measurements or air-gage readings by Tacoma Water Division.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	26.77	June 11 a	26.99	Sept. 28	28.87	Dec. 6 c	120.5
Feb. 28	27.11	27	26.99	Oct. 31	27.93	7 c	122
Apr. 18 a	28.08	July 31 b	42.85	Dec. 4 c	116	8 c	121.5
28	28.26	Aug. 29	27.84	5 c	120	27	27.77
May 30 b	29.22						

a Measured by Geological Survey.
b Pump operating in well or in adjacent wells within 5 days.
c Lowest daily pumping level; pump on from 11:30 p.m., Dec. 3, until 7:30 p.m., Dec. 8.

20/3-19F1 (*990, p. 197). City of Tacoma well 5-A. SE¼NW¼ sec. 19, T. 20 N., R. 3 E. Confined, nonartesian water in large part. Water levels are from tape measurements or air-gage readings by Tacoma Water Division.

Water level, in feet below land-surface datum, 1944

Jan. 31	38.66	June 27	38.89	Oct. 31	40.81	Dec. 7 c	123
Feb. 28	36.36	July 31	40.74	Dec. 4 c	116	8 c	119
Apr. 19 a	36.98	Aug. 29	40.81	5 c	120	9	40.98
28	37.04	Sept. 28	40.87	6 c	122.5	27	41.00
May 30 b	38.35						

a Measured by Geological Survey
b Pump operating in well or adjacent wells within 5 days.
c Lowest daily pumping level; pump on from 10:37 p.m., Dec. 3, until 7:10 p.m., Dec. 8.

20/3-19P1 (*990, p. 199). City of Tacoma well 1-A. SE¼SW¼ sec. 19, T. 20 N., R. 3 E. Confined, nonartesian water in large part. Water levels are from tape measurements or air-gage readings by Tacoma Water Division.

Water level, in feet below land-surface datum, 1944

Jan. 31	30.75	June 27	31.57	Oct. 31	32.40	Dec. 7 c	113
Feb. 28	30.55	July 31 b	38.55	Dec. 4 c	111	8 c	113
Apr. 21 a	30.94	Aug. 29	32.60	5 c	112	10 c	106
28	30.96	Sept. 28	32.56	6 c	112	27	32.20
May 30 b	31.76						

a Measured by Geological Survey.
b Pump operating in well or adjacent wells within 5 days.
c Lowest daily pumping level; pump on from 4:55 p.m., Dec. 3, until 12:00 a.m., Dec. 8, and from 9:12 a.m., Dec. 9, until 11:35 p.m., Dec. 10.

20/3-30C2 (*990, p. 208). U. S. well No. 68. City of Tacoma well 5. NE¼NW¼ sec. 30, T. 20 N., R. 3 E. Confined, nonartesian water in large part. Water-stage recorder operated in well from Jan. 1 through March, and from August through December.

20/3-30C2--Continued.

Water level, in feet below land-surface datum, 1944
(Selected noon levels, from recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	36.86	Mar. 10	36.59	Aug. 25	38.43	Oct. 25	38.37
10	36.85	15	36.60	30	38.51	31	38.35
15	36.84	20	36.65	31 a	75.1	Nov. 5	38.23
20	36.76	25	36.69	Sept. 5	38.44	10	38.01
25	36.69	31	36.75	10	38.39	15	38.08
31	36.57	Apr. 18 b	36.64	11 a	75.2	20	33.08
Feb. 5	36.58	21 b	36.74	15	38.86	23	37.90
7 a	52.34	Aug. 2 a	63.35	20	38.30	Dec. 6 a	109.0
10	36.96	5 a	59.0	30	38.55	8 a	110.0
15	36.48	10	38.75	Oct. 5	38.38	15	39.18
20	36.34	11 a	52.25	10	38.33	20	38.61
24 a	50.3	15 a	38.63	17	38.36	25	38.43
25	37.16	20	38.58	20	38.32	28	38.30
Mar. 5	36.57						

a Lowest daily water level during periods of drawdown and recovery from pumping adjacent public-supply wells.
b Measured by Geological Survey.

20/3-30C4 (*990, p. 212). City of Tacoma well 8-A. NE¼NW¼ sec. 30, T. 20 N., R. 3 E. Confined, nonartesian water in large part. Water levels are from tape measurements or air-gage readings by Tacoma Water Division.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	36.56	June 27	37.38	Dec. 4 c	103	Dec. 8 c	104
Feb. 28	36.42	July 31 b	43.61	5 c	106	9 c	102
Apr. 19 a	36.62	Aug. 29	33.35	6 c	106	10 c	104
28	36.77	Sept.28	38.31	7 c	106	27	38.06
May 30	37.54	Oct. 31	38.15				

a Measured by Geological Survey.
b Pump operating in well or adjacent wells within 5 days.
c Lowest daily pumping level; pump on from 12:10 a.m., Dec. 4, until 7:00 p.m., Dec. 8, and from 12:15 p.m., Dec. 9, until 12:20 a.m., Dec. 11.

20/3-30L5 (*990, p. 221). City of Tacoma well 7-A. SE¼NW¼ sec. 30, T. 20 N., R. 3 E. Confined, nonartesian water in large part. Water levels are from tape measurements or air-gage readings by Tacoma Water Division.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	21.49	June 27	22.37	Oct. 31	22.86	Dec. 7 c	90
Feb. 28	21.42	July 31 b	25.10	Dec. 4 c	84	8 c	90
Apr. 19 a	21.67	Aug. 29	23.08	5 c	87	10 c	87
28	21.73	Sept.28	23.07	6 c	89	27	23.14
May 30 b	27.57						

a Measured by Geological Survey.
b Pump operating in well or adjacent wells within 5 days.
c Lowest daily pumping level; pump on from 12:30 a.m., Dec. 4, until 6:53 p.m., Dec. 8, and from 1:30 a.m., Dec. 10, until 1:27 a.m., Dec. 11.

20/3-30N1 (*990, p. 222). City of Tacoma well 3-A. SW¼SW¼ sec. 30, T. 20 N., R. 3 E. Confined, nonartesian water in large part. Water levels are from tape measurements or air-gage readings by Tacoma Water Division.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	39.41	Apr. 28	39.27	Sept.28	40.79	Dec. 7 d	96.5
Feb. 6 a	88	May 30 c	40.00	Oct. 31	40.68	8 d	98
7 a	91	June 27	40.00	Dec. 4 d	96	10 d	96
28	39.09	July 31 c	42.50	5 d	98	27	40.93
Apr. 19 b	39.14	Aug. 29	40.77	6 d	96.5		

a Lowest daily pumping level.
b Measured by Geological Survey.
c Pump operating in well or adjacent wells within 5 days.
d Lowest daily pumping level; pump on from 12:40 a.m., Dec. 4, until 6:45 p.m., Dec. 8, and from 1:40 a.m., Dec. 10, until 12:40 a.m., Dec. 11.

20/3-32D2 (*990, p. 224). Mr. Bronson. NW¼NW¼ sec. 32, T. 20 N., R. 3 E. Regional water table, below the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 22, 64.04; July 27, 64.32; Sept. 27, 65.04; Dec. 29, 65.89.

20/3-32D3 (*990, p. 224). E. Lambert. NW¼NW¼ sec. 32, T. 20 N., R. 3 E. Perched water body, on the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 22, 11.65; July 27, 13.69; Sept. 27, dry; Dec. 29, dry.

20/3-34E1 (*990, p. 225). Frank Reding. SW¼NW¼ sec. 34, T. 20 N., R. 3 E. Perched water body, just above the Vashon till. Water levels, in feet below land-surface datum, 1944: Apr. 22, 2.94; July 27, 8.60; Sept. 27, 10.80; Dec. 29, 4.13.

20/3-35G1 (*990, p. 225). I. S. Broxson. SW¼NE¼ sec. 35, T. 20 N., R. 3 E. Regional water table below the Vashon till.

Water level, in feet below land-surface datum, 1944
(From float-gage readings by owner)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	181.28	Apr. 30	181.49	Aug. 17	181.28	Oct. 22	181.56
22	181.28	May 7	181.45	21	181.29	29	181.58
30	181.36	18	181.41	22	181.30	Nov. 6	181.61
Feb. 7	181.35	25	181.38	25	181.31	7	181.62
12	181.39	30	181.37	30	181.33	12	181.64
20	181.41	June 10	181.32	Sept. 1	181.33	17	181.67
22	181.43	18	181.29	3	181.34	19	181.68
Mar. 2	181.45	22	181.28	8	181.35	26	181.70
9	181.50	25	181.27	12	181.36	30	181.72
12	181.51	July 1	181.27	17	181.39	Dec. 3	181.75
17	181.52	10	181.24	21	181.40	8	181.77
19	181.53	16	181.24	25	181.43	10	181.78
26	181.54	27	181.23	27 a	181.47	17	181.80
Apr. 2	181.54	31	181.25	Oct. 3	181.47	25	181.84
7	181.54	Aug. 4	181.25	8	181.50	29 a	181.87
16	181.53	7	181.26	12	181.51	31	181.89
20	181.52	13	181.27				

a Measured by Geological Survey.

20/4-24F2 (*990, p. 226). Standard Brands of California, Inc. SE¼NW¼ sec. 24, T. 20 N., R. 4 E. Confined artesian water. Pump operating in nearby well 24F3 at time of each measurement. Water levels, in feet below land-surface datum, 1944: Apr. 22, 0.63; July 27, 1.74; Sept. 27, 1.78.

20/4-24F3 (*990, p. 227). Standard Brands of California, Inc. SE¼NW¼ sec. 24, T. 20 N., R. 4 E. Confined artesian water. Pump operating in well at time of each measurement. Water levels, in feet below land-surface datum, 1944: Apr. 22, 1.49; July 27, 3.52; Sept. 27, 3.44.

20/4-36H2 (*990, p. 227). Frank Chervenka. SE¼NE¼ sec. 36, T. 20 N., R. 4 E. Probably regional water table. Water levels, in feet below land-surface datum, 1944: Apr. 22, 7.05; July 27, 7.93; Sept. 27, 8.18; Dec. 29, 7.93.

21/2-25B2 (*990, p. 228). City of Tacoma. NW¼NE¼ sec. 25, T. 21 N., R. 2 E. Confined water. Water levels, in feet below land-surface datum, 1944: Apr. 21, 44.27; July 27, 44.85; Sept. 27, 45.04; Dec. 28, 44.84.

21/3-26N1 (*990, p. 228). City of Tacoma well Tideflats 1. SW¼SW¼ sec. 26, T. 21 N., R. 3 E. Confined, artesian (flowing) water. During 1944 the water level was below land-surface datum and measurements were not obtainable.

Stages in water-table lakes

American Lake (*990, p. 230). T. 19 N., R. 2 E., in secs. 10, 15, 16, 17, 20, 21, 29, and 30. Murray Creek enters from east; no surface outlet. Small quantities of water withdrawn from lake on numerous abutting properties. Lake stages, in feet above sea-level datum of 1929, 1944: Apr. 22, 230.65; July 28, 229.1; Sept. 27, 228.0; Dec. 28, 228.1.

Gravelly Lake (*990, p. 230). T. 19 N., R. 2 E., in secs. 10 and 11. No surface inlets or outlets. Small quantities of water withdrawn in summer for use on abutting properties. Lake stages, in feet above sea-level datum of 1929, 1944: Apr. 22, 213.2; July 28, 212.22; Sept. 27, 211.0; Dec. 28, 210.5.

Spanaway Lake (*990, p. 231). T. 19 N., R. 3 E., in secs. 20, 28, and 29. Small stream enters from south; discharge northward by Spanaway Creek. Lake stages, in feet above approximate sea-level datum, 1944: Apr. 22, 320.98; July 25, 320.66; Sept. 28, 320.60; Dec. 28, 320.90; measurements discontinued.

Skagit County

Alluvial plain of the Skagit River

35/5-30M1 (*990, p. 233). City of Sedro Woolley. In Sedro Woolley, in NW¼SW¼ sec. 30, T. 35 N., R. 5 E. Taps water in flood-plain deposit of Skagit River. Water levels, in feet below land-surface datum, 1944: Apr. 25, 7.43; Sept. 25, 7.94.

Snohomish County

Puget Sound Subprovince

30/7-18L1 (*990, p. 233). City of Granite Falls well 2. In Granite Falls, in NE¼SW¼ sec. 18, T. 30 N., R. 7 E. Taps water in gravel and sand in alluvial deposit of Pilchuck River, a tributary of the Snohomish River. Water levels, in feet below land-surface datum, 1944: Apr. 25, 12.78; Sept. 26, 17.48.

30/7-18N1 (*990, p. 233). City of Granite Falls. In Granite Falls, in SW¼SW¼ sec. 18, T. 30 N., R. 7 E. Taps water in alluvial deposit of Pilchuck River. Water levels, in feet below land-surface datum, 1944: Apr. 25, 3.78; Sept. 26, 5.66.

30/7-18N2 (*990, p. 233). City of Granite Falls well 1. In Granite Falls, in SW¼SW¼ sec. 18, T. 30 N., R. 7 E. Well capped; measurements discontinued.

Spokane County

Columbia Plateau

24/41-10A1 (*948, p. 149; *990, p. 234). Delbert Kramer. NE¼NE¼ sec. 10, T. 24 N., R. 41 E. Taps water in basalt. Considerable drawdown within short period of pumping, recovers slowly. Water levels, in feet below land-surface datum, 1944: Mar. 27, 34.19; Aug. 22, 38.64; Dec. 7, 40.02.

25/41-36R1 (*948, p. 150; *990, p. 234). J. D. Stark. SE¼SE¼ sec. 36, T. 25 N., R. 41 E. Taps water in basalt. Water levels, in feet below land-surface datum, 1944: Mar. 27, 24.80; Aug. 24, 27.77; Dec. 7, 28.33.

Spokane Valley

25/42-13B1 (886, p. 918; 889-B, pp. 93, 94; 910, p. 169; 940, p. 144; 948, p. 143; *990, p. 234). Washington Water Power Co. well 90. Empire Ice and Shingle Co. NW¼NE¼ sec. 13, T. 25 N., R. 42 E. Taps water in tongue of fluvioglacial gravel in Spokane Valley. Pump operating in well at time of each measurement.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Feb. 10	191.42	May 17	188.48	Aug. 18	193.01
Mar. 29	192.14	July 11	191.62	Dec. 4	193.17

25/42-14L1 (*948, p. 143; *990, p. 234). Riverside Park Cemetery Association. NE¼SW¼ sec. 14, T. 25 N., R. 42 E. Taps water in gravel of fluvioglacial outwash in Spokane Valley.

25/42-14L1--Continued.

Water level, in feet below land-surface datum, 1944
(From float-gage readings by maintenance employees)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	98.05	Apr. 21	97.13	July 16	99.00	Oct. 10	99.55
20	98.22	26	96.59	24	99.43	17	99.62
25	98.50	May 1	96.17	30	99.77	21	99.51
31	98.44	9	96.01	Aug. 5	99.92	25	99.53
Feb. 5	98.36	15	95.62	9	100.29	30	99.44
10	98.28	21	95.94	13	99.96	Nov. 4	99.43
15	98.24	25	95.87	21	a 99.98	9	99.50
21	98.28	31	96.02	25	99.82	16	99.44
25	98.37	June 2	95.98	Sept. 1	99.90	25	99.38
Mar. 1	98.48	6	96.19	5	99.68	30	99.48
6	98.58	10	96.61	11	99.72	Dec. 4	a 99.43
10	98.48	15	96.81	15	99.75	8	99.43
15	98.52	21	97.05	20	99.54	15	99.47
20	98.57	26	98.03	25	99.51	20	99.43
25	98.62	July 4	97.95	30	99.69	26	99.60
27	a 98.64	10	98.49	Oct. 5	99.52	30	99.61
30	98.64						

a Measured by Geological Survey.

25/43-11G3 (386, p. 919; *889-B, pp. 98, 99; 910, p. 170; 940, p. 145; 948, p. 144; *990, p. 235). City of Spokane, Water Division well 3. SW¼NE¼ sec. 11, T. 25 N., R. 43 E. Taps water in tongue of fluvioglacial gravel in Spokane Valley. Water level depressed somewhat by continuous withdrawal in this or adjacent wells or both.

Water level, in feet below land-surface datum, 1944
(From float-gage readings at 8 a.m. by
A. H. Schaefer, pumping-plant engineer)

Jan. 3	27.22	Mar. 29	27.52	June 26	28.12	Oct. 16	28.68
10	26.80	Apr. 3	27.28	July 3	28.86	23	28.09
17	27.49	10	25.78	10	(b)	30	28.27
24	29.29	17	22.39	Aug. 19	a 29.65	Nov. 5	28.48
31	26.32	24	22.98	21	29.48	13	28.36
Feb. 6	28.58	May 1	22.53	28	29.38	20	27.65
14	26.80	8	23.64	Sept. 4	29.21	27	28.95
21	26.95	15	25.20	11	28.78	Dec. 4	28.08
28	27.43	22	26.20	18	29.12	5	a 28.66
Mar. 6	27.64	29	26.07	25	28.70	11	28.15
13	27.43	June 5	26.64	Oct. 2	28.48	18	27.73
20	27.95	12	27.15	9	28.22	26	26.34
27	27.58	19	27.03				

a Measured by Geological Survey.
b Float-gage tape too short to obtain low level readings between Aug. 10 and 19.

25/43-11G4 (386, p. 919; *889-B, pp. 99, 100; 910, p. 171; 940, p. 145; 948, p. 145; *990, p. 235). City of Spokane, Water Division well 4. SW¼NE¼ sec. 11, T. 25 N., R. 43 E. Taps water in fluvioglacial gravel in Spokane Valley. Water level depressed somewhat by continuous withdrawal from this well or adjacent well, or both. Water levels, in feet below land-surface datum, 1944: Aug. 19, 31.42; Dec. 5, 29.16; measurements discontinued.

25/43-11G5 (386, p. 919; *889-B, p. 100; 910, p. 171; 940, p. 146; 948, p. 145; *990, p. 235). City of Spokane, Water Division well 5. Taps water in fluvioglacial gravel in Spokane Valley. Water level depressed by continuous withdrawal from this well or adjacent wells, or both. Water levels, in feet below land-surface datum, 1944: Aug. 19, 32.28; Dec. 5, 28.56; measurements discontinued.

25/43-11G6 (886, p. 919; *889-B, pp. 101-107; 910, p. 171; 940, p. 146; 948, p. 145; *990, p. 236). City of Spokane, Water Division "gage well" 1. SW¼NE¼ sec. 11, T. 25 N., R. 43 E. Taps water in fluvioglacial gravel in Spokane Valley. Water level affected by pumping in adjacent wells. Water levels, in feet below land-surface datum, 1944: Mar. 29, 58.21; Aug. 19, 60.31; Dec. 5, 59.00.

25/43-11K1. (886, p. 920; *889-B, pp. 108-113; 910, p. 171; 940, p. 146; 948, p. 146; *990, p. 236). City of Spokane, Water Division "gage well" 2. NW¼SE¼ sec. 11, T. 25 N., R. 43 E. Taps water in fluvioglacial gravel in Spokane Valley. Water level moderately depressed by continuous withdrawal from adjacent wells. Water levels, in feet below land-surface datum, 1944: Mar. 29, 68.04; Aug. 19, 69.55; Dec. 5, 68.78.

25/43-14K1 (886, p. 920; *889-B, pp. 113, 114; 910, p. 172; 940, p. 147; 948, p. 146; *990, p. 236). Washington Water Power Co. well 3. Ohio Match Co. NW¼SE¼ sec. 14, T. 25 N., R. 43 E. Taps water in fluvioglacial gravel in Spokane Valley. Pump operating at time of each measurement.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	48.05	May 17	46.18	Aug. 10	49.35	Oct. 16	49.04
Mar. 29	48.43	July 11	48.86	19	49.43	Dec. 5	49.10

25/43-17D1 (886, p. 921; *889-B, pp. 114, 115; 910, p. 172; 940, p. 147; 948, p. 146; *990, p. 237). Washington Water Power Co. well 88. New Method Laundry. NW¼NW¼ sec. 2, T. 25 N., R. 44 E. Taps water in fluvioglacial gravel. Pump operating at time of each measurement.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Feb. 10	50.32	July 11	49.50	Aug. 18	49.90
Mar. 29	49.71	Aug. 10	50.00	Dec. 4	49.70

25/44-2B1 (886, p. 921; *889-B, pp. 115, 116; 910, p. 172; 940, p. 147; 948, p. 146; *990, p. 237). Washington Water Power Co. well 49. Trentwood Irrigation District. NW¼NE¼ sec. 2, T. 25 N., R. 44 E. Taps water in fluvioglacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	101.00	May 17	a 99.76	Aug. 11	a 102.40	Oct. 16	102.15
Mar. 29	101.50	July 11	100.80	21	b 101.46		

a Pumping
b Pump recently shut off.

25/44-15E1 (886, p. 921; *889-B, pp. 118, 119; 910, p. 173; 940, p. 147; 948, p. 147; *990, p. 237). Washington Water Power Co. well 15. Modern Electric Water Co. well 5. SW¼NW¼ sec. 15, T. 25 N., R. 4 E. Taps water in fluvioglacial gravel in Spokane Valley. One or more of three pumps operating in well at time of each measurement.

Water level, in feet below land-surface datum, 1944
(From float-gage readings made by maintenance men)

Jan. 2	136.41	Mar. 28 c	135.15	June 12	138.24	Aug. 21 c	141.46
16	136.38	Apr. 1	135.11	18	134.18	26	141.40
23	136.34	8	134.88	24	134.26	Sept. 2	141.56
28	136.04	15	134.31	July 1	139.67	9	141.47
Feb. 5	135.94	22	133.62	8	140.23	16	135.82
10 c	135.91	30	132.09	11 c	141.20	23	135.80
12	135.82	May 6	133.09	15	140.39	30	135.79
20	135.89	14	136.89	22	141.47	Oct. 7	135.32
28	136.21	17 c	133.11	29	141.72	14	135.89
Mar. 4	136.03	21	137.08	Aug. 5	141.65	16 c	136.00
12	136.45	28	137.49	12	141.58	21	135.93
19	136.38	June 4	133.63	19	141.41	28	135.97

c Measured by Washington Water Power Co. or Geological Survey.

25/44-15E1--Continued.

Water level, in feet below land-surface datum, 1944
(From float-gage readings made by maintenance men)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 4	135.99	Nov. 25	136.25	Dec. 9	136.29	Dec. 23	136.69
11	136.11	Dec. 2	136.28	16	136.42	29	136.96
18	136.18	6 c	136.27				

c Measured by Washington Water Power Co. or Geological Survey.

25/44-19D1 (886, p. 921; *889-B, pp. 119-121; 910, p. 173; 940, p. 148; 948, p. 147; *990, p. 237). Washington Water Power Co. well 5. Edgecliff Sanitarium. NW¼NW¼ sec. 19, T. 25 N., R. 44 E. Taps water in fluvioglacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1944

Feb. 10	79.85	May 17 a	77.73	Aug. 10	80.88	Oct. 16	80.73
Mar. 28	80.12	July 11 a	80.28	21 a	80.33	Dec. 6	81.19

a Pumping.

25/44-21J1 (886, p. 922; *889-B, pp. 121, 122; 910, p. 173; *940, p. 148; 948, p. 147; *990, p. 237). Washington Water Power Co. well 17. Modern Electric Water Co. well 3. NE¼SE¼ sec. 21, T. 25 N., R. 44 E. Taps water in fluvioglacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1944

Feb. 10	102.59	May 17 a	104.66	Aug. 10 a	107.64	Oct. 16	103.34
Mar. 28	103.10	July 11 a	106.59	21 a	107.72	Dec. 6	103.34

a Pumping.

25/44-22N1 (*943, p. 147; *990, p. 238). Modern Electric Water Co. well 7. SW¼SW¼ sec. 22, T. 25 N., R. 44 E. Taps water in fluvioglacial gravel in Spokane Valley. (Pump of 300-gallon-a-minute capacity operating at time of all measurements except on March 8 and March 15.)

Water level, in feet below land-surface datum, 1944
(From float-gage readings, by R. Hagan, maintenance man)

Jan. 5	144.66	May 18	142.92	July 22 c	149.32	Sept. 20	145.48
11	144.64	20	146.03	23	145.50	27	145.47
Mar. 8 a	145.02	24	143.20	31	145.68	Oct. 4	145.71
15 a	145.13	30	146.28	31 c	149.51	11	145.75
23	145.41	June 1 c	146.73	Aug. 6 c	149.70	18	145.77
28	145.39	4	143.16	11 c	149.77	25	145.80
28 b	145.90	12	143.76	15	145.63	Nov. 1	145.85
Apr. 6	145.26	12 c	147.21	15 c	149.41	8	146.02
12	144.68	20	143.54	21 bc	149.73	15	146.04
18	144.32	28 c	147.82	26 c	149.77	22	145.98
26	143.46	July 1 c	148.05	28	145.75	29	146.14
29	143.22	9 c	143.62	Sept. 3 c	149.73	Dec. 6 b	146.20
May 4	142.83	10	144.86	4	145.69	13	146.28
12	142.59	16 c	149.07	9 c	149.70	20	146.29
15	146.54	17	145.19	13	145.48	27	146.50

a Static level.
b Measured by Geological Survey.
c Pump, 1,500 gallon-a-minute capacity, operating in well.

25/44-23D1 (886, p 922; *889-B, pp. 123-124; 910, p. 173; 940, p. 148; 948, p. 148; *990, p. 238). Washington Water Power Co. well L.A.L. Lewis A. Lewis. NW¼NW¼ sec. 23, T. 25 N., R. 44 E. Tape water in fluvioglacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1944

Feb. 10	91.24	May 17 a	89.48	Aug. 10	91.94	Oct. 16	92.14
Mar. 28	91.82	July 11 a	91.84	21	92.15	Dec. 6	92.67

a Pumping.

25/45-10C1 (886, p. 922; *889-B, p. 125; 910, p. 173; 940, p. 148; 948, p. 148; *990, p. 238). Washington Water Power Co. well 41. Mrs. George Clark. NE¼NW¼ sec. 10, T. 25 N., R. 45 E. Taps water in fluvioglacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	65.08	May 17	61.60	Aug. 10	63.90	Oct. 16	66.00
Mar. 28	65.80	July 11	63.50	21	64.09	Dec. 6	67.58

25/45-16C1 U. S. well No. 70. (886, p. 922; *889-B, pp. 126-127; 910, p. 173; 940, p. 148; 948, p. 148; *990, p. 238). Washington Water Power Co. well 38. Inland Empire Paper Co. NE¼NW¼ sec. 16, T. 25 N., R. 45 E. Taps water in fluvioglacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1944
(From float-gage readings by local observer)

Jan. 7	106.11	Apr. 14	107.28	July 14	106.05	Oct. 13	108.13
14	107.20	21	106.09	21	106.19	16 a	108.11
21	107.66	28	105.47	28	106.32	20	108.35
28	107.52	May 4	104.92	Aug. 4	106.41	27	108.55
Feb. 4	107.35	12	104.64	10 a	106.54	Nov. 3	108.99
10 a	107.47	17 a	104.74	11	106.43	10	109.05
11	107.45	19	104.78	18	106.4	17	109.11
17	107.49	26	104.71	21 a	106.45	24	109.27
25	107.23	June 2	104.59	25	106.50	Dec. 1	109.46
Mar. 3	107.62	9	104.83	Sept. 1	106.44	6 a	109.51
10	108.08	16	105.04	8	106.48	11	109.64
17	108.24	23	105.15	15	106.47	15	109.68
24	108.27	30	105.44	22	106.91	22	109.93
28 a	108.31	July 7	105.72	29	107.51	29	110.36
Apr. 7	108.06	11 a	105.81				

a Measured by Geological Survey or Washington Water Power Co.

25/45-18A1 (886, p. 923; *889-B, pp. 127-128; 910, p. 174; 940, p. 149; 948, p. 148; *990, p. 239). Washington Water Power Co. well 40. O. B. Nilson. NE¼NE¼ sec. 18, T. 25 N., R. 45 E. Taps water in fluvioglacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Feb. 10	92.16	July 11	90.83	Aug. 21	91.51
May 17	89.64	Aug. 11	91.32	Oct. 17	88.02

26/43-7Q1 (*948, p. 149; *990, p. 239). C. E. Marr. SW¼SE¼ sec. 7, T. 26 N., R. 43 E. Taps water in fluvioglacial gravel.

Water level, in feet below land-surface datum, 1944

Feb. 10	76.42	July 11	76.97	Oct. 16	77.35
May 17	76.55	Aug. 18	77.30	Dec. 4	77.62

26/43-16D1. Defense Plant Corporation test well. NW¼NW¼ sec. 16, T. 26 N., R. 43 E., about 1.7 miles southwest of Mead and approximately 300 feet northwest of owner's well 1, in open field, beneath float-gage shelter. Drilled observation well, diameter 8 inches, depth 247 feet. Taps water in fluvioglacial gravel. Measuring points: (1) Top edge, 8-inch casing, south side, 0.77 foot above land surface; (2) top of 2-inch plank base for float gage at 3/4-inch hole, 1.00 foot above land surface. Land-surface datum is about 1,937 feet above mean sea level. Float gage installed Feb. 15, 1943.

Water level, in feet below land-surface datum, 1943-44
(From float-gage readings by company employees)

Feb. 15, 1943 a	161.09	Mar. 8	161.19	Mar. 16	161.36
22	161.12	15	161.23	16	161.35
Mar. 1	161.11	15	161.24	22	161.15

a Measured by Geological Survey.

26/43-16D1--Continued.

Water level, in feet below land-surface datum, 1943-44
(From float-gage readings by company employees)

Date	Water level	Date	Water level	Date	Water level
Mar. 29	161.04	Sept. 20	160.02	Mar. 20	161.29
Apr. 5	161.09	27	160.15	27	a 161.35
12	161.12	Oct. 6	160.28	Apr. 3	161.25
19	161.25	11	a 160.34	10	161.52
26	160.93	18	160.42	17	161.52
May 3	160.75	25	160.43	24	161.29
10	160.68	Nov. 1	160.61	May 1	161.40
17	160.59	9	160.66	8	161.20
24	160.63	15	160.69	15	(b)
31	160.08	22	160.78	Aug. 18	161.84
June 7	159.73	29	160.77	21	161.90
16	159.97	Dec. 6	160.97	28	161.72
21	159.83	14	160.12	Sept. 5	161.91
28	159.77	21	a 161.25	18	161.65
July 6	159.68	Jan. 4, 1944	161.50	25	161.65
12	159.61	10	161.28	Oct. 7	161.90
20	159.53	17	161.39	9	161.72
26	159.50	24	161.41	16	161.70
Aug. 2	159.80	31	161.21	23	161.70
9	159.77	Feb. 7	161.24	30	161.68
12	b 159.85	15	161.32	Nov. 6	161.70
16	159.90	21	161.44	13	162.20
23	159.92	28	161.40	20	162.20
30	160.00	Mar. 6	161.58	27	162.20
Sept. 6	159.77	13	161.30	Dec. 4	161.86
13	159.97				

a Measured by Geological Survey.
b Float gage inoperative May 15 to Aug. 15.

26/43-19A1 (836, p. 923; *889-B, pp. 128-129; 910, p. 174; 940, p. 149; 948, p. 149; *990, p. 239). (Washington Water Power Co. well C.H.) Whitworth Water District No. 2, Formerly owned by Country Homes Estates. NE¼NE¼ sec. 19, T. 26 N., R. 43 E. Taps water in fluvioglacial gravel. Small pump operating at time of each measurement.

Water level, in feet below land-surface datum, 1944
(From float-gage readings by A. O. Brown, observer)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	137.57	Apr. 15	137.82	July 15	137.84	Oct. 5	138.31
10	137.61	20	137.81	20	137.82	10	138.29
15	137.62	25	137.80	25	137.85	15	138.32
20	137.62	30	137.80	29	137.88	20	138.31
25	137.67	May 5	137.80	Aug. 1	137.96	25	138.33
30	137.67	10	137.76	5	138.01	29	138.33
Feb. 5	137.68	15	137.72	10	138.06	Nov. 1	138.33
10	137.69	20	137.70	15	138.10	5	138.34
15	137.69	25	137.60	18 a	138.20	10	138.33
20	137.70	28	137.60	20	138.19	15	138.36
25	137.71	June 1	137.48	25	138.19	20	138.36
Mar. 1	137.74	5	137.60	28	138.28	25	138.34
5	137.78	10	137.52	Sept. 1	138.28	29	138.35
10	137.74	15	137.46	5	138.29	Dec. 1	138.35
12	137.70	20	137.42	10	138.33	5	138.33
15	137.70	25	137.40	15	138.35	10	138.35
20	137.81	July 1	137.42	20	138.34	15	138.35
25	137.74	5	137.62	25	138.31	20	138.35
30	137.77	10	137.68	30	138.31	25	138.36
Apr. 5	137.79	11 a	137.68	Oct. 1	138.32	28	138.35
10	137.80						

a Measured by Washington Water Power Co. or Geological Survey.

26/43-34P1 (836, p. 923; *889-B, pp. 129-131; 910, p. 174; 940, p. 149; 948, p. 149; *990, p. 240). Washington Water Power Co. well 80. Great Northern Railway Co. SE¼SW¼ sec. 34, T. 26 N., R. 43 E. Taps water in fluvioglacial gravel. Water levels, in feet below land-surface datum, 1944: Mar. 27, 179.39, pumping; Aug. 19, 179.11, pump shut down; Dec. 4, 179.08.

26/44-32R1 (886, p. 923; *889-B, p. 131; 910, p. 175; 940, p. 149; *990, p. 240). Washington Water Power Co. well 46. Hutton Settlement. SE¼SE¼ sec. 32, T. 26 N., R. 44 E. Taps water in fluvioglacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	100.70	May 17	97.80	Aug. 11 a	102.80	Oct. 17	101.20
Mar. 29	101.12	July 11 a	99.70	21 a	102.46	Dec. 5	101.71

a Pumping.

Thurston County

Alluvial and glacial plains of the Puget Trough

16/1W-19G1 (*990, p. 240). Town of Tenino. In Tenino, in SW¼NE¼ sec. 19, T. 16 N., R. 1 W. Taps water in gravel in fluvioglacial deposits. Water levels, in feet below land-surface datum, 1944: Apr. 27, 6.38; Sept. 30, 13.12; Dec. 31, 8.30.

Walla Walla County

Walla Walla River Basin

6/35-16B1 (*777, p. 155; *817, p. 251; 840, p. 343; 845, p. 408; 886, p. 622; 910, p. 24; 940, p. 25; *990, p. 240). Claude Winn. NW¼NE¼ sec. 16, T. 16 N., R. 35 E. Taps water in alluvial deposit of Little Walla Walla River. Water level, in feet below land-surface datum, 1944: Dec. 11, 5.27.

Whatcom County

Alluvial and glacial plains of the Puget Trough

40/1-4J1 (*990, p. 241). City of Blaine. NE¼SE¼ sec. 4, T. 40 N., R. 1 W. Taps water in fluvioglacial deposits (?). Water levels, in feet below land-surface datum, 1944: Apr. 26, 66.41; Sept. 26, 67.41.

Whitman County

Palouse River Basin

14/45-4N1 (*845, p. 710; 886, p. 928; 910, p. 179; 940, p. 151; 948, p. 153; *990, p. 241). Emory Crawford. SW¼SW¼ sec. 4, T. 14 N., R. 45 E. Confined water (artesian), in basalt. Water levels, in feet below land-surface datum, 1944: Aug. 17, 44.94; Dec. 7, 44.93.

14/45-5B1 (*845, p. 710; 886, p. 928; 910, p. 179; 940, p. 151; 948, p. 153; *990, p. 241). Washington State College well 1. Confined water (artesian), in basalt. Water levels, in feet below land-surface datum, 1944: Aug. 17, 29.49, well 532 pumping; Dec. 7, 27.79.

14/45-5D2 (*845, p. 711; 886, p. 928; 910, p. 179; 940, p. 151; 948, p. 153; *990, p. 242). Standard Lumber Co. NW¼NW¼ sec. 5, T. 14 N., R. 45 E. Confined water (artesian), in basalt. Water levels, in feet below land-surface datum, 1944: Aug. 17, 1.11; Dec. 7, 1.03.

14/45-11N2 (*840, p. 633; 845, p. 696; 886, p. 925; 910, p. 150; 948, p. 150; *990, p. 242). Geological Survey water-table well. Water levels, in feet below land-surface datum, 1944: Aug. 17, 7.68; Dec. 7, 7.30.

15/46-20K1 (*777, pp. 261, 262; 817, pp. 488, 490, 491; *840, pp. 628, 630; 845, p. 690; 943, p. 150; *990, p. 244). J. D. Carson. Water-table well. NW¼SE¼ sec. 20, T. 15 N., R. 46 E. Water level, in feet below land-surface datum, 1944: Aug. 17, 7.93.

18/43-35P1 (*990, p.244). G. H. Noe. SE¼SW¼ sec. 35, T. 18 N., R. 43 E. Taps water in basalt. Water levels, in feet below land-surface datum, 1944: Aug. 17, 14.57; Dec. 7, 15.05.

Yakima County

Yakima River Basin

10/20-3P1 (*990, p.244). City of Toppenish well 3. SE¼SW¼ sec. 3, T. 10 N., R. 20 E. Taps water in gravel in valley alluvium west of Yakima River. Water levels, in feet below land-surface datum, 1944: Aug. 31, 7.45, pump off; stopped 45 minutes prior to measurement; Nov. 29, 49.38; pumping; started 20 minutes prior to measurement.

WYOMING

By D. A. Warner and A. M. Morgan

PROGRAM OF WORK

Periodic measurements of water level in observation wells in Wyoming were continued in 1944 in cooperation with the Wyoming State Planning and Water Conservation Board. The program is being carried out in connection with an investigation of the ground-water resources of the State, which, up to the present time, has been conducted in the southeastern part only, where two areas are now under study. Both areas--the Egbert-Pine Bluffs-Carpenter area and the Cheyenne area--are in Laramie County. The work in a third area--the Laramie area in Albany County--was completed during the year. A report is being written on the results of this study and will be released at some time in the future. No measurements of water levels for the Laramie area were made by the city of Laramie during the year and observation wells in this area have been dicontinued. The city of Cheyenne is cooperating in the work in the Cheyenne area. At the beginning of 1944 the number of wells included under the program was 201, and at the end of the year it was 237. During the year 915 individual measurements were made in most of the wells at monthly or about monthly intervals. Two automatic water-stage recorders were operated in the Egbert-Pine Bluffs-Carpenter area during the year.

FLUCTUATIONS OF WATER LEVEL

General descriptions of the three areas in which observation-well programs were maintained in 1943 and in part in 1944 are given in Water-Supply Paper 990, pages 246-251.

Egbert-Pine Bluffs-Carpenter area

There were seasonal fluctuations of the water levels in 1944 which ranged from less than 1 foot to slightly less than 10 feet in all of the wells penetrating the Brule formation. The greatest range in fluctuation occurred in the wells in the valley of Muddy Creek where the range in amount of recharge is also great. The water levels also fluctuated in

response to the seasonal irrigation. In June most of the wells showed a decline and declined steadily until October at which time the water levels in most of them began to rise steadily. In 20 of the Brule wells the fluctuation of water level from December 1943 to December 1944 ranged from a rise of 0.84 foot to a decline of 3.97 feet. The average change in the same 20 wells was a decline of 0.42 foot. The water levels declined less in 1944 than in 1943 due to the fact that 2.57 inches more rain fell in 1944 than in 1943.

The wells in the upland part of this area are used only for stock and domestic purposes. This water is derived from beds in the Ogallala and Arkose formations. The water-level fluctuations in these wells are very small. During 1944 too few measurements were taken to make a comparison with previous years, but, judging from past records, it seems probable that the water levels in this part of the area probably rise slightly due to the increase in rainfall.

The wells surrounding the town of Carpenter derive their water from two sources. Five wells to the west of Carpenter in the Crow Creek embayment tap the Brule formation. In 1944 the range in water-level fluctuation in 4 of these wells was from 0.33 foot to 1.52 feet. The average change in water level in the 4 wells in which measurements were made was a rise of about 0.35 foot from December 1943 to December 1944. The other source of water for wells in this immediate area is a broad Quaternary terrace to the east of Carpenter, underlain by gravel deposits that range in thickness from about 40 feet to more than 150 feet. The gravels range considerably in permeability. Some of the wells drilled into the gravels for irrigation were failures, but the few that are successful yield from 400 to 1,500 gallons a minute. The fluctuations in water level in the wells penetrating these gravels ranged from 0.22 foot to 1.59 feet during 1944. In 6 weeks the change in water level on this bench during 1944 ranged from a decline of 0.50 foot to a rise of 1.47 feet. From December 1943 to December 1944 the water levels in these wells rose an average of 0.59 foot.

Cheyenne area

The water levels in the individual wells in the Cheyenne well field are rarely comparable because all the wells are affected by pumping. Pumping is intermittent, and the period of pumping or rest in any well is

variable. In general, however, the trend of the water levels is downward. The highest stages are reached during the periods of rest.

Eleven wells in the Cheyenne well field are pumped, but generally no more than 6 pumps are operated except during periods of peak demand. Although the wells are operated intermittently, the water levels are continuing to decline and the average daily capacity of each well also is declining. In 1943 the average daily pumpage for each well was 314,000 gallons and in 1944 it was 307,700 gallons.

During 1944 measurements were not made in the Federal area 12 to 14 miles northwest of Cheyenne. This area is underlain by the Brule formation of Oligocene age. The transmissibility of the Brule formation in this area is so low, as proved by several exploratory wells drilled by the city of Cheyenne, that it was not thought advisable to continue the investigation in this area.

Laramie area

The Laramie investigation was concluded early in 1944 and no water-level measurements were made during the year.

WELL-NUMBERING SYSTEM

Each observation well in Wyoming is designated by a number that serves to locate it. The first segment of the number is the township, the second the range, and the third the section. The letters that make up the segment indicate the position of the well in the section, the first letter indicating the quarter section, the second the 40-acre tract within the quarter section, and the third the 10-acre tract within the 40-acre tract. The quarters of section and tract are lettered as shown in the accompanying diagram.

b	a
c	d

A digit at the end of a number indicates a particular well of two or more in the same 10-acre tract. Thus, the third well in the SW¼SW¼NE¼ sec. 36, T. 14 N., R. 67 W., would be numbered 14.67.36 acc 3.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Albany County

Laramie area

18.73.22.aaa (*990, p. 252). John Bell. NE¼NE¼NE¼ sec. 22, T. 18 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

18.73.24.bdb (*948, p. 194; *990, p. 252). John Bell. NW¼SE¼NW¼ sec. 24, T. 18 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

18.73.26.acc (*948, p. 194; *990, p. 252). John Bell. SW¼SW¼NE¼ sec. 26, T. 18 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

18.73.27.adc 1 (*948, p. 194; *990, p. 252). John Bell. SW¼SE¼NE¼ sec. 27, T. 18 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

18.73.27.adc 2 (*948, p. 194; *990, p. 252). John Bell. SW¼SE¼NE¼ sec. 27, T. 18 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

18.73.31.cdd (*948, p. 194; *990, p. 252). King Bros. Sheep Ranch. SE¼SE¼SW¼ sec. 31, T. 18 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

18.73.33.caa (*990, p. 252). John Bell. NE¼NE¼SW¼ sec. 33, T. 18 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

18.73.34.dcc (*948, p. 194; *990, p. 253). Mr. Riedsell. SW¼SW¼SE¼ sec. 34, T. 18 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

18.73.35.acc (*948, p. 194; *990, p. 253). John Bell. SW¼SW¼NE¼ sec. 35, T. 18 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.72.31.cbb (*948, p. 191; *990, p. 253). King Bros. Sheep Ranch. NW¼NW¼SW¼ sec. 31, T. 17 N., R. 72 W. Measurements discontinued Jan. 1, 1944.

17.73.1.bcb (*948, p. 191; *990, p. 253). King Bros. Sheep Ranch. NW¼SW¼NW¼ sec. 1, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.4.ddd (*948, p. 191; *990, p. 253). Mr. Kreuger. SE¼SE¼SE¼ sec. 4, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.5.aab (*948, p. 191; *990, p. 253). Mr. Kreuger. NW¼NE¼NE¼ sec. 5, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.7.ddd (*948, p. 192; *990, p. 253). King Bros. Sheep Ranch. SE¼SE¼SE¼ sec. 7, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.10.bcc (*948, p. 192; *990, p. 253). King Bros. Sheep Ranch. SW¼SW¼NW¼ sec. 10, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.11.dbb (*948, p. 192; *990, p. 254). King Bros. Sheep Ranch. NW¼NW¼SE¼ sec. 11, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.12.ccb (*948, p. 192; *990, p. 254). King Bros. Sheep Ranch. NW¼SW¼SW¼ sec. 12, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.13.caa (*948, p. 192; *990, p. 254). King Bros. Sheep Ranch. NE¼NE¼SW¼ sec. 13, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.14.dbb (*948, p. 192; *990, p. 254). King Bros. Sheep Ranch. NW¼NW¼SE¼ sec. 14, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.17.aaa (*948, p. 192; *990, p. 254). King Bros. Sheep Ranch. NE¼NE¼NE¼ sec. 17, T. 17 N., R. 73 W. Measurements discontinued Jan. 1, 1944.

17.73.21.cca (*948, p. 193; *990, p. 254). King Bros. Sheep Ranch. NE¼SW¼SW¼ sec. 21, T. 17 N., R. 73 W. No measurements made in 1944.

17.73.22.ccd (*948, p. 193; *990, p. 254). King Bros. Sheep Ranch. SE¼SW¼SW¼ sec. 22, T. 17 N., R. 73 W. No measurements made in 1944.

17.73.24.ddd (*948, p. 193; *990, p. 254). King Bros. Sheep Ranch. SE¼SE¼SE¼ sec. 24, T. 17 N., R. 73 W. No measurements made in 1944.

17.73.26.dbd (*948, p. 193; *990, p. 255). King Bros. Sheep Ranch. SE¼NW¼SE¼ sec. 26, T. 17 N., R. 73 W. No measurements made in 1944.

17.73.27.dcd (*948, p. 193; *990, p. 255). King Bros. Sheep Ranch. SE¼SW¼SE¼ sec. 27, T. 17 N., R. 73 W. No measurements made in 1944.

17.73.28.aaa (*948, p. 193; *990, p. 255). King Bros. Sheep Ranch. NE¼NE¼NE¼ sec. 28, T. 17 N., R. 73 W. No measurements made in 1944.

17.73.33.aab (*948, p. 193; *990, p. 255). King Bros. Sheep Ranch. NW¼NE¼NE¼ sec. 33, T. 17 N., R. 73 W. No measurements made in 1944.

16.72.5.dda (*990, p. 255). Warren Land & Livestock Co. NE¼SE¼SE¼ sec. 5, T. 16 N., R. 72 W. No measurements made in 1944.

16.72.9.ddd (*990, p. 255). Warren Land & Livestock Co. SE¼SE¼SE¼ sec. 9, T. 16 N., R. 72 W. No measurements made in 1944.

16.73.2.ddc (*948, p. 190; 990, p. 255). King Bros. Sheep Ranch. SW¼SE¼SE¼ sec. 2, T. 16 N., R. 73 W. No measurements made in 1944.

16.73.15.ddb (*990, p. 255). Union Pacific Railroad. NW¼SE¼SE¼ sec. 15, T. 16 N., R. 73 W. No measurements made in 1944.

16.73.28.cdc (*990, p. 256). Albany County. SW¼SE¼SW¼ sec. 28, T. 16 N., R. 73 W. No measurements made in 1944.

16.73.33.dbb (*990, p. 256). University of Wyoming. NW¼NW¼SE¼ sec. 33, T. 16 N., R. 73 W. No measurements made in 1944.

16.73.26.acc (*948, p. 190; *990, p. 256). Warren Land & Livestock Co. SW¼SW¼NE¼ sec. 26, T. 16 N., R. 73 W. No measurements made in 1944.

16.73.26.dcc (*948, p. 190; 990, p. 256). Union Pacific Athletic Club. SW¼SW¼SE¼ sec. 26, T. 16 N., R. 73 W. No measurements made in 1944.

16.73.34.dda (*948, p. 191; 990, p. 256). Spring Creek Camp. W. L. Carlisle. NE¼SE¼SE¼ sec. 34, T. 16 N., R. 73 W. No measurements made in 1944.

16.73.35.aaa (*948, p. 191; *990, p. 256). City of Laramie well Turner 3. NE¼NE¼NE¼ sec. 35, T. 16 N., R. 73 W. No measurements made in 1944.

15.72.6.dcd (*948, p. 183; *990, p. 256). Warren Land & Livestock Co. SE¼SW¼SE¼ sec. 6, T. 15 N., R. 72 W. No measurements made in 1944.

15.72.9.ddb (*990, p. 256). Warren Land & Livestock Co. NW¼SE¼SE¼ sec. 9, T. 15 N., R. 72 W. No measurements made in 1944.

15.72.19.cac (*948, p. 183; *990, p. 256). Warren Land & Livestock Co. SW¼NE¼SW¼ sec. 19, T. 15 N., R. 72 W. No measurements made in 1944.

15.73.2.aba (*948, p. 183; *990, p. 256). City of Laramie well Turner 2. NE¼NW¼NE¼ sec. 2, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.2.acd (*948, p. 183; *990, p. 257). City of Laramie well Turner 4. SE¼SW¼NE¼ sec. 2, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.2.bab (*948, p. 183; *990, p. 257). City of Laramie well Turner 1. NW¼NE¼NW¼ sec. 2, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.4.dbb (*990, p. 257). Certainteed Products Co. NW¼NW¼SE¼ sec. 4, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.9.ddd (*948, p. 184; *990, p. 257). Holly Hunt. SE¼SE¼SE¼ sec. 9, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.11.cba (*948, p. 184; *990, p. 257). Holly Hunt. NE¼NW¼SW¼ sec. 11, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.12.bcc (*948, p. 184; *990, p. 257). Oliver Wood. SW¼SW¼NW¼ sec. 12, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.12.dbb (*948, p. 184; *990, p. 257). C. T. Wallis. NW¼NW¼SE¼ sec. 12, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.13.bbb (*948, p. 184; *990, p. 257). Otto Berner. NW¼NW¼NW¼ sec. 13, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.15.aab (*948, p. 190; *990, p. 258). Mr. Connor. NW¼NE¼NE¼ sec. 15, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.15.bdd (*948, p. 190; *990, p. 258). Mr. Connor. SE¼SE¼NW¼ sec. 15, T. 15 N., R. 73 W. No measurements made in 1944.

15.73.15.ddb (*948, p. 190; *990, p. 258). Mr. Connor. NW¼SE¼SE¼ sec. 15, T. 15 N., R. 73 W. No measurements made in 1944.

Laramie County

Cheyenne area

15.67.32.dba (*948, p. 179; 990, p. 258). Warren Livestock Co. NE¼NW¼SE¼ sec. 32, T. 15 N., R. 67 W. No measurements made in 1944.

15.68.21.aca (*990, p. 258). City of Cheyenne. NE¼SW¼NE¼ sec. 21, T. 15 N., R. 68 W. Measurements discontinued.

15.68.30.cd (*948, p. 180; 990, p. 258). Warren Livestock Co. SE¼SW¼ sec. 30, T. 15 N., R. 68 W. No measurements made in 1944.

15.68.33.abb (*948, p. 181; 990, p. 258). Warren Livestock Co. NW¼NW¼NE¼ sec. 33, T. 15 N., R. 68 W. No measurements made in 1944.

15.68.34.aaa (*948, p. 179; 990, p. 258). Warren Livestock Co. NE¼NE¼NE¼ sec. 34, T. 15 N., R. 68 W. No measurements made in 1944.

15.69.5.abd (*990, p. 258). City of Cheyenne. SE¼NW¼NE¼ sec. 5, T. 15 N., R. 69 W. Water levels, in feet below land-surface datum, 1944: Jan. 29, 55.88; May 10, 56.50.

15.69.5.ccb (*990, p. 258). City of Cheyenne. NW¼SW¼SW¼ sec. 5, T. 15 N., R. 69 W. Measurements discontinued.

15.69.5.ddb (*990, p. 259). City of Cheyenne. NW¼SE¼SE¼ sec. 5, T. 15 N., R. 69 W. Water levels, in feet below land-surface datum, 1944: May 10, 85.90.

15.69.6.abb (*948, p. 182; *990, p. 259). King Merritt. NW¼NW¼NE¼ sec. 6, T. 15 N., R. 69 W. Water level, in feet below land-surface datum, 1944: May 10, 3.99.

15.69.6.acc (*948, p. 182; 990, p. 259). City of Cheyenne. SW¼SW¼NE¼ sec. 6, T. 15 N., R. 69 W. Water levels, in feet below land-surface datum, 1944: Jan. 29, 26.46; May 10, 26.49.

15.69.6.bdb (*948, p. 182; *990, p. 259). King Merritt. NW¼SE¼NW¼ sec. 6, T. 15 N., R. 69 W. Water level, in feet below land-surface datum, 1944: May 10, 31.20.

15.69.6.ddd (*990, p. 259). King Merritt. SE¼SE¼SE¼ sec. 6, T. 15 N., R. 69 W. Water level, in feet below land-surface datum, 1944: May 10, 151.72.

15.69.8.cbc (*948, p. 181; *990, p. 259). City of Cheyenne. SW¼NW¼SW¼ sec. 8, T. 15 N., R. 69 W. Water levels, in feet below land-surface datum, 1944: Jan. 29, 146.42; May 10, 146.52.

15.69.9.aaa (*948, p. 186; *990, p. 259). King Merritt. NE¼NE¼NE¼ sec. 9, T. 15 N., R. 69 W. No measurements made in 1944.

15.69.9.caa (*948, p. 179; *990, p. 260). City of Cheyenne. NE¼NE¼SW¼ sec. 9, T. 15 N., R. 69 W. Water level, in feet below land-surface datum, 1944: May 10, 71.11.

15.69.10.cd (*948, p. 180; *990, p. 260). Mr. Van Tassel. SE¼SW¼ sec. 10, T. 15 N., R. 69 W. No measurements made in 1944.

15.69.12.cc (*948, p. 180; 990, p. 260). E. A. Goodman. SW¼SW¼ sec. 12, T. 15 N., R. 69 W. No measurements made in 1944.

15.69.15.abb (*990, p. 260). City of Cheyenne. NW¼NW¼NE¼ sec. 15, T. 15 N., R. 69 W. Water levels, in feet below land-surface datum, 1944: Jan. 29, 77.09; May 10, 77.09.

15.69.15.bbc (*948, p. 181; *990, p. 260). Community of Federal well. SW¼NW¼NW¼ sec. 15, T. 15 N., R. 69 W. Measurements discontinued.

15.69.18.ddd (*948, p. 179; *990, p. 260). Mr. Lorenz. SE¼SE¼SE¼ sec. 18, T. 15 N., R. 69 W. Water level, in feet below land-surface datum, 1944: May 10, 17.80.

15.69.21.abb (*948, p. 181; *990, p. 260). City of Cheyenne. NW¼NW¼NE¼ sec. 21, T. 15 N., R. 69 W. Water level, in feet below land-surface datum, 1944: May 10, 54.38.

15.69.24.bb (*948, p. 180; 990, p. 260). E. A. Goodman. NW¼NW¼ sec. 24, T. 15 N., R. 69 W. No measurements made in 1944.

14.66.31.bd (*948, p. 181; *990, p. 260). State Capitol well. SE¼NW¼ sec. 31, T. 14 N., R. 66 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	12.93	May 31	11.68	Aug. 30	10.68	Oct. 29	12.40
Feb. 29	12.93	June 30	11.32	Sept.30	12.40	Dec. 28	12.72
Apr. 26	12.10	July 28	10.51				

14.67.10.ccc (*940, p. 168; 948, p. 175; *990, p. 261). Owner unknown. SW¼SW¼SW¼ sec. 10, T. 14 N., R. 67 W. Water levels, in feet below land-surface datum, 1944: Jan. 29, 15.42; May 10, 14.09.

14.67.31.bbd (*940, p. 167; 948, p. 175; 990, p. 261). Mark T. Cox, III. SE¼NW¼NW¼ sec. 31, T. 14 N., R. 67 W. No measurements made in 1944.

14.67.36.ccc (*940, p. 167; 948, p. 175; *990, p. 261). Curtis Vaughn. SW¼SW¼SW¼ sec. 36, T. 14 N., R. 67 W.

Water level, in feet below land-surface datum, 1944

Jan. 26	37.39	June 26	37.07	Aug. 27	36.83	Oct. 29	37.16
Apr. 26	38.16	July 28	37.01	Sept.30	36.83	Dec. 27	37.48
May 29	37.77	Aug. 16	36.73				

14.68.2.dd (*948, p. 179; 990, p. 261). Fred Koster. SE¼SE¼ sec. 2, T. 14 N., R. 68 W. No measurements made in 1944.

14.68.14.cb (*940, p. 167; 948, p. 174; *990, p. 261). City of Cheyenne. NW¼SW¼ sec. 14, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	7.20	May 29	7.72	Aug. 16	8.61	Oct. 29	8.95
Feb. 26	7.09	June 26	8.05	27	8.71	Dec. 27	8.57
Apr. 26	7.97	July 28	8.24	Sept.30	8.98		

14.68.17.dcd (*940, p. 166; 948, p. 173; *990, p. 261). City of Cheyenne. SE¼SW¼SE¼ sec. 17, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 26	6.43	July 28	6.68	Sept.30	7.23
May 29	6.13	Aug. 27	7.05	Oct. 29	7.20

14.68.20.abc (*940, p. 166; 948, p. 173; *990, p. 261). City of Cheyenne. SW¼NW¼NE¼ sec. 20, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Jan. 26	10.03	July 28	9.95	Sept.30	10.77
May 29	9.66	Aug. 27	10.21	Oct. 29	10.35

14.68.20.bab (*940, p. 166; 948, p. 173; *990, p. 261). City of Cheyenne. NW¼NE¼NW¼ sec. 20, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Jan. 26	18.87	July 28	18.30	Sept.30	20.44
May 29	17.52	Aug. 27	19.46	Oct. 29	20.15

14.68.20.bbb (*940, p. 166; 948, p. 173; *990, p. 261). City of Cheyenne. NW¼NW¼NW¼ sec. 20, T. 14 N., R. 68 W. Water level, in feet below land-surface datum, 1944: Jan. 26, 7.62.

14.68.20.bbc (*940, p. 165; 948, p. 173; *990, p. 262). City of Cheyenne. SW¼NW¼NW¼ sec. 20, T. 14 N., R. 68 W. No measurements made in 1944.

14.68.23.ddc (*940, p. 162; 948, p. 170; *990, p. 262). City of Cheyenne. SW¼SE¼SE¼ sec. 23, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Jan. 26	51.99	June 26	65.40	Oct. 29	59.96
Apr. 26	62.39	Sept.30	55.03		

14.68.23.ddd (*940, p. 162; 948, p. 170; *990, p. 262). City of Cheyenne. SE¼SE¼SE¼ sec. 23, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Jan. 26	3.54	Apr. 26	5.65	June 26	6.9
Feb. 26	9.97	May 29	12.17	Oct. 29	6.67

14.68.25.aba (*940, p. 164; 948, p. 171; 990, p. 262). City of Cheyenne. NE¼NW¼NE¼ sec. 25, T. 14 N., R. 68 W. (Incorrectly published in Water-Supply Paper 990 as NE¼SE¼SE¼). No measurements made in 1944.

14.68.25.dda (*940, p. 164; 948, p. 171; *990, p. 262). City of Cheyenne. NE¼SE¼SE¼ sec. 25, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1944: June 26, 45.04; Oct. 29, 36.62; Dec. 27, 37.50.

14.68.26.cbb (*940, p. 163; 948, p. 171; *990, p. 262). City of Cheyenne. NW¼NW¼SW¼ sec. 26, T. 14 N., R. 68 W.

14.68.26.cbb. City of Cheyenne--Continued.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	58.50	May 29	64.01	Aug. 16	65.38	Oct. 29	60.74
Feb. 26	62.13	June 26	64.58	Sept.30	62.18	Dec. 27	61.22
Apr. 26	62.30	July 28	64.90				

14.68.26.cbc 1 (*940, p. 162; 948, p. 170; *990, p. 262). City of Cheyenne. SW¼NW¼SW¼ sec. 26, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Jan. 26	22.06	May 29	a 66.11	Aug. 16	a 69.59	Oct. 29	24.11
Feb. 26	a 64.12	June 26	a 67.18	Sept.30	26.04	Dec. 27	25.73
Apr. 26	27.12	July 28	a 66.92				

a Pumping.

14.68.26.cbc 2 (*940, p. 163; 948, p. 170; *990, p. 262). City of Cheyenne. SW¼NW¼SW¼ sec. 26, T. 14 N., R. 68 W. Cannot be measured; measurements discontinued.

14.68.26.db (*940, p. 171; 948, p. 178; 990, p. 262). Rex Crews. NW¼SE¼ sec. 26, T. 14 N., R. 68 W. No measurements made in 1944.

14.68.26.dd (*940, p. 171; 948, p. 178; 990, p. 262). Irvin O'Connor. SE¼SE¼ sec. 26, T. 14 N., R. 68 W. No measurements made in 1944.

14.68.27.dcc (*940, p. 162; 948, p. 169; *990, p. 263). City of Cheyenne. SW¼SW¼SE¼ sec. 27, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Jan. 26	40.89	May 29	a 58.75	July 28	46.55	Aug. 27	a 61.30
Feb. 26	48.95	June 26	a 60.20	Aug. 16	a 61.24	Dec. 27	a 58.52
Apr. 26	45.16						

a Pumping.

14.68.28.bb (*948, p. 179; 990, p. 263). Arthur Francis. NW¼NW¼ sec. 28, T. 14 N., R. 68 W. No measurements made in 1944.

14.68.30.daa (*940, p. 171; 948, p. 178; *990, p. 263). Irvin O'Connor. NE¼NE¼SE¼ sec. 30, T. 14 N., R. 68 W. No measurements made in 1944.

14.68.34.aab (*940, p. 162; 948, p. 169; *990, p. 263). City of Cheyenne. NW¼NE¼NE¼ sec. 34, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Jan. 26	31.0	May 29	a 52.53	Aug. 16	a 56.18	Oct. 29	32.01
Feb. 26	a 51.11	June 26	a 55.29	27	a 56.10	Dec. 27	a 51.83
Apr. 26	36.81	July 28	38.33	Sept.30	33.83		

a Pumping.

14.68.34.ccb (*990, p. 263). City of Cheyenne. NW¼SW¼SW¼ sec. 34, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Jan. 26	72.11	May 29	72.67	Aug. 16	71.63	Oct. 29	70.25
Feb. 26	71.60	June 26	71.90	27	71.59	Dec. 27	70.89
Apr. 26	72.60	July 28	71.60	Sept.30	71.27		

14.68.34.ddd. City of Cheyenne. SE¼SE¼SE¼ sec. 34, T. 14 N., R. 68 W. Unused well, diameter 10 inches, depth 190 feet. Measuring point is 0.55 foot below land-surface datum.

Water level, in feet below land-surface datum, 1944

Jan. 26	88.15	May 9	84.83	July 28	85.63	Sept.30	85.22
Feb. 26	86.38	29	87.23	Aug. 16	85.54	Oct. 29	83.90
Apr. 26	87.38	June 26	86.25	27	85.96	Dec. 27	84.33

14.68.36.aac. Arthur King. SW¼NE¼NE¼ sec. 36, T. 14 N., R. 68 W. Used stock well, diameter 6 inches, depth 185 feet. Measuring point, top of casing, 0.6 foot above land-surface datum.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 26	28.83	June 26	26.68	Aug. 18	30.95
May 29	27.54	July 28	31.55	Sept. 30	30.72

14.68.36.ab (*950, p. 165; 948, p. 172; *990, p. 263). City of Cheyenne. NW¼NE¼ sec. 36, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

June 26	33.12	Aug. 27	33.77	Oct. 29	29.80
Aug. 16	32.28	Sept. 30	34.03	Dec. 27	30.43

14.68.36.adb (*940, p. 164; 948, p. 172; *990, p. 263). City of Cheyenne. NW¼SE¼NE¼ sec. 36, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Apr. 26	28.11	June 26	25.85	Oct. 29	26.07
May 29	27.01	Aug. 16	30.77	Dec. 27	26.49

14.68.36.bc (*940, p. 165; 948, p. 172; *990, p. 263). City of Cheyenne. SW¼NW¼ sec. 36, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 26	37.55	Aug. 16	27.17	Sept. 30	27.88	Dec. 27	24.38
June 26	29.97	27	28.65	Oct. 29	23.52		

13.66.18.ad (*948, p. 179; 990, p. 263). P. J. Black Lumber Co. SE¼NE¼ sec. 18, T. 13 N., R. 66 W. No measurements made in 1944.

13.66.32.ad (*948, p. 178; 990, p. 263). Dorian Lumis. SE¼NE¼ sec. 32, T. 13 N., R. 66 W. No measurements made in 1944.

13.66.32.cad (*940, p. 168; 948, p. 176; *990, p. 264). W. J. Merna. SE¼NE¼SW¼ sec. 32, T. 14 N., R. 66 W. No measurements made in 1944.

13.67.2.da (*948, p. 178; 990, p. 264). Bresnehan Estate. NE¼SE¼ sec. 2, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.6.add (*940, p. 167; 948, p. 175; 990, p. 264). A. L. King. SE¼SE¼NE¼ sec. 6, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.6.daa (*940, p. 167; 948, p. 175; 990, p. 264). A. L. King. NE¼NE¼SE¼ sec. 6, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.6.ddd (*940, p. 167; 948, p. 175; 990, p. 264). A. L. King. SE¼SE¼SE¼ sec. 6, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.11.aaa (*940, p. 170; 948, p. 177; *990, p. 264). J. J. Brannigan. NE¼NE¼NE¼ sec. 11, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.13.bb (*940, p. 170; 948, p. 177; *990, p. 264). Warren Livestock Co. NW¼NW¼ sec. 13, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.15.aa (*940, p. 170; 948, p. 177; *990, p. 264). Warren Livestock Co. NE¼NE¼ sec. 15, T. 13 N., R. 67 W. Water level, in feet below land-surface datum, 1944: Feb. 26, 38.5.

13.67.15.bb (*940, p. 168; 948, p. 176; *990, p. 264). Warren Livestock Co. NW¼NW¼ sec. 15, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.16.ab (*940, p. 169; 948, p. 176; *990, p. 264). Warren Livestock Co. NW¼NE¼ sec. 16, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.19.ca (*940, p. 170; 948, p. 177; 990, p. 264). Warren Livestock Co. NE¼SW¼ sec. 19, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.21.bd (*940, p. 170; 948, p. 177; 990, p. 264). Warren Livestock Co. SE¼NW¼ sec. 21, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.27.bb (*940, p. 171; 948, p. 177; 990, p. 265). Warren Livestock Co. NW¼NW¼ sec. 27, T. 13 N., R. 67 W. No measurements made in 1944.

13.67.33.ac 1 (*940, p. 168; 948, p. 176; *990, p. 265). Union Pacific Railroad. SW¼NE¼ sec. 33, T. 13 N., R. 67 W. No measurements made in 1944.

13.68.3.bba. City of Cheyenne. NE¼NW¼NW¼ sec. 3, T. 13 N., R. 68 W. Unused municipal well, diameter 10 inches, depth 187 feet. Measuring point, top of casing, 1.7 feet below land-surface datum. Water level, in feet below land-surface datum, 1944: Dec. 27, 79.75.

13.68.4.aad. City of Cheyenne. SE¼NE¼NE¼ sec. 4, T. 13 N., R. 68 W. Abandoned municipal well, diameter 10 inches, depth 202 feet. Measuring point, top of casing, 0.93 foot above land-surface datum.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 9	73.92	July 10	74.51	Aug. 27	74.51	Oct. 29	74.13
29	71.79	28	74.36	Sept.30	74.20	Dec. 27	74.44
June 26	74.29	Aug. 16	74.43				

13.68.4.acd. City of Cheyenne. SE¼SW¼NE¼ sec. 4, T. 13 N., R. 68 W. Unused municipal well, diameter 10 inches, depth 255 feet. Measuring point, top of casing, 9.77 feet above land-surface datum.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Aug. 16	99.19	Sept.30	98.93	Dec. 27	98.28
27	99.30	Nov. 4	98.72		

13.68.4.dbb (*948, p. 181; *990, p. 265). Arthur King. NW¼NW¼SE¼ sec. 4, T. 13 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	98.28	May 9	98.86	Aug. 27	99.10	Oct. 29	99.59
Feb. 26	98.61	29	99.53	Sept.30	99.59	Dec. 27	99.40
Apr. 26	98.90	July 28	98.77				

13.68.4.dcc. City of Cheyenne. SW¼SW¼SE¼ sec. 4, T. 13 N., R. 68 W. Unused municipal well, diameter 10 inches, depth 200 feet. Aquifer, Ogallala (?) formation. Measuring point, top of casing, 0.20 foot above land-surface datum. Water levels, in feet below land-surface datum, 1944: Nov. 4, 118.09; Dec. 27, 119.66.

13.68.8.cb (*948, p. 181; 990, p. 265). Bert McGee. NW¼SW¼ sec. 8, T. 13 N., R. 68 W. Water level, in feet below land-surface datum, 1944: May 9, 212.83.

13.68.9.bbd. Owner unknown. SE¼NW¼NW¼ sec. 9, T. 13 N., R. 68 W. Stock well, equipped with windmill, diameter 6 inches. Aquifer, Ogallala (?) formation. Measuring point, top of clamp, 0.35 foot above concrete base and 0.95 foot above land-surface datum. Water levels, in feet below land-surface datum, 1944: Jan. 26, 143.02; Feb. 26, 142.72; Apr. 26, 142.75; May 9, 142.45.

13.68.13.cc (*948, p. 181; 990, p. 265). Owner unknown. SW¼SW¼ sec. 13, T. 13 N., R. 68 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 26	37.37	July 28	36.93	Aug. 27	37.26	Oct. 29	37.00
Feb. 26	37.23	Aug. 16	37.22	Sept.30	37.10	Dec. 28	37.14
Apr. 26	37.29						

13.68.14.aad. City of Cheyenne. SE¼NE¼NE¼ sec. 14, T. 13 N., R. 68 W. Unused municipal well, diameter 10 inches, depth 195 feet. Measuring point, top of casing, 1.01 feet above land-surface datum. Water levels, in feet below land-surface datum, 1944: July 28, 81.35; Aug. 18, 81.53; Dec. 27, 80.93.

13.68.14.ddd. City of Cheyenne. SE¼SE¼SE¼ sec. 14, T. 13 N., R. 68 W. Unused municipal well, diameter 10 inches, depth 219 feet. Measuring point, top of casing, 1.0 foot below land-surface datum. Water levels, in feet below land-surface datum, 1944: Sept. 30, 70.76; Oct. 29, 71.43; Dec. 28, 86.81.

13.68.15.cdb. Mrs. A. L. Boyce. NW¼SE¼SW¼ sec. 15, T. 13 N., R. 68 W. Domestic well, equipped with windmill, diameter 5 inches, reported depth 100 feet. Measuring point, top of pipe clamp, 0.95 foot above land-surface datum. Water levels, in feet below land-surface datum, 1944: Jan. 26, 76.60; Dec. 28, 75.15.

13.68.18.ab (*940, p. 171; 948, p. 178; 990, p. 265). William Conrad. NW¼NE¼ sec. 18, T. 13 N., R. 68 W. No measurements made in 1944.

13.68.31.cc (*940, p. 171; 948, p. 178; 990, p. 265). Warren Livestock Co. SW¼SW¼ sec. 31, T. 13 N., R. 68 W. No measurements made in 1944.

13.69.11.ad (*948, p. 178; 990, p. 265). Bert McGee. SW¼NE¼ sec. 11, T. 13 N., R. 69 W. No measurements made in 1944.

13.69.12.ac (*948, p. 179; 990, p. 265). Bert McGee. SW¼NE¼ sec. 12, T. 13 N., R. 69 W. No measurements made in 1944.

13.69.24.dd (*948, p. 181; 990, p. 265). Warren Livestock Co. SE¼SE¼ sec. 24, T. 13 N., R. 69 W. No measurements made in 1944.

13.69.34.dd (*940, p. 171; 948, p. 178; 990, p. 265). Warren Livestock Co. SE¼SE¼ sec. 34, T. 13 N., R. 69 W. No measurements made in 1944.

12.65.6.ab (*940, p. 172; 948, p. 178; 990, p. 265). Owner unknown. NW¼NE¼ sec. 6, T. 12 N., R. 65 W. No measurements made in 1944.

12.67.5.ddd (*940, p. 170; 948, p. 177; *990, p. 265). Warren Livestock Co. SE¼SE¼SE¼ sec. 5, T. 12 N., R. 67 W. No measurements made in 1944.

12.67.11.ba (*940, p. 170; 948, p. 177; 990, p. 265). Warren Livestock Co. NE¼NW¼ sec. 11, T. 12 N., R. 67 W. No measurements made in 1944.

12.68.1.dc (*940, p. 168; 948, p. 177; *990, p. 265). Warren Livestock Co. SW¼SE¼ sec. 1, T. 12 N., R. 68 W. No measurements made in 1944.

Laramie County

Egbert-Pine Bluffs--Carpenter area

15.60.8.cb (*910, p. 182; 940, p. 158; 948, p. 162; *990, p. 265). Victor Sundlin. NW¼SW¼ sec 8, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	88.47	May 31	88.60	July 29	88.65	Oct. 1	88.66
Feb. 24	88.50	June 27	88.73	Aug. 30	88.65	31	88.67
Apr. 27	88.60						

15.60.20.ccc (*990, p. 266). W. T. Young. SW¼SW¼SW¼ sec. 20, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 24	48.30	Apr. 27	48.35	June 27	48.31
Feb. 24	48.30	May 31	48.37	July 29	48.20

15.60.30.aab (*990, p. 266). Owner unknown. NW¼NE¼NE¼ sec. 30, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	58.77	May 31	58.73	Aug. 30	59.68	Oct. 31	59.55
Feb. 24	58.65	June 27	59.08	Oct. 1	59.63	Dec. 3	61.68
Apr. 27	58.54	July 29	59.14				

15.60.30.cb (*910, p. 183; 940, p. 159; 948, p. 163; 990, p. 266). Mary A. Simpson. NW¼SW¼ sec. 30, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 24	44.43	Apr. 27	44.42	June 27	44.32
Feb. 24	44.47	May 31	44.47		

15.60.32.ab (*910, p. 184; 940, p. 161; 948, p. 165; *990, p. 266). W. T. Young. NW¼NE¼ sec. 32, T. 15 N., R. 60 W.

Daily noon water level, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	47.73	47.65	47.58	47.59	47.60	.....	47.80	48.26	49.35	50.98	50.50	50.06
2	47.72	47.65	47.58	47.60	47.60	47.97	47.78	48.12	49.44	50.98	50.47	50.02
3	47.72	47.64	47.57	47.60	47.62	48.00	47.78	.....	49.53	50.97	50.45	49.98
4	47.72	47.63	47.57	47.59	47.63	48.05	47.77	.....	49.62	50.94	50.42	49.96
5	47.72	47.63	47.55	47.57	47.63	48.09	47.76	.....	49.72	50.93	50.39	49.93
6	47.71	47.63	47.57	47.57	47.61	.....	47.76	.....	49.81	50.92	50.36	49.88
7	47.73	47.62	47.58	47.57	47.61	.....	47.78	.....	49.89	50.92	50.35	49.84
8	47.72	47.61	47.58	47.56	47.62	.....	47.84	.....	49.94	50.91	50.35	49.81
9	47.70	47.59	47.58	47.57	47.61	.....	47.88	.....	49.99	50.91	50.34	49.78
10	47.70	47.62	47.57	47.57	47.61	.....	47.94	.....	50.06	50.92	50.33	49.75
11	47.70	47.62	47.57	47.57	47.62	.....	47.97	.....	50.13	50.94	50.32	49.70
12	47.70	47.62	47.57	47.56	47.63	.....	47.99	48.39	50.21	50.92	50.34	49.67
13	47.70	47.61	47.56	47.55	47.62	48.14	47.98	48.41	50.28	50.94	50.36	49.64
14	47.68	47.59	47.58	47.56	47.62	48.10	47.94	48.42	50.35	50.95	50.37	49.60
15	47.69	47.59	47.58	47.56	47.62	48.09	47.92	48.43	50.42	50.97	50.38	49.58
16	47.69	47.59	47.57	47.57	47.61	48.10	47.95	48.44	50.49	50.99	50.38	49.53
17	47.68	47.59	47.56	47.58	47.60	48.14	.....	48.48	50.55	50.95	50.37	49.49
18	47.68	47.59	47.58	47.58	47.64	48.16	.....	48.48	50.60	50.94	50.37	49.47
19	47.68	47.58	47.57	47.57	47.64	48.14	.....	48.51	50.64	50.91	50.37	49.43
20	47.66	47.58	47.56	47.57	47.65	48.10	.....	48.50	50.67	50.89	50.36	49.40
21	47.65	47.57	47.57	47.58	47.64	48.08	.....	48.49	50.71	50.86	50.35	49.38

15.60.32.ab. W. T. Young--Continued.

Daily noon water level, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
22	47.65	47.57	47.58	47.59	47.64	48.06	.....	48.50	50.75	50.83	50.32	49.34
23	47.63	47.57	47.57	47.58	47.65	48.05	.....	48.56	50.77	50.80	50.28	49.30
24	47.65	47.57	47.55	47.57	47.67	47.98	.....	48.62	50.80	50.78	50.25	49.28
25	47.65	47.56	47.57	47.59	47.70	47.92	.....	48.72	50.82	50.74	50.23	49.26
26	47.67	47.57	47.58	.....	47.75	47.86	.....	48.81	50.85	50.72	50.21	49.23
27	47.66	47.58	47.58	47.61	47.79	47.85	.....	48.92	50.88	50.69	50.18	49.22
28	47.67	47.58	47.59	47.60	47.82	47.85	.....	49.03	50.89	50.66	50.16	49.16
29	47.66	47.58	47.59	47.59	47.84	47.83	48.33	49.12	50.93	50.62	50.13	49.14
30	47.66	.....	47.58	47.60	47.89	47.82	48.33	49.27	50.96	50.57	50.08	49.11
31	47.66	.....	47.58	.....	.....	.....	48.30	49.28	.....	50.55	.....	49.11

15.60.34.ad (*990, p. 266). Owner unknown. SE¼NE¼ sec. 34, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 25	61.26	Apr. 28	60.64	June 27	60.49
Feb. 24	60.96	May 31	60.43	July 29	60.29

15.60.34.bc (*910, p. 183; 940, p. 159; 948, p. 163; 990, p. 266). Owner unknown. SW¼NW¼ sec. 34, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	69.17	May 31	68.56	July 29	69.80	Oct. 31	70.16
Apr. 28	70.42	June 27	68.81	Aug. 30	71.15	Dec. 3	74.25

14.60.3.aaa (published incorrectly as 14.60.1.aaa; *990, p. 266). Mrs. John Wilkinson. NE¼NE¼NE¼ sec. 3, T. 14 N., R. 60 W. Water level, in feet below land-surface datum, 1944: Jan. 25, 54.85; Feb. 24, 54.65; well filled in and measurements discontinued.

14.60.3.daa (published incorrectly as 14.60.1.daa; *990, p. 267). Mrs. John Wilkinson. NE¼NE¼SE¼ sec. 3, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 25	51.10	May 31	50.52	Aug. 30	50.63	Oct. 31	51.00
Feb. 24	50.94	June 27	51.41	Sept.30	50.96	Dec. 2	51.14
Apr. 28	50.60	July 29	50.30				

14.60.5.bcc (*990, p. 267). Mr. Gross. SW¼SW¼NW¼ sec. 5, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	29.17	May 31	29.38	July 29	29.82	Oct. 31	29.89
Feb. 24	29.07	June 27	29.52	Oct. 1	30.19	Dec. 3	29.86
Apr. 28	28.94						

14.60.7.dda (*990, p. 267). Mrs. John Wilkinson. NE¼SE¼SE¼ sec. 7, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	3.30	May 31	3.05	Aug. 30	4.01	Oct. 31	3.23
Feb. 24	3.28	June 28	3.12	Oct. 1	3.78	Dec. 3	3.40
Apr. 28	2.96	July 29	3.32				

14.60.7.ddd (*990, p. 267). Mrs. John Wilkinson. SE¼SE¼SE¼ sec. 7, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	18.34	May 31	18.30	July 29	18.36	Oct. 1	18.78
Feb. 24	18.31	June 28	18.30	Aug. 30	19.44	31	18.49
Apr. 28	18.25						

14.60.8.bcc (*990, p. 267). H. L. Wisroth. SW¼SW¼NW¼ sec. 8, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	32.01	May 31	31.21	Aug. 30	34.87	Oct. 31	32.78
Feb. 24	31.67	June 28	31.09	Oct. 1	34.63	Dec. 3	32.48
Apr. 28	31.04	July 29	31.83				

14.60.8.cbc (*910, p. 183; 940, p. 159; 948, p. 163; *990, p. 267). H. L. Wisroth. SW¼NW¼SW¼ sec. 8, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	10.70	May 31	10.35	Aug. 30	14.70	Oct. 31	12.20
Feb. 24	10.52	June 28	10.42	Oct. 1	14.76	Dec. 3	10.89
Apr. 28	10.10	July 29	10.65				

14.60.10.dcc (*910, p. 182; 940, p. 158; 948, p. 163; 990, p. 267). Mrs. Ellison. SW¼SW¼SE¼ sec. 10, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 24	16.11	Apr. 28	15.50	June 27	15.34
Feb. 24	16.02	June 2	15.37	July 29	15.41

14.60.11.bbb (*990, p. 268). J. R. Wilkinson Estate. NW¼NW¼NW¼ sec. 11, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 25	17.53	Apr. 28	17.03	June 27	15.94
Feb. 24	17.48	May 31	16.33	July 29	a 16.55

a Well plugged after July 29; measurements discontinued.

14.60.11.bbc (*990, p. 268). J. R. Wilkinson Estate. SW¼NW¼NW¼ sec. 11, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 25	14.46	Apr. 28	13.83	Sept.30	15.21
Feb. 24	14.41	June 27	13.57		

14.60.11.bcc 1 (*990, p. 268). Jim Wilkinson. SW¼SW¼NW¼ sec. 11, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	16.11	Apr. 28	15.60	June 27	15.35	Oct. 31	16.50
Feb. 24	16.05	May 31	15.73	July 29	15.61	Dec. 2	16.25

14.60.11.bcc 2 (*990, p. 268). J. R. Wilkinson Estate. SW¼SW¼NW¼ sec. 11, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 25	15.05	May 31	14.19	Aug. 30	15.82	Oct. 31	15.25
Feb. 24	14.95	June 27	14.26	Sept.30	15.98	Dec. 2	15.08
Apr. 28	14.52	July 29	14.57				

14.60.11.cbb (*990, p. 268). J. R. Wilkinson Estate. NW¼NW¼SW¼ sec. 11, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 25	13.44	Apr. 28	13.03	June 27	12.00
Feb. 24	13.36	May 31	12.96	July 29	4.13

14.60.11.cbc (*990, p. 268). J. R. Wilkinson Estate. SW¼NW¼SW¼ sec. 11, T. 14 N., R. 60 W.

14.60.11.cbc. J. R. Wilkinson Estate--Continued.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	17.87	May 31	17.53	Aug. 30	18.48	Oct. 31	18.32
Feb. 24	17.78	June 27	17.15	Sept.30	18.83	Dec. 2	18.15
Apr. 28	17.31	July 29	17.47				

14.60.11.ccc (*990, p. 268). J. R. Wilkinson Estate. SW¼SW¼SW¼ sec. 11, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 25	29.48	May 31	29.04	Aug. 30	30.22	Oct. 31	30.15
Feb. 24	29.36	June 27	29.00	Sept.30	30.72	Dec. 2	29.89
Apr. 28	28.93	July 29	29.16				

14.60.14.bbc (*990, p. 268). E. G. Sanders. SW¼NW¼NW¼ sec. 14, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 25	32.21	May 31	31.68	Aug. 30	31.21	Oct. 31	32.87
Feb. 24	32.10	June 27	31.85	Sept.30	33.20	Dec. 2	32.67
Apr. 28	31.66	July 29	31.85				

14.60.16.dcc (*990, p. 269). Mrs. John Wilkinson. SW¼SW¼SE¼ sec. 16, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 25	11.93	Apr. 28	11.26	Oct. 31	13.59
Feb. 24	11.76	May 31	11.52	Nov. 1	13.32

14.60.18.add (*990, p. 269). H. L. Wisroth. SE¼SE¼NE¼ sec. 18, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	56.78	Apr. 28	56.44	June 28	56.37	Aug. 31	56.93
Feb. 24	56.65	May 31	56.36	July 29	56.79	Dec. 3	56.85

14.60.18.dad (*990, p. 269). Ruth Anderson. SE¼NE¼SE¼ sec. 18, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	53.90	May 31	53.44	July 29	53.98	Oct. 31	56.23
Feb. 24	53.83	June 28	53.49	Aug. 31	54.05	Dec. 3	53.95
Apr. 28	53.55						

14.60.18.dda (*990, p. 269). Ruth Anderson. NE¼SE¼SE¼ sec. 18, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	53.87	Apr. 28	53.16	June 28	52.24	Aug. 31	53.79
Feb. 24	53.38	May 31	51.20	July 29	52.90		

14.60.18.ddd (*990, p. 269). Ruth Anderson. SE¼SE¼SE¼ sec. 18, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	55.70	May 31	55.13	Aug. 31	56.0	Oct. 31	55.85
Feb. 24	55.53	June 28	55.19	Oct. 2	56.18	Dec. 3	55.64
Apr. 28	55.25	July 29	55.56				

14.60.20.cbc (*990, p. 269). C. F. Faulline. SW¼NW¼SW¼ sec. 20, T. 14 N., R. 60 W.

14.60.20.cbc. C. F. Paulline--Continued.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 24	37.93	Apr. 28	37.68	June 28	37.67
Feb. 24	37.95	May 31	38.40	July 29	38.87

14.60.21.aaa (*990, p. 269). Carl Fornstorm. NE¼NE¼NE¼ sec. 21, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	3.02	Apr. 28	2.60	June 28	3.16	Oct. 3	4.99
Feb. 24	2.85	May 31	2.83	Sept. 1	4.93	Nov. 1	4.40

14.60.21.aba (*990, p. 269). Carl Fornstorm. NE¼NW¼NE¼ sec. 21, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 25	6.98	Apr. 28	6.36	June 28	6.92	Oct. 3	9.13
Feb. 24	6.81	May 31	6.62	Sept. 1	8.80	Nov. 1	8.33

14.60.21.abb (*990, p. 270). Carl Fornstorm. NW¼NW¼NE¼ sec. 21, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 25	8.72	Apr. 28	8.08	June 28	8.68
Feb. 24	8.52	May 31	8.33		

14.60.28.bb (*910, p. 183; 940, p. 160; 948, p. 164; *990, p. 270). Mr. Campbell. NW¼NW¼ sec. 28, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	20.98	June 27	20.84	Aug. 31	23.20	Oct. 31	22.43
Feb. 24	20.90	July 29	21.03	Oct. 2	23.60	Dec. 4	22.25
Apr. 28	20.59						

14.60.29.bbb (*990, p. 270). Mr. Paullin. NW¼NW¼NW¼ sec. 29, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	44.59	May 31	44.53	Aug. 31	48.11	Oct. 31	46.35
Feb. 24	44.65	June 28	44.37	Oct. 2	47.38	Dec. 3	50.09
Apr. 28	44.33	July 29	45.99				

14.60.29.bbc (*990, p. 270). Mr. Paullin. SW¼NW¼NW¼ sec. 29, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	46.00	Apr. 28	45.72	Oct. 2	48.88	Dec. 3	47.61
Feb. 24	46.06	June 28	45.77	31	47.67		

14.60.29.bcc (*990, p. 270). C. F. Paullin. SW¼SW¼NW¼ sec. 29, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	43.15	May 31	42.96	Aug. 31	46.38	Oct. 31	43.85
Feb. 24	43.20	June 28	42.82	Oct. 2	45.79	Dec. 3	44.74
Apr. 28	42.81	July 29	43.93				

14.60.30.cc (*910, p. 183; 940, p. 159; 948, p. 164; *990, p. 270). Owner not known. SW¼SW¼ sec. 30, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	26.28	May 31	27.17	July 29	27.12	Oct. 31	27.19
Feb. 24	26.55	June 27	27.20	Aug. 31	27.35	Dec. 3	27.31
Apr. 28	27.00						

14.61.2.ca (*910, p. 183; 940, p. 160; 948, p. 164; *990, p. 270). Carl Bogle. NE¼SW¼ sec. 2, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	26.60	Apr. 27	26.52	Sept. 1	26.4	Oct. 31	26.25
Feb. 24	26.51	June 28	26.56	Oct. 3	26.4		

14.61.7.ccc (*990, p. 270). R. W. Richer. SW¼SW¼SW¼ sec. 7, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	30.06	May 31	30.54	Sept. 1	29.85	Nov. 1	30.27
Feb. 24	30.26	June 27	30.36	Oct. 3	30.12	Dec. 3	30.51
Apr. 28	30.48	July 29	29.96				

14.61.14.ab (*910, p. 183; 940, p. 160; 948, p. 164; 990, p. 270). H. R. Eggrs. NW¼NE¼ sec. 14, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	57.32	Apr. 27	57.40	Sept. 1	57.42	Oct. 31	57.40
Feb. 24	57.35	June 28	57.39	Oct. 3	57.37		

14.61.16.bbb (*990, p. 271). Bruce Bell. NW¼NW¼NW¼ sec. 16, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	42.60	June 28	42.77	Aug. 31	42.80	Nov. 1	43.37
Feb. 24	42.65	July 29	42.72	Oct. 2	42.86	Dec. 3	43.97
Apr. 27	42.75						

14.61.18.bbc (*990, p. 271). F. J. Janesofsky. SW¼NW¼NW¼ sec. 18, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	18.79	May 31	19.20	Sept. 1	18.55	Nov. 1	18.98
Feb. 24	19.00	June 27	19.03	Oct. 3	18.84	Dec. 3	19.35
Apr. 28	19.10	July 29	18.51				

14.61.18.bcb (*910, p. 182; 940, p. 157; 948, p. 162; 990, p. 271). F. J. Janesofsky. NW¼SW¼NW¼ sec. 18, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	23.17	July 29	22.73	Oct. 3	23.06	Dec. 3	23.64
May 31	23.60	Sept. 1	23.58	31	23.25		

14.61.18.cbc (*990, p. 271). Mr. Bomhoff. SW¼NW¼SW¼ sec. 18, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	27.93	Apr. 28	28.18	July 29	27.64	Nov. 1	28.13
Feb. 24	28.07	May 31	28.28	Sept. 1	27.91	Dec. 3	28.30
Mar. 27	28.18	June 27	28.06	Oct. 3	28.10		

14.61.18.ccb (*990, p. 271). Mr. Bomhoff. NW¼SW¼SW¼ sec. 18, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	26.62	Apr. 28	26.94	July 29	26.51	Oct. 3	26.88
Feb. 24	26.77	May 31	27.01	Sept. 1	26.72	Dec. 3	27.10
Mar. 27	26.87	June 27	26.80				

14.61.21.bb (*910, p. 181; 940, p. 157; 948, p. 161; *990, p. 271). C. E. Kaser. NW¼NW¼ sec. 21, T. 14 N., R. 61 W.

Daily noon water level, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	43.48	43.59	43.67	43.76	43.75	43.78	44.68	.....	45.25	43.98	43.87	43.64
2	43.47	43.59	43.67	43.78	43.75	43.78	44.83	.....	45.29	43.97	43.87	43.63
3	43.48	43.60	43.67	43.77	43.76	43.77	44.89	.....	45.31	43.96	43.86	43.62

I4.61.21.bb. C. E. Kaser--Continued.

Daily noon water level, in feet below land-surface datum, 1944
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
4	43.49	43.58	43.68	43.76	43.78	44.30	44.94	.....	45.10	44.14	43.83	43.63
5	43.49	43.60	43.67	43.75	43.77	43.96	45.01	.....	45.22	43.96	43.83	43.63
6	43.48	43.63	43.69	43.73	43.75	43.90	45.05	.....	45.00	43.96	43.81	43.63
7	43.51	43.62	43.70	43.74	43.75	43.98	45.06	.....	44.71	43.94	43.80	43.66
8	43.51	43.62	43.71	43.73	43.76	44.05	45.06	.....	45.00	43.92	43.81	43.65
9	43.51	43.59	43.71	43.72	43.75	43.95	45.12	.....	45.36	43.91	43.79	43.66
10	43.51	43.62	43.69	43.73	43.77	43.86	45.11	.....	45.33	43.91	43.78	43.67
11	43.52	43.64	43.71	43.74	43.77	43.82	45.00	.....	44.86	43.91	43.77	43.68
12	43.53	43.63	43.71	43.74	43.78	43.77	44.37	.....	44.58	43.89	43.75	43.68
13	43.53	43.62	43.70	43.72	43.78	44.15	44.00	.....	44.45	43.88	43.74	43.69
14	43.51	43.62	43.73	43.72	43.77	43.83	44.24	.....	44.35	43.87	43.75	43.69
15	43.52	43.64	43.72	43.72	43.75	43.72	43.83	.....	44.29	43.82	43.74	43.70
16	43.53	43.63	43.73	43.74	43.75	43.75	43.70	.....	44.23	43.92	43.73	43.70
17	43.53	43.65	43.72	43.74	43.75	43.66	44.15	.....	44.19	43.90	43.72	43.70
18	43.53	43.65	43.73	43.75	43.78	43.81	44.10	.....	44.16	43.90	43.70	43.71
19	43.54	43.65	43.73	43.74	43.78	43.65	44.57	.....	44.12	43.88	43.70	43.72
20	43.54	43.65	43.72	43.74	43.78	43.59	43.97	.....	44.11	43.88	43.69	43.72
21	43.54	43.64	43.73	.....	43.78	43.56	43.82	.....	44.10	43.87	43.69	43.73
22	43.54	43.65	43.75	.....	43.78	43.58	43.73	.....	44.06	43.86	43.68	43.74
23	43.52	43.65	43.74	.....	43.78	43.54	43.66	.....	44.07	43.86	43.65	43.74
24	43.50	43.65	43.73	.....	43.78	43.98	43.62	.....	44.05	43.86	43.61	43.75
25	43.52	43.63	43.75	.....	43.78	43.57	43.63	.....	44.04	43.86	43.66	43.76
26	43.55	43.65	43.75	.....	43.79	43.50	43.58	.....	44.06	43.86	43.65	43.76
27	43.47	43.65	43.75	43.74	43.79	44.02	43.56	.....	44.03	43.87	43.66	43.77
28	43.58	43.68	43.77	43.73	43.79	44.56	43.86	.....	44.02	43.85	43.66	43.77
29	43.58	43.68	43.75	43.73	43.78	44.69	43.61	.....	43.99	43.95	43.65	43.78
30	43.55	.....	43.75	43.75	43.78	44.78	.....	.....	43.93	43.90	43.65	43.79
31	43.59	.....	43.76	.....	43.78	.....	.....	45.21	.....	43.87	.....	43.80

14.61.21.bcb (*990, p. 271). C. E. Kaser. NW¼SW¼NW¼ sec. 21, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	36.86	June 28	37.30	Aug. 31	38.02	Nov. 1	34.34
Feb. 24	36.99	July 29	36.97	Oct. 2	39.0	Dec. 3	37.74
Apr. 27	37.11						

14.61.21.cbc (*990, p. 271). C. E. Kaser. SW¼NW¼SW¼ sec. 21, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	23.63	June 28	23.72	Aug. 31	24.28	Nov. 1	24.05
Feb. 24	23.74	July 29	23.57	Oct. 2	24.14	Dec. 3	23.99
Apr. 27	23.84						

14.61.27.bcb 2 (*990, p. 272). Mary Higgison. NW¼SW¼NW¼ sec. 27, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	27.75	June 28	27.43	Aug. 31	28.02	Oct. 31	28.30
Feb. 24	27.84	July 29	27.36	Oct. 2	28.60	Dec. 3	28.32
Apr. 27	27.91						

14.61.28.bbb (*990, p. 272). Harry Bymer. NW¼NW¼NW¼ sec. 28, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	18.70	Apr. 27	18.42	July 29	17.97	Oct. 2	17.79
Feb. 24	18.33	June 28	18.03	Aug. 31	18.65	31	20.35

14.61.29.bb (*910, p. 182; 940, p. 158; 948, p. 162; *990, p. 272). A. E. Cook. NW¼NW¼ sec. 29, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	23.87	May 31	23.90	Sept. 1	23.95	Oct. 31	24.29
Feb. 24	23.94	June 27	23.46	Oct. 3	24.09	Dec. 3	24.13
Apr. 27	23.86	July 29	23.59				

14.62.12.cc (*910, p. 182; 940, p. 157; 948, p. 161; *990, p. 272). C. E. Kaser. SW¼SW¼ sec. 12, T. 14 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	4.72	June 27	4.94	Sept. 1	4.25	Nov. 1	5.06
Feb. 24	4.70	July 29	5.03	Oct. 3	5.39	Dec. 3	5.20
Apr. 28	4.45						

14.62.22.bb (*910, p. 183; 940, p. 159; 948, p. 164; *990, p. 272). J. W. Minnick. NW¼NW¼ sec. 22, T. 14 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 24	95.26	May 31	95.32	July 29	95.31
Apr. 28	95.28	June 27	95.37		

14.62.24.ad (*910, p. 182; 940, p. 157; 948, p. 162; *990, p. 272). Union Pacific Railroad. SE¼NE¼ sec. 24, T. 14 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	28.76	Apr. 28	28.97	July 29	29.94	Oct. 31	29.05
Feb. 24	28.75	May 31	29.0	Sept. 1	28.89	Dec. 3	29.04
Mar. 27	28.87	June 27	28.69	Oct. 3	28.96		

14.62.24.daa (*990, p. 273). Fred Shultz. NE¼NE¼SE¼ sec. 24, T. 14 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Jan. 24	21.62	Apr. 28	21.86	July 29	21.07	Nov. 1	21.52
Feb. 24	21.71	May 31	21.89	Sept. 1	21.68	Dec. 3	21.60
Mar. 27	21.81	June 27	21.19	Oct. 3	21.45		

14.62.36.db (*910, p. 183; 940, p. 160; 948, p. 164; *990, p. 273). J. M. Bastain. NW¼SE¼ sec. 36, T. 14 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	7.42	June 28	7.19	Sept. 1	7.99	Nov. 1	7.32
Apr. 28	6.63	Aug. 3	7.56	Oct. 2	7.60		

14.63.12.cd (*940, p. 161; 948, p. 165; *990, p. 273). J. D. Johnson. SE¼SW¼ sec. 12, T. 14 N., R. 63 W. Water levels, in feet below land-surface datum, 1944: Jan. 24, 62.02; Apr. 27, 62.06; June 27, 61.16.

14.63.20.dc (*940, p. 161; 948, p. 165; 990 p. 273). Elmer Gibson. SW¼SE¼ sec. 20, T. 14 N., R. 63 W. Water levels, in feet below land-surface datum, 1944: Jan. 24, 79.33; Mar. 27, 79.35; June 27, 79.35.

14.63.34.daa (*948, p. 168; 990, p. 273). F. G. Noyes. NE¼NE¼SE¼ sec. 34, T. 14 N., R. 63 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	95.46	June 1	95.39	Aug. 3	95.46	Oct. 2	95.45
Feb. 25	95.37	28	95.44	31	95.36	Nov. 1	95.40
Apr. 29	95.41						

13.60.8.cb (*910, p. 183; 940, p. 159; 948, p. 163; *990, p. 273). Herbert Campbell. NW¼SW¼ sec. 8, T. 13 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 28	40.96	Apr. 28	33.01	Oct. 2	43.93
Feb. 25	40.03	June 28	35.49	31	42.47

13.60.24.aa (*910, p. 182; 940, p. 158; 948, p. 162; *990, p. 273). Owner unknown. NE¼NE¼ sec. 24, T. 13 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	13.06	June 1	11.05	Aug. 3	13.08	Oct. 31	14.27
Feb. 25	12.78	28	11.09	Oct. 2	15.17	Dec. 4	13.81
Apr. 28	9.40						

13.60.31.aa (*910, p. 181; 940, p. 156; 948, p. 161; *990, p. 274). W. T. Young, Jr. NE¼NE¼ sec. 31, T. 13 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	37.56	June 1	37.19	Aug. 31	40.55	Nov. 1	38.82
Feb. 25	37.42	28	37.06	Oct. 2	39.53	Dec. 4	38.30
Apr. 29	36.86	Aug. 3	42.09				

13.60.31.cc (*948, p. 168; 990, p. 274). William Young. SW¼SW¼ sec. 31, T. 13 N., R. 60 W. No measurements made in 1944.

13.60.31.ddd (*948, p. 168; *990, p. 274). William Young. SE¼SE¼SE¼ sec. 31, T. 13 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	17.83	Apr. 29	17.14	June 28	17.31	Nov. 1	19.29
Feb. 25	17.67	June 1	17.59	Oct. 2	20.15	Dec. 4	18.80

13.61.3.dc (*910, p. 183; 940, p. 160; 948, p. 164; *990, p. 274). Jim Dolan. SW¼SE¼ sec. 3, T. 13 N., R. 61 W.

Water*level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Feb. 24	17.20	June 28	19.64	Oct. 3	20.59
Apr. 28	16.97	Sept. 1	20.39	Nov. 1	19.57

13.61.5.dba (*910, p. 182; 940, p. 158; 948, p. 163; *990, p. 274). J. D. Wasson. NE¼NW¼SE¼ sec. 5, T. 13 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Apr. 28	7.60	Aug. 3	9.06	Oct. 2	9.50
June 28	8.42	Sept. 1	9.60	Nov. 1	9.00

13.61.12.cc (*910, p. 182; 940, p. 158; 948, p. 162; 990, p. 274). Mr. Kelley. SW¼SW¼ sec. 12, T. 13 N., R. 61 W. Water levels, in feet below land-surface datum, 1944: June 28, 3.07; Sept. 1, 7.3; Oct. 3, 7.78; Nov. 1, 6.97.

13.61.16.dc (*910, p. 182; 940, p. 158; 948, p. 162; *990, p. 274). Mr. Allen. SW¼SE¼ sec. 16, T. 13 N., R. 61 W. Well caved in. No measurements made in 1944.

13.61.22.cb (*910, p. 182; 940, p. 159; 948, p. 163; *990, p. 274). Mr. Evans. NW¼SW¼ sec. 22, T. 13 N., R. 61 W. Water level, in feet below land-surface datum, 1944: June 28, 45.76.

13.61.31.ddc (*948, p. 168; *990, p. 275). Max Thelan. SW¼SE¼SE¼ sec. 31, T. 13 N., R. 61 W.

13.61.31.ddc. Max Thelan--Continued.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	44.99	June 1	44.88	Aug. 3	44.94	Oct. 2	44.93
Feb. 25	44.95	28	44.99	31	44.93	Nov. 1	44.93
Apr. 29	44.89						

13.62.16.ccc (*948, p. 168; 990, p. 276). State of Wyoming. SW¼SW¼SW¼ sec. 16, T. 13 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
Jan. 28	56.64	Apr. 29	56.64	Aug. 3	56.70
Feb. 25	56.63	June 28	56.70		

13.62.21.ccc (*948, p. 168; *990, p. 275). Union Pacific Railroad. SW¼SW¼SW¼ sec. 21, T. 13 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Feb. 25	44.09	June 28	44.02	Sept. 1	45.56
Apr. 29	44.19	Aug. 3	43.92		

13.62.24.aba (*948, p. 168; *990, p. 275). Lydia M. Wilkowski. NE¼NW¼NE¼ sec. 24, T. 13 N., R. 62 W. Water levels, in feet below land-surface datum, 1944: Jan. 28, 53.57; Apr. 29, 53.43; June 28, 53.55; Aug. 3, 53.50.

13.62.28.add (*948, p. 168; *990, p. 275). George L. Reeder. SE¼SE¼NE¼ sec. 28, T. 13 N., R. 63 W. No measurements made in 1944.

13.62.29.bc (*948, p. 166; *990, p. 275). Wm. H. Chamberlain. SW¼NW¼ sec. 29, T. 13 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	47.07	June 1	46.87	Aug. 31	46.80	Nov. 1	46.78
Feb. 25	46.90	28	46.87	Oct. 2	47.46	Dec. 4	46.89
Apr. 29	46.88	Aug. 3	46.78				

13.62.29.ccc (*948, p. 166; *990, p. 275). Union Pacific Railroad. SW¼SW¼SW¼ sec. 29, T. 13 N., R. 62 W. Water level, in feet below land-surface datum, 1944: Feb. 25, 54.72.

13.62.30.bcc (*948, p. 166; published incorrectly as 13.63.30.bcc in *990, p. 276). James H. Carnes. SW¼SW¼NW¼ sec. 30, T. 13 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	43.36	June 1	43.37	Aug. 31	43.45	Nov. 1	43.73
Feb. 25	43.22	28	43.38	Oct. 2	44.55	Dec. 4	43.80
Apr. 29	43.33	Aug. 3	43.35				

13.62.31.cac (*948, p. 166; *990, p. 275). Carpenter General Store. SW¼NE¼SW¼ sec. 31, T. 13 N., R. 62 W. Well in use; no measurements made in 1944.

13.63.4.cb (*948, p. 167; 990, p. 276). James L. Bailey. NW¼SW¼ sec. 4, T. 13 N., R. 63 W. No measurements made in 1944.

13.63.8.acc (*948, p. 166; *990, p. 276). Emil Gustafeson. SW¼SW¼NE¼ sec. 8, T. 13 N., R. 63 W. Water levels, in feet below land-surface datum, 1944: Feb. 25, 65.58; Apr. 29, 65.33; June 28, 65.30; Aug. 31, 65.25.

13.63.10.aaa (*948, p. 168; *990, p. 276). William Dittmer. NE¼NE¼NE¼ sec. 10, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	67.37	June 1	67.27	Aug. 3	67.27	Oct. 2	67.40
Feb. 25	67.28	28	67.30	31	70.93	Nov. 1	67.23
Apr. 29	67.27						

13.63.14.dcc (*948, p. 166; *990, p. 276). Ralph V. Kent. SW¼SW¼SE¼ sec. 14, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	37.52	Apr. 29	37.40	June 28	37.39	Oct. 2	37.45
Feb. 25	37.39	June 1	37.40	Aug. 31	37.39	Nov. 1	37.44

13.63.22.bba (*948, p. 167; *990, p. 276). Ralph V. Kent. NE¼NW¼NW¼ sec. 22, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1944

Feb. 25	55.97	June 28	55.88	Aug. 31	56.50	Nov. 1	57.58
Apr. 29	55.95	Aug. 3	55.90	Oct. 2	55.88		

13.63.26.ca (*948, p. 167; *990, p. 276). Ed Oline. NE¼SW¼ sec. 26, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1944

Feb. 25	49.16	June 1	48.97	Aug. 3	49.06	Oct. 2	49.30
Apr. 29	48.97	28	49.00	31	49.10	Nov. 1	49.29

13.63.33.cb (*948, p. 166; *990, p. 276). D. A. Bunnell. NW¼SW¼ sec. 33, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1944

Apr. 29	46.20	June 28	46.02	Aug. 31	45.87	Nov. 1	45.88
June 1	46.14	Aug. 3	45.92	Oct. 2	45.84		

13.64.28.ccb (*948, p. 167; *990, p. 277). L. A. Foster. NW¼SW¼SW¼ sec. 28, T. 13 N., R. 64 W. Water level, in feet below land-surface datum, 1944: June 28, 144.49.

13.64.30.cbb (*948, p. 167; *990, p. 277). Wilbur Sevope. NW¼NW¼SW¼ sec. 30, T. 13 N., R. 64 W. Well could not be measured.

13.64.35.ab (*948, p. 166; 990, p. 277). Twila G. Wilcox. NW¼NE¼ sec. 35, T. 13 N., R. 64 W. No measurements made in 1944.

13.65.24.ad (*948, p. 167; 990, p. 277). C. H. Senior. SE¼NE¼ sec. 24, T. 13 N., R. 65 W. No measurements made in 1944.

12.60.5.ccd (*948, p. 169; *990, p. 277). William Young. SE¼SW¼SW¼ sec. 5, T. 12 N., R. 60 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	24.79	June 1	25.52	Aug. 3	26.82	Nov. 1	26.31
Feb. 25	24.60	28	24.41	Oct. 2	26.92	Dec. 4	25.70
Apr. 29	24.23						

12.61.1.dcc (*948, p. 169; *990, p. 277). Union Pacific Railroad. SW¼SW¼SE¼ sec. 1, T. 12 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	63.11	June 1	62.85	Aug. 31	60.92	Nov. 1	63.18
Feb. 25	62.78	28	62.94	Oct. 2	63.23	Dec. 4	63.15
Apr. 29	62.88	Aug. 3	62.84				

12.61.2.ba (*910, p. 182; 940, p. 159; 948, p. 163; 990, p. 277). NE¼NW¼ sec. 2, T. 12 N., R. 61 W. No measurements made in 1944.

12.61.10.dcc (*948, p. 169; *990, p. 277). Joseph L. McDonald. SW¼SW¼SE¼ sec. 10, T. 12 N., R. 61 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 25	37.95	June 28	38.11	Aug. 31	38.10	Nov. 1	38.52
Apr. 29	37.86	Aug. 3	38.10	Oct. 2	39.05	Dec. 4	38.27
June 1	37.94						

12.62.6.aab (*948, p. 167; *990, p. 277). William Flamme. NW¼NE¼NE¼ sec. 6, T. 12 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	61.66	June 28	60.05	Aug. 31	46.63	Nov. 1	60.19
Apr. 29	60.51	Aug. 3	59.63	Oct. 2	48.20	Dec. 4	47.29
June 1	60.10						

12.62.8.aa (*948, p. 168; *990, p. 278). Bank of Carpenter. NE¼NE¼ sec. 8, T. 12 N., R. 62 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	55.21	June 1	54.56	Aug. 31	54.35	Nov. 1	54.23
Feb. 25	54.95	28	54.30	Oct. 2	55.52	Dec. 4	54.13
Apr. 29	54.65	Aug. 3	54.26				

12.62.9.aba (*948, p. 168; *990, p. 278). D. A. Bunnell. NE¼NW¼NE¼ sec. 9, T. 12 N., R. 62 W. Water levels, in feet below land-surface datum, 1944: Jan. 28, 50.23; Apr. 29, 49.91; June 28, 49.75; Aug. 3, 49.63.

12.62.13.abb (*948, p. 169; *990, p. 278). Roy D. Smith. NW¼NW¼NE¼ sec. 13, T. 12 N., R. 62 W. Water levels, in feet below land-surface datum, 1944: Feb. 25, 24.63; June 1, 24.58.

12.63.3.baa (*948, p. 167; *990, p. 278). Roy L. Gasuraunt. NE¼NE¼NW¼ sec. 3, T. 12 N., R. 63 W.

Water level, in feet below land-surface datum, 1944

Jan. 28	42.73	June 1	43.24	Aug. 31	42.83	Nov. 1	42.94
Feb. 25	43.57	28	43.02	Oct. 2	42.69	Dec. 4	43.07
Apr. 29	43.36	Aug. 3	42.91				

12.63.3.da (*948, p. 166; 990, p. 278). Wyoming Farm Loan Board. NE¼SE¼ sec. 3, T. 12 N., R. 63 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level
June 1	30.96	Aug. 3	29.50	Oct. 2	29.48
28	29.70	31	29.44	Nov. 1	30.16

12.63.7.db 1 (*948, p. 167; *990, p. 278). Mrs. F. E. Bollan. NW¼SE¼ sec. 7, T. 12 N., R. 63 W. No measurements made in 1944.

12.63.7.db 2 (*948, p. 167; 990, p. 278). Otis Breeden. NW¼SE¼ sec. 7, T. 12 N., R. 63 W. No measurements made in 1944.

12.63.12.da (*948, p. 169; *990, p. 278). Otis Breeden. NE¼SE¼ sec. 12, T. 12 N., R. 63 W.

Water level, in feet below land-surface datum, 1944

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 25	5.14	June 28	4.77	Aug. 31	5.54	Nov. 1	5.53
Apr. 29	4.40	Aug. 3	5.34	Oct. 2	5.48	Dec. 4	5.60
June 1	4.85						

12.64.4.bb (*948, p. 167; *990, p. 279). Wyoming Hereford Ranch. NW¼NW¼ sec. 4, T. 12 N., R. 64 W. Water level, in feet below land-surface datum, 1944: June 28, 152.10.