

Water Levels and Artesian Pressure in Observation Wells in the United States in 1946

Part 5. Northwestern States

Prepared under the direction of C. G. PAULSEN, Chief Hydraulic Engineer

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1075

*Prepared in cooperation with the States
of Colorado, Idaho, Oregon, Utah,
Washington, Wyoming, and other
agencies*



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UNITED STATES DEPARTMENT OF THE INTERIOR

J. A. Krug, *Secretary*

GEOLOGICAL SURVEY

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PREFACE

This report was prepared by the Geological Survey in cooperation with the States of Colorado, Idaho, Montana, Oregon, Utah, Washington, and Wyoming, and other agencies, by personnel of the Water Resources Division under the direction of:

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WATER LEVELS AND ARTESIAN PRESSURE IN OBSERVATION WELLS IN THE UNITED STATES IN 1946

Part 5. NORTHWESTERN STATES

INTRODUCTION

By A. N. Sayre and others

Significance of records of water level and artesian pressure

The rock formations of the earth are great natural 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-western 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
1945	1023	1024	1025	1026	1027	1028
1946	1071	1072	1073	1074	1075	1076

Scope of present volume

The present volume covers the northwestern States and gives records of water level and artesian pressure in about 1,377 observation wells of the Geological Survey and cooperating agencies in Colorado, Idaho, Montana, Oregon, Utah, Washington, and Wyoming. Of these wells, 30 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 years before 1946. 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 6,120 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-surface datum for the first

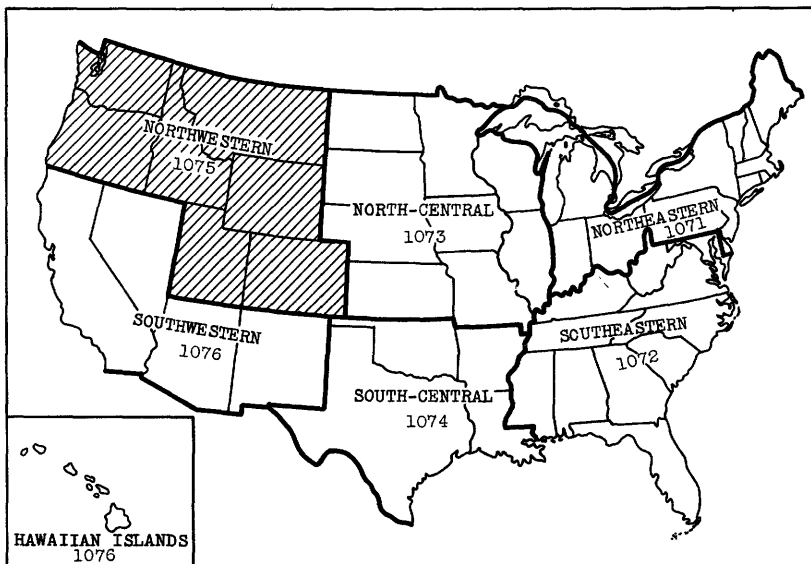


Figure 1.--Outline map of the United States showing sections of the country covered by the six water-supply papers on water levels and artesian pressure in observation wells in 1946. The shaded section represents the part of the country covered by this volume.

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 planes, 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 1946 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 1946 in the northwestern part of the United States

In 1946 the precipitation in four of the seven States in the northwestern section of the country was above normal and the water levels in many wells in these States rose. In Colorado, Montana, and Wyoming precipitation was about normal or below normal. The fluctuations of both water level and artesian pressure in wells depend, however, on many factors besides the amount of precipitation. In certain of the observation wells there are fluctuations caused by differences in the rate of pumping or artesian flow from other wells in the area, but most of the observation wells are not noticeably affected by pumping or artesian flow. 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 the Misses Beulah B. Brunson and Dorothy M. Ireland and Mrs. Nauvoo Ragland and Mrs. Frances Dowell, and Rodney Hart. Miss Ireland had general charge of the assembling of the several reports and did the editing; Mr. Hart prepared the illustrations; and Mrs. Ragland, Mrs. Dowell, and Miss Brunson did the offset typing.

COLORADO

By S. W. Lohman, W. E. Code, and W. R. Smith

PROGRAM OF WORK

The observation-well program in Colorado, begun in 1942, was continued in 1946 in cooperation with the Colorado Water Conservation Board and with W. E. Code, Colorado Agricultural Experiment Station, Colorado A. and M. College.

During the year a report on the "Geology and ground-water resources of parts of Lincoln, Elbert, and El Paso Counties, Colorado, with special reference to Big Sandy Creek Valley above Limon," by Thad G. McLaughlin, was completed and is to be published as a bulletin of the Colorado Water Conservation Board. Field work was completed in the sump drain area of the San Luis Valley, and studies are continuing in the Denver artesian basin and in the Grand Junction artesian basin in Mesa County.

Water-level measurements for 198 wells (erroneously given as 194 wells) were given in the 1945 water-level report. During the year measurements were discontinued in 4 wells, measurements were begun in 5 new wells, and the records of 11 wells, for which measurements were begun in 1945, are included in this report for the first time. Thus, at the end of 1946 observations were being made in 210 wells, and 667 wetted-tape measurements are given below.

The water-levels in 191 wells were measured twice yearly by W. E. Code; 3 of the wells were equipped with automatic water-stage recorders; 11 wells were observed at about monthly intervals by members of the Denver office of the division of ground water; 3 wells were observed monthly by engineers of the Denver Office of the division of surface water, through the courtesy of Robert Follansbee, district engineer; and one well was observed monthly by a local observer.

WELL-NUMBERING SYSTEM

The well-numbering system used in this report was described in Water-Supply Paper 1027.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Adams County

C-1-60-4ccc (*1027, p. 6). W. L. Freeman. Water levels, in feet below land-surface datum, 1946: Apr. 24, 22.38; Oct. 30, 23.16.

C-1-60-17dcc (*1027, p. 7). Carl Sanden. Water levels, in feet below land-surface datum, 1946: Apr. 24, 26.70; Oct. 30, 29.10.

C-1-60-29cbd (*1027, p. 7). J. D. Singleton. Water level, in feet below land-surface datum, 1946: Oct. 30, 33.29.

C-1-62-22cac. Charles B. Nordloh. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, T. 1 S., R. 62 W. Irrigation well, diameter 18 inches, depth 92.0 feet. Measuring point, top of casing, 0.8 foot below land-surface datum. Equipped with electrically driven turbine pump. Water levels, in feet below land-surface datum, 1946: Apr. 24, 45.74; Oct. 30, 47.08.

C-1-62-34cd. John H. Nordloh. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 1 S., R. 62 W. Irrigation well, diameter 24 inches, depth 85 feet. Measuring point, top of casing, 1.2 feet above land-surface datum. Equipped with electrically driven turbine pump. Water level, in feet below land-surface datum, 1946: Oct. 30, 33.22.

C-1-66-7cc (*1027, p. 7). C. Hose. Water levels, in feet below land-surface datum, 1946: Apr. 23, 20.10; Oct. 31, 19.67.

C-1-66-19dc (*1027, p. 7). A. B. Perry. Water levels, in feet below land-surface datum, 1946: Apr. 23, 32.67; Oct. 31, 32.08.

C-1-67-13db (*1027, p. 7). Ed Schnute. Water levels, in feet below land-surface datum, 1946: Apr. 23, 21.83; Oct. 31, 21.94.

C-1-67-35cda (*1027, p. 8). L. A. Ernst. Water levels, in feet below land-surface datum, 1946: Apr. 23, 21.55; Oct. 31, 20.95.

C-2-60-19bcc (*1027, p. 8). Oscar Helgesen. Water levels, in feet below land-surface datum, 1946: Apr. 24, 17.48; Oct. 30, 17.55.

C-2-65-2bdd (*1027, p. 8). Box Elder Farms. Water level, in feet below land-surface datum, 1946: Oct. 31, 21.22.

C-2-65-11ddc (*1027, p. 8). Box Elder Farms. Water levels, in feet below land-surface datum, 1946: Apr. 23, 28.35; Oct. 31, 28.43.

C-2-65-14dcb (*1027, p. 9). Box Elder Farms. Water levels, in feet below land-surface datum, 1946: Apr. 23, 14.08; Oct. 31, 14.34.

C-2-65-23dab (*1027, p. 9). Box Elder Farms. Water levels, in feet below land-surface datum, 1946: Apr. 23, 14.69; Oct. 31, 15.83.

C-2-65-26dba (*1027, p. 9). Box Elder Farms. Water levels, in feet below land-surface datum, 1946: Apr. 23, 17.55; Oct. 31, 18.97.

C-2-65-35dbb (*1027, p. 9). Box Elder Farms. Water levels, in feet below land-surface datum, 1946: Apr. 23, 16.12; Oct. 31, 17.24.

C-2-65-35dcd (*1027, p. 9). Box Elder Farms. Water levels, in feet below land-surface datum, 1946: Apr. 23, 15.76; Oct. 31, 15.84.

C-2-67-10ded (*1027, p. 10). Cora Wall. Water levels, in feet below land-surface datum, 1946: Apr. 23, 28.70; Oct. 31, 27.84.

C-2-67-20ded (*1027, p. 10). Chas. Fadden. Water levels, in feet below land-surface datum, 1946: Apr. 23, 24.67; Oct. 31, 25.25.

C-2-67-31ldb (*1027, p. 10). M. M. Summers. Water levels, in feet below land-surface datum, 1946: Apr. 23, 25.06; Oct. 31, 25.36.

C-3-65-23ddd (*1027, p. 11). L. Erling. Water level, in feet below land-surface datum, 1946: Oct. 31, 16.90.

C-3-67-6dd (*1027, p. 11). H. L. Swanson. Water levels, in feet below land-surface datum, 1946: Apr. 23, 18.69; Oct. 31, 19.42.

Arapahoe County

C-4-68-33cd (948, p. 8; 990, p. 6; 1020, p. 5; 1027, p. 11). Frank Hornbuckle.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	8.37	May 15	6.38	Aug. 1	6.58	Oct. 31	8.21
Feb. 19	8.43	June 24	6.14	Sept. 17	7.60	Nov. 13	8.20
Mar. 19	8.50	July 3	6.43	Oct. 10	7.26	Dec. 18	8.38
Apr. 16	7.10	17	5.60				

Elbert County

C-9-57-8abb. J. C. Mattson. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 9 S., R. 57 W. Abandoned irrigation well, diameter 6 inches, depth 28.4 feet. Measuring point, top of casing, east side, 0.2 foot above land-surface datum.

Water level, in feet below land-surface datum, 1945-46					
Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	6.18	May 24, 1946	6.10	Aug. 14, 1946	6.40
Jan. 15, 1946	6.11	June 24	6.57	Sept. 1	6.32
Feb. 18	6.06	July 15	6.76	Oct. 12	6.45
Mar. 8	6.06	19	6.00	Nov. 30	5.93
Apr. 20	6.00				

C-9-58-27aaa. James E. Stubbs. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T. 9 S., R. 58 W. North well of battery of three irrigation wells, diameter 24 inches, depth 56 feet. Measuring point, top of steel casing, 0.3 foot below land-surface datum. Equipped with electrically driven turbine pump. Measured yield in 1945, 640 gallons a minute.

Water level, in feet below land-surface datum, 1945-46					
Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	7.66	Mar. 8, 1946	7.66	May 24, 1946	7.75
Jan. 15, 1946	7.67	Apr. 20	7.67	June 24	8.71
Feb. 18	7.67				

C-9-58-34ccb. Heber Ellsworth. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 9 S., R. 58 W. Irrigation well, diameter 24 inches, depth 55.2 feet. Measuring point, top of casing, west side, at land-surface datum. Equipped with electrically driven turbine pump. Measured yield in 1945, 450 gallons a minute.

Water level, in feet below land-surface datum, 1945-46					
Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	11.86	May 24, 1946	12.17	Sept. 1, 1946	12.12
Jan. 1, 1946	11.96	June 24	12.25	Oct. 12	12.26
Feb. 18	12.00	July 15	12.40	Nov. 30	12.33
Mar. 8	11.98				

C-10-58-8cccc. Owner unknown. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 10 S., R. 58 W. Abandoned domestic and stock well, diameter 6 inches, depth 18.3 feet. Measuring point, top of casing, west side, 2.5 feet above land-surface datum.

Water level, in feet below land-surface datum, 1945-46					
Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	9.55	Apr. 20, 1946	9.36	July 19, 1946	10.22
Jan. 15, 1946	9.24	May 24	9.42	Sept. 6	9.83
Feb. 18	9.19	June 24	9.86	Oct. 12	10.33
Mar. 8	9.35	July 15	10.36	Nov. 30	9.92

C-10-58-21bb. Mrs. Frances Simpson. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 10 S., R. 58 W. Abandoned stock well, diameter 6 inches, depth 59.5 feet. Measuring point, top of casing, north side, 1.0 foot above land-surface datum.

Water level, in feet below land-surface datum, 1945-46

Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	31.28	Apr. 20, 1946	32.61	July 19, 1946	32.93
Jan. 15, 1946	32.24	May 24	32.79	Sept. 1	32.98
Feb. 18	32.37	June 24	32.80	Oct. 12	32.95
Mar. 8	32.49	July 15	32.92	Nov. 30	33.12

C-10-59-13ca. John Kochis. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 10 S., R. 59 W. Unused irrigation well, diameter 6 inches, depth 24.7 feet. Measuring point, top of casing, south side, 0.5 foot below land-surface datum. Equipped with cylinder pump.

Water level, in feet below land-surface datum, 1945-46

Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	8.83	Apr. 20, 1946	8.99	Sept. 1, 1946	9.14
Jan. 15, 1946	9.94	May 24	9.13	Oct. 12	10.10
Feb. 18	10.03	June 24	9.86	Nov. 30	10.19
Mar. 8	9.09	July 19	9.89		

C-10-59-22ab. William Groff. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 10 S., R. 59 W. North well of battery of two irrigation wells, diameter 18 inches, depth 55 feet. Measuring point, top of pump base, 1.0 foot above land-surface datum. Equipped with electrically driven turbine pump. Measured yield of battery in 1946, 1,100 gallons a minute.

Water level, in feet below land-surface datum, 1945-46

Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	10.96	Mar. 8, 1946	10.82	July 15, 1946	a 13.21
Jan. 15, 1946	10.91	Apr. 20	10.97	Sept. 1	a 11.96
Feb. 19	10.88	May 24	11.03	Oct. 12	12.08

a Pumped prior to measurement.

C-10-60-26cd. Simla Cemetery. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 10 S., R. 60 W. Irrigation well, diameter 6 inches, depth 40.0 feet. Measuring point, top of casing, south side, 0.5 foot above land-surface datum. Equipped with wind-driven cylinder pump.

Water level, in feet below land-surface datum, 1945-46

Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	23.72	Apr. 20, 1946	23.80	July 15, 1946	24.27
Jan. 15, 1946	23.69	May 24	23.91	Sept. 1	24.15
Feb. 19	23.66	June 24	24.09	Oct. 12	24.29
Mar. 8	23.66				

El Paso County

C-11-61-1b. Owner unknown. Center of NW $\frac{1}{4}$ sec. 1, T. 11 S., R. 61 W. Abandoned domestic well, diameter 48 inches, depth 13.8 feet. Measuring point, top of concrete casing, northwest side, at land-surface datum. Equipped with hand-operated cylinder pump.

Water level, in feet below land-surface datum, 1945-46

Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	11.67	Apr. 20, 1946	11.63	July 20, 1946	12.56
Jan. 15, 1946	11.80	May 24	11.75	Sept. 1	12.01
Feb. 19	11.63	June 24	12.43	Oct. 12	12.79
Mar. 8	11.56	July 15	12.74		

C-11-62-22ad. Anthony Eurich. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 11 S., R. 62 W. Irrigation well, diameter 24 inches, depth 44 feet. Measuring point, top of casing, east side, 0.8 foot above land-surface datum. Equipped with turbine pump. Reported yield in 1945, 375 gallons a minute.

Water level, in feet below land-surface datum, 1945-46

Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	6.45	Apr. 20, 1946	6.38	Aug. 2, 1946	6.80
Jan. 15, 1946	6.37	May 24	6.45	21	6.78
Feb. 19	6.40	June 24	6.71	Oct. 12	6.68
Mar. 8	6.40	July 15	6.79		

C-15-66-11cbd (*1027, p. 11). Venetucci Bros. Water level, in feet below land-surface datum, 1946: Dec. 5, 38.15.

C-15-66-14abd (*1027, p. 11). T. L. Bender. Water levels, in feet below land-surface datum, 1946: Apr. 2, 24.34; Dec. 5, 24.01.

C-15-66-25aaa (*1027, p. 11). W. E. Busch. Water levels, in feet below land-surface datum, 1946: Apr. 2, 29.91; Dec. 5, 30.40.

C-16-65-16bb (*1027, p. 11). L. F. Oldensteadt. Water levels, in feet below land-surface datum, 1946: Apr. 2, 34.67; Dec. 5, 36.28.

Garfield County

C-7-88-29ab (*948, p. 8; 990, p. 6; 1020, p. 5; 1027, p. 11). J. F. Smith.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	36.25	Apr. 17	36.10	July 25	27.92	Nov. 20	34.64
Feb. 25	36.30	June 3	29.34	Sept. 3	30.94	Dec. 26	35.70
Mar. 16	36.24	28	28.32	Oct. 8	31.42		

Larimer County

B-5-68-17abb (*1027, p. 12). Geo. Peak. Water levels, in feet below land-surface datum, 1946: Apr. 26, 11.53; Nov. 11, 9.18.

B-6-68-1ba (*1027, p. 12). M. J. Warner. Water level, in feet below land-surface datum, 1946: Oct. 28, 10.52.

B-7-68-9aaa (*1027, p. 12). Ed Wright. Water levels, in feet below land-surface datum, 1946: Apr. 29, 7.99; Dec. 2, 7.97.

B-7-68-10cbb (*1027, p. 12). Drake Estate. Water level, in feet below land-surface datum, 1946: Dec. 2, 5.54.

B-7-68-22bbb (*1027, p. 13). Ray Pitcher. Water levels, in feet below land-surface datum, 1946: Apr. 26, 6.93; Oct. 28, 5.55.

B-7-68-23cbb (*1027, p. 13). W. A. Scott. Water levels, in feet below land-surface datum, 1946: Apr. 26, 7.12; Oct. 28, 6.72.

B-8-68-4bba (*1027, p. 13). A. Heckman. Water level, in feet below land-surface datum, 1946: Dec. 2, 25.07.

B-8-68-10cbb (*1027, p. 13). A. L. Bee. Water level, in feet below land-surface datum, 1946: Dec. 2, 15.04.

B-8-68-16aa (*1027, p. 14). R. E. Nutter. Water level, in feet below land-surface datum, 1946: Dec. 2, 20.76.

B-8-68-22cbb (*1027, p. 14). J. E. Swansen. Water levels, in feet below land-surface datum, 1946: Apr. 29, 10.31; Dec. 2, 10.05.

B-8-68-27cbb (*1027, p. 14). A. L. Seamans. Water level, in feet below land-surface datum, 1946: Dec. 2, 12.84.

B-8-68-28aab (*1027, p. 15). F. L. Bartels. Water level, in feet below land-surface datum, 1946: Dec. 2, 8.46.

B-8-68-33ccc (*1027, p. 15). F. C. Kluver. Water level, in feet below land-surface datum, 1946: Dec. 2, 13.60.

B-9-68-17ab (*1027, p. 15). Harlan Seworth. Water level, in feet below land-surface datum, 1946: Dec. 2, 45.26.

B-9-68-28bbb (*1027, p. 15). E. F. Weedel. Water levels, in feet below land-surface datum, 1946: Apr. 29, 20.03; Dec. 2, 21.48.

B-9-68-33bdc (*1027, p. 16). W. E. Dalby. Water level, in feet below land-surface datum, 1946: Dec. 2, 28.82.

Lincoln County

C-9-56-26aa. Owner unknown. NE $\frac{1}{4}$ sec. 26, T. 9 S., R. 56 W. Unused stock well, diameter 20 inches, depth 23.3 feet. Measuring point, top of casing, east side, 0.7 foot above land-surface datum. Equipped with wind-driven cylinder pump.

Water level, in feet below land-surface datum, 1945-46

Date	Water level	Date	Water level	Date	Water level
Dec. 11, 1945	19.98	Mar. 8, 1946	19.99	Oct. 12, 1946	19.94
Jan. 15, 1946	19.99	Apr. 20	19.94	Nov. 30	20.24
Feb. 18	20.20				

Logan County

B-7-52-7acc (*1027, p. 16). H. F. Shaefer. Water levels, in feet below land-surface datum, 1946: Apr. 25, 14.58; Oct. 29, 13.86.

B-7-53-21bcc (*1027, p. 16). Victor Hessler. Water levels, in feet below land-surface datum, 1946: Apr. 25, 14.88; Oct. 29, 13.92.

B-7-53-23bbb (*1027, p. 16). Nisson. Water levels, in feet below land-surface datum, 1946: Apr. 25, 31.86; Oct. 29, 28.85.

B-7-53-26ab (*1027, p. 16). Ben Fisher. Water levels, in feet below land-surface datum, 1946: Apr. 25, 10.25; Oct. 29, 9.79.

B-7-53-33aaa (*1027, p. 17). David Wagner. Water levels, in feet below land-surface datum, 1946: Apr. 25, 13.10; Oct. 29, 11.66.

B-7-54-12cbb (*1027, p. 17). John Amen. Water levels, in feet below land-surface datum, 1946: Apr. 25, 10.15; Oct. 29, 11.17.

B-8-52-10acc (*1027, p. 17). G. A. Henderson. Water levels, in feet below land-surface datum, 1946: Apr. 25, 4.95; Oct. 29, 4.97.

B-8-52-17cbb (*1027, p. 17). Joe Willson. Water levels, in feet below land-surface datum, 1946: Apr. 25, 19.88; Oct. 29, 17.20.

Morgan County

B-1-55-18bcc (*1027, p. 17). R. H. Awmiller. Water levels, in feet below land-surface datum, 1946: Apr. 25, 37.26; Oct. 29, 37.15.

B-1-55-31dac (*1027, p. 18). James Bolinger. Water level, in feet below land-surface datum, 1946: Oct. 29, 32.90.

B-1-56-1dcc (*1027, p. 18). Mrs. John Shaw. Water levels, in feet below land-surface datum, 1946: Apr. 25, 35.02; Oct. 29, 34.40.

B-1-60-23bcc (*1027, p. 18). Ed Westhoff. Water level, in feet below land-surface datum, 1946: Oct. 30, 18.57.

B-1-60-26ccc (*1027, p. 18). D. Baumgardner. Water level, in feet below land-surface datum, 1946: Oct. 30, 22.05.

B-2-55-30bcc2 (*1027, p. 18). J. D. Bickert. Water levels, in feet below land-surface datum, 1946: Apr. 25, 20.40; Oct. 29, 21.44.

B-2-56-1ddd (*1027, p. 18). G. A. Folles. Water levels, in feet below land-surface datum, 1946: Apr. 25, 14.41; Oct. 29, 14.62.

B-2-56-13aaa (*1027, p. 18). J. E. Hunt. Water levels, in feet below land-surface datum, 1946: Apr. 25, 4.84; Oct. 29, 5.80.

B-2-56-24aaa (*1027, p. 19). Max Peterson. Water levels, in feet below land-surface datum, 1946: Apr. 25, 14.96; Oct. 29, 16.05.

B-2-60-4ddd (*1027, p. 19). William Reck. Water level, in feet below land-surface datum, 1946: Oct. 28, 54.94.

B-2-60-13dd (*1027, p. 19). C. A. Bresnahan. Water levels, in feet below land-surface datum, 1946: Apr. 24, 46.32; Oct. 30, 47.92.

B-2-60-26dd (*1027, p. 19). R. A. Baer. Water levels, in feet below land-surface datum, 1946: Apr. 24, 53.49; Oct. 30, 57.8.

B-3-56-7ccb (*1027, p. 20). Jake Lenhardt. Water levels, in feet below land-surface datum, 1946: Apr. 25, 27.96; Oct. 29, 27.73.

B-3-56-24bb (*1027, p. 20). Chas. Henry. Water levels, in feet below land-surface datum, 1946: Apr. 25, 5.32; Oct. 29, 5.72.

B-3-57-6dc (*1027, p. 20). City of Fort Morgan.

Lowest daily water level, in feet below land-surface datum, 1946

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.4	44.7	45.2	45.76	45.42	44.86	44.81
2	44.4	44.7	45.2	45.75	45.44	44.95	44.80
3	44.3	44.8	45.3	45.75	45.44	44.95	44.80
4	44.3	44.8	45.34	45.75	45.41	44.93	44.80
5	44.3	44.8	45.36	45.77	45.40	44.90	44.80
6	44.3	44.8	45.40	45.74	45.40	44.90	44.80
7	44.3	44.8	45.43	45.73	45.35	44.90	44.80
8	44.3	44.8	45.45	45.70	45.34	44.89	44.80
9	44.3	44.8	45.48	45.68	45.31	44.88	44.80
10	44.4	44.8	45.51	45.65	45.30	44.87	44.80
11	44.4	44.7	45.53	45.62	45.28	44.86	44.80
12	44.4	44.7	45.55	45.60	45.26	44.85	44.80
13	44.4	44.8	45.63	45.57	45.25	44.85	44.80
14	a 44.4	44.5	44.8	45.58	45.56	45.22	44.85	44.80
15	44.4	44.5	44.8	45.58	45.54	45.21	44.84	44.80
16	44.4	44.5	44.7	45.58	45.53	45.20	44.85	44.81
17	44.4	44.5	44.8	45.60	45.55	45.18	44.8	44.82
18	44.4	44.5	44.9	45.62	45.55	45.17	44.82	44.83
19	44.4	44.5	44.9	45.66	45.52	45.15	44.82	44.82
20	44.4	44.5	44.9	45.69	45.49	45.13	44.82	44.82
21	44.4	44.5	44.9	45.72	45.48	45.10	44.83	44.82
22	44.4	44.5	44.9	45.74	45.46	45.10	44.83	44.81
23	44.4	44.6	45.0	45.78	45.47	45.08	44.81	44.82
24	44.4	44.6	45.0	45.79	45.47	45.07	44.80	44.82
25	44.03	44.4	44.6	45.0	45.80	45.49	45.05	44.81	44.82
26	44.4	44.6	45.1	45.83	45.49	45.03	44.81	44.82
27	44.4	44.6	45.1	45.82	45.45	45.03	44.82	44.82
28	44.4	44.7	44.1	45.81	45.44	45.02	44.81	44.83
29	44.4	44.7	45.1	45.80	45.43	45.00	44.81	44.84
30	44.4	44.7	45.1	45.80	45.42	45.00	44.81	44.86
31	44.4	45.2	45.2	45.79	44.98			44.86

a Because of two changes in pen setting by observer, record between May 14 and Aug. 4 may be in error by as much as 0.25 foot.

B-3-57-7cbc (*1027, p. 23). Fred Kimball, Sr. Water levels, in feet below land-surface datum, 1946: Apr. 24, 47.04; Oct. 28, 48.25.

B-3-57-30bbc (*1027, p. 23). Hanna & Schillereff. Water levels, in feet below land-surface datum, 1946: Apr. 24, 12.19; Oct. 28, 14.91.

B-3-58-8bcc (*1027, p. 23). H. W. Clatworthy. Water levels, in feet below land-surface datum, 1946: Apr. 24, 51.99; Oct. 28, 51.69.

B-3-58-11bb (*1027, p. 23). Alix Stark. Water levels, in feet below land-surface datum, 1946: Apr. 24, 53.78; Oct. 28, 57.29.

B-3-60-3ccc (*1027, p. 24). Laura E. Harshman Estate. Water level, in feet below land-surface datum, 1946: Oct. 28, 61.90.

B-3-60-22ccc (*1027, p. 24). B. A. Holden. Water level, in feet below land-surface datum, 1946: Oct. 28, 55.93.

B-3-60-23cd. Kroh Bros. $SW\frac{1}{4}SW\frac{1}{4}$ sec. 23, T. 3 N., R. 60 W. Irrigation well, diameter 18 inches, depth 165 feet. Measuring point, pump base, 1.2 feet above land-surface datum. Equipped with turbine pump. Water level, in feet below land-surface datum, 1946: Oct. 30, 55.22.

B-3-60-32cba (*1027, p. 24). S. F. Danesthrop. Water levels, in feet below land-surface datum, 1946: Apr. 24, 41.49; Oct. 28, 41.76.

B-4-55-4db (*1027, p. 24). F. DeBacker. Water levels, in feet below land-surface datum, 1946: Apr. 25, 11.24; Oct. 29, 11.07.

B-4-55-9dcc (*1027, p. 24). E. C. Blauer. Water levels, in feet below land-surface datum, 1946: Apr. 25, 16.23; Oct. 29, 16.60.

B-4-55-18ccd (*1027, p. 25). Baumgardner. Water levels, in feet below land-surface datum, 1946: Apr. 25, 20.41; Oct. 29, 20.17.

P-4-56-23dc (*1027, p. 25). Hansen Bros. Water levels, in feet below land-surface datum, 1946: Apr. 25, 20.57; Oct. 29, 19.50.

B-4-60-34cc (*1027, p. 25). M. D. Harshman. No measurements made in 1946.

B-4-60-34dcc. H. E. Brubaker. $SW\frac{1}{4}SE\frac{1}{4}$ sec. 34, T. 4 N., R. 60 W. Irrigation well, diameter 18 inches, depth unknown. Measuring point, base of pump, 0.6 foot above land-surface datum. Water levels, in feet below land-surface datum, 1946: Apr. 26, 67.16; Oct. 28, 71.13.

B-5-55-35ddc (*1027, p. 25). John Pabst. Water levels, in feet below land-surface datum, 1946: Apr. 25, 19.44; Oct. 29, 18.74.

Otero County

C-22-58-21bd (*1027, p. 26). C. Meyer. Water level, in feet below land-surface datum, 1946: Dec. 4, 31.62.

C-22-59-16dca (*1027, p. 26). C. J. Stauder. Water levels, in feet below land-surface datum, 1946: Apr. 2, 20.93; Dec. 4, 20.21.

C-22-59-17bd (*1027, p. 26). W. H. Sauer. Water levels, in feet below land-surface datum, 1946: Apr. 2, 14.38; Dec. 5, 13.70.

C-22-59-17ccc (*1027, p. 26). M. Simpson. Water levels, in feet below land-surface datum, 1946: Apr. 2, 19.40; Dec. 5, 19.08.

C-22-59-18ccc (*1027, p. 26). M. C. Kesterson. Water levels, in feet below land-surface datum, 1946: Apr. 2, 20.62; Dec. 5, 20.70.

C-22-59-24bc (*1027, p. 27). H. I. Barnard. Water level, in feet below land-surface datum, 1946: Dec. 4, 19.17.

C-22-59-28cbb (*1027, p. 27). M. Madson. Water levels, in feet below land-surface datum, 1946: Apr. 2, 11.32; Dec. 5, 12.38.

C-23-57-3bc (*1027, p. 27). H. L. Garber. Water levels, in feet below land-surface datum, 1946: Apr. 1, 22.9; Dec. 4, 22.3.

C-23-57-12daa (*1027, p. 27). American Crystal Sugar Co. Water levels, in feet below land-surface datum, 1946: Apr. 2, 9.92; Dec. 4, 8.87.

C-23-57-32bdb (*1027, p. 27). J. C. Vroman. Water levels, in feet below land-surface datum, 1946: Apr. 1, 11.12; Dec. 4, 11.80.

Pitkin County

C-8-88-27bc (*948, p. 8; 990, p. 7; 1020, p. 5; 1027, p. 27). R. O. Sewell.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	(a)	Apr. 17	26.51	July 24	17.20	Nov. 20	24.83
Feb. 25	(a)	June 3	14.17	Sept. 3	20.47	Dec. 26	26.14
Mar. 16	29.55	28	15.66	Oct. 8	26.92		

a Dry at 37 feet.

Pueblo County

C-20-63-34bcd (*1027, p. 28). Excelsior Ranch. Water level, in feet below land-surface datum, 1946: Dec. 4, 11.09.

C-20-65-33aa (*948, p. 8; 990, p. 7; 1020, p. 5; 1027, p. 28). C. M. Ellsworth heirs.

Water level, in feet below land-surface datum, 1946							
Jan. 25	11.40	Mar. 25	11.70	May 14	10.88	June 25	10.76
Feb. 26	11.60	Apr. 25	11.08	25	10.91	July 25	10.70

C-21-61-23bbb (*1027, p. 28). Frank Trebis. Water levels, in feet below land-surface datum, 1946: Apr. 1, 15.65; Dec. 4, 15.03.

C-21-61-23db (*1027, p. 28). Ralph Wright. Water levels, in feet below land-surface datum, 1946: Apr. 1, 14.32; Dec. 4, 11.71.

C-21-62-9cd1 (*1027, p. 28). Bert Potestio. Water level, in feet below land-surface datum, 1946: Apr. 2, 17.8.

C-21-62-9cd2. Bert Potestio. S $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 9, T. 21 S., R. 62 W. Irrigation well, diameter and depth unknown. Measuring point, top of concrete pump foundation, 1.2 feet above land-surface datum. Equipped with turbine pump. Water level, in feet below land-surface datum, 1946: Dec. 5, 17.22.

C-21-63-2cab (*1027, p. 29). Floyd Hunsacker. Measurements discontinued.

C-21-63-8ca (*1027, p. 29). J. T. McCorkle. Water levels, in feet below land-surface datum, 1946: Apr. 2, 31.53; Dec. 5, 31.65.

C-21-63-11cdc (*1027, p. 29). C. A. Wilcox. Water levels, in feet below land-surface datum, 1946: Apr. 2, 20.57; Dec. 5, 21.38.

C-21-64-3dbd (*1027, p. 29). Joe Thomas. Water level, in feet below land-surface datum, 1946: Dec. 5, 18.74.

C-21-64-10bbc (*1027, p. 29). Tony Morrello. Water levels, in feet below land-surface datum, 1946: Apr. 2, 11.74; Dec. 5, 12.41.

Washington County

B-5-54-20bcc (*1027, p. 29). A. Segeart. Water levels, in feet below land-surface datum, 1946: Apr. 25, 15.56; Oct. 29, 15.88.

Weld County

B-1-63-2ccc (*1027, p. 30). R. Ogi.

Lowest daily water level, in feet below land-surface datum, 1946												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	62.00	.....	61.20	61.30	62.70	63.59	65.15	66.34	67.29	.....	65.20	.....
2	62.00	.....	61.16	61.40	62.70	63.56	65.29	66.47	67.17	.....	65.16	.....

B-1-63-2ccc--Continued.

Lowest daily water level, in feet below land-surface datum, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
3	61.97	.....	61.16	.....	62.69	63.52	65.41	66.58	67.09	.....	65.15	.....
4	61.94	.....	61.17	.....	62.58	63.63	65.56	66.61	.....	.....	65.11	64.23
5	61.95	.....	61.10	61.65	62.74	63.62	65.62	66.61	.....	.....	65.08	64.20
6	61.97	.....	61.10	61.57	62.85	63.63	.....	66.78	.....	.....	65.05	64.14
7	.....	61.50	61.19	61.63	.....	63.81	.....	66.90	.....	.....	65.01	64.13
8	.....	61.50	61.10	61.50	.....	64.01	65.47	66.95	.....	66.01	.....	64.10
9	.....	61.46	61.12	61.43	.....	64.10	65.62	67.05	.....	66.00	.....	64.09
10	.....	61.40	61.05	61.53	.....	64.22	65.73	67.10	66.94	65.95	.....	64.05
11	.....	61.38	61.00	61.54	.....	64.33	65.88	67.14	66.91	65.92	.....	64.01
12	.....	61.39	61.00	61.55	62.9	64.36	66.00	67.26	.....	65.87	.....	64.00
13	61.74	61.39	61.00	61.57	62.9	64.38	66.10	67.36	.....	65.83	.....	63.97
14	61.80	61.36	61.02	61.62	.....	64.50	66.13	67.33	.....	65.80	.....	63.94
15	61.79	61.30	61.03	61.58	.....	64.67	66.11	67.33	.....	65.77	64.75	63.91
16	61.80	61.37	61.05	61.67	63.21	64.74	66.00	67.31	.....	65.75	64.75	63.91
17	61.79	61.30	61.05	61.69	63.14	64.80	65.95	67.30	.....	65.70	64.74	63.90
18	61.71	61.30	61.00	61.71	63.10	64.83	65.90	67.27	.....	65.68	64.69	63.85
19	61.72	61.30	60.93	61.81	63.06	64.80	65.81	67.29	.....	65.64	64.64	63.80
20	61.70	61.25	60.94	62.05	62.93	64.73	65.70	67.37	.....	65.60	64.62	.....
21	61.70	61.26	60.92	62.00	62.95	64.72	65.60	67.48	.....	65.55	64.62	.....
22	61.64	61.26	60.90	62.00	63.09	64.71	65.49	67.56	.....	65.51	64.58	.....
23	61.70	61.26	60.90	62.30	63.19	64.64	65.55	67.59	.....	65.50	64.54	.....
24	61.62	61.22	60.92	62.27	63.14	64.76	65.50	67.59	.....	65.48	64.51	.....
25	61.68	61.20	60.91	62.21	63.05	64.80	65.67	67.59	.....	65.43	64.48	.....
26	61.67	61.20	60.89	62.16	63.00	64.96	65.80	67.51	.....	65.39	.....	.....
27	61.62	61.19	60.81	62.02	63.10	64.96	65.92	67.47	66.44	65.36	.....	.....
28	61.50	61.20	60.87	61.90	63.38	65.03	66.00	67.40	.....	65.30	.....	.....
29	.....	.....	60.87	62.21	63.41	65.10	66.08	67.32	.....	65.29	.....	.....
30	.....	.....	60.87	62.54	63.47	65.12	66.16	67.33	.....	65.27	.....	.....
31	.....	.....	61.10	.....	63.50	.....	66.21	67.33	.....	65.24	.....	.....

B-1-63-2dde (*1027, p. 31). Rider. Water levels, in feet below land-surface datum, 1946: Apr. 24, 46.15; Oct. 30, 44.20.

B-1-63-3ccc (*1027, p. 31). John Baumgardner. Water levels, in feet below land-surface datum, 1946: May 16, 53.41; Oct. 30, 56.41.

B-1-63-9dd (*1027, p. 31). Shaklee. Water level, in feet below land-surface datum, 1946: Oct. 30, 59.31.

B-1-63-10cdd (*1027, p. 31). L. H. Alden. Water levels, in feet below land-surface datum, 1946: Apr. 24, 62.08; Oct. 30, 64.40.

B-1-63-15dc (*1027, p. 32). F. C. Kluver. Water level, in feet below land-surface datum, 1946: Oct. 30, 90.48.

B-1-63-22ddc (*1027, p. 32). J. J. Suppes. Water level, in feet below land-surface datum, 1946: Oct. 30, 90.95.

B-1-63-27dc (*1027, p. 32). Wm. Vogt. Water levels, in feet below land-surface datum, 1946: Apr. 24, 99.22; Oct. 30, 99.50.

B-1-63-28abb (*1027, p. 32). Hudson Gardens Co. Water levels, in feet below land-surface datum, 1946: Apr. 24, 78.82; Oct. 30, 84.41.

B-1-64-18bbd (*1027, p. 32). Joe DeBell. Water levels, in feet below land-surface datum, 1946: Apr. 23, 13.74; Oct. 31, 15.94.

B-1-65-12ccc (*1027, p. 32). Joe Wertz. Water levels, in feet below land-surface datum, 1946: Apr. 23, 15.86; Oct. 31, 17.95.

B-1-65-24cdc (*1027, p. 33). Joe Wertz. Water levels, in feet below land-surface datum, 1946: Apr. 23, 16.24; Oct. 31, 16.47.

B-1-65-25cd (*1027, p. 33). Fred Haffner, Sr. Water levels, in feet below land-surface datum, 1946: Apr. 23, 32.36; Oct. 31, 33.41.

B-1-66-7dd (*1027, p. 33). W. A. Wallace. Water levels, in feet below land-surface datum, 1946: Apr. 23, 22.00; Oct. 31, 18.56.

B-1-66-30ad (*1027, p. 33). G. J. Mancini. Water levels, in feet below land-surface datum, 1946: Apr. 23, 17.92; Oct. 31, 14.64.

B-1-66-31dd (*1027, p. 33). Carl Caranci. Water levels, in feet below land-surface datum, 1946: Apr. 23, 19.35; Oct. 31, 19.13.

B-2-62-18cbc (*1027, p. 34). Mrs. Sadie Knox. Water levels, in feet below land-surface datum, 1946: Apr. 23, 25.06; Oct. 31, 24.40.

B-2-62-19cdc (*1027, p. 34). M. C. Klausner. Water levels, in feet below land-surface datum, 1946: Apr. 23, 36.03; Oct. 31, 36.16.

B-2-63-15dd (*1027, p. 34). Mrs. Sadie Knox. Water levels, in feet below land-surface datum, 1946: Apr. 23, 22.80; Oct. 31, 23.00.

B-2-63-22cc (*1027, p. 35). W. M. Huff. Water level, in feet below land-surface datum, 1946: Oct. 31, 37.51.

B-2-63-22dc (*1027, p. 35). Zimbleman Bros. Water levels, in feet below land-surface datum, 1946: Apr. 23, 39.65; Oct. 31, 41.16.

B-2-63-23acc (*1027, p. 35). Ed Weickum. Water level, in feet below land-surface datum, 1946: Oct. 31, 49.72.

B-2-63-25dcc (*1027, p. 35). Herman Sheid. Measurements discontinued.

B-2-63-28ddd (*1027, p. 35). C. V. Maddux. Water level, in feet below land-surface datum, 1946: Oct. 31, 44.73.

B-2-63-32aa (*1027, p. 36). H. Young. Water levels, in feet below land-surface datum, 1946: Apr. 24, 31.38; Oct. 31, 31.84.

B-2-63-34ccc (*1027, p. 36). R. L. Martin. Water levels, in feet below land-surface datum, 1946: May 16, 58.30; Oct. 30, 60.75.

B-2-63-35dcc (*1027, p. 36). Wm. A. Carlson. Water levels, in feet below land-surface datum, 1946: Apr. 23, 48.94; Oct. 31, 50.74.

B-2-63-36bcb (*1027, p. 36). Martin Sheid. Water levels, in feet below land-surface datum, 1946: Apr. 23, 50.50; Oct. 31, 50.50.

B-2-64-30cbc (*1027, p. 37). Floyd Schroeder. Water levels, in feet below land-surface datum, 1946: Apr. 23, 10.70; Oct. 31, 11.24.

B-2-66-7ddd (*1027, p. 37). A. L. Johnson. Water levels, in feet below land-surface datum, 1946: Apr. 22, 14.12; Nov. 1, 10.98.

B-2-66-20bc (*1027, p. 37). E. F. Krause. Water levels, in feet below land-surface datum, 1946: Apr. 22, 14.96; Nov. 1, 12.90.

B-2-66-29cc (*1027, p. 37). S. J. Rhode. Water levels, in feet below land-surface datum, 1946: Apr. 22, 20.59; Nov. 1, 17.79.

B-3-64-17cc (*1027, p. 38). E. D. Seldin. Water levels, in feet below land-surface datum, 1946: Apr. 23, 6.00; Oct. 8, 8.64.

B-3-64-30ccc (*1027, p. 38). Mrs. Maud C. Hanson. Water levels, in feet below land-surface datum, 1946: Apr. 23, 11.00; Oct. 31, 11.54.

B-3-66-7bdd (*1027, p. 38). F. Salmanca. Water levels, in feet below land-surface datum, 1946: Apr. 22, 16.37; Nov. 1, 14.04.

B-4-64-1ccc (*1027, p. 38). Mrs. Alice St. John. Water levels, in feet below land-surface datum, 1946: Apr. 26, 8.69; Oct. 28, 8.75.

B-4-64-10ddd (*1027, p. 38). F. L. Chestnut. Water levels, in feet below land-surface datum, 1946: Apr. 26, 8.22; Oct. 28, 7.63.

P-4-64-12cc (*1027, p. 38). H. Duell. Water levels, in feet below land-surface datum, 1946: Apr. 26, 14.68; Oct. 28, 14.81.

P-4-65-6da (*1027, p. 39). C. E. Goodner. Water levels, in feet below land-surface datum, 1946: Apr. 22, 13.80; Nov. 1, 10.03.

P-4-65-18daa (*1027, p. 39). Root Bros. Water levels, in feet below land-surface datum, 1946: Apr. 22, 9.72; Nov. 1, 9.74.

B-4-66-9cdd (*1027, p. 39). E. S. Linden. Water levels, in feet below land-surface datum, 1946: Apr. 22, 25.62; Nov. 1, 22.36.

B-4-66-9cdc (*1027, p. 39). E. S. Linden. Water levels, in feet below land-surface datum, 1946: Apr. 22, 24.32; Nov. 1, 21.16.

B-4-66-13dd (*1027, p. 39). Paul Jewel. Water levels, in feet below land-surface datum, 1946: Apr. 22, 16.20; Nov. 1, 15.86.

B-4-66-14bab (*1027, p. 40). W. H. Ewing. Water levels, in feet below land-surface datum, 1946: Apr. 22, 19.28; Nov. 1, 17.69.

B-4-66-15ccc (*1027, p. 40). H. G. Martin. Water levels, in feet below land-surface datum, 1946: Apr. 22, 26.52; Nov. 1, 23.26.

B-4-66-15ddd (*1027, p. 40). M. L. Winslow.

Lowest daily water level, in feet below land-surface datum, 1946											
Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	8.99	.....	.....	10.13	9.97	9.50	9.45	8.58	8.67	....
2	.....	9.01	.....	.....	10.09	10.00	9.46	9.37	8.58	8.69	....
3	.....	9.03	.....	.....	10.04	10.07	9.44	9.31	8.58	8.69	....
4	.....	9.06	.....	.....	10.07	10.08	9.41	9.26	8.57	8.70	....
5	.....	9.09	.....	.....	10.09	10.13	9.33	9.23	8.57	8.72	....
6	.....	9.10	.....	.....	10.22	10.20	9.33	9.20	8.56	8.74	....
7	8.33	.....	.....	.....	10.27	10.20	9.36	9.20	8.54	8.76	....
8	8.38	.....	.....	.....	.....	10.19	9.39	9.20	8.51	8.79	....
9	8.41	.....	.....	.....	.....	10.17	9.49	....	8.49	8.80	....
10	8.43	.....	.....	.....	.....	.....	9.52	....	8.48	8.81	....
11	8.46	.....	.....	.....	.....	.....	9.57	....	....	8.82	....
12	8.50	9.33	.....	.....	.....	.....	9.59	....	....	....	9.41
13	8.52	.....	.....	.....	.....	10.44	9.63	....	....	....	9.41
14	8.55	.....	.....	10.70	.....	10.44	9.70	....	....	....	9.43
15	8.58	.....	.....	10.70	.....	10.42	9.70	....	....	....	9.44
16	8.61	.....	.....	10.69	.....	10.32	9.70	....	....	....	9.46
17	8.63	.....	.....	10.67	.....	10.25	9.71	8.89	....	....	9.50
18	8.67	.....	.....	10.63	.....	10.24	9.74	8.89	....	....	9.50
19	8.71	.....	.....	10.60	.....	10.23	9.79	8.89	....	....	9.52
20	8.73	.....	.....	10.58	.....	10.11	9.84	8.86	....	....	9.54
21	8.76	.....	.....	10.55	.....	10.02	9.90	8.84	....	....	9.57
22	8.79	.....	10.24	10.53	.....	9.93	9.92	8.81	....	....	9.58
23	8.81	.....	10.28	10.51	.....	9.90	9.92	8.78	....	....	9.59
24	8.83	.....	10.30	10.50	.....	9.90	....	8.74	....	....	....
25	8.87	.....	10.37	10.48	.....	.....	....	8.72	....	....	....
26	8.90	.....	10.49	.....	.....	.....	....	8.70	....	....	....
27	8.93	.....	.....	.....	.....	.....	....	8.67	....	....	....
28	8.96	9.73	.....	.....	9.89	.....	9.69	8.65	....	....	....
29	.....	.....	.....	.....	9.92	.....	9.66	8.62	....	....	....
30	.....	.....	.....	10.20	9.93	9.56	9.60	8.60	....	....	....
31	.....	.....	.....	10.17	.....	9.55	9.51	....	....	....	....

B-4-66-17bcc (*1027, p. 43). R. C. Patrie. Water levels, in feet below land-surface datum, 1946: Apr. 22, 7.58; Nov. 1, 7.20.

B-4-66-19ddd (*1027, p. 43). J. C. Breckon. Water levels, in feet below land-surface datum, 1946: Apr. 22, 20.01; Nov. 1, 17.41.

B-4-66-27add (*1027, p. 43). John O. Lorenz. Water levels, in feet below land-surface datum, 1946: Apr. 22, 6.02; Nov. 1, 4.89.

B-4-66-28cc (*1027, p. 43). Elbert Cogburn. Water levels, in feet below land-surface datum, 1946: Apr. 22, 21.62; Nov. 1, 20.10.

B-4-66-31dcc (*1027, p. 43). W. D. Farr. Water levels, in feet below land-surface datum, 1946: Apr. 22, 19.11; Nov. 1, 17.22.

B-4-67-13cd (*1027, p. 43). E. H. Sappington. Water levels, in feet below land-surface datum, 1946: Apr. 22, 10.07; Nov. 1, 7.23.

B-5-64-35ddd (*1027, p. 43). P. Hoshiko. Water levels, in feet below land-surface datum, 1946: Apr. 26, 7.85; Oct. 28, 7.45.

B-5-65-13ddc (*1027, p. 44). F. A. Plumb. Water levels, in feet below land-surface datum, 1946: Apr. 22, 17.23; Nov. 1, 11.04.

B-5-65-26bcc (*1027, p. 44). Geo. Alles, Sr. Water levels, in feet below land-surface datum, 1946: Apr. 22, 10.17; Nov. 1, 7.10.

B-5-65-27ccb (*1027, p. 44). Henry A. Alles. Water levels, in feet below land-surface datum, 1946: Apr. 22, 14.09; Nov. 1, 11.46.

B-6-63-29bbb (*1027, p. 44). H. L. Wells. Water level, in feet below land-surface datum, 1946: Oct. 28, 11.93.

B-6-64-24aaa (*1027, p. 45). M. R. Leaver. Water levels, in feet below land-surface datum, 1946: Apr. 26, 9.50; Oct. 28, 9.60.

B-6-64-26da (*1027, p. 45). Asa Jones. Water level, in feet below land-surface datum, 1946: Oct. 28, 8.74.

B-6-64-30bba (*1027, p. 45). M. O. Patten. Water levels, in feet below land-surface datum, 1946: Apr. 26, 14.04; Oct. 28, 13.89.

B-6-64-32bab (*1027, p. 45). Chas. Moore. Water level, in feet below land-surface datum, 1946: Oct. 28, 24.64.

B-6-65-3bb (*1027, p. 45). T. H. Wilson. Water level, in feet below land-surface datum, 1946: Apr. 29, 8.34.

B-6-65-10bbb (*1027, p. 45). L. C. Roberts. No measurements made in 1946.

B-6-65-15bbb (*1027, p. 46). H. N. Huff. No measurements made in 1946.

B-6-65-17bbc (*1027, p. 46). H. W. Farr. Water level, in feet below land-surface datum, 1946: Dec. 12, 26.17.

B-6-65-18bbb (*1027, p. 46). James Milne. Water levels, in feet below land-surface datum, 1946: Apr. 26, 25.50; Dec. 12, 26.78.

B-6-65-21aab (*1027, p. 46). H. N. Bickling. Water levels, in feet below land-surface datum, 1946: Apr. 26, 10.15; Dec. 12, 10.07.

B-6-65-34bb (*1027, p. 47). Ildo Williams. Water levels, in feet below land-surface datum, 1946: Apr. 26, 12.79; Dec. 12, 12.80.

B-6-66-1bab (*1027, p. 47). Gust Johnson. Water levels, in feet below land-surface datum, 1946: Apr. 29, 26.14; Dec. 9, 27.58.

B-6-66-20ccd (*1027, p. 47). J. K. Emerson. Water level, in feet below land-surface datum, 1946: Oct. 28, 13.60.

B-6-67-12bb (*1027, p. 47). Chris Felte. Water level, in feet below land-surface datum, 1946: Oct. 28, 9.62.

B-6-67-17dc (*1027, p. 48). Henry Kraus. Water level, in feet below land-surface datum, 1946: Oct. 28, 6.75.

B-6-67-22aaa (*1027, p. 48). F. A. Davis. Water levels, in feet below land-surface datum, 1946: Apr. 26, 7.24; Oct. 28, 7.94.

B-7-65-7bcc (*1027, p. 48). A. B. Stewart. No measurements made in 1946.

B-7-65-10bcc (*1027, p. 48). M. H. Graham. No measurements made in 1946.

B-7-65-16bbb (*1027, p. 48). K. Akahoshi. Water level, in feet below land-surface datum, 1946: Apr. 29, 7.42.

B-7-65-18cdb (*1027, p. 48). Harry Clark. Water level, in feet below land-surface datum, 1946: Apr. 29, 22.86.

B-7-65-21aaa (*1027, p. 49). H. G. Liebhardt. No measurements made in 1946.

B-7-65-28aa (*1027, p. 49). R. F. Blandon. No measurements made in 1946.

B-7-65-30bbb (*1027, p. 49). J. L. Nix. Water level, in feet below land-surface datum, 1946: Apr. 29, 15.52.

B-7-65-31ca (*1027, p. 49). G. H. Groves. Measurements discontinued.

B-7-66-1ab (*1027, p. 49). C. A. Pettibone. No measurements made in 1946.

B-7-66-2abb (*1027, p. 50). L. Fletcher. No measurements made in 1946.

B-7-66-14aba (*1027, p. 50). A. A. Larson. Water levels, in feet below land-surface datum, 1946: Apr. 29, 16.75; Dec. 9, 15.98.

B-7-66-14bcc (*1027, p. 50). Mrs. Alice Ehn. Water level, in feet below land-surface datum, 1946: Dec. 9, 16.38.

B-7-66-25bcc (*1027, p. 51). Guy Clark. Water level, in feet below land-surface datum, 1946: Dec. 9, 29.72.

B-8-65-8bbb (*1027, p. 51). Y. L. Kramer. Water level, in feet below land-surface datum, 1946: Apr. 29, 18.98.

B-8-65-20dbb (*1027, p. 51). Ed Vadeburg. No measurements made in 1946.

B-8-65-28bbb (*1027, p. 51). W. T. Miller. No measurements made in 1946.

B-8-65-28dbb (*1027, p. 51). A. C. Babb. No measurements made in 1946.

B-8-65-34abb (*1027, p. 52). J. F. Duncan. Measuring point beginning Apr. 29, 1946, top of wood cover, 0.55 foot above land-surface datum, 0.55 foot above old measuring point. Water level, in feet below land-surface datum, 1946: Apr. 29, 5.74.

B-8-65-34dcc (*1027, p. 52). A. B. McClaye. Water level, in feet below land-surface datum, 1946: Apr. 29, 7.50.

B-8-66-1bab (*1027, p. 52). Herman Babb. Water level, in feet below land-surface datum, 1946: Apr. 29, 19.42.

B-8-66-22aaa (*1027, p. 53). Troy Jones. Water level, in feet below land-surface datum, 1946: Apr. 29, 18.11. Pumped prior to the measurement.

B-8-66-26cbb1 (*1027, p. 53). C. Fisk. Measurements discontinued.

B-9-65-18cbb (*1027, p. 53). U. S. Dept. of Agriculture. Water level, in feet below land-surface datum, 1946: Apr. 29, 20.57.

B-10-66-12dd (*1027, p. 53). U. S. Dept. of Agriculture. Water level, in feet below land-surface datum, 1946: Apr. 29, 23.64.

B-10-66-22ccc (*1027, p. 53). U. S. Dept. of Agriculture. Water level, in feet below land-surface datum, 1946: Apr. 29, 44.36.

IDAHO

SOUTHERN IDAHO

By R. L. Nace

PROGRAM OF WORK

A systematic investigation of the ground-water resources of Idaho was begun on July 30, 1946, in cooperation with the Idaho Department of Reclamation. In addition to inventories and special areal studies of geology and ground-water resources, the program of investigations includes the development of a State-wide network of selected wells to be used for observations of fluctuations in water levels and artesian pressures. Records of seasonal fluctuations of water levels in about 200 farm, domestic, and irrigation wells in Ada and Canyon Counties have been maintained by the Nampa-Meridian Irrigation District since 1912, and have been made available to the Geological Survey. Supplementary field study of many of these wells has been made by the Geological Survey; a few of them have been incorporated in the State-wide observation-well network, and the long-term water-level records are published for the first time in this report.

The observation-well measurements in Rathdrum Prairie, Kootenai County, were continued in 1946 by the Geological Survey and the Washington Water Power Company. Seasonal measurements in observation wells in Oneida County were continued by the Geological Survey. The State network of observation wells was somewhat enlarged and at the end of the year included wells in the seven counties of Ada, Boise, Bonneville, Canyon, Cassia, Kootenai, and Oneida.

FLUCTUATIONS OF WATER LEVEL

In northern Idaho the observation wells indicate a moderate average net rise of about 5 feet in the water table, representing an increase in underground storage. Precipitation in the area was substantially less than in 1945, but was nevertheless nearly 10 percent above normal. The

rise in water levels probably is a cumulative result of 2 years of above-normal precipitation.

Water-table wells in southwestern Idaho show small net rises of from 0.5 foot to 1.9 feet despite generally large deficiencies in precipitation. In the irrigated area in which most of the wells occur, however, considerable recharge of ground water results from deep percolation losses of irrigation water. Water levels in the wells are influenced also by the efficiency of drainage ditches and shallow drainage wells. The effects of climate and precipitation are largely if not wholly masked by those of irrigation and drainage. A similar interpretation may be applied to the water-level records from the single observation well in Bonneville County, eastern Idaho.

In 23 representative wells in Oneida County, southeastern Idaho, both flowing and nonflowing wells show small net declines of water level during the year. Precipitation in the area was about 3.5 percent above normal, but about 24 percent less than in 1945. The decrease in precipitation and a slight increase in withdrawal of ground water by pumpage probably account for the lowered water levels. Variations in the net changes in individual wells in the Malad Valley area are probably local effects of pumpage and discharge by flowing wells. Available records do not indicate any significant lowering of water levels or artesian pressure in the Malad Valley. All but three of the wells are well above their lowest levels of record.

Water-level fluctuations during 1946 in 36 observation wells with 4 or more years of record are summarized in the following tables.

Comparison of net changes in water level in observation wells in Idaho with precipitation, 1946

County and well No.	Net changes in year (feet)	Departure from average b/ (feet)	Precipitation, in inches, at nearest U. S. Weather Bureau Station			
			Station	Total precipitation	Departure from normal	Net departure from 1945 total
Ada:						
4N 1W-36dal	+0.7	+4.1	Meridian	8.74	-2.94	-5.67
3N 1W-1ec1	+6	+2.4				
10cc1	+9	+1.4				
3N 1E-4ba1	+1.7	+5.5	Boise (airport)	9.86	-3.24	-3.58
5aa1	+1.9	+5.0				
11bb1	+9	+3.1				
Boise:						
7N 2E-34ca1	+5	+8	Emmett	11.68	+23	-3.31
Bonneville:						
3N 41E-6cb1	+2.1	-3.0	Idaho Falls (airport)	7.58	-4.03	-.95
Canyon:						
3N 2W-23dc1	+8		Nampa	5.82	-4.03	-5.13
Cassia:						
16S 27E-35ab1	-6.1	-6.1	Strevell	12.32	.....	-3.75
Kootenai:						
53N 4W-24bb1	+5.5	+2.0	Coeur D' Alene	26.67	+2.32	-4.42
51N 5W-33bb1	+4.7	+4.2				
50N 5W-1aa1	+4.5	+5.2				
Oneida:						
14S 35E-10ab1	+2	+4				
13db1	-3.7	-4.1				
27aa1	-1.1	-2.8				
35bd1	a -.5	-.3				
36bc1	-2.3	-1.7				
14S 36E-3ca1	+3	+1.5				
29ba1	.0 [±]	-1.4				
32aa1	a -.9	+8				
15S 35E-1db1	a -.7	-.8				
12ab2	a -.7	-.5	Malad	15.53	+52	-4.95
12bb1	a -.6	-.9				
14ad1	a +2	+1.7				
15S 36E-6ac2	a-3.1	-.5				
6ba1	a -.5	-1.0				
8aa1	a-2.1	+2.2				
8aa5	a-9.3	+1.5				
10ad1	a +1	+4				
27cc1	a +2	+5				
29ca2	a-1.3	+6				
30ab1	a .0 [±]	-.1				
30ab2	a+1.6	-.6				
30ac2	a +.4	+1.0				
30ac3	a -.8	-.9				
Average in Oneida						
County:						
Nonflowing wells	-1.6	-1.9				
Flowing wells	-1.1	+3				

a Flowing artesian wells.

b Nonweighted average of all recorded measurements.

Summary of net changes in water levels, in feet below land-surface datum in observation wells in Idaho, 1946

County and well No.	Length of record (years)	Highest of record		Lowest of record		Extreme observed range for period of record	Year-end water level, 1946			Above lowest level of record in percent of total observed range
		Water level	Date	Water level	Date		Water level	Date	Above (+) or below (-) 1945	
Ada:										
4N 1W-36cal	a25	2.5	10-27-32	23.7	2-9-15	21.2	5.3	12-20	+0.7	96
3N 1W-1cal	b16	7.0	11-3-38	18.7	4-14-15	11.7	8.4	12-20	+6	88
3N 1W-10cal	c28	2.5	10-29-32	11.0	12-13	18.5	3.4	12-20	+9	89
3N 1E-4bal	d18	10.8	11-1-43	27.6	11-28-36	16.8	12.8	12-21	+1.7	88
3N 1E-5aal	14	9.0	11-1-43	21.3	3-23-35	12.3	10.2	12-21	+1.9	90
3N 1E-11bbl	23	6.2	9-14-33	19.9	3-31-24	13.7	8.1	12-25	+9	86
Boise:										
7N 2E-34cal	4	31.6	5-12-43	41.6	8-9-45	10.0	38.9	12-25	+5	27
Donneville:										
3N 41E-6bbl	e 7	34.0	8-19-25	63.4	3-27-43	29.4	51.7	12-28	+2.1	40
Canyon:										
3N 2W-23dcl	f 21	17.3	9-29-21	28.8	11-18-29	11.5	19.3	12-16	+8	83
Cassia:										
1S3 27E-35abl	10	11.7	10-8-41	25.5	8-15-36	13.8	18.3	10-10	-6.1	52
Kootenai:										
53N 4W-24bbl	18	455.5	6-20-34	478.1	1-15-32	22.6	483.7	12-30	+5.5	63
51N 5W-33bbl	19	142.7	5-2-34	166.6	2-11-32	23.9	151.1	12-19	+4.7	65
50N 5W-1aal	18	186.9	8-7-34	212.3	12-8-31	25.4	194.4	12-19	+4.5	70
Oneida:										
14S 35E-10abl	5	117.8	10-23-46	118.8	8-17-44	1.0	117.8	10-23	+2	100
13dbl	4	67.3	2-24-46	76.3	10-21-44	9.0	75.6	10-23	-3.7	19
27aal	4	53.0	5-2-44	58.9	10-23-46	5.9	58.9	10-23	-1.1	0
35bbl	4	29.0	2-25-46	20.7	7-13-43	8.3	24.9	10-23	-5	51
36bcl	4	17.0	3-2-45	19.6	10-23-46	2.6	19.6	10-23	-2.3	0
14S 36E-3cal	6	59.2	10-16-32	72.8	4-12-32	13.6	68.2	10-23	+3	34
29bal	5	23.2	7-20-43	30.8	10-21-44	7.6	25.3	10-23	0±	72
32aal	4	8 7.6	5-2-44	8 9	10-21-44	6.7	8 5.1	10-23	-9	65
15S 35E-1dbl										
12ab2	4	225.9	2-25-46	20.5	7-12-43	5.4	21.6	10-22	-7	20
12bbl	4	223.9	3-1-45	17.0	8-18-44	6.9	18.3	10-22	-7	19
12bbl	4	214.0	2-25-46	8 7	7-13-43	5.3	8 6.8	10-22	-6	21
14aal	4	8 6.4	10-22-46	1.9	5-3-44	4.5	6 6.4	10-22	+2	100

* See footnotes at end of table.

Summary of net changes in water levels, in feet below land-surface datum in observation wells in Idaho, 1946--Cont. 1/

County and well No.	Length of record (years)	Highest of record		Lowest of record		Extreme observed range for period of record	Year-end water level, 1946		Above lowest level of record in percent of total observed range
		Water level	Date	Water level	Date		Water level	Date	
Oneida--Continued:									
153 36E-6ac2	4	g 16.7	2-24-46	g 9.1	9-24-44	7.6	g 12.2	10-22	-3.1
6ba1	4	g 23.1	5- 4-44	g14.8	10-21-44	8.3	g 16.0	10-22	-5
8aa1	4	g 20.0	10-23-45	g11.8	6-29-43	8.2	g 17.9	10-23	-2.1
8aa5	4	g 35.9	10-23-45	g14.9	8-18-44	21.0	g 26.6	10-23	-9.3
10ad1	4	g 15.6	3- 3-45	g 8.5	7-18-43	5.1	g 12.2	10-22	+1.1
273c1	5	g 20.3	7-17-45	g16.4	7-18-43	3.9	g 19.6	10-22	+2.2
29ca2	4	g 12.9	5- 3-44	g 7.0	10-28-43	5.9	g 10.6	10-22	-1.3
			3- 1-45						
30ab1	4	g 14.9	5- 3-44	g12.3	7- 7-43	2.6	g 14.0	10-22	.0 ⁺
30ab2	4	g 12.1	3- 1-45	g10.1	7-17-45	2.0	g 11.7	10-22	+1.6
30ac2	4	g 15.4	3- 1-45	g12.1	7- 6-43	3.3	g 15.4	10-22	+4
			10-22-46						
30ac3	4	g 3.6	3- 1-45	g 2.0	10-22-46	1.6	g 2.0	10-22	-8

1/ Wells with less than 4 years of record not included in table.

a Intermittent record since 1915.

b Intermittent record since 1913.

c Record continuous since 1912, except years 1916-23.

d Record continuous since 1926, except years 1930-32.

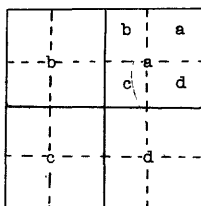
e Record for 1923, 1925, 1942-46.

f Intermittent record since 1921.

g Above land-surface datum.

WELL-NUMBERING SYSTEM

Idaho well numbers indicate the locations of wells within the official rectangular subdivisions of the public lands, with reference to the Boise base line and meridian. The first segment of a number designates the township and range. The second segment gives the section number, followed by two letters and a numeral, which indicate the quarter-section, 40-acre tract, and serial number of the well within the tract. Quarter-sections are lettered a, b, c, and d in counterclockwise order from the northeast quarter of each section, as in the following diagram. Within quarter-sections the 40-acre tracts are lettered in the same manner. Well 7S 2E 34cal is in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 7 S., R. 2 E. Where wells are very closely spaced, the 40-acre tracts may be subdivided into lettered 10-acre tracts, and well numbers will contain a third letter, as 34cabl.



WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Ada County

4N 1W 36dal. Richard Foster. Nampa-Meridian Irrigation District well 119. Drilled and dug domestic well, diameter 3 inches, depth about 184 feet, steel-pipe casing, open end. Measuring point, upper surface of wooden pump platform, 2,582.2 feet above U. S. Bureau of Reclamation datum, and about 0.7 foot above land-surface datum. Seasonal measurements by Nampa-Meridian Irrigation District.

Water level, in feet below land-surface datum, 1915-17, 1925, 1927-46					
Date	Water level	Date	Water level	Date	Water level
Feb. 9, 1915	23.7	Oct. 27, 1932	2.5	Mar. 11, 1940	6.5
Sept. 20	20.3	9, 1933	3.0	Dec. 5	5.1
Apr. 13, 1916	22.9	Mar. 16, 1934	5.3	Mar. 28, 1941	7.3
Nov. 2	18.5	Nov. 15	7.1	Nov. 24, 1941	4.3
Apr. 17, 1917	20.5	Mar. 14, 1935	8.3	Feb. 27, 1942	5.3
Oct. 13	17.2	Nov. 14	6.0	Nov. 2	3.8
10, 1925	5.2	Mar. 13, 1936	6.3	Feb. 25, 1943	4.9
Nov. 17, 1927	6.6	Dec. 11	5.3	Nov. 5	3.0
2, 1928	4.2	Mar. 22, 1937	6.3	Feb. 25, 1944	5.3
15, 1929	3.3	Dec. 21	5.2	Mar. 1, 1945	4.7
May 13, 1930	5.9	Nov. 4, 1938	3.4	Dec. 17,	4.0
Oct. 25	3.6	Mar. 10, 1939	5.3	Mar. 5, 1946	5.3
14, 1931	6.0	Nov. 23	5.5	Dec. 20	3.3

3N 1W 10cl. Jerald Dunten. Nampa-Meridian Irrigation District well 155. Drilled stock and domestic well, diameter 3 inches, depth about 180 feet, steel-pipe casing, open end. Measuring point, top of casing, 2,585.2 feet above U. S. Bureau of Reclamation datum and about 1.0 foot above land-surface datum. Seasonal measurements by Nampa-Meridian Irrigation District.

Water level, in feet below land-surface datum,
1913-16, 1925, 1934-35, 1938-46

Date	Water level	Date	Water level	Date	Water level
Nov. 1913	14.7	Mar. 17, 1934	10.3	Nov. 24, 1941	8.2
Mar. 3, 1914	16.7	Nov. 14	9.1	Feb. 27, 1942	8.9
June 27	13.8	Mar. 14, 1935	11.9	Nov. 2	7.1
Sept. 25	12.5	Nov. 4	9.0	Feb. 25, 1943	8.5
Nov. 18	14.2	Nov. 3, 1938	7.0	Nov. 5	7.1
Feb. 10, 1915	17.2	Mar. 10, 1939	9.8	Feb. 25, 1944	10.0
Apr. 14	18.7	Nov. 23	9.0	28, 1945	9.5
Aug. 19	11.9	Mar. 11, 1940	10.3	Dec. 17	9.0
Apr. 12, 1916	15.6	Dec. 5	9.3	Mar. 4, 1946	9.6
Nov. 2	10.2	Mar. 28, 1941	10.4	Dec. 20	8.4
Oct. 10, 1925	8.1				

3N 1W 10ccl. Arthur Keck. Nampa-Meridian Irrigation District well 131. Dug domestic water-table well, depth about 18 feet. Measuring point, upper surface of wooden pump platform, 0.8 foot west of pump, 2,539.9 feet above U. S. Bureau of Reclamation datum and about at land-surface datum. Seasonal measurements by Nampa-Meridian Irrigation District.

Water level, in feet below land-surface datum, 1912-17, 1924-25, 1927-46

Dec. 1912	6.9	Nov. 2, 1927	3.3	Oct. 31, 1938	3.4
1913	11.0	5, 1928	3.0	Mar. 9, 1939	5.0
Mar. 1914	8.7	19, 1929	3.2	Nov. 23	4.9
June 26,	5.1	May 14, 1930	3.0	Mar. 11, 1940	5.3
Sept. 26	4.8	Oct. 27	3.0	Dec. 5	4.9
Nov. 13	5.7	19, 1931	5.0	Mar. 28, 1941	5.6
Apr. 15, 1915	8.0	29, 1932	2.5	Oct. 31	3.5
Aug. 16	3.8	10, 1933	3.2	Feb. 26, 1942	4.1
Apr. 10, 1916	5.0	Mar. 17, 1934	5.2	Nov. 2	3.6
July 26	2.3	Nov. 15	4.4	Feb. 24, 1943	4.0
Oct. 31	5.9	Mar. 15, 1935	4.4	Nov. 5	3.2
Apr. 18, 1917	9.2	Nov. 2	4.5	Feb. 24, 1944	4.4
Aug. 17	5.3	Mar. 11, 1936	4.5	28, 1945	4.3
Oct. 16	5.8	Dec. 11	4.1	Dec. 15	4.3
Apr. 28, 1924	5.3	Mar. 19, 1937	4.7	Mar. 2, 1946	4.1
Oct. 13, 1925	3.9	Dec. 17	4.0	Dec. 20	3.4

3N 1E 4bal. Ellen F. Beebe. Nampa-Meridian Irrigation District well 61. Dug domestic water-table well, diameter 36 inches, depth about 50 feet, concrete casing, open end. Measuring point, upper surface of concrete well curb at west side, 2,626.7 feet above U. S. Bureau of Reclamation datum, and about 0.2 foot above land-surface datum. Seasonal measurements by Nampa-Meridian Irrigation District.

Water level, in feet below land-surface datum, 1926-29, 1933-46

Nov. 26, 1926	27.6	Dec. 16	17.3	Mar. 2, 1942	18.9
Oct. 31, 1927	20.7	Nov. 20, 1937	21.8	Nov. 5	13.5
Nov. 3, 1928	17.8	Dec. 30	20.5	Feb. 26, 1943	17.5
13, 1929	17.6	Nov. 8, 1938	13.8	Nov. 1	10.8
Sept. 13, 1933	14.0	Mar. 12, 1939	19.8	Feb. 28, 1944	17.4
Mar. 19, 1934	20.7	Nov. 25	16.7	Mar. 1, 1945	18.8
Nov. 23	19.8	Mar. 16, 1940	21.8	Dec. 18	14.5
Mar. 23, 1935	24.4	Dec. 7	18.8	Mar. 6, 1946	17.3
Nov. 13	18.4	Nov. 25, 1941	15.0	Dec. 21	12.8
Mar. 26, 1936	23.5				

3N 1E 5a1. J. E. Wingate. Nampa-Meridian Irrigation District well 64. Dug domestic water-table well, diameter 36 inches, depth about 60 feet, concrete casing, open end. Measuring point, upper surface of wooden platform through 3/4-inch hole near center of platform, about 0.3 foot above land-surface datum. Seasonal measurements by Nampa-Meridian Irrigation District.

Water level, in feet below land-surface datum, 1933-46

Date	Water level	Date	Water level	Date	Water level
Oct. 11, 1933	10.8	Dec. 30, 1937	17.4	Nov. 5, 1942	11.2
Mar. 19, 1934	18.0	Nov. 9, 1938	11.0	Feb. 26, 1943	14.9
Nov. 23, 1934	17.0	Mar. 12, 1939	17.1	Nov. 1	9.0
Mar. 23, 1935	21.3	Nov. 25	14.1	Feb. 28, 1944	14.9
Nov. 13	16.3	Mar. 15, 1940	19.2	Mar. 1, 1945	16.2
Mar. 25, 1936	21.0	Dec. 7	16.2	Dec. 18	12.1
Dec. 16, 1936	14.3	Nov. 25, 1941	12.4	Mar. 5, 1946	15.0
Mar. 28, 1937	18.8	Mar. 2, 1942	16.2	Dec. 21	10.2

3N 1E 11b1. H. L. Randall. Nampa-Meridian Irrigation District well 34. Dug stock and domestic well, depth about 80 feet. Measuring point, top of concrete curb over well, 2,664.5 feet above U. S. Bureau of Reclamation datum and about 0.5 foot above land-surface datum. Seasonal measurements by Nampa-Meridian Irrigation District.

Water level, in feet below land-surface datum, 1924-46

Mar. 31, 1924	19.9	Mar. 20, 1934	13.0	Dec. 12, 1940	11.5
Oct. 1, 1925	10.6	Nov. 22	12.1	10, 1941	9.6
Mar. 29, 1926	18.0	Mar. 24, 1935	15.2	Mar. 6, 1942	11.0
Nov. 26	14.1	Nov. 8	11.1	Nov. 5	8.1
Oct. 31, 1927	10.7	Mar. 28, 1936	14.5	Mar. 4, 1943	10.2
Nov. 3, 1928	8.5	Dec. 22	11.5	Nov. 2	6.7
13, 1929	9.1	Mar. 29, 1937	14.5	Mar. 1, 1944	11.2
May 17, 1930	12.0	Dec. 24	12.5	1, 1945	10.5
Oct. 25	8.1	Nov. 7, 1938	8.4	Dec. 20	9.0
30, 1931	13.3	Mar. 15, 1939	12.4	Mar. 7, 1946	9.8
27, 1932	6.8	Nov. 27	10.5	Dec. 25	8.1
Sept. 14, 1933	6.2	Mar. 13, 1940	13.2		

Boise County

7N 2E 34cal (*1027, p. 61). Jack N. Kohtala.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	39.1	Apr. 10	38.0	July 10	38.5	Oct. 3	39.1
10	39.3	17	37.8	16	38.9	9	39.1
16	39.2	20	37.8	18	38.4	19	39.0
24	38.7	25	37.9	24	38.8	24	39.2
30	38.8	May 1	37.8	Aug. 3	38.0	30	39.3
Feb. 5	38.7	7	37.7	7	38.9	Nov. 1	39.3
14	38.7	15	39.0	14	38.8	6	39.2
20	38.8	22	38.1	22	38.8	20	38.95
26	38.7	June 1	39.1	31	39.0	27	38.75
Mar. 8	38.1	5	37.4	Sept. 5	39.1	Dec. 4	38.8
13	38.2	13	38.1	11	39.2	11	38.8
20	38.2	19	40.7	18	39.3	18	38.9
27	38.0	26	38.1	25	39.2	25	38.9
Apr. 3	37.8	July 3	39.5				

Bonneville County

3N 41E 6cbl (*1027, p. 62). Poplar Store. Near Ririe, half a mile south of Snake River, and about 600 feet west of Riley Canal, at extreme upstream edge of irrigated area of Snake River Valley.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	54.3	Apr. 6	56.0	July 6	40.0	Oct. 5	40.4
12	54.5	13	55.9	13	38.4	12	41.4
19	54.8	20	55.6	20	36.7	19	42.4
26	55.3	27	54.6	27	35.6	26	43.4
30	55.4	May 4	53.5	Aug. 3	35.5	Nov. 2	44.4
Feb. 2	55.3	11	52.2	10	35.4	9	46.4
9	54.7	18	50.5	17	35.5	16	46.4
16	54.6	25	48.7	24	35.8	23	47.3
23	54.5	June 1	47.2	31	36.2	30	48.2
Mar. 2	54.7	8	46.3	Sept. 7	36.9	Dec. 7	49.0
9	55.1	15	43.5	14	38.2	14	49.9
16	55.6	22	42.4	21	39.2	21	50.7
23	55.9	29	41.2	28	39.6	28	51.7
30	55.9						

Canyon County

3N 2W 23dcl. Mrs. R. J. Richards and others. Nampa-Meridian Irrigation District well 81. Drilled stock and domestic well, diameter 6 inches, depth about 132 feet. Measuring point, top of casing, 2,507.0 feet above U. S. Bureau of Reclamation datum, and about 4.3 feet below land-surface datum. Seasonal measurements by Nampa-Meridian Irrigation District.

Water level, in feet below land-surface datum, 1921, 1925, 1928-46

Date	Water level	Date	Water level	Date	Water level
Sept. 29, 1921	17.3	Mar. 8, 1935	23.0	Mar. 17, 1941	22.3
Oct. 21, 1925	16.9	Oct. 22	20.5	Oct. 30	19.3
Nov. 10, 1928	21.5	Mar. 7, 1936	22.4	Feb. 25, 1942	21.3
18, 1929	28.8	Nov. 3	20.1	Oct. 29	19.3
May 2, 1930	23.1	Mar. 17, 1937	22.2	Feb. 22, 1943	21.0
Oct. 29	20.5	Nov. 30	22.3	Nov. 6	18.3
20, 1931	23.5	Oct. 28, 1938	18.4	Feb. 23, 1944	21.3
Nov. 1, 1932	19.2	Mar. 7, 1939	21.8	26, 1945	21.4
Sept. 21, 1933	20.2	Nov. 21	20.8	Dec. 13	20.5
Mar. 13, 1934	22.4	Mar. 8, 1940	22.3	Mar. 1, 1946	21.6
Nov. 9	21.1	Nov. 29	21.1	Dec. 16	19.3

Cassia County

16S 27E 35abl (*1027, p. 63). Mr. Cook. Water level, in feet below land-surface datum, 1946: Oct. 10, 18.26. Water level for Oct. 25, 1945, published in Water-Supply Paper 1027 as 12.52 feet below land-surface datum should be 12.12.

Kootenai County

53N 4W 24bbl (formerly 53/4W-24D1) (886, p. 92; *889-B, p. 136; 910, p. 10; 940, p. 9; 948, p. 11; 990, p. 10; 1020, p. 10; 1027, p. 55). Washington Water Power Co. well 91. C. T. Jurgens. Except as indicated, water levels given are from float-gage readings by owner, and well was pumping at times of readings.

53N 4W 24bbl--Continued.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7 a	469.18	Mar. 25	469.20	Aug. 15 b	463.37	Oct. 28	462.43
14	469.21	Apr. 1	469.10	19	461.28	Nov. 4	462.53
21	469.25	9 b	470.77	26	461.33	11	462.68
28	469.28	29	467.50	Sept. 2 a	461.38	18	462.80
Feb. 4	469.31	May 13	466.28	9	461.48	25	462.93
11	469.32	20	465.55	16	461.60	Dec. 2	463.13
18	469.33	June 4	464.08	23	461.63	9	463.33
25	469.33	11	463.63	30	461.83	16	463.53
Mar. 4	469.30	17	463.23	Oct. 7	462.03	23	463.58
11	469.26	July 1	462.28	14	462.18	30	463.65
18	469.23	29	461.28	21	462.33		

a Pump off.

b Measured by Geological Survey or Washington Water Power Co.

51N 5W 33bbl (formerly 51/5W-33D1) (886, p. 92; *889-B, p. 135; 910, p. 9; 948, p. 11; 990, p. 9; 1020, p. 10; 1027, p. 55). Washington Water Power Co. well 58. Spokane International Railway Co. Measurements by Washington Water Power Co. and Geological Survey.

Water level, in feet below land-surface datum, 1946							
Jan. 25	155.44	Apr. 9	153.98	Aug. 1	148.91	Nov. 4	151.36
Mar. 25	155.24	May 16	149.23	15	149.44	Dec. 19	151.12

50N 5W 1a1 (formerly 50/5W-1A1) (886, p. 91; *889-B, p. 135; 910, p. 10; 940, p. 8; 948, p. 10; 990, p. 9; 1020, p. 10; 1027, p. 55). Washington Water Power Co. well 96. Post Falls Irrigation District. Measurements by Geological Survey and Washington Water Power Co. Pump operating at time of each measurement.

Water level, in feet below land-surface datum, 1946							
Jan. 25	200.17	Apr. 9	200.08	Aug. 1	192.17	Nov. 4	193.40
Mar. 25	200.37	May 16	197.19	15	191.82	Dec. 19	194.42

Oneida County

13S 35E 33ccl. Mrs. K. T. Jones. Abandoned drilled stock well, diameter 6 inches, depth 328 feet, black-iron casing, open bottom. Measuring point, top of casing, west side, about 1.4 feet above land-surface datum. Water level, in feet below land-surface datum, 1946: Oct. 25, 294.25.

13S 35E 36ccl. Dave Deschamps. Abandoned drilled stock well, diameter 4 inches, depth 131 feet, black-iron casing, open bottom. Measuring point, top of casing, northeast side, about 0.8 foot above land-surface datum. Water level, in feet below land-surface datum, 1946: Oct. 25, 81.9.

14S 35E 10abl (formerly well 1) (1020, p. 10; *1027, p. 63). J. W. Leavitt. Water level, in feet below land-surface datum, 1946: Oct. 23, 117.8.

14S 35E 13dbl (formerly well 3) (1020, p. 11; *1027, p. 63). Progressive Pump Co. Water levels, in feet below land-surface datum, 1946: Feb. 24, 67.3; Oct. 23, 75.6.

14S 35E 23cal (formerly well 4) (*1020, p. 11; *1027, p. 63). Rotation Crop Growers, Inc. Measurements discontinued.

14S 35E 24bal (formerly well 5) (*1020, p. 11; *1027, p. 63). John E. Blaisdell. Measurements discontinued.

14S 35E 27aal (formerly well 10) (1020, p. 11; *1027, p. 64). Davis & Ipsen. Measuring point, upper face of concrete curb at south side of well casing, about 0.6 foot above land-surface datum. Measuring point previously reported as 18.0 feet below land-surface datum. Corrected water levels in table below supersede those in previous reports.

Water level, in feet below land-surface datum, 1943-46					
Date	Water level	Date	Water level	Date	Water level
Oct. 29, 1943	55.2	Mar. 2, 1945	56.6	July 18, 1945	a 67.3
May 2, 1944	53.0	May 31,	55.1	Oct. 23, 1946	58.86
Oct. 21	58.4				

a Pump operating at time of measurement.

14S 35E 35bdl (formerly well 13) (1020, p. 11; *1027, p. 64). John W. Price. Formerly owned by Thomas Hughes. Water levels, in feet above land-surface datum, 1946: Feb. 25, 29.0; Oct. 23, 24.9. Flowing prior to measurements.

35cbl (formerly well 12) (*1020, p. 11; *1027, p. 64). John W. Price. Formerly owned by Edward Hughes. Measurements discontinued.

35cdl (formerly well 14) (*1020, p. 11; *1027, p. 64). Pleasant View School District. Measurements discontinued.

14S 35E 36bcl (formerly well 18) (1020, p. 12; 1027, p. 64). Smith & Illum. Formerly owned by Hill & Illum. Water level, in feet below land-surface datum, 1946: Oct. 23, 19.6.

14S 35E 36cal (formerly well 19) (1020, p. 12; 1027, p. 64). Hill & Illum. No measurements made in 1946.

14S 36E 3cal (formerly well 22) (*1020, p. 12; 1027, p. 65). Walter K. Dastrup. Formerly owned by M. L. Slorp. Water level, in feet below land-surface datum, 1946: Oct. 23, 68.2.

14S 36E 17ddl (formerly well 23) (1020, p. 12; *1027, p. 65). Ward & Dredge. Water levels, in feet below land-surface datum, 1946: Feb. 24, 120.6; Oct. 23, 123.6. Measurements discontinued.

14S 36E 22bcl (formerly well 28) (*1020, p. 12; *1027, p. 65). Malad City. Water level, in feet below land-surface datum, 1946: Oct. 23, 114.6. Measurement not exact, because of wet casing. Measurements discontinued because of obstruction in well.

14S 36E 29bal (formerly well 33) (1020, p. 14; *1027, p. 65). R. R. Jones. Water level, in feet below land-surface datum, 1946: Oct. 23, 25.3.

14S 36E 32aal (formerly well 40) (1020, p. 15; *1027, p. 66). R. J. Harding. Water levels, in feet above land-surface datum, 1946: Feb. 25, 7.6; Oct. 23, 5.1. Flowing prior to measurements.

14S 36E 32dal (formerly well 46) (1020, p. 16; *1027, p. 66). William Howard. No measurements made in 1946.

15S 35E 1dal (formerly well 56) (*1020, p. 16; 1027, p. 67). Joseph Josephson. Measurements temporarily discontinued in 1946.

15S 35E 1db1 (formerly well 55) (1020, p. 16; *1027, p. 66). Dan Tovey. Water level, in feet above land-surface datum, 1946: Oct. 22, 21.6. Flowing prior to measurement.

15S 35E 2aal (formerly well 57) (1020, p. 16; *1027, p. 67). Leo Brown. Water level, in feet above land-surface datum, 1946: Feb. 25, 13.4. Flowing prior to measurement. Measurements discontinued.

15S 35E 11ab1 (formerly well 65) (1020, p. 17; *1027, p. 67). Levi Waldron. Water level, in feet above land-surface datum, 1946: Oct. 22, 1.9. Flowing prior to measurement; 3 nearby wells flowing during measurement.

15S 35E 12ab2 (formerly well 72) (*1020, p. 18; *1027, p. 67). James H. Williams. Water level, in feet above land-surface datum, 1946: Oct. 22, 18.3. Flowing prior to measurement.

15S 35E 12ab3 (formerly well 73) (*1020, p. 18; *1027, p. 68). James H. Williams. Water level, in feet below land-surface datum, 1946: Oct. 22, 12.0. Flowing prior to measurement. Measurements discontinued.

15S 35E 12bb1 (formerly well 76) (*1020, p. 18; *1027, p. 68). James H. Williams. Water levels, in feet above land-surface datum, 1946: Feb. 25, 14.0; Oct. 22, 9.8. Flowing prior to measurement.

15S 35E 14ad1 (formerly well 80) (1020, p. 19; *1027, p. 68). Ben Jones. Water levels, in feet above land-surface datum, 1946: Oct. 22, 6.4. Flowing prior to measurement.

15S 35E 24ad2 (formerly well 84) (1020, p. 19; *1027, p. 68). Portage Canal Co. Water level, in feet above land-surface datum, 1946: Oct. 22, 11.9. Flowing prior to measurement.

15S 35E 24ad4 (formerly well 86) (*1020, p. 19; 1027, p. 68). Portage Canal Co. Water level, in feet above land-surface datum, 1946: Oct. 22, 17.2. Flowing prior to measurement.

15S 35E 24ad5 (formerly well 87) (1020, p. 19; *1027, p. 69). Portage Canal Co. Water level, in feet above land-surface datum, 1946: Oct. 22, 34.2. Flowing prior to measurement.

15S 36E 5aa4 (formerly well 98) (*1020, p. 20; *1027, p. 69). Dives Bros. Correct measuring point, top of thread guard over top of casing, 4,439.0 feet above mean sea-level datum of 1929, and about 1.2 feet above land-surface datum. Following measurements supersede those published in Water-Supply Papers 1020 and 1027. Flow, in gallons a minute: Sept. 5, 1931, 12; Dec. 4, 1931, 20; Apr. 11, 1932, 16.8; May 17, 1932, 13.3; Oct. 12, 1932, 15.5; June 29, 1943, 23. Flowing prior to all measurements; 3 nearby wells flowing during measurement. No measurements made in 1946.

Water level, in feet above land-surface datum, 1931-32, 1943-45

Date	Water level	Date	Water level	Date	Water level
Aug. 17, 1931	13.8	June 29, 1943	14.9	Mar. 3, 1945	15.0
Dec. 4	14.2	Oct. 28	12.9	June 1,	11.9
Apr. 11, 1932	12.9	May 4, 1944	12.9	July 17	14.8
May 17	13.3	Aug. 17, 1944	10.7	Oct. 23	16.0
Oct. 12	15.5	Oct. 21	10.6		

15S 36E 6ac1 (formerly well 104) (1020, p. 21; *1027, p. 70). Will John. Water level, in feet above land-surface datum, 1946: Feb. 24, 13.0. Flowing prior to measurement.

15S 36E 6ac2 (formerly well 105) (*1020, p. 21; *1027, p. 70). Will John. Water levels, in feet above land-surface datum, 1946: Feb. 24, 16.7; Oct. 22, 12.2. Flowing prior to measurement.

15S 36E 6ba1 (formerly well 106) (*1020, p. 22; *1027, p. 70). A. E. Scott. Water levels, in feet above land-surface datum, 1946: Feb. 25, 22.0; Oct. 22, 16.0. Flowing prior to measurements.

15S 36E 8aa1 (formerly well 122) (1020, p. 23; *1027, p. 71). Edward Vaughn. Water level, in feet above land-surface datum, 1946: Oct. 23, 17.9. Flowing prior to measurement; 4 nearby wells flowing during measurement.

15S 36E 8aa5 (formerly well 126) (*1020, p. 23; *1027, p. 72). Edward Vaughn. Water level, in feet above land-surface datum, 1946: Oct. 23, 26.6. Flowing prior to measurement; 4 nearby wells flowing during measurement.

15S 36E 10ad1 (formerly well 133) (1020, p. 24; *1027, p. 72). Warren Busch. Water levels, in feet above land-surface datum, 1946: Feb. 25, 12.9; Oct. 22, 12.2. Flowing prior to measurements.

15S 36E 27cc1 (formerly well 153) (*1020, p. 25; *1027, p. 73). T. A. John. Water level, in feet above land-surface datum, 1946: Oct. 22, 19.6. Flowing prior to measurements. Measurements discontinued because pressure can no longer be measured.

15S 36E 29ca2 (formerly well 158) (*1020, p. 25; *1027, p. 73). Tom Dudley. Formerly owned by J. F. Dudley. Measuring point, top of 3-inch pipe elbow, 4,404.2 feet above mean sea-level datum of 1929, and about 1.6 feet above land-surface datum (previously published as 1.2 feet above land-surface datum). Corrected water levels, in feet above land-surface datum, for 1943-45, are given below. Flowing prior to measurements.

Water level, in feet above land-surface datum, 1943-46

Date	Water level	Date	Water level	Date	Water level
July 16, 1943	10.4	Oct. 22, 1944	10.9	July 17, 1945	12.5
Oct. 28	a 7.0	Mar. 1, 1945	12.9	Oct. 24	11.9
May 3, 1944	12.9	May 30,	12.7	22, 1946	a 10.6

a Plug leaked during measurement.

15S 36E 30ab1 (formerly well 161) (1020, p. 25; *1027, p. 73). John W. Jenkins. Water level, in feet above land-surface datum, 1946: Oct. 22, 14.0. Flowing prior to measurement; one adjacent well flowing during measurement.

15S 36E 30ab2 (formerly well 162) (1020, p. 26; *1027, p. 73). John W. Jenkins. Water level, in feet above land-surface datum, 1946: Oct. 22, 11.7. Flowing prior to measurement; 3 adjacent wells flowing during measurement.

15S 36E 30ac2 (formerly well 163) (1020, p. 26; *1027, p. 74). John W. Jenkins. Water level, in feet above land-surface datum, 1946: Oct. 22, 15.4. Flowing prior to measurement.

15S 36E 30ac3 (formerly well 164) (1020, p. 26; *1027, p. 74). John W. Jenkins. Water level, in feet above land-surface datum, 1946: Oct. 22, 2.0. Flowing prior to measurement.

MONTANA

By D. A. Warner

PROGRAM OF WORK

Five observation wells were established in Montana in the fall of 1942 to serve as key wells in the Nation-wide network of observation wells being maintained by the Geological Survey, United States Department of the Interior. The wells are near Geological Survey stream-gaging stations in order that comparisons might be made between the ground-water levels and the stages of the streams. Water-level measurements in three of the wells are being continued, but measurements on the wells in Carbon and Yellowstone Counties were discontinued. The well in Custer County is in the valley of Clark's Fork of the Columbia River, the well in Blaine County is in the valley of the Milk River, and the well in Missoula County is in the valley of the Yellowstone River.

The wells were selected by Arthur M. Morgan, of the division of ground water, Geological Survey, with the assistance of men from the Billings office of the division of surface water. The water levels in these wells have been measured at frequent intervals since 1942 by engineers of the Billings office of the division of surface water, Geological Survey, through the courtesy of A. H. Tuttle, district engineer. During 1946, 16 individual water-level measurements were made.

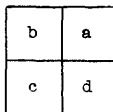
FLUCTUATIONS OF WATER LEVEL

The water level in the well in Blaine County reached its lowest point in the early winter of 1942; however, the following year the water table rose to the highest point reached since measurements were started. In early 1944 the water level receded about 1 foot to a level slightly above the lowest recorded level and has shown little variation since.

The water level in the well in Missoula County usually starts to decline in August or September, reaching the lowest stage of the year in about March; it then begins to rise and usually reaches its highest stage of the year in June or July. The annual range in water level generally is about 8 feet.

WELL-NUMBERING SYSTEM

Each observation well in Montana is designated by a number that serves to locate it. The first segment of the number is the quadrant into which the State is divided by the principal meridian and base line, the second is the township, the third the range, and the fourth the section. The letters that follow the number of the section 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:



A digit at the end of the letters in the number indicates a particular well of two or more in the same 10-acre tract.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Blaine County

A-33-18-16dc. US 147. Lundeen. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 33 N., R. 18 E. Drilled well, depth 11.0 feet. Aquifer, alluvium. Measuring point, top of 3/4-inch pipe alongside well, at land-surface datum.

Water level, in feet below land-surface datum, 1942-46

Date	Water level	Date	Water level	Date	Water level
Nov. 1, 1942	9.28	Mar. 20, 1944	8.00	July 25, 1945	8.69
Dec. 18	9.21	Apr. 7	8.10	Aug. 1	8.79
Mar. 31, 1943	5.66	May 23	8.20	Sept. 21	8.87
Apr. 10	6.13	June 2	8.23	Oct. 4	8.84
May 6	6.60	July 6	8.28	Nov. 4	8.78
May 28	6.79	Aug. 17	8.53	Dec. 15	8.74
July 13	7.07	Sept. 23	8.74	Dec. 17	8.73
July 14	7.06	Oct. 7	8.84	Jan. 25, 1946	8.74
Aug. 5	7.39	31	8.86	Apr. 2	8.10
Oct. 6	7.76	Dec. 6	8.84	25	8.31
Oct. 28	7.88	31	8.87	June 6	8.38
Nov. 10	7.92	Mar. 22, 1945	8.02	July 1	8.53
Dec. 9	7.98	Apr. 14	8.25	July 30	8.87
Dec. 31	8.01	May 29	8.33	Sept. 15	9.22
Jan. 28, 1944	8.07	June 26	8.48	Nov. 4	9.31
Feb. 26	8.12				

Custer County

A-8-47-28b. US 146. A. E. Sharrah. NW $\frac{1}{4}$ sec. 28, T. 8 N., R. 47 E. At 1519 North Jordan, Miles City. Unused driven well, depth 18.9 feet. Aquifer, alluvium. Measuring point, top of 1.5-inch pipe, 2.17 feet above land-surface datum.

A-8-47-28b--Continued.

Water level, in feet below land-surface datum, 1942-44, 1946

Date	Water level	Date	Water level	Date	Water level
Sept. 15, 1942	10.81	Sept. 8, 1943	10.43	June 1, 1944	10.32
Dec. 1	10.93	Dec. 10	10.60	July 11	9.02
Feb. 7, 1943	11.07	Jan. 18, 1944	10.75	Aug. 20	9.92
July 29	9.67	Apr. 10	9.96	Sept. 9	10.23
Aug. 28	10.42	May 1	10.18	Oct. 23, 1946	11.03

Missoula County

B-13-19-18ba. US 148. Mrs. Edna Denkenberger. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 13 N., R. 19 W. Used dug and drilled domestic and stock well, diameter of dug well 2.6 feet, diameter of drilled well 6 inches, dug to depth of 29.9 feet, drilled to depth of 55 feet. Aquifer, alluvium. Measuring point, bottom edge of 2-by 12-inch plank below pump base, at land-surface datum.

Water level, in feet below land-surface datum, 1942-46

Sept. 12, 1942	22.26	Dec. 7, 1943	26.18	May 28, 1945	27.70
Nov. 7	25.78	Jan. 18, 1944	26.05	June 18	19.35
Dec. 8	27.88	Mar. 13	28.28	Aug. 3	20.80
Feb. 22, 1943	27.49	Apr. 11	27.68	Sept. 24	22.70
Apr. 10	26.72	May 20	24.15	Nov. 11	25.95
May 25	22.05	June 23	20.40	Jan. 8, 1946	28.40
June 14	18.98	July 21	21.12	Mar. 7	29.67
July 8	16.07	Aug. 18	21.43	May 20	20.82
25	17.91	Oct. 6	24.19	June 10	18.20
Aug. 26	20.42	Dec. 6	27.30	Sept. 12	22.28
Sept. 29	22.38	Feb. 2, 1945	28.66	Oct. 23	25.50
Nov. 9	24.96	Mar. 28	28.85	Dec. 21	26.95

Prairie County

U. S. 133 (*990, p. 16; 1020, p. 29). Vernon Dickson. NW $\frac{1}{4}$ sec. 21, T. 12 N., R. 51 E. Montana prime meridian. Measurements discontinued after July 22, 1944.

OREGON

By J. W. Robinson and F. A. Watkins

SCOPE OF THE WATER-LEVEL PROGRAM

The program for measuring water levels in observation wells in Oregon was continued during 1946 in cooperation with the Oregon State Engineer. Measurements were made at 76 wells and 3 wells were discontinued. Altogether, during the year, 620 measurements of water level or pressure head were made, not including readings from recorder charts. At the end of 1946, two float gages, one pressure gage, and one automatic water-stage recorder were in operation. Also, at one well a local observer made weekly tape measurements, and at two others the owners made daily to weekly readings of pressure head with water manometer tubes.

PRECIPITATION

The first of the two following tables shows the average monthly and seasonal distribution of precipitation at two representative stations in Oregon for 50 years of record; also for the water-year 1945-46. The second table shows that through the State as a whole precipitation was above average. The two stations along the coast, Bandon and Newport, indicated a possible deficiency in that part of Oregon. Snowfall was also above average over most of the State.

Monthly precipitation at two representative stations in the State of Oregon in 1945-46, in percentage of the yearly average for the 50-year period ending Sept. 30, 1940

Month	Portland Willamette Valley subprovince (western Oregon)			Baker Grande Ronde subprovince (eastern Oregon)		
	50-year average		1945-46	50-year average		1945-46
	Inches	Percent	Percent	Inches	Percent	Percent
October	2.80	7.2	4.4	0.74	6.6	3.1
November	6.05	15.5	26.8	1.02	9.0	14.5
December	6.66	17.0	15.5	1.23	10.9	12.3
January	5.80	14.9	14.1	1.19	10.6	7.4
February	4.74	12.1	14.6	1.06	9.4	5.0
March	3.92	10.0	14.5	1.05	9.3	8.1
Subtotal	29.97	76.7	89.9	6.29	55.8	50.4

Monthly precipitation at two representative stations in the State of Oregon in 1945-46, in percentage of the yearly average for the 50-year period ending Sept. 30, 1940--Continued.

Month	Portland Willamette Valley subprovince (western Oregon)			Baker Grande Ronde subprovince (eastern Oregon)		
	50-year average		1945-46	50-year average		1945-46
	Inches	Percent	Percent	Inches	Percent	Percent
April	2.73	7.0	2.5	0.98	8.7	4.3
May	1.93	4.9	3.0	1.25	11.1	23.4
June	1.48	3.8	5.1	1.10	9.7	7.5
July	.48	1.2	2.5	.48	4.3	4.1
August	.61	1.6	.6	.46	4.1	3.0
September	1.86	4.8	3.6	.71	6.3	6.2
Subtotal	9.09	23.3	17.3	4.98	44.2	48.5
The year	39.06	100.0	107.2	11.27	100.0	98.9

Precipitation and relative wetness at 18 representative climatologic stations in the State of Oregon for the year ending Sept. 30, 1946

Province	Station and county	Precipitation, 1945-46	
		Inches	Percentage of 50-year average ^a
Northern Coast Ranges	Ashland, Jackson	22.49	114.2
	Astoria, Clatsop	91.50	118.6
	Bandon, Coos	60.79	96.6
	Grants Pass, Josephine	30.98	105.8
	Newport, Lincoln	61.74	90.8
Puget-Willamette Trough	Albany, Linn	39.12	96.5
	Eugene, Lane	44.03	116.8
	Falls City, Polk	81.02	112.1
	Portland, Multnomah	41.93	107.3
	Salem, Marion	43.06	112.5
	Zigzag, Clackamas	77.58	99.2
Columbia Plateau	Baker, Baker	11.13	93.8
	Bend, Deschutes	15.95	128.0
	LaGrande, Union	22.29	116.3
	The Dalles, Wasco	14.95	110.7
	Umatilla, Umatilla	8.59	113.6
Basin and Range	Harney Branch Experiment Station, Harney	10.51	116.1
	Klamath Falls, Klamath	14.99	115.0

^a Average for years ending Sept. 30, 1891, to 1940.

SUMMARY OF WATER-LEVEL FLUCTUATIONS

Willamette Valley subprovince

Rounds of water-level measurements in July and in late September were made in six counties in the Willamette Valley. In well 1N/1-34N1 (U. S. 107), at Portland, 11 measurements were made during the year for inclusion in the Nation-wide monthly Water Resources Review. In well 1S/4W-32M1, at Junction City, 45 tape measurements were made by the local observer, J. Fay Miller. In October and November 1946 the United States Engineer Department made measurements at seven of the wells included in the Willamette Valley net. Altogether in 1946, 86 measurements of water level were made in 16 wells in the Willamette Valley.

In 11 wells, for which comparable measurements are available, the September water levels were on the average about 0.3 foot lower in 1946 than in 1945. In the Junction City and Portland wells the year-end levels were somewhat lower than in 1945.

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, under Benton, Lane Linn, Marion, Multnomah, and Yamhill Counties.

Deschutes River subprovince

Prineville area

Four rounds of pressure-head measurements in the Prineville area were made during 1946. Two altimeter-type pressure gages were at private wells to be read by the owners; in addition, at one well the owner took readings of pressure head by a water-manometer tube. An automatic water-stage recorder was in operation on well 14/16-32N1 until November 15, when the recorder was transferred to well 41/16-31H1. In all, 246 measurements of pressure head were made in 21 wells in the area during 1946, in addition to the readings from recorder charts.

During the climatic year ending September 30, 1946, the precipitation at Prineville was about an inch above normal with a total of 9.90 inches; over half of this amount fell in November, December, and January.

Runoff in Crooked River, controlled in large part by snow melt in the upper drainage basin, was about 362,000 acre-feet, which is 66 percent more than in the climatic year 1944-45. Correspondingly, the runoff in Ochoco Creek and McKay Creek should have been greater.

The following table shows the average change, in feet, of pressure head between rounds of measurements at two groups of wells in the Prineville area.

Average change, in feet, of pressure head in 2 groups of wells in Prineville area, Oregon, in 1946				
Location	Average rise (+) or decline (-) in feet of pressure head			
	May	July	Sept.	Nov.
Wells in T. 14 S., R. 15 E. (More distant from Prineville)	-2.5	+1.1	0	+0.2
Wells in T's. 14 and 15 S., R. 16 E. (Near Prineville)	-3.7	-2.8	0	-1.2

The preceding table indicates that, in spite of the greater opportunities for recharge in the Prineville area during the climatic year, a slight drop in pressure head occurred. This is believed to be due to an increase in withdrawal from the aquifer rather than a decrease in recharge.

Records for observation wells in the Prineville area are listed under Crook County.

Summer Lake subprovince

In Fort Rock Valley, one round of water-level measurements was made at 6 wells in July.

Walla Walla subprovince

In the Walla Walla Basin 11 rounds of water-level measurements were made, one round by E. E. Robnett, and the others by W. C. Mason, local watermaster. In addition, a float gage was maintained throughout the year in well 6N/35-36H1 and read weekly by the owner, Walter Hermann. In all, 275 measurements were made in 16 wells; one well was discontinued.

In the 16 wells the September levels were, on the average, about 2.0 feet higher than in September 1945. The December levels were, on the average, 3.14 feet above those of December 1945 due to flood runoff in the Walla Walla River in December. In well 6N/35-36H1, read by Walter Hermann, the highest level of the year occurred in June and was 1.89 feet above the high of 1945. Wells in the Walla Walla Basin are listed under Umatilla County.

Harney Basin subprovince

A round of water-level measurements were made at 10 wells in the Harney Basin in July. One well equipped with a float gage was read weekly by Newton Hotchkiss. At the float-gage well the September-end water level was 0.65 foot above the corresponding level of 1945, but the high water level of 1946, occurring in June, was 0.64 foot below the high level of May 1945. Precipitation at the harney Branch Experiment Station was 116 percent of normal for the water-year 1945-46.

Grande Ronde subprovince

Two of the areas in the State in which observation wells are maintained lie in the Grande Ronde subprovince--the Baker and Grande Ronde Valleys.

A round of water-level measurements in each of these areas was made in July. In the Baker Valley, at two of the four wells measured, the July water levels were above those of June 1945.

At three observation wells in the Grande Ronde Valley, the water level in two was higher than in June of 1945. 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; 1020, p. 40; 1027, p. 81). City of Baker. Permanent observation well. Taps shallow water in alluvium. Water level, in feet below land-surface datum, 1946: July 10, 3.61.

8/39-22F1 (*817, p. 240; 845, p. 405; 886, p. 617; 910, p. 19; 940, p. 16; *948, p. 16; *990, p. 19; 1020, p. 40; 1027, p. 81). Baker County. Permanent observation well. Taps shallow water in alluvium. Water level, in feet below land-surface datum, 1946: July 10, 4.49.

8/40-19D1 (*817, p. 240; 845, p. 405; 886, p. 617; 910, p. 19; 940, p. 16; *948, p. 16; *990, p. 19; 1020, p. 40; 1027, p. 82). Baker County. Permanent observation well. Taps shallow water in alluvium. Water level, in feet below land-surface datum, 1946: July 10, 2.71.

8/40-23A1 (*817, p. 240; 845, p. 405; 886, p. 617; 910, p. 19; 940, p. 16; *948, p. 16; *990, p. 19; 1020, p. 40; 1027, p. 82). Baker County. Permanent observation well. Taps shallow water in alluvium. Water level, in feet below land-surface datum, 1946: July 10, 4.25.

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; 1020, p. 41; 1027, p. 82). Mrs. Thomas Harvey. Taps water in old (?) alluvium. Water levels, in feet below land-surface datum, 1946: July 3, 14.88; Sept. 24, 16.08.

Crook County

Deschutes River subprovince

14/15-15P1 (*1027, p. 82). G. W. Slayton. Flowing artesian water. Water level, in feet above land-surface datum, 1946: May 1, 38.5.

14/15-15Q1 (*1027, p. 82). Claude Williams. Flowing artesian water. Reference bench mark is top of 2-inch tee on well, 2,849.62 feet above mean sea level. Land-surface datum is 2,846.80 feet above mean sea level.

14/15-15Q1--Continued.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	56.5	May 1	50.5	July 23	46.5	Aug. 31	56.5
21	55.5	June 1	51.5	24	a 53.8	Sept. 4	a 57.5
24	55.5	24	52.5	30	a 57.5	7	a 56.5
Feb. 1	a 58.5	July 2	52.8	Aug. 1	a 55.8	14	52.5
18	54.	5	51.8	7	a 58.2	18	56.8
Mar. 8	53.5	9	a 56.8	14	50.5	26	56.5
16	53.5	10	a 57.5	16	51.5	27	57.5
24	52.5	13	54.5	17	a 57.5	29	57.8
Apr. 7	a 55.5	16	53.8	18	a 55.5	Nov. 18	57.0
11	51.5	18	48.8	21	a 58.5	21	56.0
16	54.5	22	48.				

a Outlets for sprinkling or stock troughs shut down.

14/15-16J1 (*1027, p. 83). George Russell, Jr. Measurements discontinued.

14/15-21H1 (*1027, p. 83). James Small. Flowing artesian water. Water levels, in feet above land-surface datum, 1946: May 1, 26.5; July 9, 29.0; Sept. 5, 29.0; Nov. 18, 30.5.

14/15-22B1 (*1027, p. 83). Josiah Williams. Flowing artesian water. Land-surface datum is 2,839.74 feet above mean sea level. Continual varied flow of water from well to cattle troughs. Water levels, in feet above land-surface datum, 1946: May 1, 58.5; July 9, 63.0; Sept. 5, 66.5; Nov. 18, 66.5.

14/15-24M1 (*1027, p. 83). Foy Hibbard. Nonflowing artesian water. Water levels, in feet below land-surface datum, 1946: May 1, 6.56; July 9, 6.25; Sept. 5, 8.79; Nov. 18, 7.85.

14/15-25E1 (*1027, p. 83). R. M. Doty. Flowing artesian water. Water levels, in feet above land-surface datum, 1946: May 1, 16.3; July 9, 16.0; Sept. 5, 13.3; Nov. 18, 13.0.

14/15-36G1 (*1027, p. 84). C. W. Woodford. Flowing artesian water. Water levels, in feet above land-surface datum, 1946. May 1, 8.0; July 8, 9.5; Sept. 5, 9.5; Nov. 14, 10.0.

14/15-36H1 (*1027, p. 84). Alton Basey. Flowing artesian water. Water levels, in feet above land-surface datum, 1946: May 1, 35.0; July 8, 30.0; Sept. 5, 30.0; Nov. 14, 29.0.

14/16-30N1 (*1027, p. 84). Orville Yancey. Flowing artesian water. Water levels, in feet above land-surface datum, 1946: May 1, 28.0; July 9, 26.0; Sept. 5, 26.0; Nov. 18, 24.0.

14/16-31F1 (*1027, p. 84). Mrs. Lon Smith. Flowing artesian water. Water levels, in feet above land-surface datum, 1946: May 1, 16.5; July 9, 14.0; Sept. 5, 12.5; Nov. 22, 13.0.

14/16-31H1. Pioneer Cemetery Association. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 14 S., R. 16 E., about 530 feet west of county road near southwest corner of cemetery at west end of driveway. Unused drilled sprinkling well, diameter 6 inches, measured depth 244 feet. Nonflowing confined water. Measuring point, top of 6-inch casing, 1.0 foot above land-surface datum, which is 2,941.62 feet above mean sea level. Reference bench mark is about 40 feet east of well, top of square concrete enclosure at northwest corner, a chiseled square, 2,944.05 feet above mean sea level. Water-stage recorder installed at well Nov. 16, 1946.

14/16-31H1--Continued.

Water levels at noon, in feet below land-surface datum, 1946
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 9	70.40	Nov. 30	66.70	Dec. 15	66.60	Dec. 25	66.56
Nov. 20	66.70	Dec. 5	66.66	20	66.58	31	66.51
25	66.72	10	66.64				

a Tape measurement.

14/16-31J1 (*1027, p. 84). City of Arineville Ry. Flowing artesian water. Reference bench mark is west end of wooden door sill to pump house, a knife cut square, 2,869.33 feet above mean sea level. Water levels, in feet above land-surface datum, 1946: May 1, 5.5; July 9, 2.5; Sept. 5, 5.0; Nov. 14, 5.0.

14/16-31M1 (*1027, p. 85). O. C. Hawk. Flowing artesian water. Reference bench mark is top of 6-inch plug at well, 2,850.59 feet above mean sea level. Land-surface datum is 2,849.88 feet above mean sea level. Water levels, in feet above land-surface datum, 1946: May 1, 24.5; July 8, 22.0; Sept. 5, 23.0; Nov. 14, 21.0.

14/16-31P1 (*1027, p. 85). Grover C. Barron. Flowing artesian water. Land-surface datum is 2,852.71 feet above mean sea level. Water levels, in feet above land-surface datum, 1946: May 1, 20.0; July 8, 17.0; Sept. 5, 16.5; Nov. 14, 15.0.

14/16-31Q1 (*1027, p. 85). Sarah Yancey Estate. Flowing artesian water. Land-surface datum is 2,858.1 feet above mean sea level. Water levels, in feet above land-surface datum, 1946: May 1, 17.7; July 8, 16.0; Sept. 5, 14.5.

14/16-32N1 (*1027, p. 85). E. E. Wagoner. Originally flowing artesian water, at present drawn down by adjacent pumped wells so that water level is below land surface most of the year. Automatic water-stage recorder installed at well June 6, 1945, and removed Nov. 15, 1946. Land-surface datum is 2,865.90 feet above mean sea level.

Daily high and low water level, in feet with reference to
land-surface datum, 1946

Day	Jan.		Feb.		Mar.		Apr.		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	+0.96	-0.10	+0.15	1.45	-0.43	-2.24	.....	.....	-3.80	-7.70	-4.35	-7.17
2	+1.08	-.20	+1.14	1.48	-.46	-2.43	.....	.....	-4.45	-6.53	-4.14	-6.48
3	+1.19	-.36	+1.11	1.02	-.55	-2.01	.....	.....	-1.70	-6.28	-3.85	-7.72
4	+1.05	-.34	+1.47	1.38	-.30	-3.19	.....	.....	-4.17	-7.37	-4.95	-7.00
5	+ .75	-.80	+2.22	1.47	-.98	-2.95	.....	.....	-5.10	-7.12	-4.27	-7.34
6	+ .77	-.30	-.08	2.10	-.79	-2.66	.....	.....	-4.13	-6.80	-3.55	-5.99
7	+1.18	-.40	-.18	1.78	-.90	-3.00	.....	.....	-3.46	-6.05	-3.50	-8.56
8	+ .96	-.50	-.22	2.06	-1.22	-3.12	.....	.....	-2.05	-3.57	-6.02	.....
9	+1.00	-.38	-.26	2.24	-1.12	-2.62	.....	.....	-1.80	-5.70	.....	.....
10	+ .97	-.55	-.42	1.86	-.63	-2.23	.....	.....	-2.95	-7.64	.....	-6.74
11	+ .79	-.74	-.12	2.10	-.40	-2.54	.....	.....	-4.20	-8.29	-4.51	-9.11
12	+ .72	-1.13	-.59	2.40	-.64	.....	.....	.....	-3.00	-7.49	-4.87	-8.13
13	+ .62	-.76	-.65	2.60	.....	.....	.....	.....	-.61	-5.97	-5.21	-7.80
14	+ .67	-1.00	-.79	2.49	-.30	-3.25	.....	.....	-3.76	-7.20	.....	.....
15	+ .86	-1.00	-.64	2.48	.....	.....	.....	.....	-4.63	-9.15	.....	.....
16	+ .41	-1.00	-.69	2.76	.....	.....	.....	.....	-6.25	-10.13	.....	.....
17	+ .50	-1.03	-.80	2.15	.....	.....	.....	.....	-6.20	-8.85	.....	.....
18	+ .56	-1.15	-.23	2.08	.....	.....	.....	.....	-5.75	-8.80	.....	.....
19	+ .48	-1.26	-.43	1.88	.....	.....	.....	.....	-5.35	-8.23	.....	-10.90
20	+ .44	-.80	.....	.....	.....	.....	.....	.....	-5.02	-7.45	-4.65	-11.20
21	+ .65	-.81	.....	.....	.....	.....	.....	.....	-3.87	-7.35	-7.43	-9.45
22	+ .77	-.65	.....	.....	.....	-2.02	.....	.....	.....	.....	-7.25	-10.23
23	+ .77	-.75	.....	2.87	-.12	-2.13	.....	.....	.....	.....	-5.55	-6.30
24	+ .45	-1.10	-.80	2.00	-.28	-1.58	.....	.....	.....	.....	-3.92	-6.15
25	+ .26	-1.35	-.18	2.13	+ .15	-1.87	.....	.....	.....	.....	-4.14	-8.37
26	+ .31	-1.48	-.42	2.10	-.07	-2.36	.....	.....	.....	.....	-5.34	-9.25

14/16-32N1--Continued.

Daily high and low water level, in feet with reference to
land-surface datum, 1946

Day	Jan.		Feb.		Mar.		Apr.		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
27	+0.20	-1.12	-0.41	2.19	-0.40	-1.56	.....	.....	.....	-2.72	-5.68	-9.90
28	+3.30	-1.40	-1.43	2.27	.....	.....	.....	.....	-1.68	-2.82	-6.00	-10.80
29	-.02	-1.39	.....	.....	.....	.....	.....	.....	-1.88	-4.22	-4.84	-6.92
30	+1.18	-1.47	.....	.....	.....	.....	-7.00	.....	-1.82	-7.20	-4.35	-10.33
31	-.05	-1.55	.....	.....	.....	.....	.....	.....	-4.75	-7.40	.....	.....

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		Aug.		Sept.		Oct.		Nov.	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	9.77	11.83	.....	.....	5.45	6.48	4.43	5.88
2	.....	.....	9.46	12.05	.....	.....	4.76	6.42	4.47	6.75
3	.....	.....	.....	.....	.....	.....	4.92	6.21	4.57	5.52
4	.....	.....	.....	.....	.....	6.67	4.69	6.07	3.97	6.18
5	.....	.....	.....	.....	4.54	6.40	4.82	6.32	4.72	6.07
6	.....	10.10	.....	.....	4.67	6.54	4.50	4.81	4.27	5.55
7	6.55	9.27	.....	.....	4.90	6.49	4.21	5.60	3.93	5.56
8	6.28	9.47	.....	.....	4.34	6.53	3.86	5.87	4.19	6.18
9	4.90	8.18	.....	.....	4.77	7.27	4.31	5.73	4.90	6.43
10	5.73	10.40	.....	.....	4.81	8.65	4.06	5.83	4.53	6.02
11	8.94	10.98	.....	.....	5.97	9.54	4.17	6.00	4.00	5.60
12	7.85	10.88	.....	.....	6.37	10.20	4.82	6.75	4.05	5.98
13	8.98	10.12	.....	.....	6.97	10.10	4.83	6.38	4.59	6.20
14	7.05	9.75	.....	.....	6.49	9.54	4.68	6.50	3.64	7.03
15	6.23	8.18	.....	.....	5.86	7.85	4.87	6.53	5.10	7.03
16	6.20	9.55	.....	.....	5.40	6.55	4.83	6.34	4.53	5.60
17	7.17	10.15	.....	.....	4.28	5.93	4.65	6.28	.....	.....
18	7.57	10.38	.....	.....	3.85	5.64	4.97	6.54	.....	.....
19	7.56	10.95	.....	.....	3.86	5.83	5.10	6.36	.....	.....
20	9.38	11.65	.....	.....	3.95	6.58	4.84	6.17	.....	.....
21	.....	.....	.....	.....	4.62	6.69	4.45	6.16	.....	.....
22	.....	.....	.....	.....	4.37	6.31	4.65	6.03	.....	.....
23	.....	.....	.....	.....	4.33	8.10	4.44	5.92	.....	.....
24	.....	.....	.....	.....	5.42	9.17	4.48	6.15	.....	.....
25	.....	.....	.....	.....	6.37	9.45	4.52	6.10	.....	.....
26	10.42	.....	.....	.....	6.27	8.62	4.67	6.15	.....	.....
27	8.67	11.24	.....	.....	4.81	7.69	4.59	5.86	.....	.....
28	6.60	11.24	.....	.....	5.50	7.91	4.54	5.88	.....	.....
29	8.63	10.77	.....	.....	5.30	8.55	4.68	6.48	.....	.....
30	8.50	11.00	.....	.....	5.76	7.92	4.50	6.25	.....	.....
31	7.46	11.53	.....	.....	.....	.....	4.42	6.03	.....	.....

15/16-5A2 (*1027, p. 86). O. M. Young. Nonflowing, confined water. Water levels, in feet below land-surface datum, 1946: May 1, 5.06; July 9, 5.75; Sept. 5, 4.67.

15/16-6A1 (*1027, p. 86). M. E. Gerow. Flowing artesian water. Measuring point (2) beginning Nov. 20, 1946; top of threaded lip of outside faucet at well house, 1.50 feet above land-surface datum. Reference bench mark, top of concrete foundation of pumphouse at southwest corner, a chiseled square, 2,860.57 feet above mean sea level. Land-surface datum is 2,860 feet above mean sea level.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	15.5	Apr. 20	14	July 21	6	Nov. 14	a 7.8
31	15.5	May 1	a 14	Aug. 1	7	15	a 8.28
Feb. 10	14	10	12	12	6.5	20	a 9.35
20	14.5	20	12	21	6	21	a 9.73
28	14.5	31	11	Sept. 2	8	22	a 10.08
Mar. 10	14.5	June 12	10.5	5	a 11	Dec. 1	11
20	15	21	10	13	7	10	11.5
30	14.5	July 1	9.5	21	9	22	11.5
Apr. 10	14	10	9.2	Oct. 8	7	31	11.5

a By Geological Survey.

15/16-6A2 (*1027, p. 87). Tom Smith. Flowing artesian water. Land-surface datum is 2,857.53 feet above mean sea level. Water levels, in feet above land-surface datum, 1946: May 1, 17.0; July 9, 13.0; Sept. 5, 13.0; Nov. 14, 11.0.

15/16-6A3 (*1027, p. 87). George Whiteman. Flowing artesian water. Reference bench mark, concrete floor of boiler room at south end, at northeast corner of opening in floor, 2,863.76 feet above mean sea level. Land-surface datum is 2,863.76 feet above mean sea level. Water levels, in feet above land-surface datum, 1946: May 1, 8.8; July 9, 6.5; Sept. 5, 5.5; Nov. 14, 3.2.

15/16-6A4 (*1027, p. 87). William Mackay. Flowing artesian water. Reference bench mark, top of 1-inch plug in well casing, 2,866.34 feet above mean sea level. Land-surface datum is 2,865.40 feet above mean sea level.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	10.60	Jan. 28	8.70	Feb. 24	8.95	Sept. 20	3.5
2	10.30	29	8.65	25	7.95	29	1.6
3	10.00	30	8.70	26	8.20	30	1.8
4	9.90	31	8.75	27	8.00	Oct. 1	.10
5	10.25	Feb. 1	9.10	28	8.00	9	1.1
6	10.25	2	9.80	Mar. 1	8.05	10	1.2
7	10.25	3	9.75	2	7.25	11	1.2
8	10.30	4	8.65	3	9.05	12	1.9
9	10.35	5	8.35	4	8.65	13	1.6
10	9.50	6	8.00	5	8.60	14	1.9
11	10.00	7	8.00	6	8.50	27	1.7
12	10.30	8	8.85	7	8.60	28	1.4
13	10.45	9	8.90	8	8.75	29	1.2
14	9.35	10	9.00	9	8.75	30	.9
15	9.40	11	8.65	10	9.15	Nov. 2	.10
16	10.35	12	8.00	May 1	a 6.5	3	1.2
17	10.05	13	7.95	July 9	a 4.5	4	.5
18	9.40	14	7.65	Sept. 1	2.2	5	.9
19	10.40	15	7.75	2	2.5	6	.8
20	9.60	16	8.60	3	2.8	7	1.4
21	9.40	17	8.80	4	2.7	8	1.2
22	9.30	18	8.00	5	3.7	9	.10
23	10.00	19	8.30	6	3.2	10	1.5
24	10.30	20	8.25	7	3.8	11	1.5
25	8.35	21	8.30	8	4.7	12	1.2
26	8.30	22	8.40	9	3.9	14	a 1.2
27	8.35	23	9.00	10	3.1	22	a 2.7

a By Geological Survey.

Harney County

Harney Basin subprovince

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; 1020, p. 41; 1027, p. 88). Frank Whiting. Taps confined water in Danforth formation. Water level, in feet below land-surface datum, 1946: July 11, 10.75, pumping level.

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; 1020, p. 41; 1027, p. 88). Harney County. Permanent observation well. Taps shallow water table. Water level, in feet below land-surface datum, 1946: July 11, 5.17.

23/31-14A3 (*777, p. 151; *817, p. 245; 845, p. 406; 886, p. 618; 910, p. 19; 940, p. 17; *948, p. 16; 990, p. 20; 1020, p. 41; 1027, p. 88). Harney County. Permanent observation well. Taps shallow water table. Water level, in feet below land-surface datum, 1946: July 11, 8.25.

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; 1020, p. 41; 1027, p. 88). Harney County. Permanent observation well. Taps shallow water table. Water level, in feet below land-surface datum, 1946: July 11, 5.40.

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; 1020, p. 41; 1027, p. 88). U. S. 109. Harney County. Permanent observation well. Taps shallow water table.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by Newton Hotchkiss, observer)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	6.22	Mar. 28	4.92	July 7	2.14	Oct. 6	6.38
13	6.16	Apr. 7	4.41	14	2.54	13	6.46
20	6.18	14	3.94	21	3.05	20	6.54
27	6.12	21	3.51	28	3.52	27	6.61
28	6.12	28	3.07	Aug. 4	4.28	Nov. 3	6.67
Feb. 3	6.15	May 5	2.81	11	4.78	10	6.72
10	6.18	12	2.58	18	5.05	17	6.74
17	6.25	26	1.94	25	5.40	24	6.69
24	5.95	28	1.92	28	5.49	29	6.63
26	5.61	June 2	1.96	Sept. 1	5.64	Dec. 8	6.44
Mar. 3	5.00	9	2.05	8	5.84	15	6.36
10	5.17	16	1.71	15	6.00	22	6.35
17	5.14	23	1.59	22	6.15	28	6.35
24	5.09	28	1.66	28	6.26		

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; 1020, p. 42; 1027, p. 89). Harney Branch Experiment Station. Taps shallow water table. Water level, in feet below land-surface datum, 1946: July 11, 1.48, affected by recent irrigation.

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; 1020, p. 42; 1027, p. 89). Harney Branch Experiment Station. Taps confined water in deep valley fill. Water level, in feet below land-surface datum, 1946: July 11, 23.70, recovering.

23/32-7Q3 (*817, p. 246; 845, p. 407; 886, p. 618; 910, p. 20; 940, p. 18; *948, p. 17; 990, p. 21; 1020, p. 42; 1027, p. 89). Harney Branch Experiment Station. Taps shallow water table. Water level, in feet below land-surface datum, 1946: July 11, 5.32.

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; 1020, p. 42; 1027, p. 89). Harney County. Permanent observation well. Taps shallow water table. Water level, in feet below land-surface datum, 1946: July 11, 11.59.

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; 1020, p. 42; 1027, p. 89). Harney County. Permanent observation well. Taps shallow water table. Water level, in feet below land-surface datum, 1946: July 11, 7.57.

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; 1020, p. 42; 1027, p. 89). Harney County. Permanent observation well. Taps shallow water table. Well destroyed; measurements discontinued.

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; 1020, p. 42; 1027, p. 89). Soil Conservation Service. Taps confined water. Water level, in feet below land-surface datum, 1946: July 12, 48.68.

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; 1020, p. 42; 1027, p. 89). Soil Conservation Service. Taps confined water. No measurements made in 1946.

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; 1020, p. 42; 1027, p. 90). H. M. Parks. Taps confined water. Water level, in feet below land-surface datum, 1946: July 12, 41.64.

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; 1020, p. 42; 1027, p. 90). H. M. Parks. Taps confined water. No measurements made in 1946.

27/17-22R2 (*845, p. 406; *910, p. 20; 940, p. 19; 948, p. 18; 990, p. 22; 1020, p. 42; 1027, p. 90). W. D. Collins. Taps water table. Water level, in feet below land-surface datum, 1946: July 12, 28.01.

27/18-6E2 (*910, p. 20; 940, p. 19; *948, p. 18; 990, p. 22; 1020, p. 42; 1027, p. 90). W. D. Collins. Taps water table. Water level, in feet below land-surface datum, 1946: July 12, 23.32.

27/18-7N1 (*845, p. 406; 886, p. 617; 910, p. 20; 940, p. 19; *948, p. 18; 990, p. 22; 1020, p. 42; 1027, p. 90). M. S. Buchanan. Taps water table. Water level, in feet below land-surface datum, 1946: July 12, 34.81, recovering.

36/21-6B1 (*940, p. 19; *948, p. 18; 1020, p. 42; 1027, p. 90). C. W. E. Jennings. Taps water table. Water level, in feet below land-surface datum, 1946: July 11, 13.77.

Lane County

Willamette Valley subprovince

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; 1020, p. 43; 1027, p. 90). Junction City. Taps water in gravel. Measurements by J. Fay Miller, local observer.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	4.5	Apr. 27	6.42	July 13	8.42	Sept. 24	a 9.78
9	4.57	May 4	6.46	20	8.63	28	9.91
16	4.62	11	6.49	27	8.81	Oct. 5	9.82
23	4.81	18	6.56	Aug. 3	8.92	12	9.78
Mar. 2	4.84	25	6.64	10	9.11	19	9.71
9	4.88	June 8	6.93	17	9.30	23	9.90
16	4.97	15	7.18	24	9.45	26	9.63
23	5.11	22	7.46	31	9.62	Dec. 7	5.43
30	5.21	29	7.68	Sept. 7	9.68	14	5.21
Apr. 6	5.54	July 3	a 7.66	14	9.73	21	5.28
13	5.78	6	8.21	21	9.82	28	5.42
20	6.12						

a By Geological Survey.

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; 1020, p. 43; 1027, p. 90). Leo Sidwell. Taps water in young alluvium. Water levels, in feet below land-surface datum, 1946: July 2, 10.72; Sept. 24, 11.52; Oct. 22, 11.40.

Linn County

Willamette Valley subprovince

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; 1020, p. 43; 1027, p. 90). Henry Hoefer. Taps water in gravel. Water levels, in feet below land-surface datum, 1946: July 3, 20.38; Sept. 26, 23.24.

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; 1020, p. 43; 1027, p. 91). Oregon Agricultural Experiment Station, East Farm. Taps water in old (?) alluvium. No measurements made in 1946.

12/2W-14E1 (*940, p. 20; *948, p. 18; 990, p. 22; 1020, p. 43; 1027, p. 91). Sigurd H. Lanstrom. Taps water in alluvium. Water levels, in feet below land-surface datum, 1946: July 2, 8.20; Sept. 24, 9.17.

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; 1020, p. 43; 1027, p. 91). J. H. Swatzka. Taps water in old alluvium. Water levels, in feet below land-surface datum, 1946: July 2, 16.00, pumping; Sept. 24, 17.89; Oct. 24, 16.25.

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; 1020, p. 43; 1027, p. 91). Keeney School district 51. Taps water in old alluvium. Water level, in feet below land-surface datum, 1946: July 2, 5.84; Well destroyed; measurements discontinued.

Marion County

Willamette Valley subprovince

4/1W-2C1 (*845, p. 412; 886, p. 623; *890, p. 149; *910, p. 25; 940, p. 20; *948, p. 19; 990, p. 23; 1020, p. 43; 1027, p. 91). W. F. Keil. Taps water in valley fill. Water levels, in feet below land-surface datum, 1946: July 2, 15.54; Nov. 1, 11.55.

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; 1020, p. 43; 1027, p. 91). W. J. Gering. Taps water in young alluvium. Water levels, in feet below land-surface datum, 1946: July 2, 13.98; Sept. 26, 15.94; Oct. 21, 16.37.

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; 1020, p. 43; 1027, p. 91). Johnson School. Taps water in valley fill. Water levels, in feet below land-surface datum, 1946: July 2, 12.98; Sept. 26, 16.80; Oct. 21, 16.70.

5/2W-25M1 (*845, p. 412; 886, p. 623; *890, p. 153; 910, p. 25; 940, p. 20; *948, p. 19; 990, p. 23; 1020, p. 44; 1027, p. 91). Agricultural Research Corporation (Sam H. Brown). Taps confined water in sand and gravel. Water levels, in feet below land-surface datum, 1946: Sept. 26, 22.54; Oct. 21, 22.52.

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; 1020, p. 44; 1027, p. 91). Gideon E. Stolz. Taps water in gravel and cobbles. Water level, in feet below land-surface datum, 1946: Oct. 30, 27.6.

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; 1020, p. 44; 1027, p. 91). Fred Lucht. Taps water in gravel. Water levels, in feet below land-surface datum, 1946: July 2, 7.66; Sept. 26, 12.69.

Multnomah County

Willamette Valley subprovince

1N/1-34N1 (*940, p. 20; *948, p. 19; 990, p. 23; 1020, p. 44; 1027, p. 91). U. S. 107. Weisfield & Goldberg. Taps confined water in alluvium.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	29.35	Apr. 2	29.70	July 1	25.48	Nov. 4	30.61
31	29.24	30	27.47	Sept. 5	30.84	Dec. 2	29.89
Mar. 1	29.96	June 3	26.52	Oct. 1	31.17		

Umatilla County--Walla Walla Basin

Walla Walla subprovince

5N/35-101 (*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; 1020, p. 44; 1027, p. 92). John Clark. Taps water table.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	27.00	May 18	20.82	Aug. 22	a 25.19	Nov. 25	19.22
Mar. 16	26.80	June 25	21.19	Sept. 20	24.31	Dec. 22	13.78
Apr. 19	20.67	July 19	a 25.46	Oct. 21	24.09		

a Pumping.

5N/35-201 (*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; 1020, p. 44; 1027, p. 92). E. J. McSherry. Taps water table.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	17.80	May 18	13.72	Aug. 22	12.72	Nov. 25	17.03
Mar. 16	17.62	June 25	14.29	Sept. 20	16.72	Dec. 22	18.79
Apr. 19	17.02	July 19	13.99	Oct. 21	17.48		

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; 1020, p. 44; 1027, p. 92). J. M. Morse Estate. Taps water table.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	36.92	May 18	17.88	Aug. 22	16.43	Nov. 25	34.16
Mar. 16	35.53	June 25	16.57	Sept. 20	19.05	Dec. 22	34.36
Apr. 19	28.13	July 19	18.13	Oct. 21	28.44		

6N/35-13R1 (*777, p. 155; *817, p. 251; 840, p. 343; 845, p. 408; 886, p. 619; 910, p. 22; 940, p. 21; *948, p. 20; 990, p. 24; 1020, p. 44; 1027, p. 92). M. O. Beauchamp. Taps water table.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	7.12	May 18	5.50	Aug. 22	5.43	Nov. 25	6.65
Mar. 14	6.48	June 25	4.75	Sept. 20	6.30	Dec. 22	5.65
Apr. 19	5.86	July 19	4.23	Oct. 21	6.80		

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; 1020, p. 44; 1027, p. 92). Conrad Miller. Taps water table.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	9.15	May 18	8.33	Aug. 22	6.83	Nov. 25	6.99
Mar. 16	9.58	June 26	7.51	Sept. 20	6.62	Dec. 22	7.51
Apr. 19	8.98	July 19	8.46	Oct. 21	8.80		

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. 20; 990, p. 24; 1020, p. 44; 1027, p. 92). McBride. Taps water table.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	4.57	May 18	a 21.12	Aug. 22	6.20	Nov. 25	5.16
Mar. 16	5.43	June 26	2.01	Sept. 20	7.85	Dec. 22	4.82
Apr. 19	4.49	July 19	2.34	Oct. 21	5.62		

a Pumping.

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; 1020, p. 46; 1027, p. 92). R. P. Lile. Taps water table.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	23.90	May 20	28.36	Aug. 22	34.48	Nov. 25	30.58
Mar. 14	34.19	June 25	25.54	Sept. 20	35.32	Dec. 22	29.38
Apr. 19	29.46	July 19	26.15	Oct. 21	31.86		

6N/35-21H1 (*777, p. 156; *817, p. 252; 840, p. 343; 845, p. 408; 886, p. 620; 910, p. 22; 940, p. 22; *948, p. 21; 990, p. 24; 1020, p. 46; 1027, p. 93). Mr. Behnke. Taps water table. Measurements discontinued.

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; 1020, p. 46; 1027, p. 93). William Fomerlingin. Taps water table.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 20	32.10	May 18	32.17	Aug. 22	31.38
Mar. 16	32.26	June 27	37.76	Sept. 20	31.15
Apr. 19	32.07	July 19	33.39	Oct. 21	31.79
				Nov. 25	32.62

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; 1020, p. 46; 1027, p. 93). C. B. Miller. Taps water table.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 20	11.63	May 18	a 26.30	Aug. 22	a 23.38
Mar. 16	11.01	June 25	a 16.86	Sept. 20	13.72
Apr. 19	10.47	July 19	a 17.71	Oct. 21	15.30
				Nov. 25	10.14
				Dec. 22	9.88

a Pumping.

6N/35-26C2 (*777, p. 157; *817, p. 252; 840, p. 344; *845, p. 409; 886, p. 620; 910, p. 22; 940, p. 22; *948, p. 21; 990, p. 25; 1020, p. 46; 1027, p. 93). Earl Ransom. Taps water table.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Apr. 19	19.67	July 19	a 16.92	Sept. 20	17.01
May 18	12.30	Aug. 22	19.07	Oct. 21	22.04
June 26	a 14.19			Nov. 26	17.44
				Dec. 22	18.86

a Pumping.

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; 1020, p. 46; 1027, p. 93). W. J. Rand. Taps water table.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 16	12.03	June 29	8.98	Sept. 20	10.27
Apr. 19	10.48	July 19	9.43	Oct. 21	9.81
May 18	10.53	Aug. 22	10.96	Nov. 25	10.72
				Dec. 22	11.06

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; 1020, p. 46; 1027, p. 93). Lottie McKnight. Taps water table.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 20	24.43	May 18	10.91	Aug. 22	19.23
Mar. 14	21.90	June 25	7.63	Sept. 20	14.79
Apr. 19	17.36	July 19	11.43	Oct. 21	10.79
				Nov. 25	13.53
				Dec. 22	17.35

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; 1020, p. 46; 1027, p. 94). Thad Shepherd. Taps water table.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 20	21.29	May 18	15.75	Aug. 22	21.76
Mar. 14	18.09	June 25	11.10	Sept. 20	23.45
Apr. 19	20.72	July 19	15.19	Oct. 21	20.85
				Nov. 25	14.64
				Dec. 22	15.36

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; 1020, p. 46; 1027, p. 94). Alpha Reese. Taps water table.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 20	51.45	May 18	24.74	Aug. 22	a 47.87
Mar. 16	49.68	June 25	20.59	Sept. 20	30.59
Apr. 19	46.18	July 19	32.97	Oct. 21	44.74
				Nov. 25	47.38
				Dec. 22	48.37

a Pumping.

6N/35-36C1 (*777, p. 159; *817, p. 254; 840, p. 345; 845, p. 410; 886, p. 622; 910, p. 24; 940, p. 24; *948, p. 22; 990, p. 26; 1020, p. 45; 1027, p. 94). Mr. Redfern. Taps water table.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	46.35	May 18	13.10	Aug. 22	35.29	Nov. 25	20.92
Mar. 16	38.10	June 25	22.76	Sept. 20	34.73	Dec. 22	12.91
Apr. 19	24.12	July 19	31.59	Oct. 21	37.73		

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; 1020, p. 45; 1027, p. 94). U. S. 108. Walter Hermann. Taps water table.

Water level, in feet below land-surface datum, 1946

(From float-gage readings by owner)

Jan. 2	28.10	Mar. 26	36.71	June 25	11.24	Oct. 21	a 28.07
3	25.76	28	36.79	28	11.66	22	28.14
5	22.99	Apr. 2	36.76	July 2	12.50	25	28.26
7	21.51	9	37.18	7	14.14	27	28.01
9	21.23	12	37.47	11	14.45	28	27.79
10	21.51	16	37.26	15	15.37	Nov. 2	25.00
16	25.82	19 a	36.42	18	16.05	6	24.03
18	27.26	22	34.13	19 a	16.55	11	23.16
21	28.92	25	28.56	23	17.20	16	22.63
23	29.83	28	24.05	27	19.13	17	22.57
25	30.45	May 3	17.50	29	19.82	19	22.62
28	30.79	5	16.52	Aug. 4	21.86	25	21.54
Feb. 3	32.97	9	14.68	8	22.65	25 a	21.53
10	35.61	12	13.74	12	23.29	29	19.79
13	36.58	16	12.61	16	22.98	Dec. 6	17.47
15	36.84	18 a	11.86	19	23.21	8	17.40
16	37.31	19	11.59	22 a	23.33	10	17.51
20 a	38.00	22	10.67	26	23.49	12	17.64
24	38.07	27	10.33	28	23.72	14	17.00
26	37.84	29	10.77	Sept. 3	23.31	16	14.71
27	37.90	June 1	11.05	5	22.54	17	13.76
Mar. 6	38.15	3	10.80	15	21.71	18	13.03
7	38.27	7	10.35	18	21.79	19	12.65
11	38.52	9	10.00	20 a	22.12	20	12.45
13	37.90	13	9.94	27	24.99	22 a	12.12
16 a	37.30	15	9.66	Oct. 2	26.44	23	12.11
16	37.32	18	9.51	9	26.80	26	11.85
19	36.70	22	10.64	13	26.70	28	11.83
25	36.71	25 a	11.28				

a By W. C. Mason, watermaster, District 5.

Union County--Grande Ronde Valley

Grande Ronde subprovince

1/39-17L1 (*910, p. 21; 940, p. 24; *948, p. 23; 990, p. 27; 1020, p. 45; 1027, p. 94). A. F. Furman. Taps water table. Water level, in feet below land-surface datum, 1946: July 9, 20.20.

3/38-10B1 (*817, p. 242; 845, p. 406; 886, p. 617; 910, p. 21; 940, p. 24; *948, p. 23; 990, p. 27; 1020, p. 45; 1027, p. 95). County of Union. Taps water table. Water level, in feet below land-surface datum, 1946: July 9, 6.45.

3/38-25B1 (*817, p. 242; 845, p. 406; 886, p. 617; 910, p. 21; 940, p. 24; *948, p. 23; 990, p. 27; 1020, p. 45; 1027, p. 95). County of Union. Taps water table. Water level, in feet below land-surface datum, 1946: July 9, 7.47.

Yamhill County

Willamette Valley subprovince

5/SW-13E1 (*777, p. 146; *817, p. 257; 845, p. 412; 886, p. 623; *890, p. 150; 940, p. 25; *948, p. 23; 990, p. 27; 1020, p. 45; 1027, p. 95). George Fuller. Taps confined water in gravel and sand. Water levels, in feet below land-surface datum, 1946: July 3, 15.91; Sept. 26, 21.20.

UTAH

By W. B. Nelson and R. G. Butler

PROGRAM OF WORK

Ground-water investigations in Utah, in cooperation with the State engineer, have been in progress since 1935. The 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 that is possible in those areas.

The relative amounts of water stored from year to year in underground reservoirs may be determined from the measurements 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 showing the periods and amounts of natural recharge, the effects of natural and artificial discharge, the direction of movement of the water, and in many other ways. The usefulness of the measurements increases, in general, with the length of the record. Long-period records are especially valuable in the detailed studies of the source, movement, and disposal of ground water in individual basins and the State-wide program 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 measurements in 42 ground-water areas, comprising practically all of the regions in which wells have been developed in the State. In each of these areas the selected observation wells are measured periodically with a steel tape, or, in the case of a

flowing well, with a mercury manometer. In many of the areas one or more wells are equipped with continuous recording water-stage or pressure gages which are serviced once a week. During 1946 a total of 2,217 measurements were made in 688 wells and 42 water-stage and pressure recorders were maintained.

Two other agencies assisted the Federal Geological Survey in making measurements in observation wells included in the State-wide program. Measurements of water levels were made by Salt Lake City Corporation in Salt Lake County and by the Bureau of Reclamation, United States Department of the Interior, in Wasatch County. Measurements by these agencies are indicated in the tabulation.

During 1946 detailed studies were in progress in the East Shore area in Davis and Weber Counties. The State engineer published the following reports in 1946: P. E. Dennis, G. B. Maxey, and H. E. Thomas, Ground water in Pavant Valley, Millard County, Utah: Technical Publication No. 3, 96 pp.; H. E. Thomas, Ground water-level fluctuations in Utah, 1936-45: Twenty-Fifth Biennial Report of the State engineer, pp. 91-238.

The following table shows by counties and areas within the counties, the number of observation wells in Utah, the number that have been discontinued, the number of automatic water-stage and pressure recorders in use, and the number of periodic measurements included in the report.

Distribution, by counties and areas, of observation wells in Utah in 1946					
County and ground-water area (Numbers in parentheses correspond to areas shown in Water-Supply Paper 1027, p. 98).	Number of observa- tion wells		Number of periodic measure- ments	Wells with re- cording gages	
	During 1946	Discontinued during year		Through- out year	Part of year
Beaver					
Beaver Valley (4)	6	0	22	0	0
Escalante Valley (1)	27	3	42	0	1
Box Elder					
East Shore area (15)	13	2	50	1	0
Lower Bear River Valley (18)	8	0	15	0	0
Mantua Valley (16)	2	0	4	0	0
Blue Spring Valley (19)	3	0	3	0	0
Curlew Valley (20)	3	0	3	0	0
Grouse Creek Valley (23)	3	0	3	0	0
Park Valley (22)	6	0	6	0	0
Raft River Valley (21)	3	0	3	0	0
Cache					
Cache Valley (17)	19	1	29	1	0
Carbon	1	0	1	0	0
Davis					
East Shore area (15)					
Layton District	11	1	34	1	0
Bountiful District	78	8	637	3	10

Distribution, by counties and areas, of observation wells
in Utah in 1946--Continued

County and ground water area (Numbers in parentheses correspond to areas shown in Water-Supply Paper 1027, p. 98).	Number of observa- tion wells		Number of periodic measure- ments	Wells with re- cording gages	
	During 1946	Discontinued during year		Through- out year	Part of year
Duchesne					
Uinta Basin (31)	21	1	35	0	1
Garfield					
East Sevier Valley (26)	5	0	9	0	0
Upper Sevier Valley (25)	4	1	7	0	0
Grand					
Colorado River area (32)					
Courthouse Syncline	2	0	2	0	0
Green River Desert	1	0	1	0	0
Moab-Spanish Valley	2	0	2	0	0
Iron					
Cedar City Valley (2)					
Coal Creek District	6	0	20	1	0
Knoch District	4	0	8	0	0
Hamilton Fort District	2	0	3	0	0
Iron Springs District	5	0	10	0	0
Kanarraville District	3	0	6	0	0
Midvalley District	5	0	10	0	0
Queatchupah District	3	0	6	0	0
Rush Lake District	3	0	6	0	0
Escalante Valley (1)	45	2	184	0	1
Parowan Valley (3)					
Buckhorn District	3	0	5	0	0
Little Salt Lake District	7	2	11	0	0
Paragonah District	2	0	3	0	0
Parowan District	6	0	9	0	0
Summit District	1	0	2	0	0
Juab					
Juab Valley (8)					
Chicken Creek District	2	0	4	0	0
Salt Creek District	6	0	12	0	0
Snake Valley (7)	5	0	4	0	0
Millard					
Escalante Valley (1)	4	0	8	0	0
Pavant Valley (5)					
Fillmore District	0	0	0	0	0
Flowell District	4	2	0	1	1
Hatton District	6	0	11	0	0
Kanosh District	4	0	5	0	0
Meadow District	2	0	4	0	0
Pavant District	4	0	7	0	0
Sevier Desert (6)	19	0	40	0	0
Snake Valley (7)	8	1	7	0	0
Morgan					
Morgan Valley (37)	12	0	18	0	0
Piute					
Grass Valley (28)	2	0	3	0	0
Upper Sevier Valley (26)	2	1	4	0	0
Rich					
Bear Lake Valley (40)	12	0	12	0	0
Upper Bear River Valley (39)	8	1	7	0	0
Salt Lake					
Jordan Valley (14)	34	0	141	2	1
San Juan					
San Juan River area (33)					
Moab-Spanish Valley	1	0	2	0	0
Church Rock Syncline	6	0	6	0	0
LaSal Valley	2	0	2	0	0
Sage Plain	11	0	49	0	0

Distribution, by counties and areas, of observation wells
in Utah in 1946--Continued

County and ground-water area (Numbers in parentheses cor- respond to areas shown in Water-Supply Paper 1027, p. 98).	Number of observa- tion wells		Number of periodic measure- ments	Wells with re- cording gages	
	During 1946	Discontinued during year		Through- out year	Part of year
Sanpete					
Central Sevier Valley (29)	4	0	7	0	0
Sanpete Valley (30)	24	0	43	1	0
Sevier					
Central Sevier Valley (29)	12	0	20	1	0
Grass Valley (28)	3	0	5	0	0
Summit					
Weber Canyon	1	0	2	0	0
Kimball Valley (36)	2	0	3	0	0
Rhodes Valley (35)	8	0	14	0	0
Tooele					
Rush Valley (12)	10	0	17	0	0
Salt Lake Desert	2	0	0	0	0
Tooele Valley (13)					
Burmester District	7	0	12	0	0
Erda District	6	0	137	1	1
Grantsville District	6	0	10	1	0
Lake Point District	3	0	5	0	0
Marshall District	2	0	4	0	0
Uintah					
Uinta Basin (31)	9	2	5	0	0
Utah					
Cedar Valley (11)	2	0	3	0	0
Goshen Valley (9)	2	0	4	0	0
Utah Lake Valley (10)					
North Utah Basin	22	0	35	2	0
South Utah Basin	16	0	31	0	1
Wasatch					
Heber Valley (34)	7	0	8	3	0
Washington					
Escalante Valley (1)	5	1	21	0	0
Virgin River area (24)	1	0	2	0	0
Wayne					
Fremont Valley (27)	3	0	5	0	0
Weber					
East Shore area (15)	59	10	258	1	3
Ogden Valley (38)	2	8	0	2	0
	688	20	2,217	22	20

FLUCTUATIONS OF WATER LEVEL

Utah lies within three ground-water provinces as outlined by Meinzer;^{1/} the Southwestern Bolson, the Montana-Arizona plateau, and the Northern Rocky Mountains province, which are approximately co-extensive with the Utah portions of the Basin and Range, Colorado plateau, and Middle Rocky Mountains physiographic provinces as outlined by Fenneman.^{2/} The characteristics peculiar to each of these ground-water provinces have been described in an

^{1/} Meinzer, O. E., The occurrence of ground water in the United States: U. S. Geol. Survey Water-Supply Paper 489, pp. 309-314, 1923.
^{2/} Fenneman, N. M., Physical divisions of the United States: U. S. Geol. Survey map, 1: 7,000,000, 1930.

earlier report.^{3/} Each of the three provinces has been divided into several ground-water areas, and for each area representative observation wells have been selected to show the change in water levels each year. The net rise or decline of water levels is the mathematical average of the changes in water levels in the selected wells making up a group and may be considerably different from the changes in water levels in individual wells in the area. A summary of the water levels for the period 1935-45 is given in an earlier report.^{4/}

Water levels in all areas under observation, except one in the Montana-Arizona Plateau province, showed a slight decline during 1946. The decline varied from 0.2 foot in Grass Valley to 3.3 feet in Sanpete Valley. East Sevier Valley was the only area that showed a net rise and it may be attributed to the heavy storm which occurred during October and November. The observation wells in the area are mostly dug wells of shallow depth which may respond quickly to local conditions.

The Northern Rocky Mountains province showed a decline during the year in all areas except the Bear Lake Valley, which showed a rise of 1.4 feet. The decline varied from 0.6 foot in Heber and Morgan Valleys to 1.5 feet in the Upper Bear River Valley.

Average changes in water levels in observation wells in the Southwestern Bolson province ranged from +1.3 feet in Lower Bear River and Grouse Creek Valleys to -2.2 feet in Snake Valley. Of the 25 areas under observation, water levels declined in 17 and rose in 7.

Stream discharge in the northeastern part of the State was above average, while in the rest of the State it was below average with the greatest deficiencies in the southeastern part. The first nine months of the year were extremely dry. The heavy precipitation in October, November, and December swelled the annual total for the State to 126 percent of normal, ranking this year as the sixth wettest year since 1891. The beneficial effect of this heavy precipitation late in the year, however, was not apparent in most ground-water areas in December, when most water-level measurements were made.

^{3/} 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.

^{4/} Thomas, H. E. and Nelson, W. B., Utah, Water levels and artesian pressure in observation wells in the United States in 1945, Pt. 5, Northwestern States: U. S. Geol. Survey Water-Supply Paper 1027, pp. 101-102.

WELL-NUMBERING SYSTEM

For a description of the well-numbering system in use in Utah, see Water-Supply Paper 910, p. 38.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

The State claim or application number is that used in the State engineer's records. The claim numbers are for wells that were used prior to the passage of the ground-water law in March 1935, and the application numbers refer to wells used subsequently. Measurements of water levels were made by the Geological Survey, except as noted, by tape or mercury manometer. Wells that were found flowing when visited were closed 10 minutes prior to measurement of the pressure head.

Beaver County - Beaver Valley

(C-28-7)16aaa 1 (*940, p. 37; 948, p. 38; *990, p. 39; 1020, p. 61; 1027, p. 105). Water level, in feet below land-surface datum, 1946: Dec. 8, 53.95.

(C-28-7)21daa 1 (*817, p. 417; *840, p. 559; 845, p. 562; *886, p. 773; 910, p. 40; 940, p. 37; 948, p. 38; 990, p. 39; 1020, p. 61; 1027, p. 105). E. F. Baldwin. Water levels, in feet below land-surface datum, 1946: Mar. 14, 21.00; Dec. 8, 12.92.

(C-29-7)3cbb 1 (*846, p. 564; *886, p. 776; 910, p. 46; 940, p. 37; 948, p. 38; *990, p. 39; 1020, p. 61; 1027, p. 105). Harry Hodges. Water levels, in feet below land-surface datum, 1946: Mar. 14, 16.48; Dec. 9, 17.63.

(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; 1020, p. 61; 1027, p. 105). State claim 6919. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 14, 22.91; Dec. 9, 21.02.

(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; 1020, p. 61; 1027, p. 105). J. A. Nower.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	16.90	Apr. 27	17.30	July 26	15.30	Oct. 29	17.60
Feb. 27	16.80	May 27	14.41	Aug. 27	16.40	Nov. 28	18.38
Mar. 14	17.04	June 26	13.90	Sept. 27	17.40	Dec. 9	18.00
27	17.20						

(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; 1020, p. 61; 1027, p. 105). State claim 13115. Beaver School District. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 14, 12.2; Dec. 9, 12.8.

Beaver County - Escalante Valley ^{5/}

(C-26-10)32cad 1 (*817, p. 416; *840, p. 559; 845, p. 562; 886, p. 773; 910, p. 40; 940, p. 37; 948, p. 38; 990, p. 40; 1020, p. 61; 1027, p. 105). State claim 10257. Burton Smithson. Water levels, in feet below land-surface datum, 1946: Mar. 14, 12.10; Dec. 9, 11.27.

(C-27-10)18da (*940, p. 37; 948, p. 38; *990, p. 40; 1020, p. 61; 1027, p. 105). Hazel Cannon. Water levels, in feet below land-surface datum, 1946: Mar. 27, 12.68; Dec. 9, 13.52.

(C-28-10)8cdd 1 (*910, p. 40; *940, p. 38; 948, p. 39; *990, p. 41; 1020, p. 62; 1027, p. 106). J. R. Murdock. Water levels, in feet below land-surface datum, 1946: Mar. 15, 1.15; Dec. 9, 1.70.

(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; 1020, p. 62; 1027, p. 106). State claim 6564. J. A. Kirk and Sam Cline. Water level, in feet below land-surface datum, 1946: Dec. 10, 4.28.

(C-28-10)29cdc 1 (*845, p. 563; 886, p. 774; 910, p. 42, *940, p. 40; 948, p. 41; *990, p. 43; 1020, p. 62; 1027, p. 106). State application 11742. J. H. Hanlon. No measurements made in 1946.

(C-28-10)30acd 1 (*817, p. 418; 840, p. 560; 845, p. 563; 886, p. 774; 910, p. 42; *940, p. 40; 948, p. 42; 990, p. 43; 1027, p. 107). State claim 15131. State of Utah.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 10	6.25	Mar. 13	6.49	Apr. 14	6.14	May 20	8.64
11	6.24	14	6.54	15	6.19	June 2	8.55
12	6.33	15	6.32	16	6.22	3	8.65
13	6.37	16	6.28	17	6.24	4	8.65
14	6.32	17	6.23	18	6.25	5	8.68
15	6.22	18	6.25	19	6.27	6	8.70
16	6.19	19	6.20	28	6.44	7	8.81
17	6.25	20	6.25	29	6.47	8	8.92
18	6.22	21	6.31	30	7.07	9	9.02
19	6.21	22	6.36	May 1	7.47	13	8.88
20	6.20	28	6.20	2	7.62	14	8.95
21	6.21	29	6.26	3	7.70	15	8.68
22	6.23	30	6.25	4	7.78	16	8.47
23	6.25	31	6.26	5	7.94	17	8.61
24	6.25	Apr. 1	6.28	6	8.08	23	9.31
25	6.29	2	6.25	7	8.08	24	9.45
26	6.34	3	6.31	8	7.94	25	9.28
27	6.36	4	6.28	9	7.93	26	9.03
28	6.38	5	6.26	10	7.92	27	8.87
Mar. 1	6.43	6	6.24	14	7.15	28	9.44
2	6.41	7	6.22	15	7.12	29	9.83
3	6.34	10	6.21	16	8.53	30	10.11
10	6.56	11	6.25	17	8.61	Oct. 10	10.90
11	6.52	12	6.21	18	8.55	Dec. 10	7.86
12	6.58	13	6.17	19	8.77		

5/ For other wells in this valley see pages 93-99, 101-102, and 136-137.

(C-28-10)33aba 2 (*1020, p. 63; 1027, p.107). Duluth Land Co. Water levels, in feet below land-surface datum, 1946: Mar. 15, 19.90; Dec. 9, 18.67.

(C-28-11)22dab 1 (*140, p. 42; 948, p. 43; *990, p. 45; 1020, p. 64; 1027, p. 107). Houston & Goff. Water level, in feet below land-surface datum, 1946: Dec. 10, 32.20.

(C-28-11)36add 1 (*886, p. 776; 910, p. 45; 948, p. 45; *990, p. 46; 1020, p. 64; 1027, p.108). State of Utah. Water levels, in feet below land-surface datum, 1946: Mar. 15, 7.01; Aug. 30, 12.58; Oct. 10, 12.67; Dec. 9, 10.26.

(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; 1020, p. 64; 1027, p. 108). State claim 13116. Duluth Land Co. Water levels, in feet below land-surface datum, 1946: Mar. 15, 27.64; Aug. 30, 29.90; Oct. 10, 30.10; Dec. 10, 30.18.

(C-29-10)7odd 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; 1020, p. 64; 1027, p. 108). State claim 10284. Beaver County. Casing filled. Measurements discontinued.

(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; 1020, p. 64; 1027, p. 108). G. S. Barclay. Water levels, in feet below land-surface datum, 1946: Mar. 15, 44.75; Dec. 9, 44.66.

(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; 1020, p. 65; 1027, p. 108). State claim 10290. Duluth Land Co. Water levels, in feet below land-surface datum, 1946: Mar. 15, 17.50; Dec. 9, 20.20.

(C-29-11)2ddd 1 (*886, p. 779; *910, p. 48; *940, p. 45; 948, p. 47; *990, p. 48; 1020, p. 65; 1027, p. 108). State of Utah. Measurements discontinued.

(C-29-11)4baa 1 (*940, p. 45; 948, p. 47; 990, p. 48; 1020, p. 65; 1027, p. 108). W. H. Child. Water level, in feet below land-surface datum, 1946: Mar. 15, 34.72.

(C-29-11)11cdd 1 (*840, p. 564; 845, p. 566; 886, p. 779; 910, p. 48; 940, p. 46; 948, p. 47; 990, p. 49; 1020, p. 65; 1027, p. 108). State claim 7540. Preston Davis. Water levels, in feet below land-surface datum, 1946: Mar. 15, 17.32; Dec. 9, 18.00.

(C-29-11)20cdd 1 (*886, p. 779; 910, p. 49; 940, p. 47; 948, p. 48; *990, p. 49; 1020, p. 65; 1027, p. 109). Public land. Water levels, in feet below land-surface datum, 1946: Mar. 15, 1.55; Dec. 9, 0.61.

(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; 1020, p. 65; 1027, p. 109). State claim 10667. P. V. Haworth. Water levels, in feet below land-surface datum, 1946: Mar. 15, 25.02; Dec. 9, 25.35.

(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; 1020, p. 65; 1027, p. 109). Public land. Water levels, in feet below land-surface datum, 1946: Mar. 15, 14.22; Dec. 9, 13.82.

(C-29-11)35bcd 1 (*817, p. 422; 910, p. 49; 940, p. 48; 948, p. 48; *990, p. 50; 1020, p. 65; 1027, p. 109). Public land. Water level, in feet below land-surface datum, 1946: Mar. 15, 41.58.

(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; 1027, p. 109). Water level, in feet below land-surface datum, 1946: Mar. 15, 25.90.

(C-30-12)4add 1 (*910, p. 50; 940, p. 48; 948, p. 49; *990, p. 50; 1020, p. 66; 1027, p. 109). T. J. Norris. Water levels, in feet below land-surface datum, 1946: Mar. 15, 109.30; Dec. 10, 109.46.

(C-30-12)11bbbb 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; 1020, p. 66; 1027, p. 109). D. L. Barnes. Water levels, in feet below land-surface datum, 1946: Mar. 5, 31.83; Dec. 10, 31.87.

(C-30-12)31cab 2 (*845, p. 567; 886, p. 781; 910, p. 50; *940, p. 49; 948, p. 50; *990, p. 51; 1020, p. 66, 1027, p. 109). State claim 13455. Corrine Dibkey. Water levels, in feet below land-surface datum, 1946: Mar. 16, 16.75; Dec. 10, 16.77.

(C-30-13)29dcc 1 (*940, p. 49; 948, p. 50; *990, p. 51; 1020, p. 67; 1027, p. 110). C. D. Vaughn. Water level, in feet below land-surface datum, 1946: Dec. 10, 56.11.

(C-30-13)30dcc 1 (*940, p. 49; 948, p. 50; *990, p. 51; 1020, p. 67; 1027, p. 110). Beaver County. Measurements discontinued.

(C-30-13)34bbb 1 (*910, p. 51; 940, p. 49; 948, p. 50; 990, p. 52; 1020, p. 67; 1027, p. 110). J. P. Dinwiddie. Water levels, in feet below land-surface datum, 1946: Mar. 15, 45.87; Dec. 10, 45.98.

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; 1020, p. 67; 1027, p. 110). State claim 11922. Earl Lemon.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	38.15	Apr. 25	37.18	July 29	37.40	Oct. 25	38.08
Feb. 27	38.96	May 20	36.55	Aug. 29	37.18	Nov. 27	38.28
Mar. 20	39.22	June 27	36.72	Sept. 30	37.48	Dec. 10	38.28

(B-7-2)11lda 1 (*817, p. 388; *940, p. 537; 845, p. 568; 886, p. 781; 910, p. 51; 940, p. 50; 948, p. 51; *990, p. 52; 1020, p. 67; 1027, p. 110). State claim 1489. First Savings Bank of Ogden. Water levels, in feet below land-surface datum, 1946: Feb. 27, 19.70; Dec. 10, 19.10.

(B-8-2)11bdc 1 (*817, p. 38, 840, p. 537; 845, p. 568; 886, p. 781; 910, p. 51; 940, p. 50; 948, p. 51; *990, p. 52; 1020, p. 67; 1027, p. 110). State claim 773. J. A. Ward. Water levels, in feet below land-surface datum, 1946: Feb. 25, 49.64; Mar. 20, 50.28; Apr. 25, 49.05; May 20, 45.62. Measurements discontinued.

(B-8-2)11lad 1. State claim 973. Clark. Unused well, diameter 6 feet, depth 52 feet. Measuring point, top of concrete casing, at land surface and 4,314.7 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Feb. 25	30.13	Apr. 25	30.45	Dec. 10	27.53 *
Mar. 20	30.57	May 20	28.55		

(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; 1020, p. 67; 1027, p. 110). State claims 1284 and 8126. Willard Water Co.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	38.20	May 20	30.90	June 27	27.92	Nov. 27	38.20
Feb. 25	38.87	31	30.72	Oct. 25	38.02	Dec. 10	38.50
Apr. 25	35.53	June 14	27.18				

(B-8-2)26cdd 1. State claim 917. A. P. Ward. Irrigation well, diameter 3 inches, depth 124 feet. Measuring point, top of ell, 4.0 feet above land-surface and 4,254.2 feet above mean sea level. Water levels, in feet above land-surface datum, 1946: Mar. 20, 33.4; Dec. 10, 34.0.

(B-9-2)12ccc 1 (*845, p. 568; 886, p. 782; 910, p. 52; 940, p. 51; 948, p. 52; *990, p. 53; 1020, p. 68; 1027, p. 111). State claim 499. G. D. Reeder. Water levels, in feet below land-surface datum, 1946: Feb. 25, 6.13; Dec. 10, 4.35.

(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; 1020, p. 68; 1027, p. 111). State claim 500. G. D. Reeder. Water levels, in feet below land-surface datum, 1946: Feb. 25, 15.28. Measurements discontinued.

(B-9-2)14dac 1 (*817, p. 389; 840, p. 538; 845, p. 568; 886, p. 782; *910, p. 53; 940, p. 51; 948, p. 52; *990, p. 53; 1020, p. 68; 1027, p. 111). State claim 548. W. W. and J. F. Knudsen. Water levels, in feet below land-surface datum, 1946: Feb. 25, 20.32; Dec. 10, 18.67. Correct water level for 1945: Mar. 3, 21.20; Dec. 6, 18.00.

(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; 1020, p. 68; 1027, p. 111). State claim 268. First National Bank of Brigham. Water levels, in feet below land-surface datum, 1946: Feb. 25, 22.18; Dec. 10, 15.02.

(B-8-2)35add 1 (*910, p. 52; 940, p. 50; 948, p. 51; *990, p. 52; 1020, p. 67; 1027, p. 111). M. C. Marsh. Measurements discontinued after Dec. 30.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	21.97	22.55	22.67	20.46	20.26	20.01	20.50	21.17	.....	22.44	22.63
2	.....	21.97	22.57	22.63	20.37	20.27	19.75	20.53	21.20	.....	22.48	22.63
3	22.15	21.98	22.58	22.62	20.29	20.28	19.55	20.57	21.23	.....	22.48	22.64
4	22.16	22.00	22.60	22.58	20.23	20.28	19.66	20.60	21.26	.....	22.51	.....
5	22.14	22.07	22.64	22.54	20.17	20.25	19.75	20.65	21.30	.....	22.51	.....
6	22.16	22.08	22.66	22.51	20.12	20.23	19.83	20.70	.....	.....	.....	.....
7	22.15	22.08	.....	.....	.....	20.20	19.88	20.73	.....	21.99	.....	.....
8	22.12	.....	.....	.....	.....	.....	19.92	20.76	.....	22.00	.....	.....
9	22.11	.....	.....	.....	.....	.....	.....	20.60	.....	22.02	.....	.....
10	22.09	.....	.....	.....	.....	.....	.....	20.52	.....	22.05	.....	.....
11	.....	.....	.....	.....	.....	.....	.....	20.58	.....	22.07	.....	22.64
12	.....	.....	.....	.....	.....	.....	.....	20.66	.....	22.07	.....	22.63
13	.....	.....	.....	.....	.....	.....	.....	20.73	.....	22.11	.....	22.63
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22.63
15	.....	.....	22.80	.....	.....	20.00	.....	20.82	.....	.....	.....	22.62
16	.....	.....	22.82	.....	19.94	19.96	20.15	20.85	.....	.....	.....	22.64
17	.....	.....	22.83	22.00	19.94	19.96	20.15	20.90	.....	.....	.....	22.65
18	.....	22.30	22.83	21.94	19.94	19.92	20.13	20.94	.....	.....	.....	.....
19	.....	22.31	22.83	21.85	19.98	19.91	20.15	20.77	.....	.....	.....	.....
20	.....	22.32	22.84	21.75	20.00	19.91	20.20	20.78	.....	.....	.....	.....
21	21.80	22.34	22.85	21.64	19.99	19.89	20.23	20.84	21.66	.....	.....	.....

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

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
22	21.79	22.37	23.86	21.53	20.02	19.89	20.26	.....	21.70	.....	.....	.....
23	21.80	22.42	.....	21.38	20.08	.....	20.29	.....	21.72	.....	.....	.....
24	21.77	22.44	.....	21.24	.....	.....	.....	.....	21.74	.....	.....	.....
25	21.78	22.46	.....	.....	.....	.....	.....	.....	21.76	.....	.....	.....
26	21.82	.....	.....	.....	.....	.....	.....	.....	21.77	.....	22.57	.....
27	21.82	22.50	.....	.....	.....	.....	.....	.....	21.81	.....	22.58	.....
28	21.81	22.54	.....	.....	.....	.....	.....	.....	.....	.....	22.59	.....
29	.....	.....	.....	20.59	.....	.....	.....	.....	.....	.....	22.59	.....
30	.....	.....	22.69	20.53	.....	.....	20.40	21.09	.....	22.40	22.61	.....
31	21.97	.....	22.68	.....	20.26	.....	20.46	21.12	.....	22.43	.....	.....

(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; 1020, p. 68; 1027, p. 111). State claim 477. F. H. Hansen. Water levels, in feet below land-surface datum, 1946: Feb. 25, 41.20; Dec. 10, 39.56.

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; 1020, p. 68; 1027, p. 111). State claim 8477. Federal Land Bank. Water levels, in feet below land-surface datum, 1946: Feb. 25, 5.85; Dec. 10, 1.92.

(B-10-3)8dcl (*817, p. 389; 840, p. 538; 845, p. 569; 886, p. 783; 910, p. 53; 940, p. 51; 948, p. 52; *990, p. 53; 1020, p. 68; 1027, p. 112). State application 16985. C. A. Gardner. Water levels, in feet below land-surface datum, 1946: Feb. 25, 6.69; Dec. 10, 7.21.

(B-10-3)32aaa 1 (*845, p. 569; 886, p. 783; 910, p. 53; 940, p. 51; 948, p. 52; 990, p. 53; 1020, p. 69; 1027, p. 112). B. E. Stallings. Water levels, in feet below land-surface datum, 1946: Feb. 25, 4.23; Dec. 10, 1.63.

(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; 1020, p. 69; 1027, p. 112). J. A. House. Water levels, in feet below land-surface datum, 1946: Feb. 25, 4.08; Dec. 10, 3.60.

(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; 1020, p. 69; 1027, p. 112). J. A. House. Water levels, in feet below land-surface datum, 1946: Feb. 25, 3.57; Dec. 10, 3.90.

(B-11-4)1laaa 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; 1020, p. 69; 1027, p. 112). State claim 3337. Fred Deininger. Water levels, in feet below land-surface datum, 1946: Feb. 25, 6.73; Dec. 10, 5.11.

(B-12-3)11db 2 (*886, p. 784; 910, p. 54; 940, p. 51; 948, p. 53; *990, p. 54; 1020, p. 69; 1027, p. 112). R. D. McFarlane. Water levels, in feet below land-surface datum, 1946: Feb. 25, 6.14; Dec. 10, 2.40.

(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; 1020, p. 69; 1027, p. 112). State claim 14152. Adolph Harris. Water level, in feet below land-surface datum, 1946: Oct. 24, 114.52.

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; 1020, p. 69; 1027, p. 112). Raymond Jeppesen. Water levels, in feet below land-surface datum, 1946: Mar. 19, 31.07; Dec. 9, 30.01.

(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; 1020, p. 69; 1027, p. 112). C. M. Jeppesen. Water levels, in feet below land-surface datum, 1946: Mar. 19, 22.37; Dec. 9, 22.63.

Box Elder County - West Box Elder areaBlue 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; 1020, p. 69; 1027, p. 112). State claim 3776. R. A. Miller. Water level, in feet below land-surface datum, 1946: Oct. 24, 61.28.

(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; 1020, p. 69; 1027, p. 112). Joseph Aebischur. Water level, in feet below land-surface datum, 1946: Oct. 24, 58.70.

(B-13-6)1cac1(*910, p. 54; 940, p. 51; 948, p. 53; *990, p. 54; 1020, p. 69; 1027, p. 112). Deacon Bros. Water level, in feet below land-surface datum, 1946: Oct. 24, 152.98.

Curlew Valley

(B-12-11)16cdc 1 (previously published as (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; 1020, p. 69; 1027, p. 112). Grazing Service, U. S. Dept. of Interior. Water level, in feet below land-surface datum, 1946: Oct. 24, 8.47.

(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; 1020, p. 69; 1027, p. 112). B. S. Cutler. Water level, in feet below land-surface datum, 1946: Oct. 24, 43.59.

(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; 1020, p. 70; 1027, p. 112). Abe Rose. Water level, in feet below land-surface datum, 1946: Oct. 24, 98.38.

Grouse Creek Valley

(B-10-18)28dca (*886, p. 783; 910, p. 53; 940, p. 51; 948, p. 52; 990, p. 54; 1020, p. 70; 1027, p. 113). 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, 1946: Oct. 24, 120.33.

(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; 1020, p. 70; 1027, p. 113). A. L. Paskett. Water level, in feet below land-surface datum, 1946: Oct. 24, 16.40.

(B-11-18)23bb (*817, p. 391; 886, p. 784; 910, p. 54; 940, p. 51; 948, p. 53; 990, p. 54; 1020, p. 70; 1027, p. 113). Central Pacific Railway Co. Water level, in feet below land-surface datum, 1946: Oct. 24, 16.20.

Park Valley

(B-10-15)26 (*886, p. 783; 910, p. 53; 940, p. 51; 948, p. 52; 990, p. 54; 1020, p. 70; 1027, p. 113). Grazing Service, U. S. Dept. of Interior. Water level, in feet below land-surface datum, 1946: Oct. 24, 95.20.

(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; 1020, p. 70; 1027, p. 113). Albert Hirschle. Water level, in feet below land-surface datum, 1946: Oct. 24, 7.85.

(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; 1020, p. 70; 1027, p. 113). L. G. Carter. Water level, in feet below land-surface datum, 1946: Oct. 24, 13.22.

(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; 1020, p. 70; 1027, p. 113). John Vance. Water level, in feet below land-surface datum, 1946: Oct. 24, 32.30.

(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; 1020, p. 70; 1027, p. 113). J. H. Kunzler. Water level, in feet below land-surface datum, 1946: Oct. 24, 15.21.

(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; 1020, p. 70; 1027, p. 113). W. A. Newman. Water level, in feet below land-surface datum, 1946: Oct. 24, 18.56.

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; 1020, p. 70; 1027, p. 113). M. A. Smith. Water level, in feet below land-surface datum, 1946: Oct. 25, 49.75.

(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; 1020, p. 70; 1027, p. 113). Mrs. C. B. Tracy. Water level, in feet below land-surface datum, 1946: Oct. 25, 21.07.

(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; 1020, p. 70; 1027, p. 113). H. Alberts. Water level, in feet below land-surface datum, 1946: Oct. 24, 3.86.

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; 1020, p. 70; 1027, p. 113). State claim 8135. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 19, 27.88; Dec. 9, 26.03.

(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; 1020, p. 71; 1027, p. 113). O. H. Anderson. Water levels, in feet below land-surface datum, 1946: Mar. 19, 10.12; Dec. 9, 9.25.

(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; 1020, p. 71; 1027, p. 114). State claims 23 and 8136. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 20, 34.47; Dec. 9, 29.08.

(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; 1020, p. 71; 1027, p. 114). State claim 1199. Amalgamated Sugar Co. Water levels, in feet above land-surface datum, 1946: Mar. 19, 14.1; Dec. 9, 16.8.

(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; 1020, p. 71; 1027, p. 114). State claim 5950. Lovenus Olsen. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 19, 8.7; Dec. 9, 11.8.

(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; 1020, p. 71; 1027, p. 114). State claim 18191. L. S. Hill. Started flowing in July. Water levels, in feet with reference to land-surface datum, 1946: Mar. 19, -2.24; Dec. 9, +1.83.

(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; 1020, p. 71; 1027, p. 114). 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, 1946: Mar. 19, 12.81; Dec. 9, 5.82.

(A-12-1)3bbb 2 (*817, p. 360; 840, p. 525; 845, p. 573; 886, p. 787; 910, p. 56; 948, p. 54; *990, p. 56; 1020, p. 71; 1027, p. 114). Nora Johnson. Water levels, in feet below land-surface datum, 1946: Mar. 19, 13.61.

(A-12-1)29bdd (*910, p. 56; 940, p. 53; 948, p. 55; *990, p. 56; 1020, p. 71; 1027, p. 114). Arnold Nielson.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.8	17.6	....	17.7	18.0	18.1	....	....	20.3	20.3	20.5	....
2	18.9	16.5	....	17.5	18.1	18.3	....	....	....	20.3	....	....
3	18.8	16.3	....	17.3	18.0	18.5	....	....	....	....	22.2	....
4	18.7	15.9	....	18.0	18.0	18.7	....	....	....	....	22.2	....
5	18.8	....	....	17.7	17.9	18.7	....	....	....	....	21.9	21.8
6	18.6	....	....	17.6	17.9	18.8	....	....	....	....	21.9	21.7
7	18.5	....	....	17.6	17.8	18.8	....	....	....	....	22.0	21.8
8	18.6	....	....	18.1	....	18.7	....	....	20.3	....	22.0	21.6
9	19.3	....	....	....	....	18.8	....	....	20.4	....	21.9	21.4
10	19.6	....	....	....	....	18.5	....	....	20.5	....	....	....
11	19.0	....	....	17.8	....	18.5	....	....	20.5	20.4	....	....
12	18.6	....	....	17.9	18.3	18.5	....	....	20.6	20.5	....	....
13	18.8	....	....	17.9	18.3	18.8	....	....	20.5	20.3	....	....
14	18.9	....	....	17.9	18.3	18.8	....	....	20.5	20.6	....	....
15	18.9	....	....	18.0	18.3	18.7	....	....	20.5	20.5	....	....
16	19.0	....	....	18.0	18.3	18.8	....	....	....	20.5	22.0	....
17	19.0	....	....	18.0	18.3	18.9	....	20.8	....	20.5	21.9	....
18	19.8	....	....	17.9	18.3	19.1	....	20.8	....	20.5	21.8	....
19	19.2	....	....	....	18.3	19.1	....	20.7	....	20.5	21.9	....
20	19.1	....	18.3	....	18.7	19.1	....	20.6	....	20.6	22.0	....
21	19.1	....	18.3	....	18.5	19.1	....	20.6	20.4	20.6	....	....
22	18.5	....	18.2	....	18.2	19.1	....	20.6	20.3	....	....	....
23	19.0	....	18.1	....	18.2	19.0	19.9	20.5	20.6	....	21.8	....
24	18.4	....	17.7	....	18.3	19.2	19.9	20.5	20.5	....	21.8	....
25	18.5	....	18.1	....	18.3	19.1	19.8	20.6	20.3	....	21.8	....
26	18.9	....	18.3	18.4	18.3	....	19.8	20.6	20.5	....	21.8	....
27	18.3	....	18.3	18.1	18.3	....	19.9	20.7	20.5	....	21.8	....
28	....	....	18.0	18.2	18.5	....	19.9	20.6	20.3	....	....	....
29	....	....	18.0	18.2	18.3	....	19.8	20.5	20.3	....	....	....
30	18.5	....	18.2	18.0	18.2	....	....	20.3	20.5	20.5	....	....
31	18.8	....	18.0	....	....	....	....	20.3	....	20.5	....	....

(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; 1020, p. 72; 1027, p. 115). State claim 2537. R. S. Painter. Water levels, in feet above land-surface datum, 1946: Mar. 20, 35.8; Dec. 10, 38.3.

(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; 1020, p. 72; 1027, p. 115). State claim 1682. J. C. Cannell. Water levels, in feet with reference to land-surface datum, 1946: Mar. 19, -1.48; Dec. 9, +3.50.

(A-14-1)22bad 1 (*845, p. 574; 886, p. 788; *910, p. 57; 940, p. 54; 948, p. 56; *990, p. 57; 1020, p. 72; 1027, p. 115). State claim 17652. C. B. Stoddard. Water level, in feet above land-surface datum, 1946: Dec. 9, 8.9.

(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; 1020, p. 72; 1027, p. 115). State claim 1373. Crockett Well Co. Water levels, in feet below land-surface datum, 1946: Mar. 19, 10.10; Dec. 9, 13.13.

(A-14-1)34dca 1 (*840, p. 527; *845, p. 574; 886, p. 788; *910, p. 58; 940, p. 54; 948, p. 56; 990, p. 57; 1020, p. 72; 1027, p. 115). State application 12652. Richmond Irrigation Co. Water levels, in feet below land-surface datum, 1946: Mar. 19, 0.30; Dec. 9, 2.31.

(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; 1020, p. 72; 1027, p. 115). State claim 15787. Utah Power & Light Co. Measurements discontinued after Dec. 6, 1945.

(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; 1020, p. 72; 1027, p. 115). State claim 19315. Alma Olsen. Water levels, in feet above land-surface datum, 1946: Mar. 19, 39.3; Dec. 9, 42.7.

(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; 1020, p. 72; 1027, p. 115). State claim 1475. J. A. Lleshman. Flowing through hole in plug prior to measurements. Water level, in feet above land-surface datum, 1946: Mar. 19, 16.3.

(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; 1020, p. 72; 1027, p. 115). State claim 16851. Edward Edwards. Flowing prior to measurements. Water level, in feet above land-surface datum, 1946: Dec. 10, 10.0.

(B-13-1)3Oacc 1 (*817, p. 392; *840, p. 541; *845, p. 575; 886, p. 789; *910, p. 58; 940, p. 54; 948, p. 57; *990, p. 57; 1020, p. 72; 1027, p. 115). State claim 2757. E. R. Ballard. Flowing prior to measurements. Water level, in feet above land-surface datum, 1946: Dec. 10, 22.5.

Carbon County

(D-13-9). State claim 11742. Helper City. Standby municipal well, diameter 132 inches, depth 26 feet. Measuring point, top of concrete step at well opening, 7.0 feet below land surface. Water-bearing formation: alluvium of Price River flood plain. Water level, in feet below land-surface datum, 1946: Oct. 14, 11.50.

Davis County - East Shore area

Layton District

(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; 1020, p. 72; 1027, p. 115). State claim 8156. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Apr. 5, 13.54; May 26, 13.21; June 27, 13.37; Dec. 30, 13.73.

(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; 1020, p. 72; 1027, p. 115). State claim 10019. Lagoon Resort. Water levels, in feet above land-surface datum, 1946: Jan. 24, 10.5; Apr. 5, 10.5; May 26, 11.5; Dec. 30, 9.9.

(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; 1020, p. 72; 1027, p. 116). State claim 10012. Lagoon Resort.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 24	4.3	May 26	4.8	Dec. 30	4.2
Apr. 5	4.2	June 27	5.7		

(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; 1020, p. 73; 1027, p. 116). Charles Layton. Water levels, in feet with reference to land-surface datum, 1946: Apr. 5, -0.53; May 26, -0.30; June 27, -0.53; Dec. 30, +0.32.

(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; 1020, p. 73; 1027, p. 116). W. W. Evans. Water levels, in feet below land-surface datum, 1946: Apr. 5, 1.39; May 26, 0.88; June 27, 0.97; Dec. 30, 1.37.

(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; 1020, p. 73; 1027, p. 116). State claim 14733. Kaysville Canning Corporation. Water levels, in feet below land-surface datum, 1946: Apr. 5, 3.86; May 26, 4.52; Dec. 30, 4.32.

(B-4-2)1dce 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; 1020, p. 75; 1027, p. 116). State claim 8139. Drought Relief Administration.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	175.40	175.30	.....	175.00
2	175.66	175.43	175.28	.....	.....
3	175.25	175.34	.....	.....
4	175.19	175.41	.....	.....
5	175.46	175.25	175.37	.....	.....
6	175.46	175.28	.....	.....	.....
7	175.36	.....	.....	.....	175.00
8	175.41	175.51	.....	.....	.....
9	175.47	175.48	.....	.....	.....
10	175.43	175.43	.....	.....	.....
11	175.68	175.33	175.29	.....	.....	.....
12	175.35	175.30	175.27	.....	.....
13	175.25	175.18	.....	.....
14	175.11	175.14	.....	.....
15	175.27	175.21	.....	.....
16	175.23	.....	174.95
17	175.24	.....	174.96
18	175.24	.....	175.00
19	175.22	.....	175.05
20	175.00	175.04
21	174.91	175.00
22	174.84	174.97
23	174.88	174.94
24	174.97	175.00
25	175.03	175.02
26	175.00	174.97
27	175.40	.....	.....	174.90	.....
28	175.28	.....	.....	174.30	.....
29	175.22	.....	174.90	.....
30	175.24	.....	175.00	.....
31	175.24	.....	175.01	.....

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	174.90	.....	174.66	174.54	174.44
2	174.91	.....	174.61	174.54	174.45
3	174.90	.....	174.61	174.57	.....
4	174.88	.....	174.57	174.58	.....
5	174.86	.....	174.54	174.58	.....
6	174.55	174.58	.....
7	174.55	174.56	.....
8	174.57	174.40	.....
9	174.63	174.39	.....

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

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
10	174.69	174.40	.....
11	174.76	174.77	174.42	.....
12	174.85	174.76	174.76	174.48	.....
13	174.76	174.74	174.50	.....
14	174.76	174.68	174.34	.....
15	174.70	174.62	174.43	.....
16	174.59	174.58	174.51	.....
17	174.65	174.47	174.51	.....
18	174.69	174.48	174.51	.....
19	174.77	174.49	174.45	.....
20	174.77	174.51	174.34	.....
21	174.74	174.51	174.42	.....
22	174.69	174.51	174.43	.....
23	174.79	174.72	174.51	174.27	.....
24	174.73	174.51	174.29	.....
25	174.72	174.51	174.44	.....
26	174.71	174.58	174.46	.....
27	174.69	174.51	174.47	.....
28	174.73	174.42	174.47	.....
29	174.96	.....	174.78	174.33	174.46	.....
30	174.92	.....	174.76	174.47	174.44	.....
31	174.86	.....	.....	174.54	.....	.....

(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; 1020, p. 74; 1027, p. 116). State claim 11285. A. D. Miller. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Apr. 5, 19.6; May 26, 18.7; Dec. 30, 20.4.

(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 1946.

(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. 60). State claim 12532. George Sandoz. Measurements discontinued after Dec. 2, 1943.

(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; 1020, p. 74; 1027, p. 117). State claim 3074. Mary Stoddard. Water levels, in feet above land-surface datum, 1946: Apr. 5, 29.2, flowing prior to measurement; Dec. 30, 28.1.

Bountiful District

(A-2-1)6dcd 2. State claim 188. Zions Aid Society. Domestic well, diameter 1-3/4 inches, depth 60 feet. Measuring point, top of elbow, 1.5 feet above land surface and 4,292.53 feet above mean sea level.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 9	10.2	May 14	14.1	June 3	14.1	Aug. 19	10.8
26	11.9	May 26	13.5	July 31	11.4	Dec. 31	9.8

a Flowing prior to measurement.

(A-2-1)7aba 4. State claim 14688. Kate M. Chase. Domestic well, diameter 3 inches, depth 450 feet. Measuring point, top of tee, 1.5 feet above land surface and 4281.05 feet above mean sea level.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 9	25.1	May 26	28.0	June 21	a29.8	Dec. 31	24.1
May 14	a28.8	June 3	a29.5	Aug. 19	21.8		

a Flowing on lawn prior to measurement.

(A-2-1)7abd 3. State claim 7455. Alvin Schofield. Domestic well, diameter $1\frac{1}{2}$ inches, depth 40 feet. Measuring point, top of tee, 2.0 feet above land surface and 4,284.61 feet above mean sea level.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 11	22.9	May 14	a22.9	June 3	a24.5	Aug. 19	a19.2
26	a20.4	May 26	a23.2	July 31	a20.4	Dec. 31	22.0

a Flowing prior to measurement.

(A-2-1)7aca 4 (*1027, p. 117). State claim 12473. Wm. E. Cheney.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	8.5	May 26	12.8	Aug. 19	a6.9	Nov. 5	9.7
Feb. 20	9.7	June 3	12.5	Oct. 2	10.3	Dec. 27	11.5
May 14	11.3	21	11.0				

a Flowing prior to measurement.

(A-2-1)7bdc 1. State claim 957. William F. Cheney. Unused well, diameter 3 inches, depth 400 feet. Measuring point, top of elbow, 2.0 feet above land surface datum and 4248.36 feet above mean sea level.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	57.5	57.6	57.0	....	54.0	51.9	54.4	57.8	55.9
2	56.6	57.5	57.6	57.0	56.0	53.9	51.9	54.5	....	55.6
3	56.6	57.0	57.7	57.6	56.0	53.8	52.0	54.4	....	55.1
4	56.2	57.0	57.7	57.4	55.9	53.7	52.0	54.1	....	55.5
5	56.1	57.5	57.7	57.7	55.8	53.6	52.0	54.8	....	55.6
6	56.2	57.5	....	56.6	55.9	53.3	52.0	55.1	....	55.6
7	56.5	57.5	58.0	56.4	56.0	53.3	52.0	55.2	....	55.9
8	56.5	57.5	57.9	56.5	56.0	53.5	52.0	55.4	....	55.7
9	56.5	57.5	57.9	56.5	54.8	53.5	52.0	55.8	....	55.9
10	56.5	57.0	58.0	56.8	55.0	53.5	....	55.8	....	55.8
11	56.5	57.0	58.0	56.8	55.5	53.0	....	56.8	....	55.8
12	56.5	57.5	58.0	57.4	55.5	....	....	57.1	....	55.8
13	56.4	57.5	57.8	57.5	55.3	....	....	57.2	....	55.6
14	56.4	57.5	....	57.0	55.5	....	52.0	57.2	....	55.7
15	56.5	57.5	57.5	57.5	55.5	....	52.0	57.2	....	55.7
16	56.5	57.6	57.0	57.0	55.0	....	52.0	57.2	....	55.5
17	56.5	57.6	57.0	56.2	55.0	....	51.9	57.1	....	55.5
18	56.5	57.7	56.5	56.0	54.5	....	51.9	....	....	....
19	....	57.7	56.0	56.0	54.2	....	52.0	57.5	....	55.6
20	....	57.6	56.0	56.3	54.2	....	52.0	57.4	....	55.5
21	....	57.6	56.0	56.5	54.1	....	52.2	57.4	....	55.2
22	....	57.5	56.0	57.0	54.1	....	52.1	57.4	....	55.2
23	57.0	57.5	55.5	56.2	54.0	....	52.5	57.2	56.5	55.2
24	57.0	57.5	55.5	55.8	53.4	....	53.0	57.8	56.8	55.1
25	57.0	57.6	56.0	56.0	54.0	....	53.2	57.8	....	55.2

(A-2-1)7bdc 1--Continued.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	57.1	57.7	55.7	56.2	54.0	....	53.5	57.8	55.8	55.1
27	57.1	57.8	55.6	56.0	54.0	....	53.8	57.8	55.5	55.1
28	57.5	58.0	55.6	56.0	54.1	....	53.7	57.7	55.5	55.2
29	57.5	57.8	55.8	56.0	54.0	....	53.8	57.8	55.5	55.4
30	57.5	57.6	56.2	55.9	54.1	....	54.0	57.8	55.5	55.2
31	57.5		56.8		54.0	51.9		57.8		55.2

(A-2-1)7dba 2 (*1027, p. 117). State claim 2027. Orson U. James.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	25.4	May 14	a25.3	June 21	a26.3	Oct. 2	a21.9
Feb. 20	24.9	26	26.6	Aug. 19	a19.0	Dec. 27	25.0
Apr. 11	24.6	June 3	27.8				

a Flowing prior to measurement.

(A-2-1)7dba (*1027, p. 117). Ezra B. Parrish.

Water level, in feet above land-surface datum, 1946

Feb. 20	17.4	June 21	16.1	Aug. 19	a12.3	Nov. 5	15.7
May 14	a16.0	July 26	18.1	Oct. 2	a14.1	Dec. 27	17.3
June 3	18.6						

a Flowing prior to measurement.

(A-2-1)7dba 6 (*1027, p. 117). State claim 240. Ezra B. Parrish.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June 3	27.0	Oct. 2	22.9	Dec. 27	24.9
Aug. 19	a17.8	Nov. 5	24.2		

a Flowing prior to measurement.

(A-2-1)7dba 11 (*886, p. 790; 1027, p. 117). State claim 12910. Henry Cleveland. Measurements discontinued after Nov. 16, 1945.

(A-2-1)7dba 13 (*1027, p. 118). State claim 12913. Henry Cleveland. Water levels, in feet above land-surface datum, 1946: Apr. 11, 17.6. Measurements discontinued.

(A-2-1)7dba 7. State claim 16528. Naomi R. Smith. Irrigation well, diameter $1\frac{1}{2}$ inches, depth 80 feet. Measuring point, top of elbow, at land-surface datum.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 15	15.9	May 14	16.6	June 3	18.0	Aug. 19	a9.3
26	15.5	26	17.2	21	17.0	Dec. 31	16.7

a Flowing prior to measurement.

(A-2-1)7ddc 1 (*886, p. 790; 1027, p. 118). State claims 4989 and 8155. Centerville City Corporation.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 4	13.16	Nov. 29	12.67	Dec. 13	12.55	Dec. 27	12.60
June 3	9.92	Dec. 6	12.57	Dec. 20	12.78	.	

(A-2-1)8cbc John Coombs. Unused dug well, diameter 4 feet. Measuring point, top of well platform, at land-surface datum.

Water level at noon, in feet below land-surface datum, 1946

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Dec.
1	.....	50.88	.....	.....	46.35	.....	46.38	50.01	.....
2	.....	50.87	.....	.....	46.21	.....	46.50	50.08	.....
3	.....	50.89	.....	.....	46.03	.....	46.23	50.09	.....
4	.....	50.93	.....	.....	45.84	.....	46.78	50.10	.....
5	.....	50.94	51.22	.....	45.64	.....	46.92	50.36	.....
6	.....	50.95	.....	50.74	45.49	.....	47.10	50.43	50.97
7	.....	51.01	.....	50.36	45.25	.....	47.24	50.53	50.94
8	.....	51.02	.....	50.25	45.04	.....	47.35	50.63	50.95
9	.....	51.03	.....	49.97	44.83	43.92	47.47	.....	.....
10	.....	51.04	.....	49.85	44.67	43.98	47.59	.....	.....
11	.....	51.05	.....	49.72	44.54	44.06	47.72	.....	.....
12	.....	51.08	51.97	49.58	44.34	44.13	47.86	.....	.....
13	.....	51.07	.....	49.40	44.15	44.22	47.94	50.50	50.83
14	.....	51.11	.....	49.27	44.03	44.31	48.05	50.56	50.81
15	50.55	51.14	.....	49.14	43.90	44.39	48.17	50.63	50.78
16	50.58	.....	.....	48.93	43.79	44.50	48.30	50.70	50.81
17	50.62	.....	.....	48.61	43.71	44.63	48.44	50.78	50.79
18	50.64	51.27	.....	48.45	43.68	44.78	48.56	50.81	50.75
19	50.65	.....	51.87	48.31	43.56	44.62	48.69	50.85	50.74
20	50.68	.....	.....	48.13	43.45	44.92	48.82	.....	50.74
21	50.68	.....	.....	48.00	43.37	45.01	48.93	.....	50.71
22	50.73	51.57	.....	47.87	43.33	45.30	49.05	.....	50.72
23	50.74	.....	.....	47.75	43.31	45.43	49.15	.....	50.71
24	50.74	.....	.....	47.62	43.35	45.57	49.24	.....	.....
25	50.77	.....	.....	47.45	43.24	45.63	49.31	.....	.....
26	50.79	.....	51.99	47.26	43.22	45.73	49.37	.....	.....
27	50.80	.....	.....	47.11	43.24	45.85	49.45	51.43	50.64
28	50.84	.....	.....	46.97	43.26	45.98	49.52	.....	50.69
29	.....	51.61	.....	46.84	.....	46.09	49.63	.....	.....
30	.....	.....	.....	46.68	.....	46.11	49.71	.....	.....
31	.....	.....	.....	46.49	.....	42.27	49.91	.....	.....

(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; 1020, p. 74; 1027, p. 118). State claim 11318. Will Holbrook.

Water level at noon, in feet below land-surface datum, 1946

(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	31.01	32.57	33.46	32.98	31.43	.....	29.31	25.69	25.13	27.34	29.28
2	.....	31.03	32.57	33.42	32.89	31.39	29.95	29.24	25.52	25.28	27.46	29.36
3	.....	31.08	32.60	33.47	32.82	31.35	29.94	29.22	25.35	25.32	27.54	29.38
4	.....	31.20	32.67	33.47	.....	31.28	29.93	29.14	25.22	25.39	27.60	29.43
5	29.41	31.29	32.63	.....	.....	31.20	29.90	29.06	25.17	25.47	27.62	29.45
6	29.61	31.29	32.75	.....	.....	31.16	29.87	.....	25.06	25.54	27.70	29.52
7	29.57	.....	32.86	.....	.....	31.10	29.85	.....	24.98	25.61	27.73	29.54
8	29.66	.....	32.87	.....	.....	31.04	29.84	.....	24.94	25.70	27.76	29.66
9	29.76	31.52	32.89	.....	.....	31.00	29.87	.....	24.89	25.77	27.90	29.73

(A-2-1)17ccb 1--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
10	29.76	31.55	32.91	.....	.....	30.87	29.84	.....	24.83	25.88	27.92	29.77
11	29.72	31.61	32.94	.....	.....	30.83	29.79	.....	24.75	25.95	28.03	29.78
12	29.81	31.70	33.00	.....	.....	30.75	29.77	28.40	24.66	25.95	28.11	29.84
13	29.83	31.77	33.01	33.21	.....	.....	29.73	28.42	24.21	26.06	28.15	29.90
14	29.87	31.82	33.08	33.18	32.49	30.70	29.69	28.47	24.18	26.07	28.17	29.93
15	29.95	31.79	33.13	33.23	32.42	30.66	29.65	28.03	24.09	26.16	28.46	29.96
16	30.02	31.82	33.19	33.23	32.35	30.61	29.62	27.95	23.95	26.21	28.51	30.08
17	30.09	31.90	33.20	33.23	32.28	30.59	29.63	27.85	23.95	26.34	28.55	30.13
18	30.14	31.95	33.22	33.19	32.23	30.56	29.64	27.44	23.88	26.45	28.57	30.16
19	.....	31.98	33.24	33.16	32.21	30.51	29.63	27.36	23.90	26.49	28.58	30.20
20	.....	32.02	33.27	33.19	32.17	30.44	29.61	27.27	23.83	26.55	28.66	30.27
21	.....	32.09	33.32	33.18	31.75	30.38	29.61	27.16	23.84	26.63	28.81	30.28
22	.....	32.18	33.44	33.22	31.73	30.06	29.57	27.03	24.08	26.68	28.82	30.35
23	.....	32.22	33.44	33.20	31.73	30.23	29.56	26.99	24.20	26.81	28.80	30.42
24	.....	32.24	33.46	33.15	31.73	30.28	29.58	26.92	24.27	26.89	28.92	30.47
25	.....	32.31	33.52	33.12	31.66	30.19	29.57	26.79	24.53	26.89	29.01	30.49
26	.....	32.36	33.52	33.10	31.50	30.13	29.55	26.56	24.77	26.96	29.04	30.50
27	.....	32.40	33.52	33.10	31.56	30.11	29.52	26.50	24.91	27.04	29.09	30.55
28	.....	32.48	33.50	33.08	31.56	30.13	29.47	26.42	25.02	27.17	29.13	30.69
29	.....	.....	33.48	33.04	31.55	.....	29.43	26.30	25.07	27.23	29.18	30.71
30	.....	.....	33.48	33.03	31.52	.....	29.33	26.04	25.11	27.31	29.26	30.79
31	.....	.....	33.48	.....	31.47	.....	29.32	25.83	.....	27.41	.....	30.81

(A-2-1)17cdd 1. State claim 6184. Loren Briggs. Irrigation well, diameter 7 feet, depth 62 feet. Measuring point, top of concrete curb, at land-surface datum.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 8	51.48	June 3	51.30	Aug. 5	51.08	Oct. 18	51.60
22	51.41	9	51.32	12	51.64	25	51.55
Apr. 5	51.46	14	51.57	26	51.65	Nov. 8	51.60
12	51.55	21	51.81	30	51.46	15	51.57
19	51.46	July 1	52.95	Sept. 5	51.43	29	51.67
26	51.47	8	52.58	13	51.35	Dec. 6	51.70
May 6	51.50	16	51.96	20	51.31	13	51.65
14	51.42	22	51.70	27	51.52	20	51.64
20	51.36	29	52.42	Oct. 11	51.53	27	51.64
26	51.34						

a Pumped recently.

(A-2-1)18aab 2 (*886, p. 791; 1027, p. 118). Frank Earl.

Water level, in feet above land-surface datum, 1946

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
24	4.8			14	5.0		19	3.5		5	4.4
20	4.0			26	6.1		2	2.6		27	5.0
4	3.1			3	7.2						

(A-2-1)18abd 4 (*1027, p.119). State claim 235. T. Q. Williams.
Flowing prior to measurements.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	21.0	Apr. 4	19.1	May 26	19.3	Nov. 4	17.9
Feb. 20	19.9	May 14	19.4	Aug. 19	15.8	Dec. 31	19.0

(A-2-1)18abd 5 (*1027, p. 119). State claim 234. J. E. Williams.
Measurements discontinued after Oct. 4, 1945.

(A-2-1)18abd 7 (*1027, p.119). State claim 9744. Emma Barton.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	20.0	May 14	21.1	Aug. 19	18.1	Nov. 5	20.6
Feb. 20	19.2	May 26	21.2	Oct. 2	18.4	Dec. 27	21.0
Apr. 4	20.1	June 3	22.8				

(A-2-1)18abd 13 (*1027, p.119). State claim 18777. Roland W. Barnes.
Measurements discontinued after Aug. 19.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 24	a8.2	Apr. 4	8.7	June 3	a8.4
Feb. 20	a8.7	May 26	8.7	Aug. 19	6.4

a Flowing prior to measurement.

(A-2-1)18abd (*845, p. 576; 886, p. 791; 910, p. 59; 940, p. 55; 948, p. 57; *990, p. 58; 1020, p. 74; 1027, p. 119). T. Q. Williams.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.2	24.1	23.2	22.8	22.1	25.6	23.5	20.4	18.6	21.4	23.1	23.6
2	25.3	23.9	23.2	22.9	22.3	26.0	24.9	17.7	20.7	21.7	23.4	23.5
3	24.9	23.9	23.3	22.9	22.2	26.3	23.9	16.7	21.1	21.8	23.4	23.6
4	....	23.7	23.3	22.9	22.3	....	21.1	16.6	19.2	22.0	23.2	23.6
5	25.2	23.7	23.3	23.0	21.2	....	22.2	18.6	17.7	22.4	23.5	23.6
6	24.9	23.7	23.2	22.9	....	....	22.7	16.7	19.4	22.6	23.4	23.5
7	....	23.7	23.2	22.8	21.9	....	21.0	19.4	20.7	22.6	23.4	23.7
8	25.2	23.7	23.3	22.7	22.9	....	20.9	20.0	20.6	22.7	23.4	23.7
9	24.8	23.4	23.2	22.7	22.9	....	22.4	19.5	21.0	22.7	23.4	23.6
10	24.7	23.4	23.2	22.7	22.9	22.9	20.8	18.0	21.3	22.7	23.5	23.6
11	25.0	23.3	23.3	22.7	23.4	22.9	23.4	16.4	21.4	22.7	23.1	23.6
12	24.8	23.4	23.2	22.7	23.7	24.7	23.8	19.8	21.3	23.0	23.2	23.6
13	24.7	23.4	23.3	23.1	22.7	....	22.4	18.5	21.0	23.1	23.6	23.5
14	24.7	23.2	23.3	23.1	23.7	24.8	22.4	21.1	20.8	23.1	23.5	23.7
15	24.8	23.6	23.2	23.2	23.9	23.4	21.5	21.6	18.1	23.2	23.4	23.8
16	24.7	23.4	23.2	23.2	24.0	21.7	20.4	19.4	20.7	23.2	23.4	23.7
17	24.4	23.4	23.2	23.1	24.1	22.2	19.4	17.8	20.8	23.2	23.4	23.7
18	24.5	23.3	23.2	23.2	24.2	24.7	20.2	19.8	21.1	23.2	23.4	23.7
19	....	23.4	23.4	23.0	22.9	23.1	20.7	20.1	21.3	23.2	23.6	23.5
20	....	23.3	23.4	22.6	22.6	25.1	20.6	20.7	20.6	23.3	23.6	23.6
21	....	23.3	23.2	22.4	22.4	23.7	20.6	19.4	21.7	23.2	23.5	23.5
22	....	23.3	23.0	22.5	23.5	21.4	21.7	18.3	21.9	23.2	23.4	23.6
23	....	23.3	22.9	22.2	24.1	21.6	19.9	20.8	22.1	23.3	23.6	23.5
24	....	23.2	23.0	21.9	24.4	24.9	20.2	21.5	22.0	23.2	23.5	23.5
25	24.3	23.2	23.1	21.9	24.7	24.4	21.7	21.6	21.9	23.2	23.5	23.5

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

Water level at noon, in feet above land-surface datum, 1946.
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	23.9	23.2	23.1	22.1	24.8	25.3	22.3	21.7	21.9	23.3	23.5	23.4
27	23.8	23.2	23.1	22.4	22.9	24.8	19.6	21.7	21.7	23.3	23.6	23.4
28	23.8	23.3	23.2	22.1	23.6	25.3	20.4	20.1	21.3	23.2	23.6	23.4
29	23.8		....	20.7	24.6	24.9	19.1	18.5	21.1	23.2	23.5	23.5
30	23.8		22.9	21.7	25.1	21.7	20.3	19.7	20.4	23.2	23.6	23.4
31	23.8		....		25.4		22.2	18.7		23.1		23.3

(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; 1020, 75; 1027, p. 120). State claim 5391. F. W. Cottrell.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 15	36.2	June 24	35.7	Oct. 2	35.0	Dec. 31	35.8
26	36.7	Aug. 19	28.2	Nov. 27	36.1		

(A-2-1)18baa 2 (*1027, p. 120). State claim 6954. John J. Porter. Well flowing prior to measurement. Water levels, in feet above land-surface datum, 1946: Jan. 24, 25.0; Feb. 20, 24.5.

(A-2-1)18bac 1. State claim 11399. L. C. Selleneit. Domestic well, diameter 2 inches, depth 106 feet. Measuring point, top of tee, 0.5 foot above land surface and 4,261.46 feet above mean sea level.

Water level, in feet above land-surface datum, 1945-46

Date	Water level	Date	Water level	Date	Water level
May 4, 1945	20.9	Oct. 4, 1945	24.2	May 26, 1946	21.3
June 21	22.5	Nov. 14	27.2	June 3	22.9
July 9	a15.3	Dec. 21	26.5	Aug. 19	17.3
26	12.6	Jan. 24, 1946	26.1	Oct. 2	20.7
Aug. 18	a14.6	Feb. 20	25.3	Nov. 5	21.3
30	21.6	Apr. 3	26.0	Dec. 27	25.5
Sept. 19	23.4	May 15	a20.5		

a Flowing prior to measurement.

(A-2-1)18bdc 4. State claim 15214. T. C. Waddoups. Domestic well, diameter 3 inches, depth 190 feet. Measuring point, top of ell, 2.0 feet above land surface and 4,272.53 feet above mean sea level.

Water level, in feet above land-surface datum, 1939, 1945-46

Date	Water level	Date	Water level	Date	Water level
Nov. 21, 1939	14.5	Sept. 19, 1945	19.0	May 15, 1946	16.6
May 4, 1945	18.6	Oct. 4	17.7	26	15.7
June 21	17.3	Nov. 14	22.8	June 3	17.3
July 9	10.2	Dec. 21	22.4	Aug. 19	10.8
26	9.7	Jan. 24, 1946	22.2	Oct. 2	20.2
Aug. 18	9.0	Feb. 20	21.8	Dec. 31	21.2
30	16.7	Apr. 3	21.9		

(A-2-1)18cba 1 (*1027, p. 120). State claim 427. Albert Mann.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	20.3	May 15	18.9	June 3	17.0	Oct. 2	17.6
Feb. 20	20.2	26	16.7	Aug. 19	12.4	Nov. 5	18.3
Apr. 3	20.7						

a Flowing prior to measurement.

(A-2-1)18dab 2 (*1027, p. 120). Anna E. Bangerter. Well flowing prior to measurements.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Apr. 4	1.30	June 4	2.59	Dec. 31	1.75
May 14	2.35	24	1.98		

(A-2-1)18dca 2 (*1027, p. 120). State claim 18335. Earl L. Burnham.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	8.24	May 14	7.75	June 3	6.81	Oct. 31	9.05
Apr. 4	9.22	26	7.78	Oct. 2	8.50		

(A-2-1)19ccb 1 (*1027, p. 121). State claim 16478. Kirkland Nursery.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	42.20	39.78	38.00	.....	38.03	38.11	40.14	41.88	42.61
2	.....	41.78	42.21	39.65	38.05	.....	38.03	38.17	40.24	41.93	.....
3	.....	41.76	42.19	39.53	38.11	.....	38.09	38.23	40.32	41.96	.....
4	.....	41.79	42.21	.....	38.11	.....	38.18	38.31	40.43	41.99	.....
5	.....	41.82	42.17	.....	38.00	.....	38.20	38.43	40.52	42.00	.....
6	.....	41.83	42.15	39.34	38.06	.....	38.22	38.47	40.59	42.02	42.68
7	.....	41.85	41.78	39.26	38.04	.....	38.31	38.54	40.66	42.04	42.69
8	.....	41.78	41.70	39.19	38.05	37.87	38.37	38.63	40.74	42.10	42.73
9	.....	41.78	41.64	39.11	38.08	37.93	38.38	38.65	40.80	42.13	42.75
10	.....	41.77	41.58	39.02	38.13	37.98	38.43	38.62	40.86	42.17	42.77
11	.....	41.76	.....	38.91	38.17	38.03	38.50	38.63	40.92	42.20	42.76
12	.....	41.80	41.50	38.80	38.22	38.04	38.55	38.63	40.94	42.24	42.77
13	.....	41.78	41.38	38.63	38.25	38.06	38.58	38.63	41.01	42.26	42.79
14	.....	41.83	41.35	38.41	38.27	38.10	38.63	38.66	41.05	.....	42.80
15	41.42	41.86	41.35	38.25	38.32	38.09	38.66	38.72	41.10	42.28	42.80
16	41.45	.....	41.31	38.18	38.39	38.09	38.64	38.77	41.16	42.31	42.83
17	41.48	.....	41.23	38.15	38.47	38.15	38.69	38.88	41.23	42.33	42.85
18	41.51	.....	41.16	38.12	38.58	38.23	38.74	38.96	41.29	42.35	42.86
19	41.53	.....	41.08	38.16	38.63	38.28	38.79	39.03	41.34	42.36	42.87
20	41.54	.....	41.03	38.20	38.51	38.34	38.78	39.09	41.38	42.37	42.88
21	41.60	.....	40.99	38.23	38.36	38.25	38.76	39.16	41.42	.....	42.88
22	41.65	42.13	40.94	38.28	.....	38.07	38.64	39.28	41.46	42.47	42.89
23	41.67	42.12	40.87	38.28	.....	38.13	38.51	39.39	.....	42.47	42.91
24	41.68	42.12	40.79	38.45	.....	38.21	38.46	39.48	.....	42.50	42.92
25	41.70	42.16	40.70	38.41	.....	38.04	38.44	39.57	41.61	42.53	42.92
26	41.73	42.15	40.51	38.37	.....	37.97	38.39	39.66	41.63	42.55	42.91
27	41.74	42.11	40.31	38.41	.....	38.00	38.28	39.78	41.68	.....	42.92
28	41.77	42.07	40.15	38.47	.....	38.02	38.23	39.89	41.74	.....	42.95
29	.....	42.08	40.00	38.42	.....	37.94	38.22	39.98	41.79	42.58	42.95
30	.....	.....	39.90	38.21	.....	37.91	38.15	40.06	41.83	42.60	42.96
31	.....	42.19	.....	38.06	.....	37.97	38.08	.....	41.87	.....	42.96

(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; 1020, p. 75; 1027, p. 121). State claim 1447. Bountiful City Corporation.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	66.19	June 3	65.21	Oct. 18	67.46	Dec. 6	68.22
Apr. 30	67.17	9	65.64	Nov. 1	67.88	13	68.24
May 14	65.92	21	66.07	8	67.89	20	68.50
20	66.15	July 9	66.70	15	68.01	27	68.11
26	65.89	Oct. 2	67.39	29	68.23		

(A-2-1)20bda 1. State claim 14701. J. W. Foster. Unused well, diameter 4 feet, depth 40 feet. Measuring point, top of well cover, at land surface.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	27.13	27.36	20.87	21.11	.....	25.03	27.11	28.07	27.95	23.87
2	.....	27.11	27.24	20.78	21.06	22.67	25.11	27.16	28.09	.....	23.78
3	.....	27.09	27.18	20.79	20.01	22.73	25.20	27.20	28.10	.....	23.70
4	.....	27.12	27.14	.....	20.94	22.79	25.30	27.25	28.16	.....	23.66
5	.....	27.13	27.12	.....	20.88	22.85	25.38	27.30	28.18	.....	23.61
6	.....	27.12	27.04	.....	20.80	22.94	25.40	27.34	28.20	.....	23.61
7	.....	27.16	26.97	20.50	20.79	23.01	25.50	27.37	28.22	.....	23.61
8	.....	27.15	26.79	20.41	20.93	23.06	25.56	27.41	28.24	27.42	23.70
9	.....	27.15	26.62	20.32	21.11	23.13	25.65	27.46	28.27	.....	23.85
10	.....	27.12	.....	20.25	21.31	23.17	25.73	27.49	28.29	.....	23.93
11	.....	27.10	.....	20.20	21.44	.....	25.80	27.52	28.33	27.10	23.96
12	.....	27.10	25.71	20.19	21.55	.....	25.97	27.56	28.34	.....	24.06
13	.....	.....	25.36	.....	21.62	.....	26.02	27.58	28.35	.....	24.18
14	.....	.....	25.10	20.22	21.77	.....	26.09	27.61	28.36	.....	24.27
15	.....	27.05	24.86	20.28	21.92	23.54	26.15	27.64	28.37	26.57	24.37
16	.....	27.06	24.67	20.34	22.06	23.62	26.21	27.66	28.38	26.45	24.52
17	.....	27.06	24.42	20.38	22.16	23.70	26.28	27.72	28.40	26.33	24.66
18	.....	27.05	24.17	20.42	22.15	23.80	26.30	27.76	28.41	26.18	24.76
19	.....	27.04	23.92	20.48	22.13	23.89	26.39	27.80	28.40	26.05	24.86
20	27.05	27.04	23.46	20.51	.....	23.98	26.39	27.84	28.42	25.92	24.98
21	27.05	.....	22.93	20.54	22.18	24.06	26.45	27.86	28.45	25.86	25.05
22	27.07	27.07	22.53	20.60	22.21	24.13	26.51	27.88	28.47	25.74	25.15
23	27.08	27.09	22.19	20.69	22.26	24.20	26.56	27.91	28.48	25.61	25.24
24	27.07	27.18	21.92	20.76	22.34	24.29	26.61	27.94	28.48	25.00	25.32
25	27.06	27.30	21.67	20.75	22.32	24.38	26.66	27.96	28.48	25.00	25.35
26	27.06	27.38	21.44	20.84	22.34	24.50	26.71	27.98	28.44	24.86	25.38
27	.....	27.42	21.33	20.95	22.38	24.60	26.76	27.99	28.40	24.63	25.41
28	.....	27.42	21.23	20.97	22.42	24.70	26.81	28.02	28.36	24.38	25.46
29	.....	27.43	21.12	21.00	.....	24.80	26.87	28.05	28.12	24.19	25.48
30	.....	27.42	21.00	21.06	.....	24.84	27.00	28.06	27.99	24.03	25.53
31	.....	27.41	.....	21.08	.....	24.94	27.06	.....	27.99	.....	25.56

(A-2-1)20cad 2 (published incorrectly as (A-2-1)20dbd 1 in *1027, p. 121). State claim 12515. Mabel Barlow.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 8	23.31	Apr. 5	23.43	May 6	22.90	June 3	22.89
11	23.39	12	23.30	14	22.47	9	22.95
22	23.30	19	23.12	20	22.57	14	22.96
29	23.45	26	23.09	26	22.72	21	22.91

(A-2-1)20cadd 2--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 1	22.73	Aug. 12	22.56	Sept. 20	23.01	Nov. 8	22.98
8	22.31	19	22.53	27	a28.29	15	23.20
16	21.81	26	22.48	Oct. 4	23.14	29	23.23
22	24.42	30	a27.70	11	23.54	Dec. 6	23.28
29	a28.03	Sept. 5	a26.25	18	23.44	13	23.44
Aug. 5	a25.04	13	a26.44	25	23.40	27	23.65

a Pumped recently.

(A-2-1)20cadd 1 (*1027, p. 121). State claim 1012. Fredrick Riley.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	15.97	15.45	14.48	.....	17.07	17.10	16.57	16.30
2	.....	19.70	15.74	15.62	.....	.....	17.17	17.06	16.58	16.38
3	.....	19.58	15.52	14.77	.....	.....	17.18	17.01	16.60	16.45
4	.....	19.59	.....	14.48	.....	.....	17.19	17.11	16.64	16.55
5	.....	19.60	.....	14.36	.....	22.28	.....	17.22	16.65	16.62
6	.....	19.66	.....	14.14	.....	.....	17.10	17.29	16.65	16.70
7	.....	19.67	13.24	14.46	.....	.....	17.04	17.30	16.65	16.72
8	18.98	19.26	13.11	14.23	16.17	.....	16.88	17.27	16.68	16.72
9	.....	19.17	12.50	13.65	.....	.....	16.88	17.24	16.68	16.76
10	.....	19.04	13.04	12.48	.....	.....	16.76	17.23	16.70	16.84
11	.....	18.87	13.26	12.75	.....	.....	16.77	17.20	16.78	16.91
12	19.52	18.72	13.56	13.15	.....	17.65	16.86	17.20	16.83	16.98
13	19.52	18.61	13.77	12.96	.....	.....	16.97	17.25	16.88	17.10
14	19.60	18.53	14.01	12.52	.....	.....	16.90	17.29	16.91	17.14
15	.....	18.51	14.15	12.96	15.94	.....	16.88	17.38	16.89	17.10
16	19.61	18.48	14.39	12.89	.....	.....	16.88	17.44	16.90	16.22
17	19.64	18.48	14.13	13.14	.....	.....	16.88	17.18	16.96	16.20
18	19.66	18.43	14.13	12.85	.....	.....	16.81	17.17	17.07	16.22
19	19.68	17.73	14.27	13.49	.....	21.91	16.81	16.96	17.14	16.32
20	19.70	16.91	14.55	11.86	.....	.....	16.90	17.05	17.19	16.40
21	19.71	16.50	14.76	10.60	.....	.....	16.91	17.18	17.27	16.45
22	19.79	16.47	14.61	12.90	19.87	.....	17.03	17.27	17.26	16.49
23	.....	16.68	14.90	13.30	.....	.....	17.03	17.38	17.11	16.53
24	.....	17.09	15.13	12.81	.....	.....	17.02	17.42	16.34	16.61
25	.....	17.16	15.45	12.94	.....	.....	16.87	17.48	16.21	16.95
26	.....	16.77	15.50	14.07	.....	17.08	16.67	17.49	16.13	17.23
27	.....	16.68	15.45	14.48	.....	.....	16.73	17.53	16.13	17.01
28	.....	16.59	15.42	14.59	.....	.....	16.80	17.18	16.14	17.15
29	19.91	16.45	14.89	.....	22.84	.....	16.86	16.60	16.22	17.31
30	.....	16.15	15.00	.....	.....	17.06	17.00	16.49	16.25	17.39
31	.....	.....	15.21	.....	.....	17.06	.....	16.50	.....	17.43

(A-2-1)20cadd 2 (*1027, p. 121). State claim 1441. H. I. Burningham.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 8	16.73	May 6	13.25	July 1	15.60	Sept. 5	16.02
11	16.64	14	13.11	8	16.07	13	16.18
22	17.00	20	14.12	15	16.25	20	15.80
29	16.04	26	14.62	22	16.26	27	15.55
Apr. 5	16.26	June 3	14.97	29	16.27	Oct. 4	16.03
12	16.10	9	13.74	Aug. 12	18.82	11	15.74
19	15.80	14	13.28	26	16.22	18	16.08
26	15.04	21	13.75	30	16.66	23	16.07

(A-2-1)20odd 2--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 8	15.45	Nov. 29	15.37	Dec. 13	15.85	Dec. 27	15.94
15	15.47	Dec. 6	15.37	20	16.12		

(A-2-1)20odd 1. T. A. Briggs. Unused well, diameter 6 feet. Measuring point, top of well cover, at land surface.

Water level at noon, in feet below land surface datum, 1946
(From recorder charts)

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	20.06	....	8.78	12.79	16.24	19.09	20.83
2	.....	19.45	5.87	8.92	12.87	16.38	19.16	20.89
3	.....	18.76	5.89	9.07	12.95	16.46	19.22	20.93
4	.....	18.15	5.90	9.22	13.07	16.57	19.28	20.98
5	.....	17.56	5.94	9.30	13.22	16.68	19.33	21.01
6	.....	17.02	6.00	9.46	13.34	16.79	.....	21.07
7	23.92	16.42	....	9.62	13.47	16.89	.....	21.10
8	.....	15.44	6.05	9.79	13.60	17.00	19.56	21.17
9	.....	14.55	6.13	9.94	13.71	17.10	19.64	21.23
10	.....	13.73	6.19	10.09	13.81	17.22	19.69	21.26
11	.....	12.85	6.24	10.22	13.93	17.29	19.76	21.29
12	.....	12.10	6.30	10.36	14.05	17.36	19.83	21.33
13	.....	11.43	6.39	10.45	14.20	17.47	19.88	21.38
14	23.23	10.84	6.45	10.55	14.30	17.56	19.92	21.39
15	23.17	10.16	6.78	10.70	14.42	17.67	20.01	21.42
16	23.12	9.60	6.87	10.85	14.55	17.76	20.06	21.47
17	23.07	.....	6.97	10.99	14.69	17.87	20.12	21.50
18	23.00	.....	7.10	11.12	14.81	17.98	20.16	21.55
19	22.95	.....	7.21	11.23	14.92	18.06	20.20	21.57
20	22.90	.....	7.32	11.38	15.10	18.11	20.24	21.64
21	22.83	7.36	7.43	11.52	15.21	18.18	20.34	21.65
22	22.78	.....	7.33	11.66	15.34	18.25	20.39	21.69
23	22.73	.....	7.45	11.79	15.46	18.33	20.41	21.73
24	22.69	.....	7.59	11.92	15.57	18.42	20.49	21.76
25	22.61	.....	7.69	11.99	15.67	18.49	20.56	21.77
26	22.49	.....	7.84	12.12	15.78	18.56	20.60	21.78
27	22.43	.....	7.97	12.14	15.82	18.66	20.65	21.82
28	22.16	.....	8.10	12.27	15.94	18.76	20.69	21.86
29	21.87	.....	8.34	12.29	16.05	18.85	20.75	21.87
30	21.40	.....	8.47	12.59	16.15	18.94	20.80	21.92
31	20.88	.....	8.65	12.67	.....	19.01	.....	21.93

(A-2-1)20odd 1. State claim 1525. Ray Knighton. Unused well, diameter 8 inches, depth 44 feet. Measuring point, top of casing, at land surface.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.51	7.35	.....	17.36	20.68	22.89	24.34	25.32
2	19.18	7.18	9.47	17.52	20.76	22.96	24.38	25.36
3	18.65	7.00	9.70	17.66	20.84	23.02	24.40	25.38
4	6.80	9.94	17.80	20.92	23.06	24.44	25.39
5	6.46	10.18	17.95	21.01	23.11	24.47	25.41
6	16.75	6.25	10.45	18.07	21.11	23.16	24.51	25.44
7	16.10	5.98	.....	18.20	21.17	23.22	24.54	25.47
8	15.47	5.89	11.00	18.35	21.27	23.28	24.58	25.49
9	14.76	5.70	11.30	18.45	21.35	23.32	24.62	25.51

(A-2-1)20ddd 1--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
10	.....	14.16	5.64	11.58	18.56	21.42	23.37	24.65	25.52
11	.....	13.61	5.75	11.88	18.68	21.51	23.42	24.69	25.55
12	.....	13.11	5.79	12.18	18.81	21.59	23.46	24.72	25.57
13	.....	12.54	5.78	12.50	18.91	21.66	23.49	24.73	25.59
14	.....	12.01	5.86	12.82	18.99	21.74	23.53	24.80	25.61
15	.....	.....	5.94	13.14	19.12	21.80	23.57	24.83	25.62
16	.....	.....	6.04	13.26	19.21	21.88	23.61	24.86	25.63
17	.....	.....	6.17	.....	19.32	21.97	23.69	24.89	25.63
18	.....	.....	6.57	.....	19.42	22.04	23.74	24.92	25.64
19	.....	.....	6.53	.....	19.53	22.11	23.78	24.94	25.66
20	.....	.....	6.71	.....	19.62	22.22	23.82	24.98	25.72
21	.....	9.60	6.90	.....	19.71	22.28	23.86	25.01	25.73
22	.....	9.40	7.10	15.26	19.82	22.33	23.90	25.06	25.74
23	.....	9.18	7.18	15.51	19.90	22.40	23.95	25.08	25.74
24	23.18	9.00	7.18	15.78	20.01	22.49	24.00	25.11	25.76
25	22.86	8.81	7.18	16.00	20.09	22.53	24.08	25.15	25.78
26	21.91	8.86	7.18	16.21	20.19	22.60	24.11	25.16	25.79
27	21.02	8.41	7.18	16.42	20.27	22.66	24.15	25.19	25.80
28	20.35	8.25	7.18	16.62	20.36	22.71	24.20	25.22	25.81
29	19.87	8.05	7.52	16.84	20.44	22.77	24.23	25.27	25.82
30	19.70	7.80	....	17.00	20.53	22.82	24.28	25.29	25.83
31	.....	7.56	.....	17.18	20.60	.....	24.32	.....	25.84

(A-2-1)31ada 1. State application 17511. R. N. Schluter. Domestic well, diameter 8 inches, depth 195 feet. Measuring point, top of casing, 6 feet below land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 18	129.93	Nov. 1	129.62	Nov. 15	129.89	Dec. 20	129.97
25	129.68	8	129.59	29	129.74	27	129.85

(A-2-1)31caa 1. State application 17634. H. E. Calder. Domestic well, diameter 10 inches, depth 294 feet. Measuring point, top of casing, 6.0 feet below land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 11	155.60	Nov. 1	155.60	Nov. 29	155.45	Dec. 13	155.46
18	155.49	15	155.56	Dec. 6	155.31	20	155.45

(A-2-1)31cca 1. State claim 8147. South Bountiful Junction Water Co. Domestic well, diameter 8 inches, depth 216 feet. Measuring point, top of casing, at land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 14	126.30	Nov. 8	124.67	Dec. 6	124.88	Dec. 20	124.15
25	124.43	15	124.76	13	124.10	27	124.79
Nov. 1	124.26	.....	.....	.....	.....	.....	.....

(B-2-1)13aab 1. State application 17402. Leonard Napoli. Domestic well, diameter 2 inches, depth 268 feet. Measuring point, top of tee, at land surface. Water levels, in feet above land-surface datum, 1946:
May 8, 36.3; June 14, 33.9; June 24, 31.7; Aug. 19, 31.1.

(B-2-1)13acd 1 (*1027, p. 121). Security Investment Co. Water levels, in feet above land-surface datum, 1946: Jan. 24, 45.7; Feb. 20, 44.7; Apr. 15, 46.4.

(B-2-1)13caa 2 (*1027, p. 121). State application 14810. A. W. Seequist. Well flowing prior to measurements.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	52.3	May 15	48.3	June 24	36.0	Oct. 2	40.9
Feb. 20	51.2	27	45.3	July 15	36.5	Nov. 5	42.1
Apr. 15	52.8	June 3	48.1	Aug. 14	34.1	Dec. 21	44.7

(B-2-1)13cab 1. State claim 11590. David Pack. Domestic well, diameter 2 inches, depth 157 feet. Measuring point, top of tee, 3.0 feet above land surface and 4,226.72 feet above mean sea level.

Water level, in feet above land-surface datum, 1946

Mar. 22	27.7	May 27	20.5	July 15	15.1	Nov. 5	27.1
May 2	25.5	June 3	23.5	Aug. 14	17.8	Dec. 31	25.0
15	25.0	24	19.1	Oct. 2	23.1		

a Flowing prior measurement.

(B-2-1)13cda 1. State claim 11982. Earl Holbrook. Irrigation well, diameter 3 inches, depth 150 feet. Measuring point, top of tee, at land surface and 4,231.55 feet mean sea level.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Apr. 25	42.7	June 3	41.6	Aug. 14	31.1
May 27	39.0	July 15	28.9		

(B-2-1)13cdd 6. State claim a-1521. LeLand Smith. Irrigation well, diameter 3 inches, depth 327 feet. Measuring point, top of ell, 2.0 feet above land surface.

Water level, in feet above land-surface datum, 1946

May 27	52.7	July 5	a42.1	Oct. 2	48.4
June 3	53.7	Aug. 14	a42.3	Nov. 5	49.9

a Flowing prior to measurement.

(B-2-1)13daa 2. State claim 530. James Kippen. Domestic and irrigation well, diameter 2 inches, depth 165 feet. Measuring point, top of tee, 3.0 feet above land surface and 4,251.08 feet above mean sea level.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 15	37.2	June 3	34.7	Aug. 16	22.2	Nov. 4	35.2
May 15	30.8	24	22.5	Oct. 2	32.4	Dec. 31	35.5
27	31.9	July 15	20.2				

(B-2-1)13dba 3 (*1027, p. 121). State claim 18739. Charles Stewart. Water levels, in feet above land-surface datum, 1946: Jan. 24, 43.5; Feb. 20, 43.0.

(B-2-1)13ddd 1 (*1027, p. 122). State claim 449. William Bull.

Water level, in feet above land-surface datum, 1946

Jan. 24	24.2	May 15	20.9	June 3	22.4	July 15	11.0
Apr. 4	23.7	27	21.4	24	12.3	Aug. 16	13.7

(B-2-1)24aaa 7 (*1027, p. 122). State application 15555. Water levels, in feet above land-surface datum, 1946: Apr. 4, 27.4; May 15, 26.4, flowing prior to measurement; May 27, 26.5; June 24, 21.7.

(B-2-1)24acc 8 (*1027, p. 122). State claim 15266. Susie Wright.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	16.8	May 15	a13.5	June 24	a7.5	Oct. 2	13.3
Feb. 21	16.2	17	a13.2	July 15	a6.5	Nov. 5	14.8
Apr. 10	16.3	June 3	a14.1	Aug. 15	a7.3	Dec. 31	14.7

a Flowing prior to measurement.

(B-2-1)24baa 9 (*1027, p. 122). State claim 15203. D. E. McKean Estate.

Water level, in feet above land-surface datum, 1946

Jan. 24	36.4	May 15	29.9	June 24	20.0	Oct. 2	29.1
Feb. 20	35.8	27	26.4	July 15	a18.5	Nov. 5	32.2
Apr. 8	36.0	June 14	21.1	Aug. 15	20.3	Dec. 31	32.9

a Flowing prior to measurement.

(B-2-1)24bad 3 (*1027, p. 122). State claim 2677. C. R. Gull.

Water level at noon, in feet above land-surface datum, 1946

(From recorder charts)

Day	Jan.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.8	42.4	40.7	41.2	43.4	45.3	46.5
2	45.8	42.3	40.7	42.2	43.3	....	46.6
3	42.7	46.1	....	40.7	43.2	43.8	45.6	46.9
4	43.7	45.9	41.7	40.2	43.2	44.2	45.7	46.7
5	44.8	44.2	....	....	43.3	44.6	45.8	46.8
6	44.7	44.2	42.0	....	43.3	44.5	45.5	47.0
7	44.2	41.9	41.8	40.2	43.3	44.6	45.3	47.0
8	43.7	43.8	....	41.2	43.3	45.1	45.8	46.6
9	a47.7	....	41.2	41.8	40.5	43.7	45.1	....	46.9
10	43.9	43.9	41.8	40.5	43.7	45.1	....	46.0
11	44.5	43.7	41.8	40.5	43.7	45.4	....	46.6
12	44.7	....	41.3	41.0	43.7	45.7	....	46.5
13	44.7	43.2	41.2	41.3	....	45.6	....	47.2
14	44.4	43.0	41.5	41.7	....	45.7	....	47.0
15	44.7	43.2	42.0	41.3	43.0	45.8	....	46.9
16	44.7	42.8	40.2	41.7	43.2	45.9	....	46.8
17	43.0	40.5	41.4	43.5	45.8	....	47.0
18	43.0	40.8	41.2	43.7	45.2	....	46.6
19	42.7	40.2	41.5	....	45.3	....	46.5
20	43.2	....	41.1	44.1	45.2	....	46.7
21	44.6	42.7	40.7	41.2	44.2	45.4	....	46.9
22	42.7	....	40.2	44.2	45.6	....	46.7
23	44.0	42.7	40.8	41.4	44.0	44.9	....	46.9
24	a48.0	....	44.9	42.9	40.9	42.2	44.1	44.9	....	46.9
25	45.2	42.2	41.8	42.3	43.8	45.5	....	46.6
26	46.2	45.2	42.7	41.7	42.5	43.8	45.3	47.0	46.7
27	46.2	45.2	42.7	40.5	42.5	43.3	45.3	46.8	47.0
28	46.2	45.2	42.7	41.2	....	43.1	45.2	46.8	47.0
29	45.7	45.5	42.2	41.6	42.2	43.0	45.4	46.9	46.7
30	45.6	....	40.8	42.2	43.2	45.2	46.7	46.7
31	45.8	....	40.5	42.2	....	45.1	....	46.9

a Gage reading.

(B-2-1)24bad 5. State claim 11382. George Mann. Unused well, diameter 2 inches. Measuring point, top of nail head in recorder support, 1.0 foot above land surface and 4,251.59 feet above mean sea level.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	30.7	27.4	26.1	16.6	16.9	22.0	25.5	28.7	29.6
2	....	30.7	27.7	26.1	17.3	16.6	22.7	26.2	....	29.5
3	....	30.7	27.9	26.1	17.6	16.5	22.9	25.6	28.6	29.5
4	....	30.8	27.9	24.8	17.7	16.4	22.8	26.6	28.7	29.5
5	....	30.7	26.9	24.4	16.6	16.7	23.6	26.7	28.8	29.5
6	....	30.7	26.1	23.3	17.2	17.2	23.4	26.7	28.9	29.7
7	....	30.9	26.1	21.9	17.4	17.5	23.2	26.8	28.9	29.7
8	....	31.2	25.9	22.4	17.3	17.4	23.3	26.9	28.9	29.7
9	....	31.2	24.1	22.1	16.3	17.8	23.5	27.0	28.9	29.6
10	....	31.2	25.0	20.8	17.0	17.2	23.1	27.2	28.9	29.6
11	....	30.9	25.1	19.7	17.0	17.2	23.5	27.7	28.9	29.7
12	....	30.7	24.7	19.7	17.2	18.1	22.8	27.7	29.1	29.7
13	31.3	31.2	26.7	20.3	17.6	17.4	22.4	27.3	29.0	29.9
14	31.3	31.2	25.9	19.7	17.1	18.2	22.3	27.5	29.0	29.9
15	30.9	31.2	25.1	18.6	17.1	....	22.5	27.9	29.1	29.9
16	30.8	31.1	24.9	18.9	17.4	....	23.0	27.6	29.1	29.9
17	31.0	31.0	24.8	17.9	16.6	....	23.1	27.7	29.1	29.9
18	31.1	31.2	23.6	18.9	17.0	....	23.7	27.8	29.2	30.0
19	31.0	30.7	23.2	19.1	16.6	18.8	24.4	27.7	29.3	30.0
20	31.0	30.1	22.4	18.5	16.7	18.6	25.1	27.7	29.3	30.0
21	31.1	29.8	22.3	17.9	16.6	18.7	25.1	27.7	29.3	29.9
22	30.8	29.6	22.5	18.7	16.3	18.8	24.7	27.8	29.3	30.0
23	30.8	29.5	23.6	18.9	16.1	19.6	24.8	27.8	29.3	29.9
24	30.8	29.4	24.7	18.7	16.5	20.5	24.2	28.1	29.4	30.1
25	30.9	28.7	25.5	18.1	17.2	21.2	24.5	28.2	29.3	30.1
26	30.9	28.7	24.4	18.3	17.4	21.6	25.0	28.4	29.4	30.1
27	31.0	....	24.3	17.4	17.2	21.8	24.0	28.0	29.4	30.1
28	31.3	28.3	25.8	18.3	17.1	22.0	23.9	28.1	29.4	30.1
29	31.0	28.3	26.1	16.8	17.2	21.6	24.9	28.1	29.4	30.1
30	30.8	27.4	26.8	17.6	17.2	21.7	25.1	28.3	29.4	30.1
31	30.7	....	26.1	....	16.6	21.6	....	28.1	....	30.2

(B-2-1)24bad 11 (*1027, p. 122). State claim 12542. Robert Stringham. Measurements discontinued after Oct. 2.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	45.2	May 15	a37.0	June 24	32.3	Aug. 15	a32.0
Feb. 20	45.0	27	42.6	July 15	a32.0	Oct. 2	36.4
Apr. 8	45.1						

a Flowing prior to measurement.

(B-2-1)24bad 13 (*1027, p. 123). State claim 12585. George Stevens. Water levels, in feet above land-surface datum, 1946: Feb. 20, 30.4; Apr. 9, 30.8. Measurements discontinued.

(B-2-1)24bda 4 (*1027, p. 123). State claim 9781. Water levels, in feet above land-surface datum, 1946: Jan. 24, 27.7; Feb. 20, 27.2; Apr. 10, 27.0. Measurements discontinued.

(B-2-1)24bda 8 (*1027, p. 123). State claim 12052. Hal S. Eldredge. Water levels, in feet above land-surface datum, 1946: Apr. 10, 29.6; Nov. 25, 28.0. Measurements discontinued.

(B-2-1)24cda 6 (*1027, p. 123). Charles Taylor.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	23.5	Apr. 25	18.9	June 3	21.9	Aug. 15	19.0
Feb. 21	22.9	May. 15	22.3	24	19.8	Oct. 2	20.3
Apr. 12	19.0	27	21.4	July 15	13.8	Nov. 5	21.6

(B-2-1)24cda 8 (*1027, p. 123). Charles Taylor.

Water level, in feet above land-surface datum, 1946

Apr. 12	15.3	June 3	14.6	July 15	9.8	Oct. 2	al3.2
25	15.1	24	9.6	Aug. 15	al0.2	Nov. 5	14.8
May 15	al4.8						

^a Flowing prior to measurement.

(B-2-1)24dcc 3 (*1027, p. 123). Wasatch Oil Refining Co.

Water level, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.9	7.7	7.3	7.5	7.7	6.8	5.3	4.0	4.3	4.9	5.1	5.6
2	...	7.7	7.4	7.4	7.7	6.7	5.4	4.2	4.5	5.1	5.0	5.6
3	...	7.8	7.5	7.3	7.7	6.6	5.5	4.0	4.6	5.1	5.0	5.7
4	...	7.8	7.3	7.4	7.5	6.5	5.5	3.9	4.8	5.2	5.0	5.7
5	8.4	7.7	7.2	7.4	7.3	6.5	5.5	3.9	5.1	5.2	5.3	5.9
6	8.2	7.6	7.1	7.5	7.0	6.5	5.5	3.8	5.1	5.1	5.5	6.0
7	8.1	7.7	7.0	7.4	6.8	6.2	5.4	4.0	5.1	5.0	5.5	5.9
8	8.0	7.6	7.2	7.5	6.7	6.5	5.4	4.1	5.0	5.1	5.5	5.6
9	7.8	7.6	7.2	7.4	6.8	6.5	5.4	4.0	4.8	5.2	5.5	5.6
10	8.0	7.7	7.3	7.3	...	5.8	5.5	3.9	4.8	5.4	5.5	5.8
11	8.1	7.6	7.3	7.4	...	5.7	5.5	3.9	4.9	5.7	5.5	5.9
12	8.0	7.4	7.2	...	...	5.7	5.6	4.2	5.1	5.6	5.5	6.0
13	8.0	7.3	7.2	7.6	7.2	5.8	5.4	4.3	5.1	5.3	5.6	6.1
14	8.0	7.3	7.1	7.6	7.4	5.8	5.3	4.4	5.0	5.2	5.8	5.9
15	7.9	7.4	...	7.5	7.4	5.6	5.1	4.4	5.1	5.2	5.6	5.6
16	7.8	7.3	...	7.5	7.0	5.3	4.7	4.3	4.9	5.2	5.5	5.6
17	7.9	7.3	...	7.6	7.0	5.3	4.5	4.2	4.9	5.3	5.5	5.6
18	8.0	7.3	...	7.5	6.5	5.4	4.4	4.1	5.0	5.0	5.5	5.7
19	7.9	7.3	...	7.8	6.5	5.5	4.5	3.8	5.2	5.0	5.6	5.9
20	8.0	7.3	...	7.9	6.4	5.8	4.5	4.0	5.2	5.0	5.8	5.8
21	7.9	7.3	...	8.0	6.0	5.9	4.1	4.2	5.5	5.0	5.7	5.7
22	7.8	7.3	7.5	7.9	6.3	5.6	4.0	4.3	5.1	5.0	5.6	5.6
23	7.7	7.3	7.5	7.8	6.4	5.7	4.4	4.3	5.0	5.0	5.6	5.6
24	7.9	7.4	7.5	7.8	6.5	5.6	4.4	4.3	5.0	5.0	5.5	5.7
25	7.9	7.3	7.5	7.9	6.4	6.0	4.6	4.2	5.0	5.0	5.5	5.8
26	7.8	7.2	7.5	8.0	6.3	5.9	4.4	4.3	5.0	5.0	5.5	6.4
27	7.9	7.1	7.4	8.0	6.3	6.0	4.5	4.3	5.0	4.9	5.6	6.1
28	7.9	7.2	7.5	7.9	6.5	6.0	4.4	4.5	4.7	4.9	5.7	5.8
29	7.8		7.4	7.9	6.5	5.6	4.4	4.7	4.6	4.9	5.8	5.8
30	7.6		7.4	7.8	6.6	5.4	4.3	4.7	4.6	4.9	5.6	5.6
31	7.7		7.4		6.8		4.3	4.5		5.1		5.7

(B-2-1)25bad 1 (*817, p. 364). State claim 11299. J. H. Day.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 16	21.7	May 27	19.0	July 15	17.5	Oct. 2	18.9
25	21.9	June 24	18.8	Aug. 15	17.5	Nov. 4	19.6
May 15	20.2						

a Flowing prior to measurement.

(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; 1020, p. 75; 1027, p. 124). State claim 12452. Myrtle Hatch.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 24	8.0	Apr. 16	7.2	Nov. 27	6.1
Feb. 21	7.3	Oct. 3	4.6	Dec. 31	6.3

(B-2-1)25bbd 1 (published as 25bb-9 in *817, p. 366). Reuben Hatch. Measuring point is 4,269.10 feet above mean sea level.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 16	14.6	May 27	12.2	July 15	9.6	Oct. 2	10.7
25	14.6	June 24	10.1	Aug. 15	8.1	Nov. 5	13.3
May 15	14.1						

(B-2-1)25bbd 2 (*1027, p. 124). Reuben Hatch. Unused well, diameter 2 inches, depth 140 feet. Measuring point, top of tee, 2.5 feet above land surface and 4,268.9 feet above mean sea level.

Water level, in feet above land-surface datum, 1946

Jan. 24	18.5	Apr. 25	18.5	June 24	14.7	Oct. 2	15.1
Feb. 21	18.0	May 15	17.5	July 15	13.8	Nov. 5	15.9
Apr. 16	18.5	27	16.0	Aug. 15	12.6	Dec. 31	17.7

(B-2-1)25bda 3 (*817, p. 367). S. H. Smith. Measuring point, top of casing, at land surface and 4,299.02 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Apr. 18	5.34	June 3	6.38	Aug. 15	7.76	Nov. 4	7.62
May 15	5.80	24	6.96	Oct. 2	7.16	Dec. 31	6.56
27	6.65	July 15	7.26				

(B-2-1)25caa 4 (*817, p. 367). Adolphus Ellis. Measuring point is 4,303.2 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Apr. 18	8.46	June 24	9.62	Aug. 15	10.78	Nov. 4	9.58
May 27	10.00	July 15	9.92	Oct. 2	10.10	Dec. 31	9.29
June 3	9.84						

(B-2-1)26aaa 2 (*817, p. 368). State claim 12474. Alvin Winegar.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 17	28.7	May 27	25.1	July 15	20.6	Nov. 4	22.7
25	29.1	June 3	24.7	Aug. 14	18.4	Dec. 31	28.3
May 15	27.6	24	21.5	Oct. 2	22.4		

(B-2-1)26aaa 3 (*817, p. 368). State claim 12512. James Layton.

Water level, in feet above land-surface datum, 1946

Apr. 17	38.5	May 27	36.0	July 15	31.5	Nov. 4	35.3
25	38.4	June 3	a35.3	Aug. 14	30.1	Dec. 31	39.2
May 15	36.7	24	33.1	Oct. 2	33.5		

a Flowing prior to measurement.

(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; 1020, p. 75; 1027, p. 124). State claim 3556. Clyde Hatch.

Water level, in feet above land-surface datum, 1946

Jan. 24	48.9	May 27	43.6	July 15	41.7	Nov. 4	45.6
Feb. 21	48.3	June 3	44.2	Aug. 14	41.2	27	47.0
Apr. 16	48.4	14	42.2	Oct. 2	43.5	Dec. 31	46.3
May 15	44.6	24	43.2				

(B-2-1)26dad 2 (*817, p. 371; *840, p. 529; 1027, p. 124). State claim 12102. A. E. Lawrence. Measuring point, top of ell, 1.0 above land surface. Water levels, in feet above land-surface datum, 1946: Feb. 21, 20.6; Apr. 17, 20.5. Measurements discontinued.

(B-2-1)26dda 2 (*817, p. 372). State claim 11306. Winnie Whitecar.

Water level, in feet above land-surface datum, 1946

Apr. 19	18.0	May 27	11.0	July 15	9.4	Oct. 2	13.5
25	18.2	June 3	12.4	Aug. 14	8.8	Nov. 4	14.2
May 15	12.7	24	11.6				

(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; 1020, p. 75; 1027, p. 125). State claim 12034. Albert Thalman.

Water level, in feet above land-surface datum, 1946

Jan. 24	30.6	May 27	23.8	July 15	21.8	Nov. 4	27.5
Feb. 21	30.8	June 21	23.2	Aug. 14	21.2	27	29.3
Apr. 18	30.8	24	22.6	Oct. 2	24.0	Dec. 31	33.0
May 15	25.4						

(B-2-1)34ada 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; 1020, p. 75; 1027, p. 125). State claim 9308. M. H. Dearden.

Water level, in feet above land-surface datum, 1946

Jan. 24	18.3	May 27	15.0	July 15	13.8	Nov. 4	15.9
Feb. 21	18.7	June 21	16.0	Aug. 13	12.9	27	19.8
Apr. 22	20.3	24	15.8	Oct. 2	15.3	Dec. 31	22.2
May 15	16.6						

(B-2-1)36dad 1 (*817, p. 377). State claim 11335. D. E. Howard.
Water levels, in feet above land-surface datum, 1946: Apr. 22, 14.6;
Oct. 2, 11.2; Nov. 4, 14.6; Nov. 27, 14.1.

(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; 1020, p. 76; 1027,
p. 125). State claim 4550. M. P. Parkin.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	14.80	May 15	16.89	Sept. 24	17.24	Oct. 2	17.29
Feb. 21	15.46	27	17.35	July 15	17.09	Nov. 4	17.70
Apr. 19	15.84	June 3	17.32	Aug. 15	17.52		

(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; 1020, p. 76; 1027,
p. 125). State claim 951. Anna I. Lemon.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.8	11.3	10.8	10.8	10.6	8.8	8.9	7.7	8.0	8.5	....	10.2
2	11.9	11.5	11.0	....	10.4	8.8	8.8	7.8	8.1	8.4	....	10.2
3	11.7	11.4	11.1	....	10.2	8.9	8.7	7.8	8.4	8.3	....	10.4
4	11.8	11.3	11.0	....	10.0	8.7	8.6	7.8	8.5	8.5	....	10.5
5	11.9	11.2	10.9	10.9	9.9	8.7	8.7	7.7	8.5	8.8	....	10.5
6	11.8	11.2	11.0	10.8	9.7	8.5	8.7	7.6	8.7	8.6	....	10.4
7	11.8	11.2	10.8	10.6	9.6	8.5	8.8	7.7	8.7	8.6	....	10.5
8	11.7	11.1	10.9	10.6	9.2	8.5	8.7	7.7	8.7	8.7	....	10.3
9	11.8	11.1	11.1	....	9.0	8.5	8.6	7.7	8.8	8.7	....	10.2
10	12.0	11.2	11.2	....	9.0	8.2	8.6	7.8	8.9	8.6	....	10.3
11	11.7	11.2	11.1	10.9	9.1	8.1	8.6	7.7	8.9	8.6	....	10.5
12	11.6	11.0	11.0	10.9	9.1	8.1	8.7	7.7	8.9	8.7	....	10.4
13	11.6	11.0	11.0	11.0	9.3	8.1	8.7	7.7	8.9	8.5	....	10.3
14	11.6	10.9	10.8	10.8	9.2	8.1	8.6	7.8	9.0	8.4	....	10.3
15	11.7	....	....	10.8	9.1	8.2	8.5	7.7	9.1	8.4	....	10.3
16	11.8	....	10.8	10.8	9.1	8.2	8.3	7.7	9.0	8.1	....	10.1
17	11.6	....	10.7	10.9	9.1	8.2	8.2	7.7	8.8	8.0	....	....
18	11.6	....	10.8	10.8	9.0	8.2	8.1	7.7	8.9	8.1	....	....
19	11.5	....	10.9	10.9	8.8	8.4	7.9	7.7	8.9	....	....	....
20	11.6	....	10.7	10.8	8.8	8.4	7.9	7.6	9.0	....	....	10.1
21	11.6	11.0	....	10.7	8.7	8.6	7.8	7.6	9.2	....	....	10.2
22	11.5	10.9	10.8	10.6	8.7	8.7	7.8	7.5	8.9	....	....	10.0
23	11.6	11.1	10.8	10.8	8.5	8.7	7.7	7.5	8.9	....	....	10.0
24	11.5	11.2	10.6	10.9	8.5	8.5	7.7	7.7	9.0	....	....	10.2
25	11.5	11.1	10.5	10.8	8.6	8.5	7.7	7.6	9.0	8.1	10.2	10.2
26	11.4	11.1	10.7	10.9	8.6	8.7	7.8	7.7	8.8	8.1	10.3	10.2
27	11.4	11.1	10.8	10.6	8.5	8.8	7.8	7.8	8.6	8.0	10.5	10.3
28	11.3	....	10.9	10.8	8.5	8.5	7.9	7.8	8.6	7.7	10.4	10.2
29	11.5	....	10.8	10.8	8.5	8.5	7.9	7.8	8.6	7.8	10.4	....
30	11.2	....	10.9	10.6	8.6	8.7	7.8	7.8	8.5	7.7	10.4	....
31	11.1	....	10.8	....	8.7	....	7.7	7.9	....	7.7	....	....

(B-2-1)36caa 1 (*817, p. 380). William Moss Estate.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 19	6.06	June 3	7.98	Aug. 15	8.53	Nov. 4	8.44
May 15	7.42	24	7.57	Oct. 2	8.01	Dec. 31	6.44
27	7.98	July 15	7.57				

(B-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; 1020, p. 76; 1027, p. 126). State claim 17108. Edna T. Harwood. Formerly owned by Farmers State Bank. Flowing prior to measurements.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	5.70	Apr. 18	4.60	Aug. 15	1.19	Dec. 31	4.48
Feb. 21	5.20	May 15	2.72	Nov. 27	3.70		

Duchesne County - Unita Basin^{6/}

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; *990, p. 61; 1020, p. 76; 1027, p. 126). State claim 8162. Drought Relief Administration. Water level, in feet below land-surface datum, 1946: Oct. 23, 16.51.

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; 1020, p. 76; 1027, p. 126). State claim 2152. R. M. Clarke. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 23, 11.7.

U(C-1-2)27aaa 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; 1020, p. 76; 1027, p. 126). State claim 8162. Drought Relief Administration. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 23, 13.6.

U(C-1-2)28dcd 1 (*886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61; 1020, p. 77; 1027, p. 126). D. H. Allred. Water level, in feet below land-surface datum, 1946: Oct. 22, 6.22.

U(C-1-3)31caa 5 (*886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61; 1020, p. 77; 1027, p. 126). R. A. Lister. Water level, in feet below land-surface datum, 1946: Oct. 22, 3.31.

U(C-1-4)14aad 1 (*886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; 990, p. 61; 1020, p. 77; 1027, p. 126). State application 12748. Forest Service, U. S. Dept. of Agriculture. Water level, in feet below land-surface datum, 1946: Oct. 22, 3.46.

U(C-1-4)28dcc 1 (*886, p. 797; 910, p. 65; 940, p. 57; 948, p. 60; *990, p. 61; 1020, p. 77; 1027, p. 126). State claim 8170. Drought Relief Administration. Water level, in feet below land-surface datum, 1946: Oct. 22, 8.24.

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; 1020, p. 77; 1027, p. 126). State claim 8165. Drought Relief Administration. Water level, in feet below land-surface datum, 1946: Oct. 22, 11.55.

U(C-2-1)15dda 1 (*886, p. 797; *910, p. 65; 948, p. 60; *990, p. 61; 1020, p. 77; 1027, p. 126). State application 12977. R. Q. Warnock. No measurements made in 1946.

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; 1027, p. 126). State application 12440. E. H. Peterson. Water level, in feet above land-surface datum, 1946: Oct. 23, 32.6.

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. 62; 1027, p. 127). State claim 958. Stephen Wogac. Water level, in feet above land-surface datum, 1946: Oct. 23, 35.2.

U(C-2-2)13ddc (*1020, p. 77; 1027, p. 127). State application 15324. Hugh Gagon. No measurements made in 1946.

^{6/} For other wells in this basin see page 129.

U(C-2-2)23bac 1 (*817, p. 478; *840, p. 614; 845, p. 581; 886, p. 799; 910, p. 65; 940, p. 58; 948, p. 60; 990, p. 62; 1020, p. 77; 1027, p. 127). State claim 1658. City of Roosevelt. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 23, 9.9.

U(C-2-3)33ced 1 (*886, p. 798; 910, p. 66; 940, p. 58; 948, p. 61; *990, p. 62; 1020, p. 77; 1027, p. 127). R. B. Thompson. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 22. 4.2.

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. 61; *990, p. 62; 1020, p. 78; 1027, p. 127). Henry Richins. No measurements made in 1946.

U(C-3-4)7cad 1 (*817, p. 479; *886, p. 798; 910, p. 66; 948, p. 61; *990, p. 62; 1020, p. 78; 1027, p. 127). Knight Investment Co. Water level, in feet below land-surface datum, 1946: Oct. 22, 99.65.

U(C-3-4)21aaa 1 (*817, p. 479; 840, p. 614; 845, p. 581; 886, p. 798;
910, p. 66; 940, p. 58; 948, p. 61; *990, p. 62; 1020, p. 78; 1027, p. 12 7).
Knight Investment Co. Water level, in feet below land-surface datum, 1946:
Oct. 22, 97.38.

U(C-3-4)22bad 1 (*817, p. 479; 840, p. 614; 845, p. 581; 886, p. 798
910, p. 66; 940, p. 58; 948, p. 61; *990, p. 62; 1020, p. 78; 1027, p. 127).
Knight Investment Co. Water level, in feet below land-surface datum, 1946:
Oct. 22. 157.35.

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; 1020, p. 78; 1027, p. 127).
Drought Relief Administration.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

[illegible]

U(C-4-3)4bdc 1 (*886, p. 799; 910, p. 66; 940, p. 58; 948, p. 61; *990, p. 63; 1020, p. 78; 1027, p. 128). State application 12568. Bureau of Reclamation, U. S. Dept. of Interior. Water level, in feet below land-surface datum, 1946: Oct. 22, 7.00.

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; 1020, p. 79; 1027, p. 128). Gus Lambson. Water levels, in feet below land-surface datum, 1946: Mar. 20, 11.50; Dec. 16, 12.17.

(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; 1020, p. 79; 1027, p. 128). T. W. Roberts. Water levels, in feet below land-surface datum, 1946: Mar. 20, 11.30; Dec. 16, 8.01.

(C-35-4)34dca 1 (*845, p. 582; 886, p. 799; *910, p. 67; 940, p. 59; 948, p. 62; *990, p. 64; 1020, p. 79; 1027, p. 128). State claim 5140. Charles and Will Proctor. Water levels, in feet below land-surface datum, 1946: Mar. 19, 6.47; Dec. 15, 7.92.

(C-36-3)7aac 1 (*845, p. 582; *886, p. 799; 910, p. 67; *940, p. 59; 948, p. 62; *990, p. 64; 1020, p. 79; 1027, p. 128). Lillie Stead. Water levels, in feet below land-surface datum, 1946: Mar. 19, 5.95; Dec. 15, 6.60.

(C-36-3)18bdd 1 (*845, p. 582; 886, p. 799; 910, p. 67; 940, p. 59; 948, p. 62; *990, p. 64; 1020, p. 79; 1027, p. 128). R. G. Syrett. Water level, in feet below land-surface datum, 1946: Mar. 19, 93.02.

Garfield County - Upper Sevier Valley

(C-35-5)28bcd 1 (*840, p. 566; 845, p. 582; 886, p. 799; *910, p. 66; 940, p. 59; 948, p. 62; 990, p. 63; 1020, p. 79; 1027, p. 128). State application 11739. Annie Wilcock. Water levels, in feet below land-surface datum, 1946: Mar. 20, 46.35; Dec. 16, 46.56.

(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; 1020, p. 79; 1027, p. 128). Deward Hayward. Water levels, in feet below land-surface datum, 1946: Mar. 20, 18.35; Dec. 16, 17.55.

(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; 1020, p. 79; 1027, p. 129). Reed Hayward. Water level, in feet below land-surface datum, 1946: Mar. 19, 16.46. Measurements discontinued, well filled.

(C-36-5)29da (*817, p. 435; 840, p. 585; *845, p. 582; 886, p. 800; 910, p. 67; 940, p. 59; 948, p. 62; *990, p. 64; 1020, p. 79; 1027, p. 129). J. A. Yardley. Water levels, in feet below land-surface datum, 1946: Mar. 19, 31.85; Dec. 15, 30.08.

Grand County - Colorado River area

Courthouse Syncline

(D-22-19)27dbb 1 (*948, p. 62; 990, p. 64). Frank Paxton. Water-bearing formation: Sandstone in Morrison formation. Water level, in feet below land-surface datum, 1946: Oct. 21, 44.90.

(D-24-20)22bac 1 (*948, p. 62; *990, p. 64). Bureau of Land Management, U. S. Dept. of Interior. Water-bearing formation: Alluvium of Courthouse Wash. Water level, in feet below land-surface datum, 1946: Oct. 15, 12.35.

^{7/} For other wells in this valley see page 107.

Green River Desert

(D-22-24)29cbe 1. State application 13068. Bureau of Land Management, U. S. Dept. of Interior. Unused stock well, diameter 8 inches, depth 160 feet. Measuring point, top of casing, 1.0 foot above land surface. Water-bearing formation: Limestone and shale of Morrison formation. Water level, in feet below land-surface datum, 1946: Oct. 15, 20.83.

Moab-Spanish Valley

(D-25-21)28add 1. State application 13068. Bureau of Land Management, U. S. Dept. of Interior. Unused stock well, diameter 8 inches, depth 67 feet. Measuring point, top of casing, 1.0 foot above land surface. Water-bearing formation: Alluvium. Water level, in feet below land-surface datum, 19 : Oct. 16, 37.61.

(D-26-22)17dbb 2 (*948, p. 62; 990, p. 64). Cleveland. Water-bearing formation: Alluvium. Water level, in feet below land-surface datum, 1946: Oct. 16, 47.45.

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; 1020, p. 79; 1027, p. 129). State claim 1222. D. C. Urie.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.07	23.86	23.40	23.14	22.76	23.31	23.90	.....	26.22	27.06	27.49	27.36
2	24.04	23.80	23.47	23.13	22.77	23.29	23.98	.....	26.23	27.14	27.51	27.38
3	24.00	23.67	.....	23.19	22.74	23.27	24.09	.....	26.28	27.15	27.53	27.36
4	24.03	23.66	23.22	23.15	.....	23.24	24.15	.....	26.31	27.22	27.55	27.35
5	23.97	23.59	23.21	23.12	22.71	23.21	24.01	.....	26.38	27.27	27.51	27.31
6	24.04	23.63	23.22	23.08	22.71	23.20	24.12	25.22	26.43	27.28	27.49	27.28
7	24.03	23.71	23.19	23.06	22.71	23.31	.....	25.20	26.46	27.29	27.46	27.27
8	23.96	23.65	23.22	23.04	22.69	23.45	.....	25.26	26.78	27.27	27.49	27.32
9	24.01	23.68	23.25	23.01	22.73	23.51	.....	25.33	26.81	27.30	27.50	27.33
10	23.97	23.63	23.26	23.02	22.80	23.51	.....	25.37	26.80	27.32	27.49	27.32
11	23.95	23.67	23.31	22.98	22.87	23.45	.....	25.44	26.83	27.33	27.50	27.27
12	24.00	23.62	23.26	22.92	22.87	23.37	.....	25.54	26.84	.....	27.51	27.27
13	23.97	23.60	23.34	22.87	22.89	23.34	.....	25.54	26.85	27.34	27.50	27.27
14	23.93	23.62	23.31	22.89	22.94	23.34	.....	25.57	26.85	27.34	27.46	27.25
15	23.94	23.69	23.27	22.94	22.98	.....	.....	25.59	26.57	27.35	27.42	27.23
16	23.92	23.72	23.27	22.95	23.05	23.36	.....	25.62	26.48	27.35	27.48	27.21
17	23.91	23.55	.....	22.93	23.08	23.34	.....	25.67	26.51	27.39	27.47	27.23
18	23.87	23.57	.....	22.91	23.11	23.41	.....	25.72	26.58	27.41	27.45	27.21
19	23.88	23.61	23.21	22.87	23.17	23.46	.....	25.67	26.61	27.42	27.41	27.19
20	23.88	23.62	23.22	22.85	23.22	23.46	.....	25.66	26.59	27.48	27.38	27.18
21	23.84	23.64	23.22	22.77	23.19	23.47	.....	25.67	26.58	27.49	27.46	27.15
22	23.87	23.62	23.24	22.76	23.12	23.49	.....	25.68	26.70	27.50	27.45	27.14
23	23.87	23.64	23.18	22.73	23.15	23.52	.....	25.74	26.72	27.51	27.38	27.14
24	23.91	23.40	23.16	22.70	23.21	23.58	25.23	25.73	26.75	27.55	27.39	27.11
25	23.96	23.42	23.21	22.69	23.30	23.59	25.25	25.77	26.79	27.54	27.43	27.08
26	23.90	23.42	23.16	22.68	23.30	23.65	25.31	25.86	26.84	27.50	27.42	27.03
27	23.81	23.43	23.11	22.66	23.30	23.71	25.36	25.93	26.90	27.47	27.41	27.02
28	23.84	23.44	23.06	22.67	23.29	23.77	25.39	25.99	26.94	27.50	27.39	27.01
29	23.84	.....	23.10	22.66	23.34	23.82	25.37	26.05	26.94	27.50	27.37	27.04
30	23.80	.....	23.07	22.68	23.35	23.88	25.27	26.10	27.02	27.52	27.37	.....
31	23.80	.....	23.12	.....	23.33	.....	25.25	26.16	.....	27.53	.....	.....

(C-35-11)21dec 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; 1020, p. 80; 1027, p. 130). State claim 11599. Wilford Fire. Water levels, in feet below land-surface datum, 1946: Mar. 18, 25.91; Dec. 14, 31.57.

(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; 1020, p. 80; 1027, p. 130). State claim 382. Fernleigh Gardner.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	38.63	Mar. 24	36.77	June 23	49.70	Oct. 27	46.89
Feb. 24	37.21	Apr. 28	41.55	Aug. 25	51.65	Dec. 8	43.93
Mar. 18	36.86	May 26	47.10	Sept. 29	52.53	14	43.65

(C-35-11)33aac 1 (*777, p. 244; *817, p. 532; *840, p. 578; 845, p. 607; *886, p. 814; 910, p. 79; 940, p. 60; 948, p. 64; 990, p. 66; 1020, p. 80; 1027, p. 130). State claim 5126. Cottonwood Pump & Irrigation Co. Water levels, in feet below land-surface datum, 1946: Mar. 18, 59.62; Dec. 14, 66.79.

(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; 1020, p. 80; 1027, p. 130). State claim 13494. Leonard Hargrave. Water levels, in feet below land-surface datum, 1946: Mar. 18, 48.58; Dec. 14, 56.20.

(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; 1020, p. 80; 1027, p. 130). State claim 17383. Jacob Smith. Water levels, in feet below land-surface datum, 1946: Mar. 18, 19.53; Dec. 14, 23.50.

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; 1020, p. 81; 1027, p. 130). M. S. Jones. Water levels, in feet below land-surface datum, 1946: Mar. 18, 0.15; Dec. 14, 0.41.

(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; 1020, p. 81; 1027, p. 130). Richard Williams. Water levels, in feet below land-surface datum, 1946: Mar. 18, 44.62; Dec. 11, 50.69.

(C-35-11)1dc 1 (*840, p. 574; 845, p. 598; *886, p. 805; *910, p. 70; 940, p. 59; 948, p. 63; *990, p. 65; 1020, p. 81; 1027, p. 130). State claim 17278. Ray Grimshaw. Water levels, in feet below land-surface datum, 1946: Mar. 18, 2.34; Dec. 14, 3.38.

(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; 1020, p. 81; 1027, p. 130). State claim 14000. David Murie. Water levels, in feet below land-surface datum, 1946: Mar. 18, 1.11; Dec. 11, 3.72.

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; 1020, p. 81; 1027, p. 131). State claim 13747. Cox & Thorley. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 12, 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; 1020, p. 81; 1027, p. 131). Oliver Berkhelder. Water levels, in feet below land-surface datum, 1946: Mar. 18, 8.28; Dec. 12, 7.03.

Iron Springs District

(C-35-11)31acd 1 (*817, p. 481; *840, p. 578; 845, p. 606; *886, p. 814; *910, p. 78; 940, p. 60; 948, p. 64; *990, p. 66; 1020, p. 81; 1027, p. 131). State claim 13498. Heber Jensen. Water levels, in feet below land-surface datum, 1946: Mar. 18, 20.36; Dec. 14, 26.56.

(C-35-12)34dcd 1 (*817, p. 433; *840, p. 578; *845, p. 608; *886, p. 815; *910, p. 80; 940, p. 60; 948, p. 64; *990, p. 66; 1020, p. 81; 1027, p. 131). State claim 4873. R. J. and W. M. Shay. Water levels, in feet below land-surface datum, 1946: Mar. 18, 15.74; Dec. 12, 16.72.

(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; 1020, p. 81; 1027, p. 131). State claim 13995. M. J. McFarland. Water levels, in feet below land-surface datum, 1946: Mar. 18, 6.95; Dec. 14, 13.15.

(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; 1020, p. 81; 1027, p. 131). State claim 15411. Branch Agricultural College. Water levels, in feet below land-surface datum, 1946: Mar. 18, 12.76; Dec. 14, 15.24.

(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; 1020, p. 81; 1027, p. 131). G. H. Pratt. Water levels, in feet below land-surface datum, 1946: Mar. 18, 6.16; Dec. 12, 6.75.

Kanarraville District

(C-37-12)23acb 1 (*817, p. 438; *840, p. 588; *845, p. 817; *886, p. 822; *910, p. 87; 940, p. 61; 948, p. 65; *990, p. 67; 1020, p. 82; 1027, p. 131). State claim 13010. Federal Land Bank. Water levels, in feet below land-surface datum, 1946: Mar. 19, 49.77; Dec. 15, 54.23.

(C-37-12)34abb 1 (*817, p. 438; *840, p. 588; *845, p. 618; *886, p. 822; *910, p. 87; 940, p. 61; 948, p. 65; *990, p. 67; 1020, p. 82; 1027, p. 131). State claims 1646 and 8184. Kanarra Field & Reservoir Co. Water levels, in feet below land-surface datum, 1946: Mar. 19, 36.05; Dec. 15, 40.83.

(C-38-12)3bcb 1 (*845, p. 618; 886, p. 822; *910, p. 87; 940, p. 61; 948, p. 65; *990, p. 67; 1020, p. 82; 1027, p. 131). State claim 12845. Ford & Williams. Water levels, in feet below land-surface datum, 1946: Mar. 19, 65.22; Dec. 15, 66.45.

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; 1020, p. 82; 1027, p. 131). E. E. Williams. Water levels, in feet below land-surface datum, 1946: Mar. 18, 24.05; Dec. 11, 24.21.

(C-34-11)36cbe 2 (*840, p. 571; 845, p. 596; *886, p. 804; *910, p. 69; 940, p. 59; 948, p. 63; *990, p. 64; 1020, p. 82; 1027, p. 131). State claim 10820. George Grimshaw. Water levels, in feet below land-surface datum, 1946: Mar. 18, 18.70; Dec. 14, 19.50.

(C-35-11)4dda 1 (*840, p. 575; *845, p. 599; *886, p. 805; *910, p. 70; 940, p. 59; 948, p. 63; *990, p. 65; 1020, p. 82; 1027, p. 131). State claim 5121. Federal Land Bank. Water level, in feet below land-surface datum, 1946: Mar. 18, 1.08; Dec. 11, 4.26.

(C-35-11)8edd 1 (*840, p. 575; *845, p. 599; 886, p. 806; *910, p. 71; 940, p. 59; 948, p. 63; *990, p. 65; 1020, p. 82; 1027, p. 131). State claim 13703. Charles Corry. Water levels, in feet below land-surface datum, 1946: Mar. 18, 9.88; Dec. 14, 13.29.

(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; 1020, p. 82; 1027, p. 131). State claim 1220. H. D. Haight. Water levels, in feet below land-surface datum, 1946: Mar. 18, 6.65; Dec. 11, 5.65.

Queatchupah District

(C-36-12)20ddc 1 (*910, p. 84; 940, p. 61; 948, p. 65; *990, p. 66; 1020, p. 82; 1027, p. 132). State claim 13516. E. L., H. D., and L. M. Jones. Water levels, in feet below land-surface datum, 1946: Mar. 18, 1.80; Dec. 12, 2.15.

(C-36-12)28ccc 1 (*845, p. 616; *886, p. 820; 910, p. 85; 940, p. 61; 948, p. 65; *990, p. 67; 1020, p. 82; 1027, p. 132). A. P. Spillsbury. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 18, 6.8; Dec. 12, 6.9.

(C-37-12)9baa 1 (*845, p. 617; *886, p. 821; 910, p. 86; 940, p. 61; 948, p. 65; *990, p. 67; 1020, p. 82; 1027, p. 132). State claim 16350. Platt Watson. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 18, 4.55; Dec. 12, 4.62.

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; 1020, p. 82; 1027, p. 132). State claim 6005. G. P. Stapley. Water levels, in feet below land-surface datum, 1946: Mar. 18, 35.44; Dec. 11, 35.22.

(C-34-10)6ccc 1 (*845, p. 594; *886, p. 801; *910, p. 67; 940, p. 59; 948, p. 63; 990, p. 64; 1020, p. 83; 1027, p. 132). State claim 11213. Public land. Water levels, in feet below land-surface datum, 1946: Mar. 18, 9.60; Dec. 11, 10.16.

(C-34-11)9cdc 1 (*845, p. 595; *886, p. 802; 910, p. 68; 940, p. 59; 948, p. 63; *990, p. 64; 1020, p. 83; 1027, p. 132). D. C. Evans. Water levels, in feet below land-surface datum, 1946: Mar. 18, 21.77; Dec. 11, 21.87.

B/
Iron County - Escalante Valley

(C-31-12)9abb 1 (*886, p. 823; 910, p. 87; *940, p. 61; 948, p. 65; *990, p. 67; 1020, p. 83; 1027, p. 132). R. R. McGuinty and others. No measurements made in 1946.

(C-31-12)19ccd 1 (*886, p. 823; 910, p. 87; *940, p. 61; 948, p. 66; *990, p. 67; 1020, p. 83; 1027, p. 132). State claim 20091. Public land. Water level, in feet below land-surface datum, 1946: Mar. 16, 48.96.

(C-31-13)1a 1 (*845, p. 582; 886, p. 823; *910, p. 87; *940, p. 61; 948, p. 66; 990, p. 67; 1020, p. 83; 1027, p. 132). State claim 6486. Public land. Water level, in feet below land-surface datum, 1946: Mar. 16, 27.65.

(C-31-13)4cdd 1 (*845, p. 583; 886, p. 823; 910, p. 87; 940, p. 61; 948, p. 66; 990, p. 68; 1020, p. 83; 1027, p. 133). Pearl Boeck. Water levels, in feet below land-surface datum, 1946: Mar. 15, 24.78; Dec. 10, 23.03.

(C-31-13)33ccc 1 (*845, p. 583; 886, p. 823; 910, p. 88; 940, p. 62; 948, p. 66; *990, p. 68; 1020, p. 83; 1027, p. 133). Lemont Lowe. No measurements made in 1946.

(C-32-12)6cbb 1 (*910, p. 88; *940, p. 62; 948, p. 66; *990, p. 68; 1020, p. 83; 1027, p. 133). G. A. Lowe, Jr. Measurements discontinued.

(C-32-14)28bbb 1 (*840, p. 566; *845, p. 584; *886, p. 824; 910, p. 88; 940, p. 62; 948, p. 67; *990, p. 68; 1020, p. 84; 1027, p. 133). State claim 17227. Joseph Dyson. Water level, in feet below land-surface datum, 1946: Mar. 17, 2.75.

B/ For other wells in this valley see pages 58-60, 101-102, and 136-137.

(C-32-14)30bab 1 (*910, p. 88; 940, p. 62; 948, p. 67; *990, p. 68; 1020, p. 84; 1027, p. 133). J. H. Johnston. Measurements discontinued after Mar. 31, 1945.

(C-33-13)3d (*940, p. 63; 948, p. 67; *990, p. 69; 1027, p. 133). Rebecca Bullock. Water level, in feet below land-surface datum, 1946: Mar. 17, 64.65.

(C-33-15)12aaa 1 (*886, p. 824; 910, p. 89; *940, p. 63; 948, p. 68; *990, p. 69; 1027, p. 133). State of Utah. Water level, in feet below land-surface datum, 1946: Mar. 17, 16.28.

(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; 1027, p. 134). Robins and Maguire.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 17	73.43	June 6	71.61	Oct. 10	72.20
Apr. 29	72.80	July 25	72.00	Dec. 13	72.42

(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; 1020, p. 84; 1027, p. 134). Jesse Carlson.

Water level, in feet below land-surface datum, 1946

Mar. 17	26.63	June 6	25.70	Oct. 10	26.98
Apr. 29	26.59	July 25	26.87	Dec. 13	26.90

(C-33-16)10ccc 1. Aram Boghession. Water levels, in feet below land-surface datum, 1946: Apr. 30, 91.5; June 6, 91.32; July 25, 91.25; Oct. 10, 19.31. (Record published in Water-Supply Paper 948, p. 68 under this number listed measurements actually made in well (C-33-16)10ccc 2.)

(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; 1020, p. 84; 1027, p. 134). Clarence Lynd.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 17	66.37	June 6	66.57	Aug. 29	67.13	Dec. 13	66.78
Apr. 30	66.50	July 25	66.64	Oct. 10	66.53		

(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; 1027, p. 134). Frank Webster. Water level, in feet below land-surface datum, 1946: Dec. 13, 107.72.

(C-34-14)31ccc 1 (*886, p. 836; 910, p. 89; 940, p. 64; 948, p. 69; *990, p. 70; 1027, p. 134). Geol. Survey, U. S. Dept. of Interior.

Water level, in feet below land-surface datum, 1946

Apr. 30	13.67	June 23	14.33	Aug. 29	15.26	Dec. 13	14.24
June 6	13.96	July 24	14.92	Oct. 8	15.25		

(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; 1020, p. 85; 1027, p. 134). Augustus Lott.

Water level, in feet below land-surface datum, 1946

Mar. 17	8.30	June 6	8.27	Aug. 29	7.60	Dec. 13	5.85
Apr. 30	8.02	July 25	8.45	Oct. 10	7.76		

(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; 1020, p. 86; 1027, p. 135). Fred Fisher. Measurements discontinued after Dec. 13, 1946.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	10.44	Mar. 23	10.23	May 24	10.23	July 14	10.66
Feb. 12	10.27	Apr. 20	10.17	June 6	10.32	25	10.74
Mar. 17	10.20	29	10.15	26	10.50	Dec. 13	10.19

(C-34-17)9ddd 1 (*840, p. 574; 845, p. 598; 886, p. 828; 910, p. 91; 940, p. 66; 948, p. 71; *990, p. 72; 1020, p. 86; 1027, p. 135). William Haight.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 17	30.59	June 6	30.58	Dec. 13	30.34
Apr. 30	30.58	Aug. 29	30.66		

(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; 1020, p. 86; 1027, p. 135). State claim 11258. Columbia Steel Co.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 18	11.28	June 6	11.38	July 24	12.27	Oct. 8	13.20
Apr. 30	11.11	23	11.73	Aug. 29	12.77	Dec. 12	12.00

(C-35-13)4aaa 1 (*940, p. 66; 948, p. 72; *990, p. 73; 1027, p. 135). G. W. Hunter. Water level, in feet below land-surface datum, 1946: Apr. 30, 185.31; June 6, 184.28. Measurements discontinued.

(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; 1020, p. 86; 1027, p. 135). State claim 3790. C. G. Clarke.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 17	14.08	June 23	13.66	July 25	16.44	Oct. 8	15.96
Apr. 30	16.03	26	14.17	Aug. 29	14.57	Dec. 13	13.31
June 6	14.68						

a Measurement by State engineer.

(C-35-15)3dcc 2 (*840, p. 579; 845, p. 608; 886, p. 829; *910, p. 91; *940, p. 67; 948, p. 72; 990, p. 73; 1020, p. 86; 1027, p. 136). State claim 3788. C. G. Clarke.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 17	13.58	June 23	13.70	July 24	17.42	Oct. 8	14.45
Apr. 30	16.83	26	14.37	Aug. 29	14.97	Dec. 13	14.51
June 6	14.59						

a Measurement by State engineer.

(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; 1020, p. 87; 1027, p. 136). Frank Bridel.

(C-35-15)6odd 1--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 17	12.78	June 6	12.91	July 24	13.78	Dec. 13	12.30
Apr. 30	12.56	23	13.25	Oct. 8	13.96		

(C-35-15)3Oacc 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; 1020, p. 87; 1027, p. 136). Hugh Ash. Water levels, in feet below land-surface datum, 1946: May 1, 27.17; June 5, 27.20; July 24, 27.50; Dec. 13, 27.65.

(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; 1020, p. 87; 1027, p. 136). State claim 3792. C. G. Clarke.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June 6	15.66	Aug. 29	16.48	Dec. 13	15.78
July 24	16.48	Oct. 8	16.48		

(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; 1020, p. 87; 1027, p. 136). State claim 13661. H. L. Austin. Measurements discontinued after Aug. 29, 1946.

Water level, in feet below land-surface datum, 1946

Mar. 17	20.45	June 6	21.16	Aug. 29	22.20
Apr. 30	20.55	July 25	22.01		

(C-35-16)2Oodd 2 (*840, p. 583; *940, p. 68; 948, p. 73; *990, p. 75; 1020, p. 87; 1027, p. 136). Eva Hard.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 17	20.66	June 6	21.28	Aug. 29	22.20	Dec. 13	20.88
Apr. 30	20.67	July 24	21.98	Oct. 8	22.20		

(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; 1020, p. 87; 1027, p. 136). State claim 10337. C. and S. Inatomi.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Apr. 30	22.32	July 24	26.38	Dec. 13	22.47
June 5	22.99	Oct. 9	23.30		

a Pumping.

(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; 1020, p. 87; 1027, p. 136). State claim 8432. L. E. and H. M. Sevy. Water levels, in feet below land-surface datum, 1946: Mar. 17, 45.95; Apr. 30, 45.99; June 6, 45.97; Oct. 8, 46.05.

(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; 1020, p. 88; 1027, p. 137). Henry Brenn.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 17	35.88	June 6	36.14	July 24	36.48	Oct. 8	36.80
Apr. 30	35.92	23	36.22	Aug. 29	36.70	Dec. 13	36.67

(C-36-15)8bba 1 (*940, p. 69; 948, p. 74; *990, p. 75; 1020, p. 88; 1027, p. 137). R. F. Jones. Water levels, in feet below land-surface datum, 1946: May 1, 85.26; June 5, 85.42; July 24, 85.89; Dec. 13, 86.25.

(C-36-15)20bac 1 (*940, p. 69; 948, p. 74; *990, p. 75; 1020, p. 88; 1027, p. 137). A. C. Christensen. Water levels, in feet below land-surface datum, 1946: May 1, 117.55; June 5, 117.55; Oct. 9, 119.52. Measurements discontinued.

(C-36-16)5a 2 (*940, p. 69; 948, p. 74; *990, p. 76; 1020, p. 88; 1027, p. 137). Public land.

Water level, in feet below land-surface datum, 1946

Apr. 30	49.12	June 23	50.38	Aug. 29	52.75	Dec. 13	51.40
June 6	50.12	July 24	51.08	Oct. 9	50.84		

(C-36-16)8ddd 1 (*940, p. 69; 948, p. 75; 990, p. 76; 1020, p. 88; 1027, p. 137). J. A. Eldredge.

Water level, in feet below land-surface datum, 1946

May 1	56.44	June 23	57.10	Aug. 29	58.09	Dec. 12	57.95
June 5	56.88	July 24	57.71	Oct. 9	57.97		

(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; 1020, p. 88; 1027, p. 137). C. J. Erickson.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
May 1	57.65	June 23	57.92	Aug. 29	58.50
June 6	57.83	July 24	58.32	Oct. 9	58.67

(C-36-16)19 (*1027, p. 137). T. W. Jones.

Water level, in feet below land-surface datum, 1946

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.20	.....	77.28	77.76	77.96	.....	.....	.....
2	76.24	.....	77.29	77.73	77.96	.....	77.84	.....
3	76.27	.....	77.29	77.75	77.94	.....	77.90	.....
4	76.27	.....	77.30	77.78	77.91	.....	77.91	.....
5	76.32	.....	77.31	77.78	77.95	.....	77.83	.....
6	76.33	76.51	77.43	77.75	77.93	.....	77.83	.....
7	76.31	76.58	77.44	77.82	77.92	.....	77.75	.....
8	.....	76.61	77.48	77.88	.....	.....	77.71	.....
9	76.32	76.62	77.50	77.87	.....	.....	77.85	.....
10	76.41	76.62	77.68	77.91	78.03	77.91	.....	.....
11	76.35	76.66	77.49	77.85	78.03	77.95	.....	.....

(C-36-16)19--Continued.

Water level, in feet below land-surface datum, 1946

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12	76.32	76.67	77.49	77.82	78.01	77.96	.....	77.52
13	76.34	76.64	77.49	77.84	78.02	77.93	.....	.....
14	76.75	77.46	77.82	78.01	77.82	.....	.....
15	76.77	77.46	77.78	77.97	77.90	.....	.....
16	76.79	77.46	77.81	77.96	77.86	.....	.....
17	76.79	77.51	77.81	.....	77.86	.....	.....
18	76.81	77.55	77.78	.....	.....	.....	.....
19	76.88	77.62	77.75	.....	.....	.....	.....
20	76.90	77.68	77.77	.....	.....	.....	.....
21	76.97	77.59	77.85	.....	77.80	.....	.....
22	77.03	77.50	77.81	.....	77.84	.....	.....
23	77.01	77.48	.....	.....	77.85	77.80	.....
24	77.04	77.46	.....	.....	77.90	77.71	.....
25	77.06	77.46	77.87	.....	77.80	77.70	.....
26	77.08	77.55	77.87	.....	77.71	77.65	.....
27	77.13	77.64	77.83	.....	77.77	77.63	.....
28	77.23	77.68	77.85	.....	77.78	77.65	.....
29	77.24	77.68	77.78	.....	.....	77.60	.....
30	77.29	77.68	77.78	.....	.....	77.61	.....
31	77.75	77.95	.....	.....	.....	.....

(C-36-16)19caa 1 (*940, p. 69; 948, p. 75; 1020, p. 88; 1027, p. 137).
J. A. Eldredge.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 17	78.82	June 5	79.92	July 24	81.07
Apr. 30	79.18	23	80.62		

(C-36-16)27dcd 1 (*1027, p. 138). State claim 19283. Ivins Investment Co.

Water level, in feet below land-surface datum, 1946

May 1	123.16	July 24	123.64	Oct. 9	124.03
June 5	123.20	Aug. 29	123.95	Dec. 13	124.45

(C-36-16)29daa 1 (*1027, p. 138). State application 16189. Weyl-Zuckerman Co. Water levels, in feet below land-surface datum, 1946: May 1, 86.20; June 6, 87.56; Aug. 29, 88.10; Dec. 13, 87.50.

(C-36-16)31bdd 1 (*940, p. 69; 948, p. 75; *990, p. 76; 1020, p. 88; 1027, p. 138). W. H. Leigh.

Water level, in feet below land-surface datum, 1946

Mar. 17	102.35	July 24	102.15	Dec. 13	105.21
June 6	107.57	Oct. 9	106.78		

a Pumping*

(C-36-16)32ddd 1 (*1027, p. 138). J. C. Bosshardt. Water levels, in feet below land-surface datum, 1946: May 1, 128.43; July 24, 129.29; Oct. 9, 130.18; Dec. 12, 129.95.

(C-36-17)1ldcc 1 (*940, p. 69; 948, p. 75; 990, p. 76; 1020, p. 88; 1027, p. 138). Public land. Water levels, in feet below land-surface datum, 1946: Mar. 17, 121.70; Apr. 30, 123.14; June 6, 123.02. Measurements discontinued after June 6, 1946.

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; 1020, p. 88; 1027, p. 138). Iron County. Water levels, in feet below land-surface datum, 1946: Mar. 16, 48.65; Dec. 11, 48.90.

(C-32-8)34aad 3. State claim 18168. H. W. Lunt, Roadside Park, Paragonah, Iron County. Diameter 2 inches. Measuring point, top of faucet shank at well tag, 2.0 feet above land surface. Water level, in feet above land-surface datum, 1946: Mar. 16, 11.8.

(C-32-8)35beb 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; 1020, p. 88; 1027, p. 138). State claim 5683. H. N. Edwards. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 16, 7.4; Dec. 11, 7.2.

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; 1020, p. 88; 1027, p. 138). State claim 4743. Henry Mitchell Estate. Water level, in feet above land-surface datum, 1946: Mar. 16, 15.6. Measurements discontinued after Mar. 16, 1946.

(C-33-9)14ccc 1 (*845, p. 586; *886, p. 835; *910, p. 99; 940, p. 70; 948, p. 76; *990, p. 77; 1020, p. 88; 1027, p. 138). State claim 6489. W. M. Eyre Estate. Water level, in feet above land-surface datum, 1946: Mar. 16, 21.2. Measurements discontinued after Mar. 16, 1946.

(C-33-9)28abd 1 (*845, p. 587; *886, p. 836; *910, p. 101; 940, p. 71; 948, p. 76; *990, p. 77; 1020, p. 88; 1027, p. 138). State claim 17259. John Dolorinski. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Dec. 11, 3.42.

(C-33-9)32ccd 2 (*845, p. 587; *886, p. 836; 910, p. 101; 940, p. 71; 948, p. 76; *990, p. 77; 1020, p. 89; 1027, p. 138). State claim 17335. Alfred Wilcox. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 16, 9.7; Dec. 11, 7.4.

(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; 1020, p. 89; 1027, p. 139). State claim 5694. Mary Marsden. Water levels, in feet below land-surface datum, 1946: Mar. 16, 19.03; Dec. 11, 23.59.

(C-34-9)6bcd 1 (*845, p. 593; *886, p. 840; *910, p. 106; 940, p. 71; 948, p. 77; *990, p. 78; 1020, p. 89; 1027, p. 139). State claim 13506. G. D. Hyatt. Water levels, in feet below land-surface datum, 1946: Mar. 16, 4.73; Dec. 11, 5.46.

(C-34-9)8bdd 1 (*910, p. 107; 940, p. 71; 948, p. 77; *990, p. 78; 1020, p. 89; 1027, p. 139). State claim 4868. P. H. Gurr. Water levels, in feet below land-surface datum, 1946: Mar. 16, 17.75; Dec. 11, 20.41.

Paragonah District

(C-33-8)28bbb 1 (*910, p. 96; 940, p. 70; 948, p. 75; *990, p. 76; 1020, p. 89; 1027, p. 139). State claim 15133. State of Utah. Water levels, in feet below land-surface datum, 1946: Mar. 16, 9.70; Dec. 11, 10.86.

(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; 1020, p. 89; 1027, p. 139). Drought Relief Administration. Water level, in feet below land-surface datum, 1946: Mar. 16, 18.62.

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; 1020, p. 89; 1027, p. 139). State claim 10202. A. J. Decker. Water levels, in feet above land-surface datum, 1946: Mar. 16, 10.7; Dec. 11, 12.8.

(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; 1020, p. 89; 1027, p. 139). State claim 6750 and State application 1426. Federal Land Bank. Measuring point, top of casing, 1.0 foot above land surface. Water levels, in feet below land-surface datum, 1946: Mar. 16, 2.90; Dec. 11, 8.47.

(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; 1020, p. 89; 1027, p. 139). State claim 13812. State of Utah. Water level, in feet below land-surface datum, 1946: Mar. 16, 33.90.

(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; 1020, p. 89; 1027, p. 139). State claim 494. H. L. Adams. Water levels, in feet below land-surface datum, 1946: Mar. 16, 36.18; Dec. 11, 41.90.

(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; 1020, p. 89; 1027, p. 139). State claim 8801. Federal Land Bank. Water levels, in feet below land-surface datum, 1946: Mar. 16, 50.30; Dec. 11, 57.93.

(C-34-9)16cdd 1 (*845, p. 594; *886, p. 841; *910, p. 108; 940, p. 72; 948, p. 77; *990, p. 78; 1020, p. 90; 1027, p. 139). State claim 5818. Federal Land Bank. Water levels, in feet below land-surface datum, 1946: Mar. 16, 23.62; Dec. 14, 30.05.

Summit District

(C-34-10)24abc 1 (*886, p. 841; 910, p. 109; 940, p. 72; 948, p. 77; *990, p. 78; 1020, p. 91; 1027, p. 140). State application 12115. R. J. Green. Water levels, in feet below land-surface datum, 1946: Mar. 16, 52.42; Dec. 14, 53.22.

Juab County - Juab Valley

Chicken Creek District

(C-15-1)4ddd 1 (*845, p. 619; 886, p. 843; 910, p. 110; *940, p. 72; 948, p. 78; *990, p. 78; 1020, p. 90; 1027, p. 140). C. H. Johnson. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 11, 5.55; Dec. 19, 5.20.

(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; 1020, p. 90; 1027, p. 140). State claim 10223. R. C. Mangleson. Water levels, in feet below land-surface datum, 1946: Mar. 1, 50.44; Dec. 19, 51.56.

Salt Creek District

(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; 1020, p. 90; 1027, p. 140). State claim 2227. Orson Cazier. Water levels, in feet below land-surface datum, 1946: Water levels, in feet below land-surface datum, 1946: Mar. 11, 10.70; Dec. 19, 13.50.

(D-11-1)9bbb 4 (*817, p. 463; *840, p. 606; *845, p. 619; 886, p. 842; *910, p. 110; 940, p. 72; 948, p. 78; *990, p. 78; 1020, p. 90; 1027, p. 140). State claim 3099. J. L. and H. J. Fowkes. Water levels, in feet above land-surface datum, 1946: Mar. 11, 13.2; Dec. 19, 11.4.

(D-11-1)3labc 1 (*817, p. 464; 840, p. 606; 845, p. 619; 886, p. 842; 940, p. 72; 948, p. 78; *990, p. 78; 1020, p. 90; 1027, p. 140). Loren Keyte. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 11, 3.35; Dec. 19, 2.30.

(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. 79; 1020, p. 90; 1027, p. 140). State claim 4397. P. P. Christenson. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 11, 20.4; Dec. 19, 18.7. Measurements discontinued.

(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; 1020, p. 90; 1027, p. 140). State claim 8188. Nephi Irrigation Co. Water levels, in feet below land-surface datum, 1946: Mar. 11, 16.85; June 4, 14.60; Dec. 19, 17.94.

(D-14-1)6baa 1 (*817, p. 464; 840, p. 607; 845, p. 619; 886, p. 842; 910, p. 110; *940, p. 79; 948, p. 78; *990, p. 79; 1020, p. 90; 1027, p. 140). State claim 2730. C. H. Garrett. Water levels, in feet below land-surface datum, 1946: Mar. 11, 189.86; Dec. 19, 189.81.

Snake Valley^{9/}

(C-11-16)6ccc (*845, p. 618; 886, p. 843; 910, p. 109; 940, p. 73; 948, p. 78; *990, p. 79; 1020, p. 91; 1027, p. 140). J. H. Guilmette. Water level, in feet below land-surface datum, 1946: Oct. 11, 18.98.

(C-11-17)1bdc 1 (*845, p. 618; 886, p. 843; *910, p. 109; 940, p. 73; 948, p. 78; *990, p. 79; 1020, p. 91; 1027, p. 140). State claim 8190. Drought Relief Administration. Water level, in feet below land-surface datum, 1946: Oct. 11, 2.60.

(C-13-18)14dcc 1 (*845, p. 618; 886, p. 843; 910, p. 110; *940, p. 73; 948, p. 79; *990, p. 79; 1020, p. 91; 1027, p. 141). Will Parker. Water level, in feet below land-surface datum, 1946: Oct. 11, 16.59.

(C-13-18)23aab 2 (*836, p. 843; 910, p. 110; 940, p. 73; 948, p. 79; *990, p. 79; 1020, p. 91; 1027, p. 141). Charles Nielson. Water level, in feet below land-surface datum, 1946: Oct. 11, 6.31.

(C-14-18)3 (*845, p. 619; *886, p. 843; *910, p. 110; 940, p. 73; 948, p. 79; 1020, p. 91; 1027, p. 141). State application 12809. Public land. Measurements discontinued.

Millard County - Escalante Valley^{10/}

(C-24-10)22aca 1 (*940, p. 73; 948, p. 79; *990, p. 79; 1020, p. 91; 1027, p. 141). Grazing Service, U. S. Dept. of Interior. Water levels, in feet below land-surface datum, 1946: Mar. 14, 13.27; Dec. 9, 11.94.

(C-24-10)22acb 1 (*940, p. 73; 948, p. 79; *990, p. 79; 1020, p. 91; 1027, p. 141). Grazing Service, U. S. Dept. of Interior. Water levels, in feet below land-surface datum, 1946: Mar. 14, 10.59; Dec. 9, 8.00.

(C-25-10)9dba 1 (*940, p. 73; 948, p. 79; 990, p. 80; 1020, p. 91; 1027, p. 141). E. C. Hiltbrand. Water levels, in feet below land-surface datum, 1946: Mar. 14, 56.30; Dec. 9, 56.24.

^{9/} For other wells in this valley see page 106.

^{10/} For other wells in this valley see pages 58-60, 93-99, and 136-137.

(C-25-10)26caa 1 (*940, p. 73; 948, p. 79; *990, p. 80; 1020, p. 91; 1027, p. 141). State of Utah. Water levels, in feet below land-surface datum, 1946: Mar. 14, 17.32; Dec. 9, 17.46.

Millard County - Pavant Valley

Pavant District

(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; 1020, p. 91; 1027, p. 147). State claim 4263. Union Pacific Railroad. Water levels, in feet below land-surface datum, 1946: Mar. 13, 9.66; Dec. 7, 8.31.

(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; 1020, p. 91; 1027, p. 147). State claim 16405. Lawrence Clark. Water levels, in feet below land-surface datum, 1946: Mar. 13, 27.66; Dec. 7, 26.53.

(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; 1020, p. 92; 1027, p. 147). C. H. Day. Water levels, in feet below land-surface datum, 1946: Mar. 13, 42.70; Dec. 7, 40.71.

(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; 1020, p. 92; 1027, p. 147). State claim 7671. Arnold Lesin. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 7, 9.8.

Flowell District

(C-21-5)9cdc 1 (*990, p. 83; 1020, p. 93; 1027, p. 142). State claim 6221. John Carling. Flowing prior to measurements. Water levels, in feet below land-surface datum, 1946: Mar. 13, 1.26; Dec. 8, 6.46.

(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; 1020, p. 94; 1027, p. 142). State of Utah.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.66	2.94	2.46	2.90	11.51	12.71	.....	.....	.....	13.69	10.23	7.82
2	....	2.82	2.36	....	11.65	.....	.....	.....	.....	13.62	10.26	7.75
3	....	2.50	2.24	....	11.65	.....	.....	.....	.....	13.45	10.18	7.69
4	3.54	2.57	2.28	6.14	11.79	.....	13.91	14.28	14.70	13.30	10.12	7.68
5	3.44	2.75	2.32	6.73	11.77	.....	13.92	14.27	.....	13.24	9.92	7.48
6	3.54	....	....	7.03	11.75	.....	13.92	14.29	.....	13.27	9.62	7.40
7	3.50	....	....	7.32	12.50	.....	13.93	14.31	.....	.....	9.56	7.36
8	3.75	....	....	7.60	11.86	.....	14.46	15.01	.....	13.05	9.15	7.46
9	3.80	2.66	....	....	11.75	.....	.....	15.07	.....	13.01	8.76	7.45
10	3.35	2.72	....	....	11.70	12.90	.....	.....	.....	13.01	8.72	7.46
11	3.31	2.52	2.10	....	.....	13.50	.....	.....	.....	13.05	....	7.39
12	3.35	2.62	2.19	9.16	.....	13.53	13.97	.....	.....	12.96	....	7.32
13	3.23	2.66	2.04	9.22	11.81	.....	13.91	.....	.....	12.97	....	....
14	3.15	2.66	2.24	9.46	11.95	.....	13.93	.....	.....	12.85	....	....
15	3.18	2.55	2.23	9.57	12.04	.....	14.60	.....	.....	12.86	8.15	....
16	3.16	....	2.30	9.61	12.18	.....	14.68	.....	.....	12.66	8.14	7.31
17	3.05	....	2.26	9.70	12.03	.....	.....	14.34	.....	12.70	7.98	....
18	....	....	2.23	9.90	12.21	.....	.....	14.85	.....	.....	7.89	....
19	....	....	1.80	9.93	12.17	.....	.....	15.06	.....	.....	7.78	....
20	....	....	1.77	9.94	.....	13.46	.....	15.05	14.20	.....	7.68	....
21	3.04	2.40	1.80	10.06	.....	13.46	.....	14.42	14.19	.....	....	....
22	3.07	2.48	1.88	10.17	.....	13.48	14.60	14.41	14.09	.....	....	....
23	3.02	2.47	1.70	10.61	.....	13.53	14.84	14.42	14.06	11.05	7.90	....
24	2.90	2.39	1.78	10.69	.....	13.64	14.33	.....	13.94	11.08	7.95	....
25	2.90	2.38	....	10.91	.....	13.61	14.26	.....	13.98	10.97	8.01	....

(C-21-5)21aba 1--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	3.06	2.36	....	....	12.62	13.61	14.81	14.62	13.90	10.93	7.94	....
27	2.98	2.35	1.81	....	12.54	....	14.87	14.59	13.84	10.95	7.91	....
28	....	2.38	1.75	11.35	12.47	....	14.13	14.63	....	10.88	7.85	....
29	2.98		1.83	11.40	....	....	....	15.37	13.80	10.70	7.81	....
30	3.07		1.82	11.44	....	....	....	....	13.80	10.50	7.85	6.85
31	3.02		1.85		12.64		....	....		10.58		6.85

(C-21-5)34baa 1 (*990, p. 87; 1020, p. 96; 1027, p. 143). State claim 17381. Frank Sweeting.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Date		Water level	Date		Water level	Date		Water level	Date		Water level
Jan.	4	31.62	Mar.	29	30.25	Apr.	29	35.07	June	22	37.52
	5	31.50		30	30.30		30	35.19		23	37.56
	6	31.68		31	30.48	May	1	35.37		24	37.67
	7	31.56	Apr.	1	30.48		2	35.28		25	37.64
	8	31.51		4	30.93		3	35.27	July	3	38.00
	9	31.61		5	31.11		26	35.58		4	38.08
	10	31.46		6	31.24		27	35.63		5	38.11
	30	31.11		7	31.52		28	35.60		6	38.14
	31	31.05		8	31.65		29	35.50		7	38.15
Feb.	2	30.84		20	33.96		30	35.45		8	38.19
Mar.	13	30.17		21	34.06		31	35.43		9	38.26
	14	30.31		22	34.15	June	1	35.44		10	38.30
	15	30.40		23	34.29		2	35.48	Aug.	17	38.80
	16	30.46		24	34.41		19	37.40	Sept.	20	39.30
	17	30.40		27	34.90		20	37.44	Oct.	30	36.60
	28	30.26		28	35.01		21	37.45	Dec.	8	34.60

(C-21-5)34ccc 1 (*990, p. 88; 1020, p. 96; 1027, p. 144). State claim 4723 and 19707. W. H. Ray. Measurements discontinued after Nov. 30, 1945.
Hatton District

(C-22-5)28bcc 1 (*990, p. 92; 1020, p. 100; 1027, p. 145). State claim 7675. H. N. Bushnell. Water levels, in feet below land-surface datum, 1946: Mar. 13, 12.60; Dec. 8, 14.33.

(C-22-5)28dbd 1 (*990, p. 92; 1020, p. 98; 1027, p. 145). State claim 16860. Charles Swallow. Water levels, in feet below land-surface datum, 1946: Mar. 13, 33.37; Dec. 8, 34.72.

(C-22-5)29cda 1 (*990, p. 92; 1020, p. 98; 1027, p. 146). State claim 11976. O. R. Beckstrand. Water levels, in feet below land-surface datum, 1946: Mar. 13, 5.05; Dec. 8, 6.48.

(C-22-5)33cdd 1 (*990, p. 93; 1020, p. 98; 1027, p. 146). State application 13367. L. A. Kimball. Water level, in feet below land-surface datum, 1946: Dec. 8, 54.66.

(C-23-5)6daa 1 (*990, p. 93; 1020, p. 98; 1027, p. 146). State claim 8201. Hatton Well Co. Water levels, in feet below land-surface datum, 1946: Mar. 13, 42.74; Dec. 8, 44.25.

(C-23-6)1cad 1 (*990, p. 93; 1020, p. 98; 1027, p. 146). State application 12,538. Waldo George. Water levels, in feet below land-surface datum, 1946: Mar. 13, 47.84; Dec. 8, 48.09.

Kanosh District

(C-23-6)8bdb 1 (*990, p. 94; 1020, p. 98; 1027, p. 146). State claim 16582. H. F. and C. H. Watts. Water levels, in feet below land-surface datum, 1946: Mar. 13, 27.52; Dec. 8, 29.08.

(C-23-6)19abb 1 (*990, p. 94; 1020, p. 98; 1027, p. 146). Water level, in feet below land-surface datum, 1946: Mar. 13, 51.50.

(C-23-6)29baa 1 (*990, p. 94; 1020, p. 98; 1027, p. 146). State claim 6581. Water level, in feet below land-surface datum, 1946: Mar. 13, 66.81.

(C-24-7)25 (*910, p. 115; 940, p. 75; 948, p. 82; *990, p. 94; 1020, p. 99; 1027, p. 146). Frank Paxton. Water level, in feet below land-surface datum, 1946: Dec. 8, 167.51.

Meadow District

(C-22-5)9dbc 1 (*990, p. 91; 1020, p. 99; 1027, p. 146). State claim 2232. R. Sweeting. Water levels, in feet below land-surface datum, 1946: Mar. 13, 1.80; Dec. 8, 2.30.

(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; 1020, p. 99; 1027, p. 147). State claim 3296. William Blake. Water levels, in feet above land-surface datum, 1946: Mar. 13, 32.1, flowing prior to measurement; Dec. 8, 29.0.

Millard County - Sevier Desert

(C-15-4)20dec 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; 1020, p. 100; 1027, p. 148). Spencer Nielson. Water levels, in feet below land-surface datum, 1946: Mar. 12, 121.59; Dec. 5, 120.98.

(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; 1020, p. 100; 1027, p. 148). I. P. Hinckley. Water levels, in feet below land-surface datum, 1946: Mar. 12, 99.00; Dec. 5, 98.31.

(C-15-7)17dad 1 (numbered (C-15-7)17 da in *840, p. 559; 845, p. 620; 886, p. 844; 910, p. 111; 940, p. 76; 948, p. 82; *990, p. 94; 1020, p. 101; 1027, p. 148). I. H. Losee. Well flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 12, 2.4; Dec. 5, 2.4.

(C-15-8)23bba 1 (*845, p. 620; *886, p. 844; *910, p. 111; 940, p. 76; 948, p. 82; *990, p. 94; 1020, p. 101; 1027, p. 148). State claim 12279. C. D. Ashby. Flowing prior to measurements. Water level, in feet above land-surface datum, 1946: Mar. 12, 3.5.

(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; 1020, p. 101; 1027, p. 148). L. N. Hinckley. Water levels, in feet above land-surface datum, 1946: Mar. 11, 7.8; Dec. 5, 7.5, flowing prior to measurement.

(C-16-7)7ccb 1 (*845, p. 621; 886, p. 844; 910, p. 111; 940, p. 76; 948, p. 82; *990, p. 94; 1020, p. 101; 1027, p. 148). Millard County. Water levels, in feet below land-surface datum, 1946: Mar. 12, 1.79; Dec. 6, 1.69.

(C-16-7)21acd 1 (*845, p. 621; 886, p. 844; 910, p. 111; 940, p. 76; 948, p. 82; *990, p. 95; 1020, p. 102; 1027, p. 149). Martin Tanner. Water levels, in feet below land-surface datum, 1946: Mar. 12, 11.84; Dec. 5, 11.38.

(C-16-8)3add 2. War Relocation Authority. Abraham. State application 13178. Diameter 2 inches, depth 180 feet. Measuring point, top of 1½-inch standpipe, 7.0 feet above land surface. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Feb. 1, 3.90; Mar. 12, 4.06; Dec. 5, 4.54.

(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; 1020, p. 101; 1027, p. 149). State claim 12335. Frank Foot. Water levels, in feet below land-surface datum, 1946: Mar. 12, 2.12; Dec. 6, 1.07.

(C-16-8)19ddd 1 (*948, p. 83; *990, p. 96; 1027, p. 150). War Relocation Authority. Measured depth 128 feet. Measurement on Jan. 25 by War Relocation Authority. Water levels, in feet with reference to land-surface datum, 1946: Jan. 25, -1.70; Mar. 12, -0.98; Dec. 6, +.32.

(C-16-8)21ddd 1 (*948, p. 84; *990, p. 96; 1020, p. 101; 1027, p. 150). State claim 768. War Relocation Authority. Measurement on Jan. 25 by War Relocation Authority. Water levels, in feet above land-surface datum, 1946: Jan. 25, 0.80; Mar. 12, 1.60; Dec. 6, 2.53.

(C-16-8)27acd 1 (*948, p. 84; 990, p. 96; 1020, p. 101; 1027, p. 150). War Relocation Authority. Water levels, in feet below land-surface datum, 1946: Mar. 12, 7.72; Dec. 6, 6.25. Measurements discontinued.

(C-16-8)32baa (*948, p. 84; *990, p. 96; 1020, p. 102; 1027, p. 150). War Relocation Authority. Measurement on Jan. 25 by War Relocation Authority. Water levels, in feet below land-surface datum, 1946: Jan. 25, 7.10; Mar. 12, 6.50; Dec. 6, 5.17.

(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; 1020, p. 102; 1027, p. 151). Edward M. Dalton. Water levels, in feet with reference to land-surface datum, 1946: Mar. 12, -0.25; Dec. 5, +0.18.

(C-17-6)33dec 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; 1020, p. 102; 1027, p. 151). State claim 10288. Duluth Land Co. Water levels, in feet above land-surface datum, 1946: Mar. 12, 9.9; Dec. 7, 8.9.

(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; 1020, p. 102; 1027, p. 151). State claim 12287. W. J. Webb. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 12, 6.2; Dec. 6, 6.0.

(C-17-7)30aaa 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; 1027, p. 151). J. G. Parry. Water level, in feet above land-surface datum, 1946: Dec. 6, 2.80.

(C-18-5)6bba 1 (*817, p. 409; *840, p. 551; 845, p. 621; 886, p. 845; *910, p. 111; 940, p. 76; 948, p. 84; *990, p. 97; 1027, p. 151). State claim 4261. Union Pacific Railroad. Flowing prior to measurements. Water level, in feet above land-surface datum, 1946: Mar. 13, 19.5; Dec. 7, 20.5. Measurements discontinued.

(C-18-7)5aaa 2 (*817, p. 409; 840, p. 551; 845, p. 622; 886, p. 845; 910, p. 112; 940, p. 76; 948, p. 85; *990, p. 97; 1027, p. 151). S. A. Webb. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 12, 5.8; Dec. 7, 5.8.

Millard County - Snake Valley ^{11/}

(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; 1020, p. 102; 1027, p. 151). Mrs. Ward Robinson. Water level, in feet below land-surface datum, 1946: Oct. 11, 25.23.

(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; 1020, p. 102; 1027, p. 151). State claim 7420. Louise Robinson. Water level, in feet below land-surface datum, 1946: Oct. 11, 26.55.

(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; 1020, p. 102; 1027, p. 151). G. A. Bellander. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 11, 1.5. Measurements discontinued.

(C-20-19)7aab (*840, p. 553; 886, p. 846; 910, p. 112; 940, p. 76; 948, p. 85; *990, p. 97; 1020, p. 102; 1027, p. 151). G. S. Quayte. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 11, 7.80.

(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; 1020, p. 102; 1027, p. 152). Marcus Sorenson. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 11, 4.5.

(C-22-19)6b (*946, p. 85; *990, p. 98; 1020, p. 102; 1027, p. 152). Cecil Rowley. Water level, in feet below land-surface datum, 1946: Oct. 11, 60.25.

(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; 1020, p. 102; 1027, p. 152). Fred Loper. Water level, in feet below land-surface datum, 1946: Oct. 11, 4.70.

(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; 1020, p. 102; 1027, p. 152). Thomas Dearden. Water level, in feet below land-surface datum, 1946: Oct. 11, 12.59.

Morgan County - Morgan Valley

(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; 1020, p. 103; 1027, p. 152). State claim 12405. Hyrum Adams. Water levels, in feet below land-surface datum, 1946: Mar. 30, 16.94; Dec. 12, 16.37.

(A-4-2)8ccd 1 (*910, p. 115; 940, p. 77; 948, p. 85; 990, p. 98; 1020, p. 103; 1027, p. 152). State claim 12133. L. H. Kobabe. Water levels, in feet below land-surface datum, 1946: Mar. 30, 21.65; Dec. 12, 21.26.

(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; 1020, p. 103; 1027, p. 152). State claim 6594. Jake Pentz. Water levels, in feet below land-surface datum, 1946: Mar. 30, 21.35; Dec. 12, 21.77.

(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; 1020, p. 103; 1027, p. 152). Heber Anderson Estate. Water levels, in feet below land-surface datum, 1946: Mar. 30, 20.09; Dec. 12, 21.75.

(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; 1020, p. 103; 1027, p. 152). State application 11666. J. C. Little. Water levels, in feet below land-surface datum, 1946: Mar. 30, 14.88; Dec. 12, 12.19.

^{11/} For other wells in this valley see page 101.

(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; 1020, p. 103; 1027, p. 140). State claim 14744. J. C. Little. Water level, in feet below land-surface datum, 1946: Mar. 30, 8.15. Measurements discontinued.

(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; 1020, p. 103; 1027, p. 152). State claim 9247. Morgan County School District. Water level, in feet below land-surface datum, 1946: Mar. 30, 25.03.

(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; 1020, p. 103; 1027, p. 152). State claim 11785. Albert Wiggins. Water levels, in feet below land-surface datum, 1946: Mar. 30, 29.20; Dec. 12, 23.37.

(A-4-3)31bcc (*840, p. 520; 845, p. 626; *886, p. 849; 910, p. 116; 940, p. 77; 948, p. 86; 990, p. 98; 1020, p. 103; 1027, p. 152). Morgan County. Water levels, in feet below land-surface datum, 1946: Mar. 30, 25.00; Dec. 12, 23.41.

(A-4-3)31cab 1 (*840, p. 520; 845, p. 626; 886, p. 849; *910, p. 116; 940, p. 77; 948, p. 86; 990, p. 99; 1020, p. 103; 1027, p. 152). State claim 12410. Como Springs Resort Co. Water levels, in feet below land-surface datum, 1946: Mar. 30, 2.35; Dec. 12, 1.97.

(A-4-4)30aac 2 (*910, p. 116; 940, p. 77; 948, p. 86; *990, p. 99; 1020, p. 103; 1027, p. 153). State claim 5670. J. A. Millyard. Water levels, in feet below land-surface datum, 1946: Mar. 30, 11.90; Dec. 12, 11.42.

(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; 1020, p. 103; 1027, p. 153). E. R. France. Water levels, in feet below land-surface datum, 1946: Nov. 13, 1.31; Dec. 12, 1.30.

12/
Piute County - Grass Valley

(C-27-1)27abc 2 (*840, p. 559; 845, p. 626; 886, p. 850; *910, p. 117; 940, p. 78; 948, p. 86; *990, p. 99; 1020, p. 104; 1027, p. 153). State claim 2905. H. B. Crandall. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 16, 4.10.

(C-30-2)33a (numbered (C-30-2)32a in *845, p. 626; 886, p. 850; 910, p. 117; 940, p. 78; 948, p. 86; 990, p. 99; 1020, p. 104; 1027, p. 153). Water levels, in feet below land-surface datum, 1946: Mar. 20, 13.28; Dec. 16, 12.52.

13/
Piute County - Upper Sevier Valley

(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; 1020, p. 104; 1027, p. 153). C. P. Jessen. Water levels, in feet below land-surface datum, 1946: Mar. 20, 23.58; Dec. 16, 20.27.

(C-30-4)14dca 1 (*817, p. 423; *840, p. 565; 845, p. 627; 886, p. 850; 910, p. 117; *940, p. 78; 948, p. 86; *990, p. 99; 1020, p. 104; 1027, p. 153). Earl Whitaker. Measurements discontinued.

(C-30-4)25bec 1 (*845, p. 627; 886, p. 850; *910, p. 117; 940, p. 78; 948, p. 87; *990, p. 99; 1020, p. 104; 1027, p. 153). State claim 8210. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 20, 18.90; Dec. 16, 20.25.

12/ For other wells in this valley see page 123.

13/ For other wells in this valley see page 89.

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; 1020, p. 104; 1027, p. 153). Thomas Hodges. Water level, in feet below land-surface datum, 1946: Oct. 21, 12.26.

(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; 1020, p. 104; 1027, p. 153). Thomas Hodges. Water level, in feet below land-surface datum, 1946: Oct. 21, 14.61.

(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; 1020, p. 104; 1027, p. 153). Drought Relief Administration. Water level, in feet below land-surface datum, 1946: Oct. 21, 4.42.

(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; 1020, p. 104; 1027, p. 153). Willis Bros. Water level, in feet below land-surface datum, 1946: Oct. 21, 17.92.

(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; 1020, p. 104; 1027, p. 153). Max Green. Water level, in feet below land-surface datum, 1946: Oct. 21, 15.06.

(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; 1020, p. 104; 1027, p. 153). Willis Bros. Water level, in feet below land-surface datum, 1946: Oct. 21, 5.62.

(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; 1020, p. 104; 1027, p. 153). Rich County. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 21, 6.73.

(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; 1020, p. 104; 1027, p. 154). Mrs. David Cook. Water level, in feet below land-surface datum, 1946: Oct. 21, 19.56. Measurements discontinued.

(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; 1020, p. 104; 1027, p. 154). Thomas Hodges. Water level, in feet below land-surface datum, 1946: Oct. 21, 13.37.

(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; 1020, p. 104; 1027, p. 154). J. W. Gibbons. Water level, in feet below land-surface datum, 1946: Oct. 21, 16.85.

(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; 1020, p. 105; 1027, p. 154). Alex Johnson. Water level, in feet below land-surface datum, 1946: Oct. 21, 21.00.

(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; 1020, p. 105; 1027, p. 154). C. W. Pope. Water level, in feet below land-surface datum, 1946: Oct. 21, 3.80.

Rich County - Upper Bear River Valley

(A-9-8)17ac (*845, p. 627; 886, p. 851; *910, p. 117; 940, p. 78; 948, p. 87; *990, p. 99; 1020, p. 105; 1027, p. 154). State claim 6837. S. Francis & Sons Co. Water level, in feet below land-surface datum, 1946: Oct. 21, 6.22.

(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; 1020, p. 105; 1027, p. 154). State claim 1886. Joseph Hatch. Water level, in feet below land-surface datum, 1946: Oct. 21, 11.35.

(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; 1020, p. 105; 1027, p. 154). F. H. Jackson. Water level, in feet below land-surface datum, 1946: Oct. 21, 12.00.

(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; 1020, p. 105; 1027, p. 154). F. H. Jackson. Water level, in feet below land-surface datum, 1946: Oct. 21, 11.86.

(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; 1020, p. 105; 1027, p. 154). Loren Jackson. Water level, in feet below land-surface datum, 1946: Oct. 21, 7.70.

(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; 1020, p. 105; 1027, p. 154). William Hoffman. Water level, in feet below land-surface datum, 1946: Oct. 21, 7.47.

(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; 1020, p. 105; 1027, p. 154). William Hoffman. Water level, in feet below land-surface datum, 1946: Oct. 21, 6.59.

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; 1020, p. 105; 1027, p. 154). State claim 747. Rudy Gun Club. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 20, 19.8; Dec. 11, 19.1.

(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; 1020, p. 105; 1027, p. 154). L. T. Farnsworth. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 11, 5.6.

(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; 1020, p. 105; 1027, p. 155). State claim 8867. Salt Lake City Corporation. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 26	12.60	May 28	12.75	July 25	11.80	Oct. 10	11.30
Apr. 4	13.50	June 3	12.90	Sept. 6	12.25	Nov. 29	12.35
May 21	18.37	July 9	12.00				

(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; 1020, p. 106; 1027, p. 155). Utah Oil Co. Measurements by Salt Lake City Corporation.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 18	6.65	May 31	7.65	July 23	8.10	Oct. 4	16.50
Apr. 4	5.86	July 9	7.60	Sept. 6	13.88	Nov. 29	11.55

(B-1-2)36baa 1 (*940, p. 80; 948, p. 89; *990, p. 101; 1020, p. 106; 1027, p. 155). E. J. Jeremy. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 11, 15.3.

(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; 1020, p. 106; 1027, p. 155). J. D. Brown. Measurements by Salt Lake City Corporation. Water levels, in feet above land-surface datum, 1946: Feb. 26, 4.65; May 23, 4.65.

(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; 1020, p. 106; 1027, p. 155). State claim 2199. William Gedge. Water levels, in feet above land-surface datum, 1946: Mar. 20, 11.6; Dec. 11, 12.0.

(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; 1020, p. 106; 1027, p. 155). State claim 7547. W. D. Hill. Water levels, in feet above land-surface datum, 1946: Mar. 20, 16.8; Dec. 11, 21.2.

(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; 1020, p. 106; 1027, p. 155). State claim 13403. Morton Salt Co. Water levels, in feet above land-surface datum, 1946: Mar. 20, 17.8; Dec. 11, 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; 1020, p. 106; 1027, p. 155). State claim 5828. Utah Copper Co. Water levels, in feet above land-surface datum, 1946: Mar. 20, 13.3; Dec. 11, 16.4.

(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; 1020, p. 106; 1027, p. 155). F. E. Fowler. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 20, 14.0; Dec. 11, 15.9.

(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; 1020, p. 106; 1027, p. 155). State claim 4058. C. S. Walters. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	18.80	May 24	16.60	July 19	14.60	Oct. 4	17.10
Apr. 12	20.10	June 25	14.75	Sept. 21	16.55	Nov. 30	19.90

(C-2-1)10bad 1 (*845, p. 630; 886, p. 855; 910, p. 121; 940, p. 82; 948, p. 90; *990, p. 103; 1020, p. 107; 1027, p. 156). E. B. Lindsay. Water levels, in feet below land-surface datum, 1946: Mar. 20, 12.88; Dec. 11, 5.52.

(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; 1020, p. 107; 1027, p. 156). W. A. Diamond. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 3	70.73	June 17	73.45	Sept. 16	67.10
Mar. 6	74.00	Aug. 7	69.80	Oct. 4	66.70

(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; 1020, p. 107; 1027, p. 156). State claim 16012. J. D. Blain. Water levels, in feet below land-surface datum, 1946: Mar. 20, 22.35; Dec. 11, 20.51.

(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. 81; *990, p. 103; 1020, p. 107; 1027, p. 156). J. R. Smith. Water levels, in feet below land-surface datum, 1946: Mar. 20, 1.32; Dec. 11, 0.64.

(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; 1020, p. 107; 1027, p. 156). Sproul Bros. Water levels, in feet below land-surface datum, 1946: Mar. 20, 28.21; Dec. 11, 26.33.

(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; 1020, p. 107; 1027, p. 156). Frank Bagley. Water levels, in feet above land-surface datum, 1946: Mar. 20, 22.8; Dec. 11, 24.2. Measurements discontinued.

(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; 1020, p. 107; 1027, p. 156). J. R. Dansie and others. Water levels, in feet below land-surface datum, 1946: Mar. 20, 24.35; Dec. 11, 17.22.

(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; 1020, p. 107). Salt Lake Corporation.

Water level at noon, in feet below land-surface datum, 1946

(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	100.35	100.48	.....	100.91	100.80	100.82
2	100.29	100.39	100.62	100.91	100.78	100.87
3	100.31	100.35	100.62	100.91	100.73	100.91
4	100.32	100.36	100.61	100.82	100.74	100.95
5	100.28	.....	100.60	100.78	100.74	100.95
6	100.47	100.53	100.58	100.75	100.71	101.00
7	100.36	100.43	100.77	100.73	100.71	100.96
8	100.41	100.54	100.76	100.73	100.72	100.86
9	100.50	100.53	100.75	100.76	100.40	100.78
10	100.47	100.45	100.67	100.84	100.45	100.83
11	100.50	100.41	100.60	100.90	100.37	100.90
12	100.60	100.48	.....	100.80	100.34	100.93
13	100.56	100.60	100.60	100.75	100.32	100.91
14	100.48	100.60	100.75	100.76	100.34	100.94
15	100.48	100.51	100.77	100.84	100.34	100.85
16	100.44	100.48	100.82	100.84	.....	100.80
17	100.42	100.55	100.82	100.81	.....	.....
18	100.34	100.55	100.78	100.60	.....	.....
19	100.35	100.51	100.72	100.66	.....	100.86
20	100.36	100.51	100.73	100.64	.....	101.18
21	100.42	100.52	100.73	100.63	101.36
22	100.48	100.61	100.78	100.63	101.24
23	100.48	100.62	100.78	100.66	100.68	101.76

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(D-1-1)5aad 1--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
24	100.35	100.65	100.76	100.63	100.64	101.76
25	100.38	100.58	100.87	100.63	100.55	101.52
26	100.52	100.62	100.90	100.60	100.45	101.96
27	100.45	100.62	100.82	100.55	100.34	103.26
28	100.35	.....	100.78	100.52	100.40	103.18
29	100.38		100.78	100.58	100.48	.....
30	100.48		100.81	100.72	100.65	.....
31	100.50		100.91		100.75	

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	108.55	114.64	116.76	107.61	.....
2	.....	109.48	114.86	115.65	107.61	.....
3	102.02	109.90	115.06	116.45	.....	104.65
4	103.64	110.45	115.22	116.92	.....	104.50
5	103.48	110.78	115.22	115.84	106.76	104.38
6	103.01	111.23	113.54	114.70	106.67	104.30
7	102.63	110.20	114.19	113.64	106.51	104.19
8	102.37	109.52	114.65	113.15	106.35	104.26
9	104.06	110.77	114.29	112.56	106.36	104.29
10	105.14	111.35	115.09	.....	106.23	104.22
11	104.38	111.68	115.47	.....	106.19	104.18
12	103.90	110.62	115.86	.....	106.14	104.13
13	103.45	109.54	115.98	.....	106.00	104.13
14	103.07	108.58	116.21	.....	105.86	104.09
15	102.86	107.92	116.41	112.15	105.90	.....
16	103.10	107.43	116.55	111.54	105.86	.....
17	104.96	108.68	115.70	110.96	105.77	104.12
18	105.87	109.89	116.30	110.51	105.62	104.02
19	106.65	110.81	115.18	110.12	105.46	103.97
20	107.32	111.53	114.34	109.78	.....	103.97
21	107.90	111.98	115.45	.....	.....	103.85
22	107.64	112.36	.....	109.07	.....	103.80
23	108.19	112.57	.....	109.00	.....	103.83
24	108.36	112.73	114.04	108.82	.....	103.77
25	107.18	112.88	113.62	108.56	.....	103.66
26	106.67	113.06	113.26	108.29	105.30	103.50
27	107.29	113.27	113.89	108.10	.....	103.46
28	.....	113.57	116.09	108.00	.....	103.64
29	.....	113.88	116.56	107.78	.....	103.53
30	.....	114.10	116.77	107.65	.....	103.59
31	109.13	114.38		107.61		103.45

(D-1-1)6acd 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; 1020, p. 108; 1027, p. 157). Royal Laundry Co. Measurements by Salt Lake City Corporation.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 25	9.05	June 1	3.30	July 29	1.80	Oct. 5	4.40
Apr. 9	9.50	July 9	1.20	Sept. 6	2.05	Dec. 7	8.20

(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; 1020, p. 108; 1027, p. 158). Salt Lake City Corporation. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 18	7.40	June 11	5.10	Aug. 9	4.10	Oct. 10	5.90
May 29	5.90	July 9	4.30	Sept. 12	4.60	Dec. 4	6.25

(D-1-1)9aca 1 (*886, pp. 853-862; 910, p. 122; 940, p. 83; 948, p. 93; *990, p. 104; 1020, p. 109; 1027, p. 158). State claim 4836. Salt Lake City Corporation.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	.....	142.86	.....	142.41	141.37	142.01
2	142.58	142.82	.....	142.38	141.37	142.04
3	.....	142.82	.....	142.41	141.37	142.06
4	.....	142.88	.....	.....	141.39	142.08
5	.....	142.91	.....	.....	141.38	142.06
6	.....	142.93	143.01	.....	141.43	142.14
7	.....	142.94	.....	.....	141.37	142.14
8	.....	142.98	.....	.....	141.38	142.16
9	142.84	142.92	.....	.....	141.37	142.14
10	.....	142.91	.....	.....	141.41	142.14
11	142.79	142.97	.....	141.81	141.42	142.14
12	142.76	143.00	.....	141.73	141.42	142.16
13	142.80	143.04	143.05	141.69	.....	142.19
14	142.79	143.03	143.14	.....	.....	142.22
15	.....	142.99	143.16	.....	141.45	142.33
16	142.80	143.01	143.02	.....	141.52	142.41
17	142.77	143.04	143.03	141.60	141.52	142.43
18	142.74	143.05	.....	141.65	141.53	142.52
19	142.78	143.02	.....	141.58	141.60	142.48
20	142.80	143.07	143.05	141.62	141.54	142.48
21	142.81	143.05	.....	141.60	141.55	142.48
22	142.80	.....	.....	141.60	141.59	142.52
23	142.88	.....	.....	141.60	141.69	143.53
24	142.81	.....	.....	141.52	141.80	142.48
25	142.86	.....	.....	141.47	141.78	.....
26	142.88	.....	.....	141.48	141.75	.....
27	142.85	143.04	142.52	141.46	141.83	142.63
28	142.84	143.08	142.48	141.43	141.89	142.64
29	142.85	.....	142.50	141.43	141.97	142.72
30	142.90	.....	142.46	141.36	141.96	142.72
31	142.85	.....	142.49	.....	141.95	.....

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	142.71	143.35	143.99	144.48	.....	.....
2	142.73	143.35	144.00	144.42	.....	.....
3	142.76	143.36	143.99	144.46	.....	.....
4	142.79	143.38	144.01	144.55	.....	.....
5	142.82	143.42	144.05	144.50	144.86	.....
6	142.85	143.53	144.05	144.50	144.94	.....
7	142.84	143.57	144.08	144.59	144.96	.....
8	142.86	143.60	144.13	.....	144.99	.....
9	142.96	143.61	144.14	.....	144.93	.....

(D-1-1)9aca 1--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
10	142.95	143.65	144.20	.....	144.85	.....
11	142.94	143.63	.....	.....	144.93	.....
12	142.94	143.66	.....	.....	144.95	.....
13	142.95	143.64	.....	.....	144.91	.....
14	142.97	.....	.....	.....	144.92	145.19
15	142.99	143.69	.....	.....	145.04	145.19
16	143.00	143.70	.....	.....	145.03	145.19
17	142.95	143.73	144.31	.....	144.98	145.19
18	143.02	143.73	.....	.....	144.93	145.22
19	143.01	143.76	.....	.....	144.93	145.18
20	142.95	143.77	.....	.....	145.03	145.22
21	142.98	143.80	.....	.....	145.05	145.17
22	.....	143.80	.....	.....	144.97	145.11
23	143.16	143.90	.....	.....	144.92	145.18
24	143.22	144.10	.....	.....	144.88	145.22
25	143.20	144.10	.....	.....	145.05	145.19
26	143.24	144.00	.....	.....	145.05	145.11
27	143.25	143.87	.....	.....	145.02	145.13
28	143.27	143.90	.....	.....	.....	145.31
29	143.28	143.94	.....	.....	.....	145.20
30	143.27	143.94	.....	.....	.....	145.25
31	143.37	143.96	.....	.....	.....	145.10

(D-1-1)19bba 1 (*840, p. 591; 845, p. 633; 886, p. 863; *910, p. 123; 940, p. 84; 948, p. 93; *990, p. 106; 1020, p. 110; 1027, p. 159). State claim 13468. Salt Lake County Hospital. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 25	14.55	June 1	8.80	July 29	7.30	Oct. 5	10.90
Apr. 9	15.00	July 9	6.70	Sept. 6	7.55	Dec. 7	13.70

(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; 1020, p. 110; 1027, p. 159). Louis Lund. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	3.00	June 1	2.75	Aug. 9	1.90	Dec. 6	3.70
Apr. 29	2.50	July 8	1.90	Oct. 10	3.50		

(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; 1020, p. 110; 1027, p. 159). State claim 33. Utah State Prison. Measurements by Salt Lake City Corporation.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June 11	71.87	Sept. 14	75.17	Dec. 9	73.57
Aug. 5	73.62	Oct. 7	73.47		

(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; 1020, p. 110; 1027, p. 160). L. W. Amodt. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 25	13.95	June 1	5.40	July 29	3.90	Oct. 5	9.60
Apr. 8	14.85	July 9	3.70	Sept. 6	10.95	Dec. 7	13.00

(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; 1020, p. 111; 1027, p. 160). State claim 4120. William Sorenson. Measurements by Salt Lake City Corporation.

Water level, in feet above land-surface datum, 1946

Feb. 26	12.90	May 24	3.80	Aug. 9	6.65	Oct. 10	12.00
Apr. 12	12.70	July 9	5.90	Sept. 9	7.30	Dec. 7	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. 106; 1020, p. 111; 1027, p. 160). Eugene Templeman. Measurements by Salt Lake City Corporation.

Water level, in feet with reference to land-surface datum, 1946

Jan. 7	+1.10	Mar. 6	-0.07	May 31	+0.60	Sept. 28	+2.20
9	+5.50	20	-.22	June 4	+1.72	Oct. 7	+2.25
18	+3.30	27	-.26	26	+1.60	29	+2.53
23	+2.26	Apr. 3	-.37	July 22	+2.40	30	+1.90
30	+3.30	9	-.70	Aug. 16	+2.95	Dec. 2	+1.70
Feb. 13	+2.24	15	-.95	Sept. 4	+2.60	18	+1.55
20	-.08	29	-1.03	5	+2.50	31	+1.40
28	+0.02	May 21	-.17				

(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; 1020, p. 111; 1027, p. 160). State claim 6685. M. L. Davis. Measurements by Salt Lake City Corporation.

Water level, in feet with reference to land-surface datum, 1946

Feb. 25	+1.80	May 24	-.65	Sept. 5	-.20	Dec. 2	+2.05
Apr. 8	+1.15	July 8	-0.50	Oct. 7	+1.10		

(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; 1020, p. 112; 1027, p. 160). State claim 9757. Mr. Trout. Measurements discontinued after Dec. 17.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.4	....	11.1	11.0	10.8	11.5	11.0	12.0	12.5	....	13.0	12.9
2	11.5	....	11.3	11.0	11.5	11.5	10.0	9.6	12.5	....	12.9	....
3	11.3	....	11.2	11.0	11.5	12.4	....	....	13.4	11.4	12.8	13.0
4	11.3	....	11.0	....	11.8	12.0	9.0	....	12.3	11.6	12.7	13.0
5	11.5	....	11.0	....	11.7	11.2	11.5	11.9	11.8	11.5	12.5	12.7
6	11.2	11.1	11.0	....	11.5	....	10.5	....	12.0	11.7	12.9	12.9
7	11.1	11.0	11.0	....	11.5	11.5	10.8	....	11.5	12.0	12.7	13.0
8	....	11.0	11.0	....	10.8	11.8	9.8	11.6	10.5	12.3	12.9	12.8
9	11.2	11.2	11.2	....	10.8	11.8	....	10.2	12.4	12.8	12.9	12.7
10	11.2	11.2	11.4	....	10.9	11.9	8.1	10.6	11.0	12.7	12.9	12.9
11	11.5	11.2	11.4	....	11.0	11.3	10.0	11.3	11.0	12.5	12.8	12.9
12	11.4	11.2	11.4	....	11.0	11.4	10.5	12.8	10.2	12.7	12.9	12.8
13	....	11.1	11.2	....	11.0	12.0	10.9	13.0	12.7	12.7	12.9	12.9
14	....	11.0	11.0	....	11.0	11.8	10.9	12.0	12.0	12.1	12.7	13.0

(D-2-1)8ada 3--Continued.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
15	....	11.0	11.0	....	11.0	11.9	12.0	12.5	12.3	12.2	12.8	12.9
16	11.3	11.2	11.0	....	11.7	11.5	9.0	11.0	12.5	12.5	12.7	12.8
17	11.2	11.1	11.1	....	11.6	11.5	....	10.9	13.0	12.2	12.7	12.9
18	11.2	11.1	11.4	....	11.3	11.0	....	12.6	12.0	12.5	12.7	....
19	11.3	11.2	11.5	....	10.5	11.9	10.7	12.0	11.9	11.6	12.9	....
20	11.2	11.2	11.0	....	11.5	10.3	10.6	11.2	11.8	11.6	13.0	....
21	11.1	11.1	11.0	....	11.4	10.7	10.5	10.5	11.4	11.6	12.9	....
22	11.2	11.1	11.2	....	11.0	11.4	11.6	12.0	11.0	12.8	12.9	....
23	11.1	11.2	11.4	....	10.5	11.4	....	11.5	11.6	....	13.0	....
24	11.0	11.2	11.0	....	10.9	11.3	12.5	13.4	11.7	....	12.8	....
25	11.1	11.1	11.0	....	11.4	11.4	....	13.5	11.6	12.7	12.7	....
26	11.2	11.2	11.1	10.5	11.1	11.2	....	13.5	11.3	....	12.9	....
27	11.1	11.1	11.4	11.4	11.1	9.2	12.2	....	....	....	13.0	....
28	11.0	11.0	11.5	10.7	11.2	9.5	....	10.8	....	....	12.9	....
29	11.3	....	11.4	11.5	11.2	9.4	....	10.5	....	12.8	12.9	....
30	11.2	....	11.5	10.7	11.2	11.5	10.0	10.6	....	12.8	13.0	....
31	....	....	11.2	....	11.5	....	10.0	9.5	....	12.6	....	....

(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; 1020, p. 112; 1027, p. 161). State claim 218. A. B. and T. F. Hogge. Measurements by Salt Lake City Corporation.

Water level, in feet with reference to land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	+0.25	June 29	-3.82	Aug. 30	-4.92	Dec. 2	+0.25
Mar. 26	+.27	July 15	-3.22	Oct. 7	-.25	3	+.24
May 31	+.28						

(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; 1020, p. 113; 1027, p. 161). M. A. Keyser.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	69.14	70.99	72.27	73.15	69.90	65.11	62.18	61.54	63.56	64.77	65.88	66.58
2	69.19	70.86	72.16	73.12	69.61	65.07	62.16	61.55	63.56	64.98	65.96	66.57
3	69.21	70.82	72.90	73.30	69.44	64.98	62.05	61.58	63.56	65.07	66.11	66.56
4	69.42	71.01	72.17	73.30	69.31	64.70	62.03	61.60	63.68	65.06	66.11	66.57
5	69.42	71.35	72.33	73.22	69.16	64.55	61.98	61.63	63.80	65.07	66.08	66.57
6	69.80	71.27	72.33	73.23	69.10	64.54	61.90	61.75	63.80	65.18	66.08	66.51
7	69.83	71.21	72.46	73.26	68.93	64.46	61.84	61.84	63.85	65.16	66.08	66.50
8	69.73	71.45	72.60	73.26	68.72	64.37	61.75	61.88	63.99	65.16	66.05	66.62
9	69.96	71.45	72.58	73.27	68.54	64.26	61.83	61.96	64.05	65.17	66.20	66.69
10	69.95	71.45	72.47	73.50	68.36	64.16	61.81	62.01	64.10	65.23	66.31	66.71
11	69.95	71.38	72.31	73.37	68.31	64.11	61.74	62.08	64.14	65.31	66.33	66.49
12	70.17	71.27	72.56	73.08	68.10	64.05	61.67	62.09	64.20	65.23	66.47	66.39
13	70.17	71.55	72.41	72.94	67.84	63.75	61.60	62.10	64.26	65.28	66.47	66.45
14	70.09	71.66	72.52	72.85	67.80	63.63	61.54	62.11	64.26	65.31	66.23	66.42
15	70.13	71.67	72.73	72.75	67.65	63.59	61.52	62.14	64.23	65.37	66.41	66.34
16	70.25	71.53	72.79	72.82	67.54	63.48	61.49	62.44	64.20	65.41	66.48	66.39
17	70.26	71.46	72.79	72.50	67.38	63.40	61.45	62.55	64.52	65.53	66.48	66.40
18	70.25	71.65	72.71	72.25	67.20	63.36	61.50	62.62	64.51	65.54	66.43	66.29
19	70.33	71.66	72.62	72.04	67.09	63.20	61.50	62.60	64.55	65.58	66.27	66.20
20	70.37	71.68	72.66	71.97	66.90	63.05	61.49	62.75	64.52	65.58	66.19	66.14

(D-2-1)15acc 1--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	70.48	71.66	72.80	71.86	66.62	62.92	61.47	62.82	64.47	65.56	66.57	66.03
22	70.48	71.80	72.87	71.61	66.45	62.81	61.38	62.82	64.65	65.56	66.55	66.01
23	70.70	71.96	72.87	71.28	66.51	62.71	61.34	62.86	64.71	65.59	66.28	66.05
24	.....	71.97	72.81	70.95	66.49	62.76	61.40	62.98	64.71	65.69	66.38	66.04
25	.....	71.95	73.07	70.76	66.23	62.48	61.30	62.97	64.70	65.68	66.55	65.94
26	.....	71.88	73.07	70.61	65.90	62.38	61.25	62.90	64.70	65.44	66.55	65.74
27	.....	71.95	72.91	70.44	65.67	62.36	61.29	63.10	64.86	65.50	66.53	65.69
28	.....	72.00	72.79	70.25	65.64	62.36	61.35	63.18	64.97	65.74	66.53	65.93
29	.....		72.95	70.05	65.60	62.32	61.41	63.33	65.00	65.78	66.50	66.17
30	71.11		73.02	70.06	65.55	62.31	61.40	63.38	.....	65.84	66.55	66.17
31	71.10		73.08		65.35		61.48	63.44		65.92		66.17

(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; 1020, p. 113; 1027, p. 162). Sam Jones. Water levels, in feet below land-surface datum, 1946: Mar. 20, 7.35; Dec. 11, 7.47.

San Juan County - San Juan River area

Moab - Spanish Valley

(D-27-22)2dda 1. State application 13070. Bureau of Land Management, U. S. Dept. of Interior. Stock well, diameter 4½ inches, depth 315 feet. Measuring point, top of casing, at land surface. Probable water-bearing formation: Wingate sandstone. Water levels, in feet below land-surface datum, 1946: Oct. 16, 277.03, windmill stopped 15 minutes; Oct. 17, 275.48.

Church Rock Syncline

(D-28-22)1caa 1. State application 14265. State Road Commission. Public-service well, diameter 6 inches, depth 114 feet. Measuring point, top of casing, 3.0 feet below land surface. Water-bearing formation: Entrada sandstone. Water level, in feet below land-surface datum, 1946: Oct. 16, 20.02.

(D-28-23)19dec 1. State application 13070. Bureau of Land Management, U. S. Dept. of Interior. Unused stock well, diameter 8 inches, depth 450 feet. Measuring point, top of casing, 1.0 foot above land surface. Water-bearing formations: Navajo sandstone and Kayenta formation. Water level, in feet below land-surface datum, 1946: Oct. 17, 282.20.

(D-29-23)33dbb 1. State application 13070. Bureau of Land Management, U. S. Dept. of Interior. Unused stock well, diameter 8½ inches, depth 133 feet. Measuring point, top of casing, at land surface. Water-bearing formation: Navajo sandstone. Water level, in feet below land-surface datum, 1946: Oct. 17, 31.16.

(D-30-23)10add 1. State claim 8429. State Road Commission. Unused public-service well, diameter 4 inches, depth 47 feet. Measuring point, top of clamp at bolts, at land surface. Water-bearing formation: Navajo sandstone. Water level, in feet below land-surface datum, 1946: Oct. 17, 32.38.

(D-30-24)35bac 1. State claim 8538. Molybdenum Corporation. Unused well, diameter 4 inches, depth 700 feet. Measuring point, top of discharge pipe, 1.6 feet above land surface. Water level, in feet below land-surface datum, 1946: Oct. 21, 196.50.

(D-31-23)23add 1. State claim 8254. Bureau of Land Management, U. S. Dept. of Interior. Stock well, diameter 6 inches, depth 156 feet. Measuring point, top of casing, 2.0 feet above land surface. Water-bearing formation: Navajo sandstone. Water level, in feet below land-surface datum, 1946: Oct. 18, 100.0.

LaSal Valley

(D-29-24)18bab 1. State claim 89. Joseph Redd. Unused domestic well, diameter $4\frac{1}{2}$ inches, depth 126 feet. Measuring point, top of casing, at land surface. Water-bearing formation: Dakota sandstone. Water level, in feet below land-surface datum, 1946: Oct. 17, 54.14.

Sage Plain

(D-32-23)36dcc (*948, p. 97; *990, p. 109). Frank Redd. Measuring point, bottom of iron pump base, 4.4 feet above land surface. Water level, in feet below land-surface datum, 1946: Oct. 18, 36.81.

(D-33-24)26bdc 1. State claim 8236. H. L. Hansen. Unused well, diameter 6 inches, depth 150 feet. Measuring point, top of casing, 1.0 foot above land surface. Water-bearing formation: Dakota sandstone. Water level, in feet below land-surface datum, 1946: Oct. 19, 79.92.

(D-34-24)25aad 1. State application 16754. C. A. Frost. Unused domestic well, diameter $6\frac{1}{2}$ inches, depth 225 feet. Measuring point, top of coupling on casing, 1.5 feet above land surface. Water-bearing formation: Dakota sandstone. Water level, in feet below land-surface datum, 1946: Oct. 18, 171.90.

(D-34-26)4dad 1. State claim 8249. State Land Board. Unused well, diameter 6 inches, depth 100 feet. Measuring point, top of casing, 1.0 foot above land surface. Water-bearing formation: Dakota sandstone. Water level, in feet below land-surface datum, 1946: Oct. 18, 42.10.

(D-34-26)6ccb 1. State application 16702. W. C. Huffman. Stock well, diameter 8 inches, depth 186 feet. Measuring point, top of casing, 1.0 foot above land surface. Water-bearing formation: Dakota sandstone. Water level, in feet below land-surface datum, 1946: Oct. 18, 142.05.

(D-34-26)30ccb 1. State claim 8243. Clement Johnson. Unused stock well, diameter 60 inches, depth 14 feet. Measuring point, top of iron bar at well opening, 3.0 feet above land surface. Water-bearing formation: Alluvium. Water level, in feet below land-surface datum, 1946: Oct. 18, 7.85.

(D-36-21)7. Office of Indian Affairs, U. S. Dept. of Interior. Unused domestic well, diameter 48 inches, depth 20 feet. Measuring point, top of concrete at well opening, 1.5 feet above land surface. Water-bearing formation: Alluvium. Water level, in feet below land-surface datum, 1946: Oct. 19, 16.40.

(D-36-22)27ddb 1 (*948, p. 97; *990, p. 109; 1020, p. 113; 1027, p. 162). U. S. 119. M. F. Lyman.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	19.40	Apr. 25	19.90	Aug. 10	19.50	Oct. 20	21.73
26	19.50	May 12	19.30	26	20.30	25	21.60
Feb. 11	19.55	25	19.10	Sept. 10	20.40	Nov. 10	21.90
26	19.60	June 10	18.60	25	21.10	25	21.80
Mar. 11	19.80	25	18.20	Oct. 10	21.50	Dec. 10	21.30
25	19.90	July 10	19.20	19	21.73	25	20.70
Apr. 10	19.80	25	18.80				

(D-36-22)27ddb 2 (*948, p. 97; *990, p. 109; 1020, p. 113; 1027, p. 162). U. S. 119a. M. F. Lyman. Water-bearing formation: Dakota sandstone.

Water level, in feet below land-surface datum, 1946

May 12	51.50	Aug. 10	52.70	Oct. 10	54.00	Nov. 10	53.70
25	51.75	26	53.65	19	54.18	25	54.05
June 10	51.90	Sept. 10	54.70	20	54.03	Dec. 10	53.50
25	51.70	25	54.90	25	53.40	26	53.70

(D-37-22)10dde 1. State application 16124. Bureau of Land Management, U. S. Dept. of Interior. Stock well, diameter 6 inches, depth 164 feet. Measuring point, top of reducer level with thread protector, 0.5 foot above land surface. Water-bearing formation: Dakota sandstone. Water level, in feet below land-surface datum, 1946: Oct. 20, 107.20.

(D-40-22)29bcc 1 (*948, p. 97; 990, p. 109; 1020, p. 114; 1027, p. 162). F. A. Nielson. Water-bearing formation: Alluvium. Water level, in feet below land-surface datum, 1946: Oct. 20, 7.22.

Sanpete County - Central Sevier Valley 14/

(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; 1020, p. 114; 1027, p. 162). State claim 1457. C. H. Beal. Water levels, in feet below land-surface datum, 1946: Mar. 21, 31.04; Dec. 18, 29.90.

(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; 1020, p. 114; 1027, p. 163). W. J. Wintch and R. P. Dyreng. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 18, 0.55.

(D-20-1)5bd (*886, p. 872; 910, p. 131; 940, p. 90; 948, p. 100; *990, p. 112; 1020, p. 114; 1027, p. 163). Federal Land Bank. Water levels, in feet below land-surface datum, 1946: Mar. 21, 20.96; Dec. 18, 20.24.

(D-20-1)20aaa 1 (*817, p. 477; *840, p. 613; *845, p. 642; *886, p. 872; *910, p. 131; 940, p. 90; 948, p. 100; 990, p. 112; 1020, p. 114; 1027, p. 163). State claim 6356. Federal Land Bank. Water levels, in feet below land-surface datum, 1946: Mar. 21, 30.80; Dec. 18, 30.22.

Sanpete County - Sanpete Valley

(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; 1020, p. 114; 1027, p. 163). Ernest Hansen. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 20, 19.0; Dec. 19, 19.8.

(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; 1020, p. 114; 1027, p. 163). State claim 3708. Joseph Cloward. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 19, 5.2.

(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; 1020, p. 114; 1027, p. 163). State claim 13671. William Prestwick. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 22, 2.95; Dec. 19, 3.8.

(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; 1020, p. 114; 1027, p. 163). State claim 2100. Isaac Reynolds. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 22, 2.80; Dec. 19, 2.55.

(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; 1020, p. 114; 1027, p. 163). State claim 3606. Twin Creek Irrigation Co. Water levels, in feet below land-surface datum, 1946: Mar. 22, 16.32; Dec. 19, 18.52.

(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; 1020, p. 115; 1027, p. 163). State claims 3741 and 8279. W. H. Brinton. Water levels, in feet below land-surface datum, 1946: Mar. 22, 3.91; Dec. 19, 4.47.

14/ For other wells in this valley see pages 122-123.

(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; 1020, p. 115; 1027, p. 163). State claim 8276. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 22, 6.06; Dec. 19, 5.54.

(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; 1020, p. 115; 1027, p. 163). State claim 8252. J. F. Bagnall. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 22, 7.4; Dec. 19, 7.2.

(D-16-3)14dca 1 (*845, p. 638; 886, p. 868; *910, p. 128; 940, p. 88; 948, p. 98; 990, p. 110; 1020, p. 115; 1027, p. 163). State claim 65. Chris Larsen. Water levels, in feet below land-surface datum, 1946: Mar. 22, 11.08; Dec. 19, 11.53.

(D-16-3)15aca 1 (*845, p. 638; 886, p. 868; *910, p. 128; 940, p. 88; 948, p. 98; *990, p. 110; 1020, p. 115; 1027, p. 163). State claim 8492. Federal Land Bank. Water levels, in feet below land-surface datum, 1946: Mar. 22, 27.47; Dec. 19, 28.25.

(D-16-3)15adc 1 (*845, p. 638; *886, p. 868; *910, p. 128; 940, p. 88; 948, p. 98; *990, p. 110; 1020, p. 115; 1027, p. 163). State application 12588. E. L. Davidson. Water levels, in feet below land-surface datum, 1946: Mar. 22, 45.05; Dec. 19, 49.55.

(D-16-3)32ddc 2 (*817, p. 471; *840, p. 608; *845, p. 638; 886, p. 868; *910, p. 128; 940, p. 88; 948, p. 98; *990, p. 111; 1020, p. 115; 1027, p. 163). State claim 11676. George Beal.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	19.2	....	17.0	16.5	16.3	17.6	....	15.0	16.6	15.3	14.5	13.5
2	18.9	....	17.0	16.4	16.1	17.6	12.5	15.3	16.6	14.2	14.5	13.9
3	18.6	....	16.9	16.4	15.9	17.8	12.9	15.4	....	14.3	14.3	13.8
4	18.3	....	16.9	16.5	16.0	17.8	13.3	15.8	16.6	14.6	14.3	13.6
5	18.4	....	16.6	16.5	16.0	17.9	13.2	15.0	16.5	14.6	14.3	....
6	18.4	....	16.7	16.4	16.1	18.1	12.7	15.1	16.4	14.9	14.3	....
7	....	....	16.8	16.4	15.9	18.1	12.5	14.9	16.5	14.9	14.2	....
8	....	17.3	17.0	16.3	16.0	18.1	12.5	14.6	16.4	14.6	14.2	....
9	....	....	16.8	16.2	16.1	18.2	12.2	15.2	16.4	14.6	14.1	....
10	....	....	16.7	16.5	16.0	18.2	11.6	15.7	16.4	14.6	14.2	13.5
11	....	....	16.8	16.5	16.0	18.2	11.4	15.9	16.5	14.7	14.4	13.5
12	....	....	16.6	16.4	16.0	18.2	11.1	16.2	16.3	14.6	14.0	13.4
13	....	....	16.5	16.3	16.4	18.3	12.3	16.3	16.2	14.7	14.1	13.4
14	....	....	16.6	16.5	16.5	18.3	12.5	16.3	16.1	14.9	14.0	13.4
15	....	18.0	16.5	16.5	16.6	17.7	12.2	16.5	16.1	14.7	14.0	13.4
16	....	....	16.4	16.5	16.5	17.9	11.8	....	16.2	14.7	13.9	13.4
17	....	....	16.6	....	16.7	18.0	12.1	16.6	14.5	14.6	13.9	13.2
18	....	....	16.6	....	16.8	16.7	11.7	16.6	14.6	14.6	14.1	....
19	....	....	16.6	....	16.9	16.9	12.0	16.7	....	14.3	14.0	13.1
20	....	....	16.4	16.2	16.9	17.2	12.8	16.7	15.1	14.4	14.1	12.9
21	....	....	16.4	16.2	16.9	16.0	12.4	16.6	15.3	14.6	14.0	12.9
22	17.7	....	16.5	16.2	17.0	15.3	12.1	16.6	15.4	14.6	13.9	12.9
23	....	....	16.7	16.2	16.9	....	13.1	16.6	15.4	14.8	13.7	12.9
24	....	....	16.7	16.4	16.9	15.2	13.4	16.6	15.5	14.5	13.7	12.9
25	....	....	16.7	16.4	16.9	15.4	14.2	16.7	15.5	14.5	13.8	12.8
26	....	....	16.6	16.2	17.2	16.0	13.4	16.7	15.5	14.5	13.8	12.8
27	....	....	16.6	16.0	16.9	15.3	13.8	16.7	15.6	14.4	13.6	12.9
28	....	....	16.7	16.0	16.9	14.3	13.7	16.7	15.5	14.4	13.7	12.9
29	....	....	16.6	16.2	17.1	13.9	13.8	16.7	15.4	14.4	13.5	12.6
30	....	....	16.6	16.3	17.3	13.2	13.6	16.6	15.6	14.4	13.5	12.8
31	....	....	16.6	....	17.4	....	14.4	16.6	....	14.3	....	12.6

(D-16-5)33ceb 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; 1020, p. 116; 1027, p. 164). State claim 7333. Chris Olsen. Water levels, in feet below land-surface datum, 1946: Mar. 22, 1.44; Dec. 19, 3.29.

(D-17-2)1lba 2 (*845, p. 640; 886, p. 869; *910, p. 129; 940, p. 89; 948, p. 99; *990, p. 111; 1020, p. 116; 1027, p. 164). State claim 11528. G. A. Anderson. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 22, 6.95; Dec. 18, 6.2.

(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; 1020, p. 116; 1027, p. 164). G. B. Cox. Water level, in feet above land-surface datum, 1946: Mar. 21, 0.88.

(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; 1020, p. 116; 1027, p. 165). State application 11763. R. A. Olsen and others. Water level, in feet below land-surface datum, 1946: Dec. 19, 1.51.

(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; 1020, p. 116; 1027, p. 165). State claim 11431. Niels Christensen. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 22, 6.2; Dec. 19, 4.4.

(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; 1020, p. 116; 1027, p. 165). State claims 4446 and 8260. S. E. Christensen. Water levels, in feet below land-surface datum, 1946: Mar. 22, 30.28; Dec. 19, 33.90.

(D-17-3)17adb 1 (*845, p. 641; 886, p. 871; *910, p. 130; 940, p. 89; 948, p. 99; *990, p. 112; 1020, p. 116; 1027, p. 165). State claim 8261. Drought Relief Administration. Water level, in feet below land-surface datum, 1946: Dec. 19, 44.35.

(D-17-3)30dbd 1 (*845, p. 641; 886, p. 871; *910, p. 130; 940, p. 89; 948, p. 99; *990, p. 112; 1020, p. 116; 1027, p. 165). State claim 2696. Earnest Monk. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 21, 13.4; Dec. 18, 12.0.

(D-18-2)1lda (*817, p. 475; 840, p. 612; 845, p. 642; 886, p. 871; 910, p. 130; 940, p. 89; 948, p. 99; *990, p. 112; 1020, p. 117; 1027, p. 165). L. H. Hougaard. Water levels, in feet below land-surface datum, 1946: Mar. 21, 74.06; Dec. 18, 73.66.

(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; 1020, p. 117; 1027, p. 165). State claim 13390. City of Manti. Water levels, in feet below land-surface datum, 1946: Mar. 21, 75.72; Dec. 18, 75.58.

(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; 1020, p. 117; 1027, p. 165). State claim 13462. W. G. Frischknecht. Water levels, in feet below land-surface datum, 1946: Mar. 21, 4.22; Dec. 18, 3.80.

(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; 1020, p. 117; 1027, p. 165). State claim 11881. Mayfield Irrigation Co. Water levels, in feet below land-surface datum, 1946: Mar. 21, 35.85; Dec. 18, 33.28.

Sevier County - Central Sevier Valley

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(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; 1020, p. 117; 1027, p. 165). State claim 5817. Federal Land Bank. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 21, 6.7; Dec. 18, 7.2.

(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; 1020, p. 117; 1027, p. 165). State claim 8407. E. A. Thorsen. Water levels, in feet below land-surface datum, 1946: Mar. 21, 2.92; Dec. 18, 2.37.

(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; 1020, p. 117; 1027, p. 165). Max Curtis. Water levels, in feet below land-surface datum, 1946: Mar. 21, 29.48; Dec. 18, 28.95.

(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; 1020, p. 117; 1027, p. 165). State claim 16479. U. S. Gypsum Co. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 21, 2.8; Dec. 18, 3.1. Measurements discontinued.

(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; 1020, p. 117; 1027, p. 166). State claim 1989. Sevier School District. Water level, in feet above land-surface datum, 1946: Dec. 18, 7.8.

(C-23-2)15ccc (*840, p. 556; 845, p. 643; 886, p. 873; 910, p. 132; 940, p. 91; 948, p. 100; 990, p. 113; 1020, p. 117; 1027, p. 166). Martha Avery.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	...	5.7	4.6	2.6	3.8	1.9	2.7	2.0	...	...	...
2	...	5.7	4.8	2.7	3.7	1.9	2.7	2.0	3.1	5.0	...
3	...	5.6	4.3	2.7	3.7	2.0	2.6	2.0	3.7	4.5	...
4	...	5.6	4.4	2.1	3.7	1.6	2.4	2.0	3.9	4.9	...
5	...	5.6	4.4	1.8	3.8	1.5	2.4	2.0	3.9	4.9	5.2
6	...	5.8	4.4	1.7	3.8	...	...	2.0	4.1	5.0	5.2
7	...	6.5	4.2	1.7	3.4	1.4	...	2.1	4.5	5.0	5.1
8	...	5.6	4.2	1.6	3.3	1.3	...	2.2	4.6	5.0	4.9
9	...	5.5	4.3	1.7	3.1	1.4	...	2.3	4.7	5.0	4.6
10	...	5.3	...	1.7	3.0	1.5	2.3	2.3	4.8	...	4.8
11	...	5.3	...	1.6	3.1	1.6	2.4	...	4.8	...	4.9
12	...	5.3	...	1.6	2.9	1.7	2.4	...	4.8	...	5.0
13	...	5.5	...	1.6	2.9	1.7	2.4	...	4.7	...	5.0
14	...	5.6	...	1.7	2.7	...	2.6	...	4.7	...	...
15	...	5.6	...	1.9	2.6	...	2.6	...	4.7	...	...
16	2.1	2.4	...	1.9	...	...	...	...
17	2.1	2.4	...	1.9	...	...	...	...
18	1.9	2.5	...	...	2.3	...	...	5.5
19	3.9	1.8	2.5	...	1.8	2.4	...	...	5.5
20	...	5.0	3.8	1.8	2.6	...	1.9	2.3	...	...	5.7
21	...	4.9	3.6	1.9	2.7	1.8	1.9	2.4	...	...	5.9
22	...	4.8	3.4	2.2	2.5	1.8	1.9	2.5	...	...	5.7
23	...	4.7	3.5	2.2	2.4	1.8	1.9	2.6	...	...	5.2
24	...	4.7	3.2	2.2	2.4	1.9	1.8	2.6	5.0	...	...
25	...	4.7	3.0	2.0	2.4	1.9	1.8	2.6	5.0	...	...
26	...	4.7	2.8	1.9	2.4	1.9	1.8	2.8	5.0	...	...
27	5.8	4.7	2.7	2.2	...	1.9	...	...	5.1	...	5.8
28	5.8	5.0	...	2.3	2.2	1.9	...	...	5.0	...	5.4
29	...	5.1	...	2.4	2.1	1.9	...	...	5.0	...	...
30	...	5.0	...	3.9	1.9	2.4	...	...	5.0	...	...
31	...	4.8	...	3.9	...	2.6	...	...	...	...	...

15/ For other wells in this valley see page 119.

(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; 1020, p. 118; 1027, p. 166). State claim 1969. F. M. Jackson. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 20, 8.55; Dec. 18, 8.3.

(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; 1020, p. 118; 1027, p. 166). State claim 8447. William Hallows. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 17, 24.2.

(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; 1020, p. 118; published as (C-23-2)26ddb 1 in 1027, p. 166). State claim 323. N. C. Johnson. Water levels, in feet above land-surface datum, 1946: Mar. 20, 4.5; Dec. 18, 5.6.

(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; 1020, p. 118; 1027, p. 166). State claim 3302. Pacific National Life Insurance Co. Water levels, in feet above land-surface datum, 1946: Mar. 20, 8.2; Dec. 17, 7.9.

(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; 1020, p. 118; 1027, p. 166). Luther Winget. Water levels, in feet below land-surface datum, 1946: Mar. 20, 13.32; Dec. 17, 12.39.

(C-25-4)2db (*886, p. 874; 910, p. 133; 940, p. 91; 948, p. 101; *990, p. 114; 1020, p. 118; 1027, p. 167). R. W. Pinney. Water levels, in feet below land-surface datum, 1946: Mar. 20, 50.50; Dec. 17, 48.88.

Sevier County - Grass Valley ^{16/}

(C-26-1)23ddb 1 (*817, p. 415; *840, p. 558; p. 645, p. 886; p. 874; *910, p. 133; 940, p. 91; 948, p. 101; *990, p. 114; 1020, p. 118; 1027, p. 167). State claim 12620. A. E. DeLange. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 16, 12.6.

(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; 1020, p. 118; 1027, p. 167). State claim 3159. A. R. Brown. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 21, 15.5; Dec. 16, 15.8.

(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; 1020, p. 119; 1027, p. 167). Charles Burr. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 21, 2.60; Dec. 16, 2.60.

Summit County - Weber Canyon

(A-3-4)4 (*845, p. 645; *896, p. 875; 910, p. 133; 940, p. 92; 948, p. 102; 990, p. 114; 1020, p. 119; 1027, p. 167). Thomas Overd. Water levels, in feet below land-surface datum, 1946: Mar. 30, 3.42; Dec. 12, 4.26.

Summit County - Kimball Valley

(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; 1020, p. 119; 1027, p. 167). Theodore Johnson. Water levels, in feet below land-surface datum, 1946: Mar. 30, 6.46; Dec. 12, 9.73.

16/ For other wells in this valley see page 107.

(D-1-4)31dc (*940, p. 92; 948, p. 102; *990, p. 114; 1020, p. 119; 1027, p. 167). No measurements made in 1946.

Summit County - Rhodes Valley

(D-1-5)3ccb 1 (*845, p. 645; 886, p. 875; *910, p. 134; 940, p. 92; 948, p. 102; *990, p. 115; 1020, p. 119; 1027, p. 167). State claim 12256. Martin Larsen. Measurements discontinued.

(D-1-5)4cd (*845, p. 645; *886, p. 875; 910, p. 134; 940, p. 92; 948, p. 102; *990, p. 115; 1020, p. 119; 1027, p. 167). Joe Bean. Water levels, in feet below land-surface datum, 1946: Mar. 30, 6.87; Dec. 12, 7.31.

(D-1-6)19dad 1 (*845, p. 646; *886, p. 875; 910, p. 134; 940, p. 92; 948, p. 102; *990, p. 115; 1020, p. 119; 1027, p. 167). State claim 3699. A. W. Frazier. Water levels, in feet below land-surface datum, 1946: Mar. 30, 15.40; Dec. 12, 13.09.

(D-2-6)5dbb (*845, p. 646; 886, p. 876; 910, p. 134; 940, p. 92; 948, p. 102; *990, p. 115; 1020, p. 119; 1027, p. 167). Burton Peterson. Water levels, in feet below land-surface datum, 1946: Mar. 30, 7.05; Dec. 12, 5.83.

(D-2-6)8aaa (*845, p. 646; 886, p. 876; 910, p. 135; 940, p. 93; 948, p. 102; *990, p. 115; 1020, p. 119; 1027, p. 167). State claim 12248. Ed. Rockhill. Water levels, in feet below land-surface datum, 1946: Mar. 30, 11.50; Dec. 12, 7.94.

(D-2-6)20ccc (*845, p. 647; 886, p. 876; 910, p. 135; 940, p. 93; 948, p. 102; *990, p. 115; 1020, p. 119; 1027, p. 168). State claim 12231. A. H. Padfield. Water levels, in feet below land-surface datum, 1946: Mar. 30, 3.26; Dec. 12, 3.78.

(D-2-6)28ccc 1 (*845, p. 647; 886, p. 876; 910, p. 135; 940, p. 93; 948, p. 102; *990, p. 115; 1020, p. 119; 1027, p. 168). Lillian McNeil. Water levels, in feet below land-surface datum, 1946: Mar. 30, 25.79; Dec. 12, 26.13.

(D-2-6)28ddc (*845, p. 647; 886, p. 876; 910, p. 136; *940, p. 93; 948, p. 103; *990, p. 115; 1020, p. 119; 1027, p. 168). A. D. Prescott. Water levels, in feet below land-surface datum, 1946: Mar. 30, 12.88; Dec. 12, 8.38. Measurements discontinued.

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; 1020, p. 119; 1027, p. 168). Alma Young. Water levels, in feet below land-surface datum, 1946: Mar. 5, 23.62; Dec. 19, 23.96.

(C-5-5)30ccb 1 (*845, p. 651; 886, p. 881; 910, p. 140; 940, p. 93; 948, p. 103; *990, p. 116; 1020, p. 119; 1027, p. 168). State claim 8286. Willard Sager. Water levels, in feet below land-surface datum, 1946: Mar. 5, 11.67; Dec. 19, 11.70.

(C-5-5)31dbd 1 (*940, p. 93; 948, p. 103; *990, p. 116; 1020, p. 120; 1027, p. 168). Water levels, in feet below land-surface datum, 1946: Mar. 5, 20.54; Dec. 19, 20.69.

(C-5-5)32add 1 (*940, p. 93; 948, p. 103; *990, p. 116; 1020, p. 120; 1027, p. 168). Water levels, in feet below land-surface datum, 1946: Mar. 5, 28.35; Dec. 19, 28.23.

(C-5-5)32adb 1 (designated (C-5-5)32add 2 in *1020, p. 120; 1027, p. 168). Stookey Bros. Water level, in feet below land-surface datum, 1946: Dec. 19, 2.16.

(C-8-5)20dc (*940, p. 94; 948, p. 103; *990, p. 116; 1020, p. 120; 1027, p. 168). Water levels, in feet below land-surface datum, 1946: Mar. 5, 7.90; Dec. 19, 9.03.

(C-8-5)30ccc 1 (*940, p. 94; 948, p. 103; *990, p. 116; 1020, p. 120; 1027, p. 168). State claim 1573. H. I. Yates. Water levels, in feet below land-surface datum, 1946: Mar. 5, 6.68; Dec. 19, 7.65.

(C-8-5)31aad 1 (*940, p. 94; 948, p. 103; 990, p. 116; 1020, p. 120; 1027, p. 168). D. J. Fredrickson. Water levels, in feet below land-surface datum, 1946: Mar. 5, 19.64; Dec. 19, 20.05.

(C-8-6)23cd (*940, p. 94; 948, p. 103; *990, p. 116; 1020, p. 120; 1027, p. 168). Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 19, 1.69.

(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; 1020, p. 120; 1027, p. 168). State claim 8285. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 5, 18.10; Dec. 9, 17.64.

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 1946.

(C-7-10)25c (*948, p. 104). Dugway Proving Ground. No measurements made in 1946.

Tooele County - Tooele Valley

Burmaster District

(C-2-4)16aad 2 (*940, p. 96; 948, p. 104; *990, p. 117; 1020, p. 120; 1027, p. 169). State claim 14209. Utah Wool Pulling Co. Water levels, in feet below land-surface datum, 1946: Mar. 5, 6.00; Dec. 18, 6.03.

(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; 1020, p. 120; 1027, p. 169). R. J. Jeremy. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 18, 24.3.

(C-2-5)5acc 3 (*940, p. 109; 948, p. 108; 1020, p. 120; 1027, p. 169). A. Searle. Water levels, in feet below land-surface datum, 1946: Mar. 1, 1.00; Dec. 18, 1.22.

(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; 1020, p. 120; 1027, p. 169). State of Utah. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 5, 11.7; Dec. 18, 11.4.

(C-2-5)27ccd 3 (*940, p. 112; 948, p. 108; 990, p. 119; 1020, p. 120; 1027, p. 169). State claim 17008. Edwin Cassity. Water levels, in feet below land-surface datum, 1946: Mar. 1, 0.35; Dec. 18, 0.31.

(C-2-6)23cbb 1 (*940, p. 116; 948, p. 109; *990, p. 120; 1020, p. 120; 1027, p. 169). State claim 16776. C. H. Worthington. Water levels, in feet below land-surface datum, 1946: Mar. 1, 2.45; Dec. 18, 2.68.

(C-3-5)4bbb 1 (*940, p. 119; 948, p. 110; 1020, p. 121; 1027, p. 169). Stanley Stromberg. Water level, in feet below land-surface datum, 1946: Mar. 1, 8.02. Measurements discontinued.

Erda District

(C-2-4)27ccb 1 (*940, p. 97; 948, p. 105; 1020, p. 121; 1027, p. 169). State claim 902. V. J. Crocheron. No measurements made in 1946.

(C-2-4)3ldca 1 (*948, p. 106; *990, p. 117; 1020, p. 121; 1027, p. 169). State claim 15160. State of Utah.

Water level at noon, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	a7.32	Mar. 9	7.69	July 13	6.90	Sept. 21	6.67
2	a7.36	May 1	7.93	20	6.87	28	6.58
3	a7.35	11	7.30	27	6.89	Oct. 5	6.67
4	a7.35	18	7.20	Aug. 4	6.92	12	6.75
5	7.40	25	7.07	10	6.80	19	7.06
Feb. 2	7.87	June 9	7.15	17	6.77	27	7.27
10	7.70	15	6.95	24	6.74	Nov. 2	7.35
16	7.80	22	6.98	31	6.75	9	7.43
23	7.75	29	6.75	Sept. 7	6.79	16	7.78
Mar. 1	7.70	July 7	6.90	14	6.72	25	7.82

a From recorder charts.

(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. 106; *990, p. 118; 1020, p. 122; 1027, p. 170). State claim 806. L. T. Liddell.

Water level, in feet above land-surface datum, 1946

Jan. 5	13.75	Apr. 7	12.58	July 13	8.87	Oct. 14	10.00
14	13.79	15	13.29	20	9.19	20	10.46
19	13.79	20	12.83	30	9.92	27	10.75
26	13.75	29	11.25	Aug. 3	9.46	Nov. 2	11.00
Feb. 2	13.96	May 4	10.33	10	8.92	9	11.67
10	13.96	10	10.29	19	8.83	16	11.83
16	14.00	19	9.44	25	8.81	23	12.63
23	14.04	25	9.10	Sept. 1	9.14	30	13.37
Mar. 2	14.10	June 9	10.92	7	8.59	Dec. 7	13.71
9	14.12	15	10.17	14	8.46	14	13.83
16	14.12	22	9.17	21	9.08	21	14.12
25	13.59	29	8.79	28	9.14	28	14.17
Apr. 2	14.00	July 7	8.87	Oct. 5	9.50		

(C-2-4)33abb 4 (*817, p. 400; *840, p. 545; 845, p. 648; 886, p. 878; 910, p. 137; 940, p. 107; *990, p. 118; 1020, p. 122; 1027, p. 171). State claim 808. L. T. Liddell.

Water level, in feet, above land-surface datum, 1946

Jan. 5	15.27	Apr. 7	15.10	July 13	10.43	Oct. 14	12.06
14	15.29	15	15.12	20	9.77	20	12.27
19	15.21	20	14.33	30	11.52	27	12.41
26	15.33	29	12.45	Aug. 3	10.81	Nov. 2	12.56
Feb. 2	15.37	May 4	11.89	10	10.81	9	13.74
10	15.45	10	11.12	19	10.74	16	14.35
16	15.41	19	10.85	25	10.70	23	14.25
23	15.43	25	10.68	Sept. 1	10.72	30	14.49
Mar. 2	15.45	June 9	12.06	7	10.27	Dec. 7	15.16
9	15.50	15	11.45	14	10.47	14	15.16
16	15.59	23	10.93	21	11.08	21	15.27
25	15.19	29	10.41	28	11.25	28	15.62
Apr. 2	15.23	July 7	10.64	Oct. 5	11.56		

(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; 1020, p. 123; 1027, p. 171). State claim 899. Ida L. Clegg.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	33.81	33.56	33.43	34.24	34.92	35.36	35.29	35.78	35.58	.....	34.08
2	.....	33.70	33.50	33.36	34.22	34.90	35.32	35.28	35.62	35.61	.....	34.08
3	.....	33.67	33.43	33.44	34.26	34.92	35.32	35.44	35.63	35.56	.....	34.03
4	.....	33.70	33.44	33.41	34.35	34.90	35.33	35.44	35.67	35.54	.....	33.97
5	33.96	33.82	33.48	33.40	34.38	34.76	35.37	35.38	35.71	35.48	.....	33.94
6	34.13	33.76	33.44	33.42	34.41	34.69	35.35	35.40	35.66	35.53	.....	33.90
7	34.04	33.65	33.54	33.51	34.50	34.69	35.42	35.60	35.82	35.51	.....	33.85
8	34.03	33.77	33.52	33.52	34.51	34.66	35.42	35.61	35.85	35.49	34.78	33.91
9	34.08	33.75	33.51	33.55	34.55	34.64	35.50	35.59	35.86	35.52	.....	33.91
10	34.03	33.66	33.45	33.60	34.51	34.65	35.49	35.63	35.87	35.51	.....	33.91
11	34.01	33.64	33.34	33.61	34.64	34.62	35.42	35.65	35.85	35.50	.....	33.83
12	34.04	33.73	33.44	33.53	34.64	34.68	35.49	34.67	35.83	35.41	.....	33.74
13	34.01	33.76	33.31	33.50	34.56	34.65	35.43	35.68	35.89	35.42	.....	33.73
14	33.95	33.76	33.34	33.50	34.64	34.73	35.43	35.66	35.88	35.34	.....	33.70
15	33.95	33.66	33.44	33.57	34.57	34.86	35.41	35.62	35.68	35.31	.....	33.64
16	33.94	33.62	33.49	33.57	34.63	34.90	35.33	35.68	35.61	35.30	34.73	33.68
17	33.95	33.69	33.45	33.55	34.66	34.96	35.42	35.71	35.71	35.34	.....	33.69
18	33.88	33.67	33.39	33.51	34.77	35.10	35.38	35.73	35.71	35.26	.....	33.67
19	33.95	33.63	33.32	33.49	34.83	35.18	35.42	35.70	35.74	35.30	.....	33.64
20	33.93	33.57	33.36	33.60	34.88	35.22	35.42	35.70	35.70	35.27	.....	33.64
21	33.96	33.62	33.51	33.60	34.83	35.21	35.36	35.72	35.65	35.24	.....	33.57
22	33.90	33.64	33.58	33.66	34.86	35.23	35.34	35.71	35.68	35.22	.....	33.57
23	33.96	33.59	33.59	33.63	34.94	35.24	35.33	35.71	35.70	35.21	34.38	33.59
24	33.85	33.52	33.58	33.60	35.01	35.32	35.37	35.71	35.66	35.25	34.41	33.55
25	33.85	33.52	33.66	33.68	35.03	35.29	35.32	35.76	35.64	35.20	34.45	33.50
26	33.95	33.49	33.66	33.88	34.99	35.29	35.32	35.76	35.59	35.12	34.35	33.42
27	33.87	33.48	33.59	34.00	34.97	35.33	35.32	35.78	35.61	.....	34.24	33.39
28	33.78	33.41	33.51	34.03	35.02	35.32	35.29	35.78	35.68	.....	34.17	33.47
29	33.79		33.53	34.08	35.02	35.41	35.28	35.80	35.67	.....	34.12	33.43
30	33.86		33.44	34.18	35.04	35.34	35.23	35.76	35.62	.....	34.13	33.46
31	33.88		33.41		34.98		35.25	35.77	.....	.....		33.44

(C-2-4)33bbb 2 (*940, p. 109; 948, p. 108; 1020, p. 123; 1027, p. 171). State claim 16796. Franklin Whitehouse. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 1, 2.20; Dec. 18, 2.85.

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; 1020, p. 123; 1027, p. 172). G. L. Sutton. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 1, 5.0; Dec. 18, 4.3.

(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; 1020, p. 123; 1027, p. 172). State claim 17112. Tony Castagno. Water levels, in feet above land-surface datum, 1946: Mar. 1, 17.5; Dec. 18, 16.1.

(C-2-6)36bac 1 (*940, p. 118; 948, p. 109; *990, p. 130; 1020, p. 123; 1027, p. 172). State application 12189. J. R. Clark. Water levels, in feet below land-surface datum, 1946: Mar. 1, 20.57; Dec. 28, 20.60.

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(C-2-6)36cdd 1 (*840, p. 547; 910, p. 140; 940, p. 118; 948, p. 109; *990, p. 120; 1020, p. 124; 1027, p. 172). R. C. Walk.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.55	78.61	78.67	78.16	77.85	77.20	77.53	78.03	78.62	78.89	79.28	.....
2	78.57	78.58	78.58	78.15	77.79	77.20	77.56	78.04	78.62	78.95	79.30	.....
3	78.56	78.58	78.56	78.18	77.75	77.20	77.57	78.07	78.62	78.95	79.31	.....
4	78.54	78.63	78.55	78.14	77.70	.....	77.57	78.08	78.65	78.96	79.31	.....
5	78.54	78.67	78.51	77.92	77.65	.....	77.60	78.10	78.68	78.98	79.30	.....
6	78.63	78.60	78.46	77.92	77.60	.....	77.62	78.13	78.67	78.99	79.31	.....
7	78.54	78.62	78.48	77.93	77.55	.....	77.62	78.16	78.66	79.00	79.30	.....
8	78.58	78.66	78.46	77.94	77.50	.....	77.66	78.18	78.69	79.02	79.30	.....
9	78.60	78.62	78.42	77.96	77.48	77.20	77.72	78.18	78.69	79.05	79.32	.....
10	78.55	78.59	78.34	77.99	.....	77.22	77.72	78.21	78.70	79.10	79.31	.....
11	78.58	78.63	78.30	77.98	77.43	77.23	77.74	78.21	78.70	79.11	79.31	.....
12	78.59	78.65	78.25	78.00	77.40	77.24	77.75	78.24	78.71	79.09	79.31	79.27
13	78.53	78.69	78.15	77.99	77.36	77.22	77.76	78.26	78.73	79.12	79.30	79.25
14	78.52	78.66	78.20	78.01	77.35	77.23	77.78	78.26	78.73	79.12	79.32	79.24
15	78.53	78.65	78.16	78.04	77.36	77.23	77.80	78.27	78.72	79.13	79.34	79.20
16	78.60	78.68	78.15	78.03	77.33	77.25	77.80	78.29	78.76	79.13	79.35	79.23
17	78.58	78.68	78.10	78.02	77.33	77.29	77.82	78.31	78.81	79.13	79.35	79.22
18	78.54	78.64	78.03	77.99	77.31	77.32	77.86	78.32	.....	79.17	79.33	.....
19	78.54	78.66	77.97	77.95	77.32	77.33	77.87	78.32	78.84	79.17	79.29	79.12
20	78.56	78.66	77.96	77.98	77.31	77.33	77.89	78.38	78.85	79.17	79.35	79.11
21	78.56	78.67	77.96	77.97	77.28	77.34	77.91	78.42	78.85	79.20	79.36	79.07
22	78.54	78.68	77.90	77.99	77.27	77.37	77.88	78.45	78.92	79.19	79.30	79.07
23	78.48	78.63	77.87	77.97	77.30	.....	77.90	78.47	78.92	79.22	79.25	79.07
24	78.44	78.65	77.89	77.95	77.29	77.49	77.92	78.50	78.91	79.24	79.27	79.05
25	78.47	78.64	77.95	77.94	77.27	77.45	77.92	78.51	78.90	79.23	79.27	79.07
26	78.52	78.63	77.94	77.92	77.20	77.46	77.94	78.54	78.88	79.23	79.27	79.04
27	78.50	.....	77.91	77.92	77.21	77.49	77.95	78.56	78.89	79.23	79.27	79.01
28	78.47	.....	77.89	77.92	77.21	77.50	77.96	78.58	78.89	79.28	79.25	79.07
29	78.52		78.15	77.89	77.22	77.55	.....	78.60	78.89	79.27	.....	79.02
30	78.62		78.14	77.90	77.22	77.55	77.98	78.61	78.89	79.28	.....	79.06
31	78.60		78.19		77.20		78.02	78.60		79.28		79.00

(C-3-5)5bbb 1 (*948, p. 110; *990, p. 121; 1020, p. 124; 1027, p. 172). State claim 15330. R. W. Brown. Water levels, in feet with reference to land-surface datum, 1946: Mar. 1, +0.42; Dec. 18, -0.42.

(C-3-5)6dda 1 (*940, p. 121; 948, p. 111; *990, p. 121; 1020, p. 124; 1027, p. 173). State claim 9952. Federal Land Bank. Water levels, in feet below land-surface datum, 1946: Mar. 1, 53.27; Dec. 18, 54.53.

Lake Point District

(C-2-4)1bcc 1 (*940, p. 95; 948, p. 104; *990, p. 116; 1020, p. 124; 1027, p. 173). Jesse Long. Water levels, in feet below land-surface datum, 1946: Mar. 1, 34.62; Dec. 18, 35.24.

(C-2-4)2aba 1. State claim A-11962. B. N. Griffith. Lake Point, Tooele County. Diameter 3 inches, depth 240 feet. Measuring point, top of 3-inch ell on casing, 0.4 foot above land surface and 4,239.24 feet above sea level. Water levels, in feet above land-surface datum, 1946: Mar. 1, 8.0; Dec. 18, 7.4.

(C-2-4)3dcc 1 (*940, p. 96; 948, p. 104; *990, p. 117; 1020, p. 125; 1027, p. 173). Nick Soter. Water levels, in feet below land-surface datum, 1946: Mar. 5, 4.08; Dec. 18, 4.16.

Marshall District

(C-2-5)34add 1 (*940, p. 114; 948, p. 109; *990, p. 120; 1020, p. 125; 1027, p. 173). State application 13537. B. H. Woodward. Water levels, in feet above land-surface datum, 1946: Mar. 1, 12.0; Dec. 18, 11.7.

(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; 1020, p. 125; 1027, p. 173). State claim 13692. J. A. and S. W. Smith. Water levels, in feet below land-surface datum, 1946: Mar. 1, 32.22; Dec. 18, 31.92.

Utah County - Uinta Basin^{17/}

U(B-1-1)2caa 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; 1020, p. 125; 1027, p. 173). Jay Larsen. Water level, in feet below land-surface datum, 1946: Oct. 23, 34.42.

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; 1020, p. 125; 1027, p. 173). State claim 1868. George Hackford. Water level, in feet below land-surface datum, 1946: Oct. 23, 9.82.

U(D-1-1)19ccc 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; 1020, p. 125; 1027, p. 173). Bennett School. Measurements discontinued.

U(D-1-1)23abb 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; 1020, p. 125; 1027, p. 173). Albert Daniels. Water level, in feet below land-surface datum, 1946: Oct. 23, 14.77.

(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; 1020, p. 125; 1027, p. 173). State claim 6641. M. M. Bingham. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 23, 7.6.

(D-3-21)30dca 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; 1020, p. 125; 1027, p. 174). State claim 2629. R. G. Alexander. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Oct. 24, 4.35. May leak underground when closed in.

(D-4-21)2bcd 1 (*886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p. 121; 1020, p. 125; 1027, p. 174). Gibson Ranch Co. Water level, in feet below land-surface datum, 1946: Oct. 24, 8.17.

(D-4-21)12acc 1 (*886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p. 121; 1020, p. 125; 1027, p. 174). Lonzo McCarl. Water level, in feet below land-surface datum, 1946: Oct. 24, 11.23.

(D-4-21)24dbb 1 (*886, p. 894; 910, p. 141; 940, p. 121; 948, p. 111; *990, p. 121; 1020, p. 125; 1027, p. 174). State claim 6931. Peter Erickson. Measurements discontinued after Oct. 20, 1945.

Utah County - Cedar Valley

(C-6-2)29cac 1 (*990, p. 122; 1020, p. 126; 1027, p. 174). Marsh Williams. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 6, 5.9; Dec. 16, 5.9.

(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; 1020, p. 126; 1027, p. 174). State claim 17686. W. C. Thomas. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Mar. 6, 6.0. Measurements discontinued.

^{17/} For other wells in this basin see pages 87-89.

Utah County - Goshen Valley

(C-10-1)2aad 1 (*845, p. 652; 886, p. 882; 910, p. 142; 940, p. 122; 948, p. 112; *990, p. 122; 1020, p. 126; 1027, p. 174). State claim 5206. Albert Morgan. Water levels, in feet below land-surface datum, 1946: Mar. 11, 12.25; Dec. 17, 11.55.

(D-9-1)29cdc 1 (*845, p. 665; *886, p. 893; 910, p. 152; 940, p. 122; 948, p. 112; *990, p. 122; 1020, p. 126; 1027, p. 174). Water levels, in feet below land-surface datum, 1946: Mar. 11, 26.56; Dec. 17, 25.59.

Utah County - Utah Lake Valley

North Utah Basin

(C-5-1)2daa 3 (published as (C-5-1)2daa 1 in *910, p. 141; 940, p. 122; 948, p. 112; *990, p. 122; 1020, p. 126; 1027, p. 174). State claims 10922, 10923, and 10924. O. J. Roberts. Water levels, in feet below land-surface datum, 1946: Mar. 6, 15.40; Dec. 16, 16.10.

(D-5-1)8aaa 1 (*910, p. 142; 940, p. 122; 948, p. 112; *990, p. 122; 1020, p. 126; 1027, p. 174). State claim 11095. Lehi Irrigation Co. Water levels, in feet below land-surface datum, 1946: Mar. 6, 26.78; Dec. 16, 27.61.

(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; 1020, p. 126; 1027, p. 174). State claim 16332. R. N. Webb. Water levels, in feet below land-surface datum, 1946: Mar. 6, 11.8; Dec. 16, 10.6.

(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; 1020, p. 126; 1027, p. 174). State claim 11083. City of Lehi. Water levels, in feet below land-surface datum, 1946: Mar. 6, 7.53; Dec. 16, 10.98.

(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; 1020, p. 127; 1027, p. 174). State claim 8371. Drought Relief Administration.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	52.49	53.03	51.42	52.22	53.11	53.39	.....	53.13	.....
2	.....	50.94	51.70	52.49	52.85	51.58	52.27	53.16	53.41	.....	53.36	53.05
3	50.53	50.84	51.35	52.68	.....	51.68	52.41	53.24	.....	.....	53.35	.....
4	50.66	50.88	51.53	52.64	.....	51.73	52.50	.....	.....	.....	53.23	.....
5	50.47	51.35	51.70	52.53	.....	.....	52.50	53.10	.....	.....	53.33	.....
6	50.80	51.27	51.72	.....	.....	51.65	52.48	.....	.....	.....	.....	.....
7	50.80	51.08	52.03	.....	52.32	51.67	52.43	.....	53.11	52.99	.....	.....
8	50.69	51.39	.....	.....	52.13	51.76	52.48	.....	53.16	52.91	.....	.....
9	50.91	51.34	51.99	52.67	52.06	51.74	52.55	53.22	53.24	52.93	.....	.....
10	50.83	51.16	51.81	52.89	.....	51.87	52.58	53.31	.....	52.99	.....	.....
11	50.82	51.23	51.60	52.90	.....	51.88	52.51	53.38	.....	.....	.....	.....
12	51.10	51.34	.....	.....	51.70	51.96	52.53	53.20	.....	.....	.....	.....
13	51.00	51.54	51.55	.....	51.53	51.94	52.53	53.06	.....	.....	.....	.....
14	50.80	51.60	51.69	52.55	51.61	52.05	52.49	53.02	.....	.....	.....	.....
15	.....	51.40	52.01	52.80	51.29	52.12	52.50	52.92	53.20	53.01	.....	.....
16	.....	51.22	52.16	52.82	51.28	52.10	.....	53.07	.....	52.96	.....	52.20
17	.....	51.45	52.20	.....	51.65	52.14	.....	53.23	.....	53.03	.....	.....
18	50.79	.....	52.10	.....	51.57	52.20	.....	53.38	.....	53.12	.....	.....
19	50.85	.....	51.95	52.67	51.65	52.12	.....	53.32	.....	53.20	53.06	.....
20	50.80	.....	51.94	52.74	51.57	52.04	52.93	53.39	.....	53.33	.....	.....
21	51.03	51.45	52.12	.....	51.33	52.03	52.94	53.50	.....	.....	.....	.....
22	50.98	51.63	52.23	52.92	51.32	51.97	52.89	53.40	53.30	.....	.....	52.12
23	51.06	51.68	52.22	52.86	51.51	51.96	.....	53.23	.....	.....	.....	.....
24	50.97	51.51	52.14	52.85	51.68	52.22	.....	53.14	.....	.....	52.77	.....
25	50.79	51.45	52.44	52.90	51.62	52.19	.....	52.98	.....	.....	.....	.....

(D-5-1)14adb 1--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	51.14	51.51	52.46	.....	51.44	52.21	.....	52.86	.....	.....	.....	.....
27	51.04	51.56	.....	.....	51.30	52.22	.....	52.86	.....	.....	.....	.....
28	50.81	51.23	.....	.....	51.43	52.22	52.80	52.93	.....	.....	.....	.....
29	50.80	.....	.....	.....	51.46	52.31	52.79	52.94	53.48	53.07	.....	52.00
30	51.15	.....	52.27	52.93	51.48	52.38	52.62	.....	.....	53.12	.....	.....
31	51.18	.....	52.34	.....	51.51	.....	52.94	53.19	.....	53.22	.....	.....

(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; 1020, p. 128; 1027, p. 175). State claim 5061. Eugene Briggs. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 6, 39.3; Dec. 16, 38.2.

(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; 1020, p. 128; 1027, p. 175). State claim 11174. H. C. Comer. Water levels, in feet above land-surface datum, 1946: Mar. 6, 37.6; Dec. 16, 36.1.

(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; 1020, p. 128; 1027, p. 175). State claim 3628. M. S. Lott. Water levels, in feet above land-surface datum, 1946: Mar. 6, 28.1; Dec. 16, 26.6.

(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. 125; 1020, p. 129; 1027, p. 175). State claim 6860. Jacob Cox. Water level, in feet above land-surface datum, 1946: Dec. 16, 51.0.

(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; 1020, p. 129; 1027, p. 175). State claim 6861. Jacob C. Cox.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	35.2	35.9	29.1	26.9	18.6	18.7	19.4	24.1	31.9	35.1
2	34.0	....	35.2	35.9	29.6	26.8	18.7	17.7	19.9	24.8	31.9	35.2
3	33.9	....	35.2	35.9	29.6	26.4	18.3	17.7	20.5	25.1	31.8	35.7
4	33.9	....	35.2	35.9	28.6	25.8	18.0	17.4	20.5	26.0	31.9	35.7
5	34.0	....	35.2	35.9	28.5	24.8	17.6	17.5	20.4	27.2	32.4	35.7
6	34.0	....	35.2	35.9	27.7	23.9	17.6	18.2	20.5	27.2	32.3	35.9
7	33.9	....	35.2	35.4	27.6	22.8	17.9	18.7	21.5	26.6	32.5	36.2
8	34.0	....	35.2	35.6	25.7	22.7	18.3	18.7	21.9	26.1	32.9	35.7
9	34.0	34.5	35.2	35.5	25.1	23.0	18.5	18.7	21.5	27.2	32.9	35.7
10	33.9	34.5	35.2	34.9	24.8	22.8	18.5	19.1	21.5	27.2	33.0	35.7
11	33.9	34.6	35.3	35.5	25.6	22.3	18.0	18.4	21.9	27.7	33.2	35.6
12	34.0	34.7	35.3	35.5	25.7	21.8	18.3	18.5	21.9	28.2	33.6	35.6
13	34.0	34.8	35.3	35.5	25.0	20.9	19.0	18.3	22.0	28.2	33.6	35.6
14	33.9	34.9	35.3	35.6	25.7	19.9	19.5	18.2	22.0	28.3	33.8	36.1
15	....	35.0	35.3	35.6	24.2	19.4	19.2	18.3	22.5	28.2	34.0	35.8
16	....	35.1	35.3	35.7	24.2	19.1	19.2	18.8	22.6	28.2	33.9	35.8
17	33.9	35.2	35.4	35.6	24.4	19.3	18.9	17.9	22.5	28.2	33.6	....
18	33.9	35.1	35.4	35.5	23.7	20.5	18.6	17.4	21.8	28.2	33.8	....
19	33.9	35.1	35.5	36.0	22.7	20.4	17.7	17.3	21.9	28.2	34.5	....
20	33.9	35.1	35.4	35.7	22.2	19.8	17.1	17.3	22.5	28.3	34.5	....
21	33.9	35.1	35.4	35.5	21.8	19.9	17.5	18.1	23.0	38.4	34.3	....
22	33.9	35.1	35.4	34.5	21.7	19.1	17.2	18.3	22.7	28.6	34.2	....
23	33.9	35.1	35.3	33.0	21.3	19.1	17.1	18.8	22.9	28.5	34.5	....
24	33.9	35.1	35.4	32.5	21.7	19.0	18.1	19.2	22.5	28.3	34.5	....
25	....	35.1	35.4	31.7	22.9	18.9	19.1	19.3	22.9	28.6	34.6	....

(D-5-1)20aba 2--Continued.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	35.1	35.5	31.0	23.2	18.1	19.0	19.9	22.8	28.7	35.1	.....
27 34.0	35.1	35.9	31.0	23.2	17.8	19.1	20.3	22.4	29.3	35.0	....
28 34.0	35.1	35.8	30.5	23.2	18.3	19.1	19.8	23.0	29.4	34.9	....
29 34.0		35.8	30.5	23.2	18.4	19.1	19.3	22.5	30.8	35.0	....
30 34.0		35.8	29.5	25.7	18.5	19.2	19.3	22.9	30.8	35.1	....
31 34.0		35.8		26.7		19.1	19.6		31.2		....

(D-5-1)23dab 3 (*910, p. 144; 940, p. 124; 948, p. 114; *990, p. 125; 1020, p. 130; 1027, p. 176). State claim 17054. City of American Fork. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 6, 26.1; Dec. 16, 25.6.

(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; 1020, p. 130; 1027, p. 176). State application 11897. George Addy and others. Water level, in feet above land-surface datum, 1946: Mar. 11, 35.5. Measurements discontinued.

(D-5-2)18ded 2 (*910, p. 144; 940, p. 124; 948, p. 115; *990, p. 125; 1020, p. 130; 1027, p. 176). A. C. Christensen. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 11, 6.2; Dec. 16, 5.8.

(D-5-2)29dba 4 (*817, p. 459; *840, p. 600; 845, p. 655; 886, p. 884; 910, p. 144; 940, p. 124; 948, p. 115; *990, p. 126; 1020, p. 130; 1027, p. 176). State claim 13150. Mark Richins. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 11, 19.5; Dec. 16, 19.0.

(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; 1020, p. 131; 1027, p. 176). State claim 1651. Pioneer Pumping Co. Water levels, in feet below land-surface datum, 1946: Mar. 11, 45.48; Dec. 16, 38.53.

(D-6-2)10add 1 (*910, p. 145; 940, p. 124; 948, p. 116; *990, p. 126; 1020, p. 131; 1027, p. 176). State claim 3123. City of Orem. Water levels, in feet below land-surface datum, 1946: Mar. 11, 39.70; Dec. 16, 38.79.

(D-6-2)16cbc 1 (*845, p. 657; 886, p. 886; 910, p. 145; 940, p. 124; 948, p. 116; *990, p. 127; 1020, p. 132; 1027, p. 176). Frank Burningham. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 16, 5.0.

(D-6-2)18add 2 (*845, p. 657; 910, p. 146; 940, p. 125; 948, p. 117; *990, p. 127; 1020, p. 132; 1027, p. 177). State application 11747. J. L. Larson. Water levels, in feet above land-surface datum, 1946: Mar. 7, 24.2; Dec. 16, 21.6.

(D-6-2)23bab 1 (*845, p. 658; *886, p. 887; 910, p. 146; 940, p. 125; 948, p. 117; *990, p. 127; 1020, p. 132; 1027, p. 177). Elias Nielson. Water level, in feet below land-surface datum, 1946: Dec. 16, 35.66. Measurements discontinued.

(D-6-2)24dbd 1 (*845, p. 658; 886, p. 887; 910, p. 146; 940, p. 125; 948, p. 117; *990, p. 128; 1020, p. 132; 1027, p. 177). Isaac Boyce. Water levels in feet below land-surface datum, 1946: Mar. 7, 119.88; Dec. 16, 119.67.

(D-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; 1020, p. 132; 1027, p. 177). State claim 2087. Henry Williamson. Water levels, in feet above land-surface datum, 1946: Mar. 7, 16.1; Dec. 16, 16.3.

(C-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; 1020, p. 133; 1027, p. 177). State claim 105. Provo City Corporation. Recorder removed Dec. 23, 1945. Water level, in feet above land-surface datum, 1946: Dec. 16, 30.4.

South Utah Basin

(D-7-2)35ccd 1 (*840, p. 604; 845, p. 662; 886, p. 890; *910, p. 149; 940, p. 126; 948, p. 118; *990, p. 128; 1020, p. 133; 1027, p. 178). Angus Hales. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 7, 7.4; Dec. 17, 6.9.

(D-7-2)36dcc 2 (*845, p. 662; 886, p. 890; 910, p. 149; 940, p. 126; 948, p. 118; *990, p. 128; 1020, p. 133; 1027, p. 178). H. H. Spatford. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 7, 17.0; Dec. 17, 16.8.

(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; 1020, p. 133; 1027, p. 178). State claim 8345. Drought Relief Administration. Water levels, in feet above land-surface datum, 1946: Mar. 7, 53.0; Dec. 17, 52.6.

(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. 128; 1020, p. 134; 1027, p. 178). State claim 7006. A. W. Finley. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 7, 10.7; Dec. 17, 11.5.

(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; 1020, p. 134; 1027, p. 178). State claim 14076. R. G. Francis. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 7, 16.7; Dec. 17, 17.0.

(D-8-1)25ceb 1 (*845, p. 664; 886, p. 891; *910, p. 150; 940, p. 126; 948, p. 119; *990, p. 129; 1020, p. 134; 1027, p. 178). State claim 11790. F. S. Hiatt. Flowing prior to measurements. Water level, in feet above land-surface datum, 1946: Mar. 7, 16.3; Dec. 17, 16.4.

(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; 1020, p. 134; 1027, p. 178). State claim 10844. Mary Barney. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 7, 32.5; Dec. 17, 31.6.

(D-8-2)7ddd 1 (*845, p. 664; 886, p. 891; 910, p. 151; 940, p. 126; 948, p. 119; *990, p. 129; 1020, p. 134; 1027, p. 178). State claim 10762. A. H. Beers. Water levels, in feet above land-surface datum, 1946: Mar. 7, 20.5; Dec. 17, 19.6.

(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; 1020, p. 134; 1027, p. 178). State claim 13201. Utah-Idaho Sugar Co. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 7, 25.2; Dec. 17, 25.8.

(D-8-2)29add 1 (*910, p. 152; 940, p. 126; 948, p. 119; *990, p. 129; 1020, p. 134; 1027, p. 178). State application 11860. Reed Reynolds. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 7, 11.5; Dec. 17, 12.4.

(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; 1020, p. 134; 1027, p. 178). State application 11830. Springville Canning Co. Flowing prior to measurements. Water levels, in feet above land-surface datum, 1946: Mar. 7, 25.0; Dec. 17, 26.2.

(D-8-3)15ccb 1 (*845, p. 665; *886, p. 892; 910, p. 152; 940, p. 126; 948, p. 119; *990, p. 129; 1020, p. 134; 1027, p. 178). E. Whitcomb. Water levels, in feet below land-surface datum, 1946: Mar. 7, 9.82; Dec. 17, 7.72.

(D-9-1)1cbe 2 (*910, p. 152; 940, p. 126; 948, p. 119; 990, p. 129; 1020, p. 134; 1027, p. 178). State claim 8344. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 7, 2.00; Dec. 17, 1.57.

(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; 1020, p. 134; 1027, p. 178). State claim 1139. Payson City Corporation.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	18.1	Jan. 12	18.0	Jan. 20	18.0	Jan. 28	17.9
6	17.9	13	17.8	21	17.8	29	17.9
7	17.8	15	17.8	22	17.8	31	17.8
8	17.9	16	17.9	23	17.9	Feb. 1	16.7
9	18.0	17	17.9	25	17.9	Mar. 7	16.8
10	18.0	18	18.0	26	17.8	Dec. 17	18.4
11	18.0	19	18.0	27	17.7		

a Recorder removed.

(D-9-2)11laaa 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; 1020, p. 135; 1027, p. 179). State claim 3364. Salt Lake & Utah Railroad Corporation. Water levels, in feet above land-surface datum, 1946: Mar. 7, 41.5; Dec. 17, 42.3. Flowing prior to measurement.

(D-9-2)18bcd 1 (*940, p. 127; 948, p. 120; *990, p. 130; 1020, p. 135; 1027, p. 179). State claim 8357. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 7, 3.72; Dec. 17, 4.14.

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; 1020, p. 135; 1027, p. 179). Lee Bros. Measurements by Provo River Water Commissioner, except on Mar. 30 and Dec. 12.

Water level, in feet below land-surface datum, 1946

Jan. 13	28.0	Apr. 16	25.66	July 16	26.6	Oct. 30	26.5
Feb. 15	28.3	May 15	28.5	Aug. 8	27.6	Nov. 22	28.0
Mar. 17	25.4	June 18	26.5	Sept. 17	27.8	Dec. 12	27.69
30	25.55						

(D-2-5)31ada 1 (*817, p. 444; *840, p. 596; 845, p. 666; 886, p. 895; 910, p. 154; 940, p. 128; 948, p. 121; *990, p. 130; 1020, p. 135; 1027, p. 179). State claim 11234. Harry Morris. Measurements reported in Water-Supply Papers 990 and 1020 should be decreased 0.2 foot to conform with prior record. Measurements by Provo River Water Commissioner, except on Mar. 30 and Dec. 12.

Water level, in feet below land-surface datum, 1946

Jan. 13	10.3	Apr. 16	5.14	July 10	5.9	Oct. 30	7.3
Feb. 15	8.96	May 15	5.7	Aug. 19	9.32	Nov. 22	9.34
Mar. 17	4.46	June	3.8	Sept. 17	2.6	Dec. 12	8.51
30	4.20						

(D-3-4)35bbc 1 (*845, p. 666; 886, p. 895; 910, p. 154; 940, p. 128; 948, p. 121; *990, p. 131; 1020, p. 135; 1027, p. 180). State claims 8379 and 11260. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 30, 2.63; Dec. 12, 3.04.

(D-3-5)29cac 1 (*817, p. 445; 840, p. 596; 845, p. 667; *886, p. 895; 910, p. 154; 940, p. 128; 948, p. 121; *990, p. 131; 1020, p. 135; 1027, p. 180). Miles Clyde. Water levels, in feet below land-surface datum, 1946: Mar. 30, 8.98; Dec. 12, 6.33.

(D-4-4)12aaa 1 (*910, p. 154; 940, p. 128; 948, p. 121; *990, p. 131; 1020, p. 136; 1027, p. 180). Hartley Carlisle.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.97	46.55	49.85	49.88	47.27	26.28	21.22	.....	27.38	.....	36.64	42.88
2	42.19	46.68	49.68	49.95	47.27	25.97	21.30	.....	27.73	33.96	36.77	43.05
3	42.35	46.77	49.43	50.01	47.18	25.66	21.35	.....	28.29	34.05	37.07	43.21
4	42.52	46.93	49.02	50.05	47.32	25.82	21.27	.....	28.29	34.05	37.41	43.39

(D-4-4)12aaa 1--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	42.68	47.08	48.80	50.09	47.35	25.80	21.67	.....	28.57	34.12	37.46	43.52
6	42.86	47.22	48.67	50.12	47.20	25.27	21.68	.....	28.68	33.85	37.52	43.64
7	43.02	47.47	47.80	50.12	46.35	23.40	21.08	.....	28.92	33.61	37.78	43.73
8	43.18	47.68	48.01	50.11	44.65	22.23	21.09	.....	29.07	33.65	37.75	43.92
9	43.35	47.90	48.23	50.03	43.47	22.33	21.23	.....	.....	33.80	37.78	44.12
10	43.46	48.13	48.40	49.88	42.66	22.67	21.49	.....	.....	33.74	38.02	.....
11	43.57	48.37	48.27	49.71	42.05	22.37	21.78	.....	29.55	33.63	38.43	44.28
12	43.73	48.58	48.12	49.62	41.47	21.80	21.98	.....	29.89	33.66	38.62	44.42
13	43.80	48.83	48.13	49.64	40.70	21.38	21.18	.....	30.21	33.97	38.88	44.54
14	44.00	48.93	48.25	40.22	40.22	21.12	20.21	.....	30.53	34.22	39.13	44.65
15	44.08	49.05	48.37	49.50	39.55	21.03	21.15	25.00	30.75	34.50	39.35	44.78
16	44.23	49.13	48.50	49.50	38.85	19.71	21.60	24.78	30.82	34.00	39.62	44.90
17	44.38	49.25	48.65	49.50	.....	19.61	21.61	24.58	30.87	34.26	39.88	45.03
18	44.49	49.37	48.82	49.50	.....	19.68	20.76	24.93	30.80	34.78	40.10	45.17
19	44.62	49.48	48.97	49.41	.....	19.77	20.60	24.99	30.96	35.15	40.34	45.35
20	44.75	49.59	49.07	49.21	.....	19.77	20.60	.....	31.12	35.46	40.56	45.46
21	.....	49.72	.....	.....	.....	20.02	20.70	26.03	31.34	35.70	40.87	45.48
22	.....	49.82	49.26	.....	.....	20.50	20.58	26.37	31.67	35.63	41.08	.....
23	.....	49.91	49.35	.....	32.85	20.95	20.99	26.76	32.02	35.65	41.28	.....
24	45.39	49.96	49.37	48.68	32.62	21.39	21.16	27.13	32.33	35.77	41.44	.....
25	45.50	49.98	49.33	48.00	31.55	21.25	21.27	27.40	32.55	35.90	41.65	.....
26	45.67	50.00	49.34	47.57	.....	20.88	21.00	27.48	32.63	36.12	41.83	46.13
27	45.82	50.00	49.37	47.39	.....	21.08	20.25	27.50	32.87	36.37	42.01	46.23
28	46.00	50.00	49.45	47.28	.....	21.00	20.58	26.93	33.10	36.55	42.27	46.33
29	46.20	.....	49.56	47.27	27.30	21.13	21.06	26.97	.....	36.31	42.48	46.44
30	46.25	.....	49.67	47.35	27.18	21.06	21.39	26.65	.....	36.42	42.66	46.57
31	46.38	.....	49.78	.....	26.55	.....	21.78	26.93	.....	36.57	.....	46.67

a Discrepancy of 1 foot between chart and tape measurement, not corrected.

(D-4-4)14abb 1 (*840, p. 596; 845, p. 667; 886, p. 895; 910, p. 155; 940, p. 129; 948, p. 122; 990, p. 132; 1020, p. 136; 1027, p. 180).
Charlotte Brown.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.36	.....	18.32	17.67	15.38	5.03	.....	11.89	14.30	15.74	16.02	17.13
2	17.40	.....	18.28	17.68	15.43	4.83	.....	12.18	14.27	15.75	16.03	17.17
3	17.42	.....	17.93	17.72	15.05	5.49	.....	12.05	14.17	15.88	16.08	17.20
4	17.48	.....	17.88	17.76	14.27	5.96	7.27	12.23	12.85	15.60	16.13	.....
5	17.53	.....	17.83	17.80	14.28	6.24	7.56	11.75	13.83	15.58	16.15	.....
6	17.51	18.40	17.76	17.86	13.58	5.93	7.26	12.05	14.35	14.56	16.20	.....
7	17.57	18.41	17.79	17.91	13.62	5.65	8.08	12.51	14.32	15.03	16.26	.....
8	17.61	18.46	17.83	17.92	13.38	5.35	8.65	12.53	14.39	15.67	16.30	.....
9	17.65	18.48	17.89	17.93	13.65	5.22	8.65	12.33	14.58	15.88	16.34	.....
10	(a)	18.54	17.94	17.95	13.74	3.30	8.99	12.55	14.80	16.02	16.41	.....
11	.....	18.56	17.89	17.96	12.93	2.98	9.30	12.87	14.99	16.08	16.48	17.53
12	.....	18.58	17.90	17.97	12.20	3.44	9.73	13.13	14.98	16.14	16.56	.....
13	.....	18.58	17.93	17.98	11.42	3.78	10.08	13.08	15.03	16.16	16.62	17.56
14	.....	.....	17.90	18.01	11.30	4.17	9.92	13.08	14.63	16.17	16.68	17.57
15	(a)	.....	17.88	18.02	11.57	4.20	9.89	12.55	14.94	16.17	16.75	17.58
16	18.00	.....	17.88	18.02	11.72	4.30	9.42	12.75	15.15	16.15	16.80	17.59
17	(a)	.....	17.79	17.99	10.86	3.67	9.72	13.15	15.28	16.20	16.85	17.61
18	.....	18.72	17.74	17.98	10.57	3.50	10.23	13.17	15.10	16.25	16.90	17.62
19	.....	.....	17.70	17.93	10.37	3.90	10.15	12.92	14.97	16.27	16.96	.....
20	.....	.....	17.66	17.88	10.18	3.12	10.05	13.13	15.08	16.30	16.97	.....
21	.....	.....	17.68	17.83	9.18	3.24	10.34	13.44	15.31	16.32	17.03	.....
22	.....	.....	17.69	17.74	7.77	3.75	10.83	13.66	15.41	16.30	17.07	.....
23	(a)	.....	17.67	17.27	7.53	3.41	11.27	13.72	15.42	16.29	17.10	.....
24	18.10	.....	17.69	16.20	7.28	3.41	11.37	13.71	15.40	16.24	17.00	.....
25	18.13	.....	17.67	15.84	7.67	3.41	11.38	12.83	15.37	16.23	17.03	.....
26	18.14	.....	17.78	15.75	7.83	5.13	10.68	13.28	15.03	16.23	17.03	17.94

a Float line frozen to boards.

(D-4-4)14abb 1--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
27	18.14	.....	17.70	15.80	7.60	5.63	10.99	13.69	15.19	16.27	17.05	17.97
28	18.14	18.38	17.64	15.75	7.20	....	11.53	13.69	15.36	16.13	17.06	18.00
29	18.18		17.64	15.63	7.06	....	11.38	13.67	15.48	16.04	17.08	18.07
30	18.20		17.64	15.44	6.98	....	11.30	13.77	15.63	16.06	17.10	18.12
31	.....		17.64		6.76		11.56	14.03		16.04		18.12

(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; 1020, p. 137; 1027, p. 181). State claim 8380. Town of Charleston.

Water level at noon, in feet with reference to land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-1.75	-2.93	-3.50	-2.96	+2.17	+7.52	....	+6.22	+3.77	+2.30	+2.95	+2.32
2	-1.80	-2.93	-3.43	-2.95	+2.27	+7.68	....	+6.14	+3.70	+2.28	+2.87	+2.23
3	-1.82	-2.95	-3.35	-2.94	+2.39	+7.80	....	+6.05	+3.63	+2.25	+2.79	+2.16
4	-1.88	-3.00	-3.37	-2.88	+2.47	+7.89	....	+5.95	+3.56	+2.22	+2.73	+2.05
5	-1.88	-3.14	-3.38	-2.85	+2.60	+8.10	....	+5.83	+3.47	+2.23	+2.72	+2.02
6	-2.01	-3.13	-3.36	-2.83	+2.75	+8.27	....	+5.73	+3.42	+2.16	+2.68	+1.97
7	-2.01	-3.12	-3.50	-2.78	+3.02	+8.41	....	+5.66	+3.35	+2.17	+2.67	+1.93
8	-2.02	-3.34	-3.48	-2.76	+3.22	+8.42	....	+5.55	+3.26	+2.21	+2.67	+1.82
9	-2.10	-3.22	-3.49	-2.73	+3.65	(a)	....	+5.43	+3.18	+2.25	+2.58	+1.67
10	-2.10	-3.24	-3.44	-2.74	+3.94	....	+8.32	+5.33	+3.12	+2.29	+2.57	+1.58
11	-2.13	-3.28	-3.35	-2.70	+4.07	....	+8.25	+5.23	+3.05	+2.35	+2.52	+1.53
12	-2.24	-3.37	-3.33	-2.63	+4.22	....	+8.14	+5.17	+3.49	+2.45	+2.47	+1.41
13	-2.23	-3.43	-3.18	-2.60	+4.39	....	+8.04	+5.12	+3.41	+2.47	+2.47	+1.28
14	-2.25	-3.47	-3.10	-2.60	+4.55	....	+7.91	+5.02	+3.35	+2.56	+2.50	+1.18
15	-2.31	-3.44	-3.10	-2.59	+4.68	....	+7.81	+4.95	+3.32	+2.61	+2.43	+1.10
16	-2.35	-3.47	-3.11	-2.53	+4.82	....	+7.69	+4.88	+3.26	+2.61	+2.40	+0.95
17	-2.40	-3.55	-3.09	-2.40	+4.95	....	+7.58	+4.82	+3.10	+2.58	+2.40	+0.80
18	-2.38	-3.58	-3.07	-2.21	+5.16	....	+7.45	+4.75	+3.02	+2.58	+2.41	+0.72
19	-2.46	-3.59	-3.03	-1.94	+5.47	....	+7.35	+4.70	+2.93	+2.60	+2.43	+0.62
20	-2.49	-3.60	-2.98	-1.65	+5.33	....	+7.29	+4.63	+2.90	+2.63	+2.47	+0.48
21	-2.58	-3.64	-2.99	-1.28	+5.53	....	+7.21	+4.55	+2.87	+2.64	+2.40	+0.42
22	-2.59	-3.70	-3.00	-.95	+5.83	....	+7.12	+4.48	+2.75	+2.65	+2.40	+0.30
23	-2.65	-3.70	-2.98	-.63	+6.02	....	+7.02	+4.40	+2.67	+2.64	+2.45	+0.17
24	-2.62	-3.63	-2.97	-.31	+6.18	....	+6.87	+4.31	+2.64	+2.62	+2.51	+0.10
25	-2.63	-3.60	-3.04	+0.08	+6.35	....	+6.78	+4.23	+2.60	+2.66	+2.46	+0.02
26	-2.75	-3.58	-3.02	+0.60	+6.50	....	+6.66	+4.18	+2.56	+2.72	+2.49	-.03
27	-2.74	-3.42	-2.97	+1.10	+6.66	....	+6.55	+4.17	+2.48	+2.70	+2.49	-.10
28	-2.73	-3.44	-2.92	+1.44	+6.84	....	+6.46	+4.10	+2.40	+2.73	+2.52	-.28
29	-2.78		-2.97	+1.67	+7.01	....	+6.41	+4.01	+2.35	+2.88	+2.47	-.32
30	-2.90		-2.96	+1.99	+7.23	....	+6.37	+3.93	+2.32	+2.92	+2.37	-.46
31	-2.91		-2.97		+7.35		+6.30	+3.85		+2.90		-.53

a Water flowing over top of casing from June 9 to July 9.

Washington County - Escalante Valley 18/

(C-37-17)12cbc 1 (*940, p. 130; 948, p. 123; *990, p. 133; 1020, p. 137; 1027, p. 182). Charles Sides.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
May 1	a39.30	July 24	34.06	Dec. 13	22.20
June 6	a40.20	Oct. 8	33.96		

a Pumping about 800 gallons a minute.

(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; 1020, p. 137; 1027, p. 182). State claim 8384. Drought Relief Administration. Measurements discontinued after Dec. 11, 1945.

18/ For other wells in this valley see pages 58-60, 93-99, and 101-102.

(C-37-17)14adc 1 (*940, p. 130; 948, p. 123; 990, p. 133; 1020, p. 137; 1027, p. 182). J. C. Bosshardt.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
May 1	40.64	July 24	43.91	Dec. 12	37.35
June 6	45.02	Oct. 8	43.22		

(C-37-17)15bab 1 (*940, p. 130; 948, p. 123; *990, p. 133; 1020, p. 138; 1027, p. 182). Everest Hackett. Well destroyed, measurements discontinued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 17	9.96	June 6	13.31	Oct. 8	12.09
May 1	10.54	July 24	11.17	Dec. 13	7.35

(C-37-17)16cbb 1 (*940, p. 130; 948, p. 123; *990, p. 133; 1020, p. 138; 1027, p. 183). State application 14146. J. W. Holt.

Water level, in feet below land-surface datum, 1946

May 1	15.09	July 24	16.53	Dec. 13	17.02
June 6	15.98	Oct. 8	16.74		

Washington County - Virgin River Valley

(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; 1020, p. 138; 1027, p. 183). Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: Mar. 19, 18.25; Dec. 15, 18.22.

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; 1020, p. 138; 1027, p. 183). State claim 7164. S. F. Tanner. Flowing prior to measurement. Water level, in feet above land-surface datum, 1946: Dec. 16, 9.5.

(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; 1020, p. 138; 1027, p. 183). V. A. Lee. Water levels, in feet below land-surface datum, 1946: May 9, 12.50; Dec. 17, 13.27.

(D-29-4)15cbd 1 (*817, p. 477; 840, p. 613; 845, p. 668; 886, p. 897; 910, p. 146; 940, p. 131; 948, p. 124; *990, p. 134; 1020, p. 138; 1027, p. 183). W. P. Coleman. Water levels, in feet below land-surface datum, 1946: May 9, 1.90; Dec. 17, 2.00.

Weber County - East Shore area

(B-5-1)5daa 1 (*1027, p. 183). Ogden City.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 20	76.49	July 22	76.79	Sept. 11	76.95	Dec. 23	75.42
July 9	76.58	Aug. 21	76.79	Oct. 15	75.84		

(B-5-2)1ddd 1(*1027, p. 183). Ogden City Corporation. Water levels, in feet below land-surface datum, 1946: June 13, 153.00; June 16, 181.10, nearby well pumping.

(B-5-2)1ddd 2 (*1027, p. 184). State application 16483. Ogden City Corporation.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 26	a158.74	June 13	b149.52	June 18	c164.39	June 21	152.29
May 9	156.00	14	b190.30	19	163.96	25	150.08
20	150.19	15	b192.10	20	153.92	27	149.98
June 11	149.52.	16	c164.00				

- a Adjacent well pumping.
 b Pumping about 1,300 gallons a minute.
 c Pumping intermittently.

(B-5-2)3bac 1 (*1027, p. 184). State claim 9955. Federal Land Bank of Berkeley. Measurements discontinued.

Water level, in feet below land-surface datum, 1946

Jan. 11	1.21	June 14	0.66	June 16	1.21	Oct. 15	2.26
Feb. 8	1.23	15	.90	19	1.80	Dec. 23	2.27
June 13	.54						

(B-5-2)3ccb 1 (*1027, p. 184). State claim 711. W. C. Schultz. Water levels, in feet above land-surface datum, 1946: Jan. 11, 2.62; Oct. 8, 1.40, flowing prior to measurement; Dec. 23, 3.14 flowing prior to measurement. Measurements discontinued.

(B-5-2)3dcc 1 (*1027, p. 185). State claim 15953. R. L. Saunders. Flowing prior to measurement. Water levels, in feet above land-surface datum, 1946: Jan. 11, 5.9; Feb. 8, 5.8; Oct. 15, 5.8; Dec. 23, 5.1. Measurements discontinued.

(B-5-2)3dcc 2 (*1027, p. 185). State claim 15952. R. L. Saunders.

Water level, in feet above land-surface datum, 1946

Jan. 11	8.0	June 15	7.4	June 18	7.4	Oct. 15	7.9
Feb. 8	7.7	16	7.6	19	7.4	Dec. 23	7.4
June 13	7.4						

(B-5-2)3ddc 1 (*1027, p. 185). State claim 15955. R. L. Saunders. Measurements discontinued after July 2, 1945.

(B-5-2)4aaa 2 (*1027, p. 185). State claim 5523. Florian Prevedel.

Water level at noon, in feet above land-surface datum, 1946
 (From recorder charts)

Day	Jan.	Mar.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.14	....	2.02	....	3.87
2	a3.11	2.13	....	2.01	....	3.86
3	2.09	1.98	2.02	....	3.86
4	2.08	....	2.02	3.41	3.86
5	2.09	....	2.04	3.47	3.90
6	2.07	....	2.00	3.49	3.92
7	2.09	....	2.03	3.54	3.98
8	2.08	....	2.09	3.59	3.97
9	2.62	2.11	....	2.16	3.57	....
10	2.11	....	2.14	3.58	....
11	a3.58	....	a3.52	....	2.10	1.97	2.15	3.56	....
12	a3.20	....	2.08	1.97	2.19	3.57	....
13	a3.18	....	....	1.91	2.19	3.59	....
14	2.16	3.65	....

a Tape measurement; flowing prior to measurement.

(B-5-2)4aaa 2--Continued.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Mar.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
15	a2.99	2.41	....	....	2.40	3.66	....
16	a2.65	2.42	....	....	2.47	3.66	....
17	a2.80	2.43	....	....	2.55	3.66	....
18	a2.30	2.36	....	1.90	2.62	3.68	....
19	2.34	....	....	....	3.73	....
20	2.27	....	....	....	3.78	....
21	2.25	....	....	2.81	3.79	....
22	2.20	1.98	....	2.87	....	....
23	2.18	2.00	1.94	2.91	....	....
24	2.09	2.00	1.94	2.95	....	....
25	a3.44	a3.00	2.10	2.01	1.94	3.01	....	....
26	a3.37	....	2.08	2.01	1.93	3.08	3.78	....
27	a3.50	....	2.09	2.00	1.94	3.11	3.82	....
28	a3.20	....	2.08	2.03	1.91	3.20	3.82	....
29	a3.20	....	2.09	....	1.94	3.30	3.86	....
30	2.13	....	1.94	3.31	3.85	....
31	2.11	....	....	....	....	....

a Tape measurement; flowing prior to measurement.

(B-5-2)4add 1 (*1027, p. 185). State claim 715. James R. Rawson. Flowing prior to measurements.

Water level, in feet with reference to land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	+1.80	May 4	+1.70	June 18	+1.19	July 22	-0.52
Feb. 8	-1.91	8	-1.70	19	-.73	Aug. 1	+1.10
Mar. 25	-1.73	June 7	-2.03	20	-.63	12	+0.02
26	-1.66	10	-1.95	21	-.76	Sept. 11	-.11
27	-1.57	13	-1.96	25	-1.22	Oct. 15	+0.52
28	-1.38	14	-1.88	July 2	-1.21	Nov. 13	+1.79
29	-1.35	15	-1.68	9	-.66	Dec. 2	+1.40
Apr. 19	-1.93	16	-1.32	15	+0.48	23	+2.10
25	-1.85						

(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; 1020, p. 138; 1027, p. 186). State application 11889. Samuel Peterson. Water level, in feet above land-surface datum, 1946: Dec. 30, 33.9.

(B-5-2)4ddc 1 (*1027, p. 186). State claim 18248. Dominic Genetti. Water levels, in feet above land-surface datum, 1946: Jan. 11, 1.55; Feb. 8, 1.27; Oct. 15, 0.63; Dec. 23, 2.34. Measurements discontinued.

(B-5-2)6bdd 1 (*1027, p. 186). J. Virgil Stoddard. Water levels, in feet above land-surface datum, 1946: Apr. 5, 19.2; Dec. 30, 19.2.

(B-5-2)9aaa 1 (*1027, p. 186). State application 14996. Lawrence Mayberry. Flowing prior to measurements.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	18.4	June 15	18.1	June 21	18.4	Aug. 12	17.0
Feb. 8	18.7	16	18.2	25	17.7	Oct. 15	17.4
June 10	18.5	18	18.2	July 2	17.7	Nov. 13	18.4
13	18.4	19	18.4	Aug. 1	17.1	Dec. 23	19.4
14	18.4	20	18.0				

(B-5-2)9baa 1 (*1027, p. 186). State claim 15032. Kanesville
L. D. S. Ward. Flowing prior to measurements.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	2.26	June 10	3.50	June 20	2.67	Aug. 1	1.80
Feb. 8	3.56	13	3.47	21	2.59	12	1.88
Mar. 25	3.42	14	3.47	25	2.84	Oct. 15	2.20
26	3.22	15	3.18	July 2	2.71	Nov. 13	2.52
27	3.33	16	2.97	15	1.94	Dec. 2	2.50
28	3.34	18	2.83	22	1.71	23	2.78
29	3.17	19	2.69				

(B-5-2)10abb 1 (*1027, p. 187). State claim 17843. John Potter.
Flowing prior to measurements. Water levels, in feet above land-surface
datum, 1946: Jan. 11, 7.6; Feb. 8, 7.6; Oct. 15, 6.6; Dec. 23, 7.3.
Measurements discontinued.

(B-5-3)13ddc 1 (*840, p. 534; 845, p. 671; 886, p. 899; 910, p. 159;
940, p. 131; 948, p. 124; *1027, p. 187). State claim 1298. J. D.
Hooper. Water levels, in feet above land-surface datum, 1946: Apr. 5,
32.4; Dec. 30, 32.5.

(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; 1020, p. 137; 1027,
p. 187). State application 11790. T. W. Read. Water levels, in feet
above land-surface datum, 1946: Apr. 5, 44.0; Dec. 30, 43.9.

(B-6-1)4ada 1 (*1027, p. 187). State claim 17890. A. M. Garner.
Flowing prior to measurements. Water levels, in feet above land-surface
datum, 1946: Mar. 28, 13.4; Dec. 30, 12.8.

(B-6-1)4bdd 2 (*1027, p. 187). State claim 18427. E. W. Sandstrom.
Water level, in feet above land-surface datum, 1946: Mar. 28, 9.2.
Measurements discontinued.

(B-6-1)6caa 1 (*990, p. 135; 1020, p. 139; 1027, p. 187). State
claim 595. Martin Harris. Water level, in feet above land-surface datum,
1946: Dec. 30, 51.3.

(B-6-1)7cca (*1027, p. 187). Well plugged Sept. 1, 1946. Measure-
ments discontinued.

(B-6-1)8acb 1 (*845, p. 672; 886, p. 899; 910, p. 159; 940, p. 131;
948, p. 124; 990, p. 136; 1020, p. 139; 1027, p. 188). L. W. Winkler and
Carl Nielson. Water levels, in feet below land-surface datum, 1946:
Mar. 28, 4.68; Dec. 30, 4.13.

(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; 1020, p. 139; 1027, p. 188).
State claim 5438. J. T. Bybee. Water levels, in feet above land-surface
datum, 1946: Mar. 28, 10.3; Dec. 30, 9.9.

(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; 1020, p. 139; 1027, p. 188). State claim 684. Western Irrigation Co. Measurements discontinued after Dec. 14, 1945.

(B-6-1)21add 1 (*845, p. 672; 886, p. 904; 910, p. 159; 940, p. 131; 948, p. 124; *990, p. 136; 1020, p. 139; 1027, p. 188). State claim 8389. Drought Relief Administration. Water levels, in feet below land-surface datum, 1946: June 25, 46.72; July 22, 48.66; Oct. 15, 48.09; Dec. 23, 47.35.

(B-6-1)28dab (*1027, p. 189). City of Ogden. No measurements made in 1946.

(B-6-1)28dba 1 (*990, p. 138; 1020, p. 140; 1027, p. 189). City of Ogden.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 28	102.00	July 22	102.98	Dec. 23	102.04
June 25	101.25	Oct. 15	102.58		

(B-6-1)29abb 1 (*990, p. 138; 1020, p. 140; 1027, p. 190). State application 13003. Becker Products Co.

Water level at noon, in feet above land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.3	16.3	16.2	16.0	16.4	17.6	17.1	14.6	13.8	16.2	17.2	17.7
2	16.2	16.3	16.2	16.2	17.0	17.8	15.9	14.8	14.1	16.1	17.1	17.8
3	16.4	....	16.3	16.1	17.2	17.7	....	14.1	14.4	16.2	17.1	17.8
4	16.4	....	16.3	16.1	17.2	17.9	....	13.5	14.6	16.2	17.2	17.8
5	16.5	....	16.2	16.2	....	17.9	16.5	13.2	14.7	16.2	17.2	17.9
6	16.3	16.6	16.3	16.2	....	17.8	16.2	....	14.8	16.1	17.2	17.9
7	16.2	16.4	16.1	16.2	17.2	17.8	16.2	13.2	14.9	16.2	17.3	17.9
8	16.2	17.8	16.1	16.2	16.8	17.8	16.3	13.5	15.1	16.1	17.2	18.0
9	16.2	16.5	16.1	16.2	16.8	17.7	16.2	13.8	15.2	16.1	17.2	17.9
10	17.0	16.9	16.2	16.2	16.8	17.8	15.8	13.9	15.3	16.1	17.2	17.9
11	16.3	16.3	....	16.2	17.0	....	15.3	14.1	15.4	16.1	17.3	17.9
12	16.3	....	16.2	16.4	17.4	17.7	14.7	14.2	15.5	16.2	17.3	18.0
13	16.5	17.0	16.3	16.4	17.3	17.8	14.3	14.3	15.5	16.2	17.3	18.0
14	16.6	16.8	16.3	16.2	....	17.8	14.0	14.4	15.8	....	17.4	17.8
15	16.3	16.2	16.2	16.2	17.2	17.8	13.9	14.6	15.9	....	17.4	17.8
16	16.7	16.2	16.1	16.3	17.7	17.8	13.6	14.8	16.0	....	17.3	....
17	16.7	16.1	16.1	16.5	17.6	17.7	13.4	14.8	....	16.3	17.3	....
18	16.6	16.2	16.2	16.6	17.5	17.5	13.2	14.9	16.0	16.3	17.5	17.9
19	16.5	16.2	16.2	16.6	17.4	17.7	13.0	14.4	16.1	16.2	17.6	17.8
20	16.4	16.2	16.4	16.4	17.5	17.7	12.9	14.4	16.1	16.3	17.7	17.7
21	....	16.2	16.4	16.4	17.7	17.8	13.6	14.5	16.2	16.8	17.5	17.7
22	16.4	16.1	16.3	16.4	17.7	17.8	13.9	14.7	16.2	16.9	17.5	17.7
23	16.3	16.1	16.2	16.5	17.0	17.8	13.4	14.7	16.2	16.8	17.5	17.8
24	16.3	16.2	16.2	16.5	17.2	17.6	13.0	14.8	16.0	16.9	17.6	17.6
25	16.3	16.2	16.2	17.0	....	17.7	13.0	14.9	16.0	17.0	17.5	17.6
26	16.8	16.3	16.2	16.8	....	17.7	13.2	15.2	16.0	17.0	17.5	17.7
27	16.7	16.3	16.3	16.8	....	17.8	13.7	15.1	16.0	17.1	17.6	17.8
28	17.0	16.3	16.5	17.0	17.0	17.7	13.9	15.2	15.9	17.1	17.6	17.8
29	....	....	16.2	17.2	17.0	17.8	14.2	15.4	16.0	17.1	17.7	17.6
30	16.4	....	16.1	16.5	17.3	16.5	....	15.4	....	17.1	17.7	17.8
31	16.5	....	16.1	....	17.7	....	14.5	14.2	....	17.1	....	....

(B-6-1)29ccc (*990, p. 138; 1020, p. 141; 1027, p. 190). Ogden Union Railroad & Depot Co.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 9	16.3	July 4	15.6	Sept. 1	12.0	Sept. 24	14.5
June 11	17.6	5	15.5	2	12.5	25	14.6
12	17.6	6	15.0	3	12.9	26	14.7
13	17.7	7	15.2	4	13.0	27	14.7
14	17.7	8	15.3	5	13.1	28	14.6
15	16.9	9	15.2	6	13.4	29	14.6
16	16.8	10	14.8	7	13.5	30	14.7
17	16.7	11	14.3	8	13.5	Oct. 1	14.7
18	16.5	12	14.3	9	13.6	2	14.6
19	16.7	13	13.7	10	13.7	3	14.6
20	16.7	14	13.3	11	13.9	4	14.7
21	16.8	15	12.7	12	14.1	5	14.7
22	16.8	16	12.4	13	14.1	6	14.6
23	16.8	17	12.2	14	14.1	7	14.6
24	16.6	18	12.0	15	14.2	8	14.7
25	16.8	Aug. 22	13.3	16	14.2	9	14.7
26	16.9	23	13.6	17	14.2	10	14.7
27	16.8	24	13.7	18	14.2	11	14.7
28	16.8	25	13.5	19	14.2	12	14.9
29	15.8	28	13.7	20	14.2	13	14.8
30	15.3	29	13.7	21	14.5	14	15.0
July 1	15.8	30	13.6	22	14.3	Dec. 15	15.2
2	15.8	31	12.7	23	14.3	30	16.5
3	15.8						

(B-6-1)30ccb 2 (*840, p. 535; 845, p. 673; 886, p. 900; 910, p. 160; 940, p. 132; 948, p. 125; *990, p. 139; 1020, p. 142; 1027, p. 191). American Packing & Provision Co. Water levels, in feet above land-surface datum, 1946: Mar. 26, 7.6; Aug. 1, 7.0; Dec. 30, 7.2.

(B-6-1)30cca 1 (*990, p. 139; 1020, p. 142; 1027, p. 191). State claim 1030. California Packing Corporation.

Water level, in feet below land-surface datum, 1946

Jan. 5	29.56	Apr. 19	29.78	July 9	29.89	Sept. 28	30.51
12	29.72	26	29.92	12	30.12	Oct. 5	30.33
19	29.68	May 3	29.89	19	30.57	12	30.32
26	29.61	10	29.44	22	30.63	19	30.32
Feb. 2	29.61	17	29.24	27	30.47	25	30.09
9	29.67	24	29.19	Aug. 1	30.43	Nov. 1	29.89
16	29.66	31	28.99	3	30.35	8	29.76
23	29.77	June 7	28.99	5	30.33	13	29.81
Mar. 2	29.75	10	29.09	10	30.39	16	29.82
9	29.79	11	29.07	17	30.25	23	29.67
16	29.79	14	29.02	24	30.14	29	29.72
22	29.72	21	29.36	31	30.17	Dec. 6	29.88
29	29.83	25	29.36	Sept. 7	30.37	13	29.58
Apr. 5	29.82	29	29.41	14	30.14	20	29.60
12	29.82	July 6	29.62	21	30.39	27	29.39

(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; 1020, p. 142; 1027, p. 191). State claim 2471. West Weber Cemetery. Water levels, in feet above land-surface datum, 1946: Mar. 27, 16.0; Sept. 4, 13.7; Dec. 30, 15.1.

(B-6-2)1ldad 1 (*840, p. 535; 845, p. 673; 886, p. 901; 910, p. 160; 940, p. 132; 948, p. 125; *990, p. 140; 1020, p. 142; 1027, p. 191). State claim 5613. Jerome Wheeler. Water levels, in feet above land-surface datum, 1946: Mar. 28, 21.5; Dec. 30, 23.6.

(B-6-2)12aab 3 (*1027, p. 191). State application 13028. Weber County School District. Water levels, in feet above land-surface datum, 1946: Mar. 28, 23.5; Dec. 30, 19.6.

(B-6-2)22dad 1 (*840, p. 535; 845, p. 673; 886, p. 901; *910, p. 161; 940, p. 132; 948, p. 125; *990, p. 140; 1020, p. 143; 1027, p. 191). F. M. Patterson. Water levels, in feet above land-surface datum, 1946: Mar. 27, 0.69; Dec. 9, 0.20.

(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; 1020, p. 143; 1027, p. 191). State claim 15111. G. E. Stratford. Water levels, in feet above land-surface datum, 1946: Mar. 26, 7.5; Dec. 30, 7.1.

(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; 1020, p. 143; 1027, p. 191). State claim 1196. Amalgamated Sugar Co. Water levels, in feet above land-surface datum, 1946: Mar. 26, 11.8; Dec. 30, 12.2.

(B-6-2)34abb 1 (*840, p. 536; 845, p. 674; 886, p. 902; 910, p. 161; 940, p. 132; 948, p. 125; *990, p. 141; 1020, p. 143; 1027, p. 192). State application 11869. Heber Swarner. Water level, in feet above land-surface datum, 1946: Mar. 26, 20.7.

(B-6-2)35bba 1 (*1027, p. 192). State claim 14531. Horace Holley. Measurements discontinued after Dec. 23.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	6.7	June 14	6.8	June 20	5.6	Oct. 15	5.2
Feb. 8	6.7	16	6.2	July 2	6.2	Nov. 13	6.6
Mar. 25	6.4	18	5.9	Aug. 27	4.70	Dec. 23	6.9
June 13	6.4	19	5.6				

(B-6-2)35bcc 1 (*1027, p. 192). State claim 5512. George Lowe.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 11	4.53	Apr. 13	6.85	May 3	5.93	June 14	5.50
Feb. 8	4.41	14	6.81	4	5.94	15	5.82
Mar. 25	6.02	19	5.56	5	5.95	18	7.36
26	6.12	20	5.56	6	5.95	19	7.50
27	6.04	21	5.56	7	5.95	20	7.45
28	6.33	22	5.56	8	5.78	21	7.16
29	6.60	23	5.55	9	5.76	25	6.71
30	6.39	24	5.55	10	5.71	July 2	6.88
31	6.30	25	5.55	11	5.69	15	7.72
Apr. 1	6.15	26	5.61	12	5.69	22	7.71
2	6.16	27	5.67	13	5.58	Aug. 1	8.15
4	6.52	28	5.68	20	5.66	12	8.11
5	6.28	29	5.68	23	5.58	Oct. 15	7.30
6	6.19	30	5.70	June 11	5.38	Nov. 13	5.55
7	6.32	31	5.81	13	5.38	Dec. 23	5.24
12	5.88	May 1	5.84				

(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; 1020, p. 143; 1027, p. 192). State claim 7505. Mrs. F. G. Kelly. Water levels, in feet above land-surface datum, 1946: Mar. 27, 28.6; Dec. 30, 27.8.

(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; 1020, p. 143; 1027, p. 192). State claim 14931. Joseph Folkman. Water levels, in feet above land-surface datum, 1946: Mar. 28, 15.5; Dec. 30, 15.2.

(B-7-1)33baa 5 (*1027, p. 192). State claim 16832. J. P. Spackman. Flowing prior to measurement. Water levels, in feet above land-surface datum, 1946: Mar. 28, 9.9; Dec. 30, 11.9.

(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; 1020, p. 143; 1027, p. 192). Annie Maw. Water level, in feet above land-surface datum, 1946: Mar. 27, 2.85.

(B-7-2)32aca 1 (*1027, p. 193). State application 15170. Dean Baker. Water levels, in feet above land-surface datum, 1946: Mar. 27, 35.4; Sept. 5, 35.4.

(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; 1020, p. 143; 1027, p. 193). State claim 15095. Marie Olsen. Water levels, in feet above land-surface datum, 1946: Mar. 27, 34.2; Dec. 30, 32.8.

(B-7-2)36edd 1 (*1027, p. 193). State application 14082. J. D. Brown. Water levels, in feet above land-surface datum, 1946: Mar. 28, 40.3; Sept. 6, 33.8; Dec. 30, 40.6.

(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; 1020, p. 143; 1027, p. 193). State claim 5489. Herman Van Braak. Water level, in feet above land-surface datum, 1946: Mar. 27, 10.6.

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(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; 1020, p. 143; 1027, p. 193). H. B. Stallings. Measurements discontinued after Nov. 3, 1945.

(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; 1020, p. 143; 1027, p. 193). Water levels published in Water-Supply Paper 1027, p. 193, are 6 feet too high. Bureau of Reclamation, U. S. Dept. of Interior.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.02	28.05	29.01	24.03	14.27	7.43	16.17	26.63	33.68	32.65	30.74	31.67
2	27.05	28.08	29.03	24.03	14.23	7.37	16.12	27.45	33.78	32.25	30.75	31.56
3	27.06	28.12	29.08	23.40	14.09	8.35	....	29.70	33.94	30.40	30.76	31.46
4	27.08	28.15	29.10	22.67	15.45	10.74	....	30.23	34.06	28.70	30.76	31.40
5	27.11	28.23	29.14	22.94	18.06	11.22	....	30.53	34.21	28.62	30.76	30.46
6	27.14	28.25	29.17	22.82	18.55	13.47	....	30.82	34.15	29.14	30.76	29.97
7	27.16	28.28	29.11	22.46	18.10	14.93	....	31.01	33.86	29.15	30.75	29.38
8	27.21	28.32	29.12	21.95	16.66	15.42	....	31.18	31.57	29.30	30.15	29.31
9	27.22	28.36	29.13	....	15.21	15.63	22.97	31.55	31.42	30.40	29.19	29.34
10	27.25	28.40	29.15	19.85	14.52	15.79	23.08	31.54	31.34	31.15	28.97	29.40
11	27.27	28.43	29.17	19.79	23.56	15.55	23.22	31.67	31.38	31.93	28.90	29.47
12	27.30	28.48	29.18	19.73	25.31	13.88	23.37	30.50	31.46	31.10	29.40	29.58
13	27.34	28.52	29.17	19.64	25.80	12.71	23.54	27.25	31.92	31.02	30.83	29.70
14	27.37	28.55	29.04	....	16.85	12.50	23.70	25.20	32.99	30.99	31.63	29.82
15	27.40	28.58	29.04	....	....	12.65	23.84	25.15	33.25	31.20	31.82	29.93
16	27.46	28.62	29.03	16.42	....	13.73	24.25	....	33.44	....	29.57	30.11
17	27.48	28.66	28.98	15.81	....	14.25	25.70	....	32.62	31.25	29.15	30.23
18	27.52	28.79	28.85	15.09	....	15.65	26.89	....	30.62	31.00	29.20	30.35
19	27.56	28.75	28.70	15.20	....	16.12	27.52	....	30.36	30.94	31.23	30.48
20	27.60	28.77	28.53	14.74	....	16.33	28.09	32.66	30.29	30.80	31.53	30.64

(A-6-1)lldc--Continued.

Water level at noon, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	27.64	28.81	28.37	14.20	14.31	16.90	28.37	32.75	30.26	31.35	31.66	30.75
22	27.68	28.85	28.17	13.90	14.29	19.00	28.58	31.53	30.32	32.91	31.69	30.89
23	27.70	28.90	26.16	13.60	14.22	20.50	28.79	31.90	30.97	31.50	31.69	31.06
24	27.73	28.94	23.78	12.89	13.95	20.92	28.96	29.01	32.71	31.27	31.63	31.21
25	27.77	28.98	23.56	.....	12.50	21.47	29.11	28.62	33.98	31.15	31.71	.....
26	27.81	29.02	24.88	.....	11.20	21.67	29.05	29.40	34.56	31.11	33.08	31.49
27	27.85	29.04	24.89	.....	10.93	21.84	24.50	31.33	34.56	31.11	33.24	31.52
28	27.89	29.07	24.76	.....	9.70	21.96	23.86	31.76	34.56	30.95	33.29	31.64
29	27.93		24.41	.....	9.02	19.80	23.68	32.34	34.56	30.86	33.14	31.76
30	27.97		24.13	14.25	7.84	16.75	23.56	33.23	34.56	30.83	31.89	31.93
31	28.01		23.00		7.59		23.90	33.49		30.81		32.07

(A-6-1)l2aa 1 (*817, p. 355; 840, p. 521; 845, p. 669; 886, p. 897; 910, p. 157; 940, p. 133; 948, p. 127; *990, p. 142; 1020, p. 144; 1027, p. 194). City of Ogden.

Water level at noon, in feet with reference to land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	-2.13	-3.05	+0.39	+7.95	+9.71	+6.07	+1.12	-3.51	-4.65	-2.17	-2.37
2	-1.97	-2.04	-2.93	+5.55	+8.10	+9.72	+6.11	+8.2	-3.59	-4.48	-2.14	-2.31
3	-1.80	-2.02	-2.68	+4.47	+8.25	+9.73	.....	+4.9	-3.63	-4.34	-2.14	-2.32
4	-1.86	-2.02	-2.65	+5.58	+8.30	+9.59	.....	+1.6	-3.60	-4.12	-2.09	-2.28
5	-1.81	-2.11	-2.61	.....	+8.10	+9.39	.....	-0.8	-3.62	-4.01	-2.04	-2.22
6	-1.76	-2.18	-2.46	.....	+7.91	+9.22	.....	-3.2	-3.68	-4.08	-1.98	-2.12
7	.....	-2.15	-2.41	.....	+7.84	+8.92	.....	-5.3	-3.63	-4.09	-1.95	-1.99
8	-1.65	-2.18	-2.37	.....	+7.92	+8.70	.....	-7.1	-3.42	-4.05	-1.89	-1.97
9	-1.71	-2.30	-2.21	.....	+8.16	+8.52	+4.48	-9.0	-3.38	-4.12	-1.83	-1.97
10	-1.63	-2.32	-2.05	+1.80	+8.42	+8.49	+4.30	-1.08	-3.38	-4.17	-1.77	-2.00
11	-1.66	.....	-1.85	+1.85	+7.91	+8.38	+4.15	-1.23	-3.42	-4.26	-1.71	-1.95
12	.....	.....	-1.66	+1.93	+7.26	+8.38	+4.08	-1.40	-3.48	-4.11	-1.73	-1.90
13	.....	-2.55	-1.36	+2.12	+7.01	+8.48	+3.92	-1.32	-3.56	-4.06	-1.80	-1.94
14	.....	-2.65	-1.09	+2.23	+7.60	+8.58	+3.67	-1.05	-3.71	-3.96	-1.88	-1.97
15	.....	-2.18	-.90	+2.50	+7.96	+8.55	+3.51	-.96	-3.81	-3.87	-1.98	-1.98
16	-1.89	-2.70	-.69	+2.98	+8.07	+8.41	+3.32	-1.10	-3.80	.....	-2.07	-1.98
17	-1.98	-2.78	-.58	+3.38	+8.09	+8.21	+3.09	-1.64	-3.84	-3.91	-1.90	-2.07
18	-1.97	-2.86	-.44	+3.89	+8.27	+7.98	+2.73	-2.07	-3.65	-3.76	-1.82	-2.11
19	-2.01	-2.89	-.29	+4.32	+8.25	+7.72	+2.50	-2.32	-3.61	-3.72	-1.84	-2.10
20	-2.02	-2.89	-.28	+4.69	+8.36	+7.55	+2.37	-2.53	-3.60	-3.62	-1.97	-2.13
21	-2.11	-2.96	-.29	+5.12	+8.46	+7.42	+2.05	-2.71	-3.60	-3.52	-2.11	-2.15
22	-2.12	-3.02	-.17	+5.35	+8.49	+7.20	+1.87	-2.75	-3.70	-3.53	-2.18	-2.16
23	-2.11	-3.09	+0.02	+5.70	+8.44	+6.85	+1.82	-2.76	-3.81	-3.42	-2.20	-2.23
24	-2.16	-3.11	+1.18	+6.16	+8.45	+6.54	+1.64	-2.50	-4.00	-3.21	-2.17	-2.28
25	-2.01	-3.09	+1.17	+6.61	+8.58	+6.32	+1.48	-2.40	-4.23	-2.91	-2.20	.....
26	-2.05	-3.14	+1.10	+7.19	+8.83	+6.19	+1.33	-2.41	-4.43	-2.73	-2.31	-2.29
27	-2.07	-3.13	+1.15	+7.71	+8.99	+6.03	+1.41	-2.63	-4.62	-2.70	-2.41	-2.27
28	-2.03	-3.01	+1.21	+7.90	+9.17	+5.97	+1.59	-2.87	-4.77	-2.62	-2.46	-2.29
29	-1.95		+1.22	+7.92	+9.32	+5.71	+1.62	-3.05	-4.87	-2.46	-2.47	-2.40
30	-2.03		+1.24	+7.96	+9.53	+5.90	+1.48	-3.22	-4.92	-2.42	-2.46	-2.40
31	-2.06		+1.28		+9.63		+1.41	-3.38		-2.36		-2.46

(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; 1020, p. 145; 1027, p. 194). Measurements discontinued after Nov. 3, 1945.

(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; 1020, p. 145; 1027, p. 194). Measurements discontinued after Nov. 3, 1945.

(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; 1020, p. 145; 1027, p. 194). Measurements discontinued after Nov. 3, 1945.

(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; 1020, p. 145; 1027, p. 194). State claim 14230. Golden Bingham. Measurements discontinued after Nov. 3, 1945.

(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; 1020, p. 145; 1027, p. 194). Measurements discontinued after Nov. 3, 1945.

(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; 1020, p. 145; 1027, p. 194). Measurements discontinued after Nov. 3, 1945.

(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; 1020, p. 145; 1027, p. 194). Measurements discontinued after Nov. 3, 1945.

WASHINGTON

By J. C. Manning and F. A. Watkins

SCOPE OF WATER-LEVEL PROGRAM

The program of periodic measurements of water levels in observation wells in the State of Washington was continued in 1946 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 the Snohomish County Public Utility District No. 1.

During the year, 1,496 measurements were made in 126 wells distributed unevenly over 17 of the 39 counties in the State. A water-stage recorder was operated on one well. Float gages were maintained throughout the year on 16 wells and during part of the year on one well. These gages were read by local observers.

Distribution of observation wells in the State of Washington, 1946

County	Number of observation wells			Number of records of water level in this report		Number of wells with water-stage recorders (R) or float gages (F)		
	Established during 1946	Discontinued in 1946	At year end	1945	1946	Through-out 1946	Part of 1946	At year end
Adams	0	0	2	0	3	0	0	0
Benton	0	0	1	0	2	0	0	0
Chelan	0	0	2	0	114	1F	0	1F
Franklin	0	0	5	0	7	0	0	0
Grant	0	0	13	0	114	1F	1F	1F
King	0	0	1	0	2	0	0	0
Kitsap	0	0	1	0	12	0	0	0
Lewis	0	0	1	0	4	0	0	0
Lincoln	0	0	1	0	2	0	0	0
Okanogan	0	0	6	0	153	3F	0	3F
Pierce	0	3	42	10	a 474	1R, 4F	0	1R, 4F
Snohomish	1	4	17	0	104	0	0	0
Spokane	0	0	23	0	485	7F	0	7F
Thurston	0	0	1	0	4	0	0	0
Walla Walla	0	0	1	0	11	0	0	0
Watcom	1	0	3	0	7	0	0	0
Whitman	0	0	6	0	17	0	0	0
The State	2	7	126	10	1,515	1R, 16F	1F 1R, 16F	

a In addition, 10 measurements were made in 2 water-table lakes.

Precipitation

The first of the two following tables shows seasonal distribution of precipitation at two representative stations in the State of Washington. Monthly precipitation for the water year ending September 30, 1946, is given in percentage of the 50-year annual average. The second table shows the precipitation, in inches, for 1946 and in percentage of the 50-year average at 13 representative stations in the State. These tables indicate that precipitation for the period was slightly above normal over most of the State. Snowfall was also above normal in the winter of 1945-46.

Monthly precipitation at two representative stations in the State of Washington in 1945-46, in percentage of the yearly average for the 50 years ending Sept. 30, 1940

Month	Olympia (for western Washington) 50-year average 1945-46		Waterville (for eastern Washington) 50-year average 1945-46		
	Inches	Percent	Percent	Inches	Percent
October	4.32	8.2	7.3	0.73	6.6
November	8.47	16.1	19.6	1.43	12.9
December	9.57	17.8	14.2	1.72	15.6
January	7.98	15.2	16.9	1.45	13.1
February	6.40	12.2	13.6	1.20	10.9
March	5.12	9.7	11.5	.79	7.2
	41.66	79.2	83.1	7.32	66.3
April	3.39	6.4	7.9	0.69	6.2
May	2.38	4.5	.8	.85	7.7
June	1.58	3.0	12.3	.83	7.5
July	.62	1.2	1.9	.40	3.6
August	.64	1.2	.0	.38	3.4
September	2.35	4.5	3.9	.58	5.3
	10.96	20.8	26.8	3.73	33.7
The year	52.62	100.0	109.9	11.05	100.0

Precipitation and relative wetness at 13 representative climatologic stations in the State of Washington for the year ending Sept. 30, 1946

Province 1/	Station and county 2/	Precipitation, 1945-46	
		Inches	Percentage of 50-year average 3/
Northern Coast Ranges	Port Angeles, Clallam	26.57	105.1
	Aberdeen, Grays Harbor	84.73	101.2
Puget-Willamette Trough	Olga, San Juan	33.30	112.9
	Seattle, King	33.71	103.2
	Olympia, Thurston	57.86	109.9
	Vancouver, Clark	40.16	109.6
Columbia Plateau	Ellensburg, Kittitas	10.76	120.1
	Waterville, Douglas	12.29	111.1
	Kennewick, Benton	6.37	91.9
	Walla Walla, Walla Walla	14.30	88.8
Northern Rocky Mountains	Lakeside, Chelan	10.15	95.2
	Colville, Stevens	17.45	102.7
	Spokane, Spokane	15.18	100.1

1/ Ground-water provinces and subprovinces are defined in Water-Supply Paper 990, pages 147-153.

2/ All stations on lowland or regional plateau; long-term records of precipitation not available for mountain stations.

3/ Average for years ending Sept. 30, 1891, to 1940.

SUMMARY OF WATER-LEVEL FLUCTUATIONS

The following table summarizes the net change during 1946 in the four areas of the State for which fairly long-term records have been obtained.

Summary of year-end water levels in certain areas in the State of Washington, 1945-46

			Year-end levels, 1946		
	Number of obser- vation wells	Length of water- level records (years)	Observed range of water level (feet for the period of record)	Above (+) Above or below lowest of (-) year- record end level (average, of 1945 in percent (average, of observed in feet) range)	
<u>Puget-Willamette Trough:</u>					
Tacoma area; (Pierce County):					
Wells tapping regional water body in glacial deposits:					
Long-term record	1	39	4.94	+1.45	36
Short-term record	8	7-9	3.11-12.72	+7.75	36
<u>Columbia Plateau province:</u>					
Columbia Basin; (Adams, Franklin, and Grant Counties):					
Wells tapping sand and gravel					
	6	5-8	.50-25.2	+4.49	45
Wells tapping basalt	5	7-8	1.59-23.2	-1.11	36
Palouse River area, (Whitman County): Artesian wells tapping basalt:					
Moderate-term record	2	11	9.85-10.85	-1.29	6
Short-term record	1	7	8.69	+2.52	23
<u>Northern Rocky Mountains province:</u>					
Spokane Valley; (Spokane County):					
Wells in outwash gravel:					
Intermediate-term records, influent ground water					
	3	18-19	19.28-21.05	+2.61	48
Long-term records, effluent ground water					
	3	30-35	16.0-21.8	-.46	14
Intermediate-term records, effluent ground water					
	5	16-19	4.78-19.8	+3.37	18

Areas of intensive investigation

Tacoma area, Puget Sound subprovince

The general concept of the occurrence and fluctuation 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 1946 in cooperation with the city of Tacoma. Five rounds of measurements were made covering 34 wells. In addition, 11 rounds of measurements were made at 8 municipal wells by Lawrence Angeline, of the city of Tacoma Water Division.

Ground-water levels in the Tacoma area were generally higher in September 1946 than they were in September 1945. A group of 8 selected wells showed an average rise of 0.75 foot.

Snohomish County, Puget Sound subprovince

The water-level program, begun during 1944 in Snohomish County, was continued in 1946. Six rounds of measurements were made in 17 observation wells. In addition, the field work was completed on a geologic reconnaissance of the western portion of the county. This program is being carried on in cooperation with Snohomish County Public Utility District No. 1.

Columbia Basin, Columbia Plateau province

The water-level program in the area of the Columbia Basin Project was continued in 1946 in cooperation with the Washington State Department of Conservation and Development. The observation wells in this area are listed under the counties of Adams, Franklin, and Grant. During the year the water levels rose an average of 0.49 foot in 6 selected wells tapping shallow sand and gravel and declined an average of 0.11 foot in 5 wells tapping deeper basalt.

Palouse River area, Columbia Plateau province

The observation-well program in Whitman County consisted of three rounds of measurements in three artesian wells, two water-table wells in and near Pullman, and one artesian well at Steptoe. Water levels in the two water-table wells showed a net gain of 0.68 foot for the year. Water levels in the artesian wells at Pullman continued their downward trend of the past several years and showed an average decline of 1.29 feet. The artesian well at Steptoe, however, showed a gain of 2.52 feet in water level.

Spokane Valley, Northern Rocky Mountains province

The water-level program, begun several years ago in the Spokane Valley and the adjoining Rathdrum Prairie in Idaho, was continued in 1946 in cooperation with the Washington State Department of Conservation and Development. Measurements of water level for this area are recorded under Spokane County. Float gages were maintained on 7 of the 23 wells with daily to weekly readings by local observers. Tape measurements on the other wells were made by either the Geological Survey or the Washington Water Power Company.

Records of the three observation wells in the Rathdrum Prairie area may be found in the Idaho section of this volume under Bonner and Kootenai Counties.

The summary table of year-end water levels indicates an average net rise of 0.06 foot in eight wells in the area of effluent ground water that sustains the low flow of the Spokane River. In three wells in the upstream area of influent ground water, there was an average net rise of 2.61 feet. The three wells on the Rathdrum Prairie in Idaho show an even greater rise during 1946.

WELL-NUMBERING SYSTEM

The system of well numbers used in this report is based upon the rectangular land survey system, the first and second numbers being the township and range numbers, the third is the section number, the fourth is a letter which represents the 40-acre tract within that section, and the fifth is the serial number within the 40-acre tract. The system has been described in Water-Supply Paper 990.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Adams County

Columbia Basin

16/29-35R1 (*940, p. 140; 948, p. 135; 990, p. 158; 1020, p. 151; 1027, p. 200). Kathryn D. Tate. Taps water in basalt. Water level influenced principally by precipitation. Water levels, in feet below land-surface datum, 1946: Apr. 5, 286.15; Sept. 10, 289.70±

19/31-19B1 (*940, p. 140; 948, p. 135; 990, p. 158; 1020, p. 151; 1027, p. 200). Barbara Dormaier. Taps water in basalt. Water level influenced principally by precipitation. Water level, in feet below land-surface datum, 1946: Apr. 6, 184.30.

Benton County

Yakima River Basin

9/27-19G1 (*990, p. 158; 1020, p. 151; 1027, p. 200). Frank Davis. Taps water from gravel in valley fill of the Yakima River. Water levels, in feet below land-surface datum, 1946: Apr. 4, 14.88; Sept. 10, 13.60.

Chelan County

Wenatchee River Basin

23/19-4D1 (*990, p. 159; 1020, p. 152; 1027, p. 200). U. S. 69. City of Cashmere well 1. 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.

23/19-4D1--Continued.

Water level, in feet below land-surface datum, 1946
(From daily float-gage readings by city water superintendent)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	13.65	Mar. 27	13.33	June 7	13.11	Aug. 21	18.74
14	13.92	Apr. 7	12.69	14	12.66	27	18.73
20	14.51	10	a 12.68	20	13.15	Sept. 7	16.35
26	14.79	14	12.55	27	13.68	14	16.38
Feb. 7	14.38	20	12.46	July 7	14.84	21	16.40
13	14.49	27	14.03	14	14.15	27	17.20
20	14.18	May 7	14.00	21	14.00	Oct. 7	13.68
27	14.59	14	13.50	27	15.64	14	16.94
Mar. 7	13.40	20	13.35	Aug. 7	18.30	21	16.29
14	14.00	27	13.30	14	18.60	27	16.97
20	13.26						

a By Geological Survey.

23/19-4E2 (1027, p. 201). U. S. 69A. City of Cashmere Natatorium well. Water from sand and gravel in terrace deposit of Wenatchee River. Water level affected by pumping in this and three nearby city wells and by change of river stage.

Water level, in feet below land-surface datum, 1946
(From daily readings by local observer)

Jan. 1	16.32	Apr. 5	15.87	July 5	16.54	Sept. 30	17.84
5	16.82	10	a 15.39	10	16.31	Oct. 5	17.90
10	16.96	15	13.89	15	16.04	10	17.93
15	17.16	20	13.81	19	16.09	15	17.94
20	17.36	25	14.75	25	16.38	20	18.00
25	17.51	30	14.84	31	16.70	25	18.04
31	17.32	May 5	15.06	Aug. 5	16.94	31	18.20
Feb. 5	17.60	10	14.94	10	16.72	Nov. 5	18.21
10	17.71	15	15.28	15	16.73	10	18.23
15	17.81	20	15.28	20	16.74	15	18.31
20	17.94	25	15.39	22	a 16.70	20	18.32
25	17.56	31	15.70	25	16.76	25	18.36
28	17.33	June 5	15.80	31	17.36	30	18.29
Mar. 5	16.52	10	15.97	Sept. 5	17.76	Dec. 5	18.35
10	15.93	15	16.88	10	17.78	10	18.56
15	15.57	20	15.80	15	17.79	15	16.50
20	15.99	25	16.14	20	17.80	20	16.68
25	16.13	30	15.83	25	17.64	27	17.14
31	15.91						

a By Geological Survey.

Franklin County

Columbia Basin

9/29-25D1 (*948, p. 135; 990, p. 161; 1020, p. 152; 1027, p. 201). Owner unknown. Taps water in gravel of terrace deposit of the Columbia River. Water levels, in feet below land-surface datum, 1946: Apr. 4, 37.88; Sept. 10, 35.06.

11/30-11B1 (*940, p. 141; 948, p. 136; 990, p. 161; 1020, p. 152; 1027, p. 201). Northern Pacific Railway. Taps water in glacial-outwash gravel. Water level affected by infiltration from runoff in Esquatzel Coulee. Water level, in feet below land-surface datum, 1946: Sept. 10, 120.14±.

13/30-26G2 (*940, p. 141; 948, p. 136; 990, p. 161; 1020, p. 152; 1027, p. 201). M. M. Poe. 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, 1946: Apr. 4, 27.84; Sept. 10, 28.19.

13/32-10A1 (*990, p. 162; 1020, p. 152; 1027, p. 201). Owner unknown. Taps water in basalt. Water level, in feet below land-surface datum, 1946: Apr. 4, 253.89.

13/34-4G1 (*990, p. 162; 1020, p. 152; 1027, p. 202). City of Kahlotus. Taps water in gravel deposit in Washtucna Coulee. Water level, in feet below land-surface datum, 1946: Apr. 4, 48.43.

Grant County

Columbia Basin

18/30-34M1 (*990, p. 162; 1020, p. 152; 1027, p. 202). Owner unknown. Probably taps water in basalt. Water levels, in feet below land-surface datum, 1946: Apr. 6, 103.36; Sept. 11, 104.36.

19/24-7J1 (*940, p. 141; 948, p. 136; 990, p. 163; 1020, p. 152; 1027, p. 202). E. J. Hutton. Taps water in basalt. Water level influenced principally by precipitation. Water level, in feet below land-surface datum, 1946: Apr. 5, 170.69.

19/26-34D1 (*940, p. 142; 948, p. 138; 990, p. 163; 1020, p. 152; 1027, p. 202). F. H. Bordwell. Water from sand in Pleistocene (?) lake deposit. Water levels, in feet below land-surface datum, 1946: Apr. 5, 92.29; Sept. 11, 92.28.

19/27-16N1 (*948, p. 138; 990, p. 163; 1020, p. 153; 1027, p. 202). M. R. Steele. Taps water in glacial-outwash gravel. Water level, in feet below land-surface datum, 1946: Apr. 4, 69.62.

19/28-15L1 (*940, p. 142; 948, p. 139; 990, p. 164; 1020, p. 153; 1027, p. 202). Owner unknown. Taps water in fluvio-glacial deposit. Water level affected by changes in stage of Moses Lake. Water levels, in feet below land-surface datum, 1946: Apr. 6, 58.24; Sept. 11, 60.76.

19/28-22G1 (*948, p. 139; 990, p. 164; 1020, p. 153; 1027, p. 202). Donald M. Farrell. Formerly owned by Frank W. Lees. Taps water in glacial-outwash gravel. Water levels affected by changes in stage of Moses Lake.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by owner)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	25.18	Apr. 7	24.32	July 7	25.05	Sept. 29	25.73
13	25.12	14	24.34	14	25.12	Oct. 6	25.70
20	25.07	21	24.40	21	25.14	13	25.62
25	25.03	25	24.45	25	25.19	20	25.59
27	25.04	28	24.44	28	25.22	27	25.46
Feb. 3	25.01	May 5	24.39	Aug. 4	25.33	Nov. 3	25.43
10	24.98	12	24.35	11	25.55	10	25.36
17	24.92	19	24.46	18	25.64	17	25.27
24	24.83	25	24.45	25	25.69	24	25.16
Mar. 3	24.68	June 2	24.57	Sept. 1	25.72	Dec. 1	25.06
9	24.48	9	24.60	8	25.70	8	24.96
17	24.63	16	24.74	15	25.71	15	24.87
24	24.52	23	24.90	22	25.71	22	24.82
31	24.54	30	24.95	28	25.73		

20/26-18R1 (*940, p. 143; 948, p. 140; 990, p. 165; 1020, p. 153; 1027, p. 202). D. J. Miles. Probably taps water in basalt. Water levels, in feet below land-surface datum, 1946: Apr. 6, 162.58; Sept. 12, 162.51.

20/28-15F1 (*948, p. 141; 990, p. 165; 1020, p. 153; 1029, p. 202). County of Grant. Taps water in glacial-outwash gravel and in basalt. Water levels, in feet below land-surface datum, 1946: Apr. 6, 6.42; Sept. 11, 15.34.

21/26-3H1 (*940, p. 143; 948, p. 141; 990, p. 165; 1020, p. 124; 1027, p. 203). Sivert Andersen. Taps water in basalt. Water level affected by pumping in two irrigation wells 0.25 mile north, and 0.50 mile south. Water levels, in feet below land-surface datum, 1946: Apr. 6, 144.63; Sept. 12, 141.54.

21/28-34A1 (*940, p. 143; 948, p. 141; 990, p. 166; 1020, p. 154; 1027, p. 203). Arabella E. Bunnell. Taps water in basalt. Water level influenced principally by precipitation. Water level, in feet below land-surface datum, 1946: Sept. 11, 96.91.

22/27-30P1 (*948, p. 142; 990, p. 166; 1020, p. 154; 1027, p. 203). Woodsie G. Smith. Formerly owned by L. W. Beasley. Taps water in basalt. Water level, in feet below land-surface datum, 1946: Sept. 12, 48.37.

22/28-6R1 (*948, p. 143; 990, p. 167; 1020, p. 154; 1027, p. 203). Charles A. Kennedy. Taps water in glacial-outwash gravel. Water level affected by automatic domestic pump operation.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by owner)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	168.50	Apr. 18	157.35	June 13	152.20	Aug. 8	155.80
10	168.30	25	155.00	20	152.00	15	156.10
17	168.45	May 3	154.00	27	151.80	22	157.00
24	168.55	9	154.30	July 4	152.20	29	157.40
31	168.75	16	153.80	11	153.00	Sept. 5	158.00
Feb. 7	168.60	23	153.20	18	153.60	12	158.20
14	168.45	30	152.80	25	154.20	19	158.30
21	168.00	June 6	152.40	Aug. 1	155.00	26	158.60
Apr. 11	158.73						

22/30-18M1 (*940, p. 144; 948, p. 143; 990, p. 167; 1020, p. 155; 1027, p. 203). Owner unknown. 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, 1946: Apr. 6, 17.01; Sept. 11, 17.25.

King County

Glacial plains of the Puget Trough

26/6-13N1 (*990, p. 168; 1020, p. 155; 1027, p. 204). Jacob DeBoer. Taps water in sand of fluvioglacial deposit. Water levels, in feet below land-surface datum, 1946: July 3, 38.05; Oct. 4, 40.29.

Kitsap County

Glacial plains of the Puget Trough

23/1-2C2 (*990, p. 168; 1020, p. 155; 1027, p. 204). W. A. Hiersch. Taps water in sand in fluvioglacial deposits of an extensive rolling upland. Measurements by owner.

Water level, in feet below land-surface datum, 1946

Feb. 3	57.52	Mar. 18	55.39	May 13	50.77	Aug. 31	50.65
21	56.65	Apr. 3	53.70	June 2	50.30	Sept. 6	50.72
Mar. 3	56.20	27	51.74	21	49.98	Oct. 21 a	51.70

a By Geological Survey.

Lewis County

Cowlitz River Basin

11/1W-5H1 (*990, p. 169; 1020, p. 155; 1027, p. 204). Mrs. Joseph Sommer. Taps water in compact sand in deeply weathered terrace deposit. Water levels, in feet below land-surface datum, 1946: Jan. 2, 34.95; Mar. 8, 38.37; Aug. 21, 41.19; Oct. 25, 39.12.

Lincoln County

Columbia Plateau

25/37-14M1 (*990, p. 170; 1020, p. 155; 1027, p. 204). Charles Straub, Sr. Taps water in basalt. Water levels, in feet below land-surface datum, 1946: Apr. 10, 19.39; Aug. 20, 20.63.

Okanogan County

Okanogan River Valley

34/26-26Q1 (*990, p. 170; 1020, p. 155; 1027, p. 204). City of Omak. Taps water in stream gravel of Okanogan River.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by city water superintendent)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	13.70	Apr. 6	13.70	July 8	11.09	Oct. 21	13.85
11	13.76	13	13.68	15	12.18	26	13.60
18	13.85	20	13.82	22	12.70	28	13.89
26	13.65	27	11.90	28	12.30	Nov. 5	13.71
Feb. 2	13.95	May 4	11.22	Aug. 1	12.37	9	13.76
9	13.90	11	8.42	10	13.61	16	13.90
16	13.92	18	8.15	Sept. 30	13.86	25	12.80
23	13.93	25	7.83	Oct. 5	13.90	30	13.74
Mar. 2	13.86	June 1	8.20	7	13.85	Dec. 7	13.84
9	13.84	8	9.08	12	13.90	14	13.75
16	13.85	15	9.30	14	13.92	21	13.87
23	13.80	25	10.40	19	13.82	28	14.12
30	13.72	July 1	10.95				

34/26-28A1 (*990, p. 171; 1020, p. 156; 1027, p. 205). Charles Byrd. Taps water in terrace gravel deposit west of Okanogan River. Water level, in feet below land-surface datum, 1946: Apr. 11, 32.99, pumping.

34/26-28P1 (*990, p. 171; 1020, p. 156; 1027, p. 205). Samuel Peterson. Taps water in terrace gravel deposit west of Okanogan River. Water levels, in feet below land-surface datum, 1946: Apr. 11, 14.71; Aug. 21, 14.07.

34/26-35R1 (*1020, p. 156; 1027, p. 205). City of Omak well 4. Taps water in coarse alluvial deposit of the Okanogan River. One or more of three pumps operating at the time of each measurement.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by the city water superintendent)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	25.55	Apr. 6	26.21	July 9	23.46	Oct. 21	26.60
12	25.68	13	26.27	16	24.40	26	27.00
19	25.67	20	26.22	20	24.93	28	27.02
26	25.46	27	26.73	27	25.30	Nov. 2	26.95
Feb. 2	25.25	May 4	26.19	Aug. 3	25.70	9	27.07
9	24.95	11	24.62	10	25.86	16	26.57
16	25.01	18	23.83	Sept. 30	26.50	25	26.12
23	25.55	25	22.67	Oct. 5	27.02	30	26.20
Mar. 2	25.44	June 4	22.40	7	26.11	Dec. 7	26.53
9	26.01	11	22.22	12	26.80	14	26.70
16	26.04	18	22.45	14	26.48	21	26.89
23	26.15	25	23.00	19	27.18	28	26.58
30	26.24	July 1	22.60				

36/26-13K1 (*990, p. 172; 1020, p. 156; 1027, p. 205). Owner unknown. Taps water in fluvio-glacial gravel. Water levels, in feet below land-surface datum, 1946: Apr. 11, 18.96; Aug. 21, 29.01.

40/27-28G1 (*990, p. 172; 1020, p. 156; 1027, p. 205). City of Oroville well 1. Taps water in gravel of valley alluvium.

Water level, in feet below land-surface datum, 1946 (From float-gage readings by city water superintendent)							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	17.14	Apr. 1	17.54	June 25	14.51	Sept. 23	16.76
11	17.27	8	17.54	July 1	14.73	Oct. 3	16.73
15	17.37	17	17.55	8	15.16	16	16.68
22	17.44	23	17.23	15	15.52	28	16.70
28	17.51	May 1	16.78	23	15.84	Nov. 4	16.84
Feb. 5	17.51	7	16.36	31	16.26	12	16.93
12	17.54	13	15.47	Aug. 21 a	16.82	Dec. 2	17.21
21	17.63	21	14.57	28	16.83	9	17.40
25	17.47	26	14.29	Sept. 3	16.80	16	17.38
Mar. 4	17.37	June 4	14.06	9	16.45	23	17.50
11	17.42	8	14.11	16	16.83	30	17.62
25	17.44	17	14.24				

a By Geological Survey.

Pierce County

Alluvial and glacial plains of the Puget Trough

17/2-16Q3 (*1020, p. 157; 1027, p. 205). Roy Gonias. Regional water table. Measuring point (2) beginning Mar. 4, 1946, top of 8-inch tile casing, 0.10 foot below land-surface datum.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 4	28.65	Aug. 18	35.31	Dec. 26	28.35
May 15	32.86	Oct. 25	37.11		

17/2-16Q4 (*1020, p. 157; 1027, p. 206). James Gonias. Confined-artesian water.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 4	4.82	Aug. 19	10.35	Dec. 26	5.86
May 15	6.01	Oct. 25	8.86		

18/3-11N1 (*990, p. 174; 1020, v. 157; 1027, p. 206). E. Flannery. Regional water table. No measurements made in 1946.

18/3-14Q1 (*990, p. 175; 1020, p. 157; 1027, p. 206). W. J. Fochs. Formerly owned by A. S. Morris. Taps confined water beneath the Vashon till. Water levels, in feet below land-surface datum, 1946: Mar. 8, 33.00; May 15, 42.16; Aug. 20, 47.63; Dec. 27, 30.25.

18/3-27E1 (*990, p. 175; 1020, p. 157; 1027, p. 206). H. E. Bowman. Regional water table above the Vashon till.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 8	12.3	Aug. 20	15.64	Dec. 27	11.99
May 15	14.75	Oct. 25	16.60		

18/4-3M1 (*990 p. 176; 1020, p. 157; 1027, p. 206). C. F. Southard. Perched water table, in or above the Vashon till.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 8	1.09	Aug. 20	5.60	Dec. 27	0.10
May 15	3.15	Oct. 25	4.79		

18/4-7P1 (*990, p. 177; 1020, p. 157; 1027, p. 206). Joe Jupiter. Regional water table below the Vashon till. Water levels, in feet below land-surface datum, 1946: Mar. 8, 77.5[±]; May 15, 77.30; Aug. 20, 79.02; Oct. 25, 79.79.

18/4-14C1 (*990, p. 178; 1020, p. 157; 1027, p. 206). W. Rodlund. Probably in the regional zone of saturation.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 8	52.60	Aug. 20	55.64	Dec. 27	53.61
May 15	53.27	Oct. 25	58.31		

19/2-10F1 (*990, p. 178; 1020, p. 158; 1027, p. 206). Lakewood Water District. Confined water, probably nonartesian. One or more adjacent wells pumping.

Water level, in feet below land-surface datum, 1946 (From float-gage readings by L. E. Crusoe)							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	47.08	May 30	45.47	July 15	47.67	Nov. 1	49.18
14	46.28	June 7	45.52	18	47.81	8	49.16
16	45.98	13	45.90	21	47.85	16	49.12
17	46.27	21 b	45.85	26	48.02	21 b	49.10
22	45.93	26	46.09	30	48.29	Dec. 1	48.92
29	45.61	28	46.05	Aug. 13	47.51	10	48.51
Feb. 5	45.44	July 3	46.61	22	48.29	17	47.43
May 15 a	45.96	5	46.44	25	48.29	21	47.22
19	45.70	8	47.10	Sept. 11	48.29	26	46.82
22	45.34	11	46.48	Oct. 23 a	49.25	31	46.94
27	45.21						

a By Geological Survey.

b Pumps off in two adjacent public-supply wells.

19/3-2Q1 (*990, p. 182; 1020, p. 158; 1027, p. 207). I. G. Young. Local perched water table, in the Vashon till. Water levels, in feet below land-surface datum, 1946: Mar. 8, 0.50; Aug. 20, 5.93; Oct. 25, 6.95; Dec. 27, 0.00.

19/3-3Q1 (*990, p. 182; 1020, p. 158; 1027, p. 207). D. Stuart, tenant. Regional water table.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 8	152.22	Aug. 20	152.5	Dec. 27	151.06
May 15	150.17	Oct. 25	150.67		

19/3-7B1 (*990, p. 183; 1020, p. 158; 1027, p. 207). W. J. Fritz. Regional water table, above the Vashon till. Measuring point (2), beginning Oct. 23, 1946, top of 4-inch pipe inserted in well, 3.65 feet below land-surface datum and 4.40 feet below pump house floor.

Water level, in feet below land-surface datum, 1946					
Mar. 8	8.38	Aug. 19	13.04	Dec. 26	9.33
May 15	10.53	Oct. 23	14.41		

19/3-9C1 (*990, p. 183; 1020, p. 158; 1027, p. 207). N. G. Kramer. Perched water table in the Vashon till.

Water level, in feet below land-surface datum, 1946					
Mar. 8	5.36	Aug. 19	14.64	Dec. 26	10.60
May 15	9.76	Oct. 23	17.58		

19/3-28F1 (*990, p. 184; 1020, p. 158; 1027, p. 207). C. C. Modahl. Regional water table, above the Vashon till. Water levels, in feet below land-surface datum, 1946: May 18, 28.18; Aug. 19, 30.96; Oct. 23, dry; Dec. 26, 27.08.

19/3-33L1 (*990, p. 184; 1020, p. 158; 1027, p. 207). B. M. Shandrow. Semiperched water table, above the Vashon till. Measurements discontinued.

19/4-4J1 (*990, p. 185; 1020, p. 158; 1027, p. 207). R. J. Moreland. Perched water table in the Vashon till.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 8	9.14	Aug. 20	22.17	Dec. 27	11.81
May 15	18.02	Oct. 25	20.76		

19/4-7A1 (*990, p. 185; 1020, p. 158; 1027, p. 207). Ada Lilja. Formerly owned by S. Lilja. Perched water table in the Vashon till.

Water level, in feet below land-surface datum, 1946 (From float-gage readings by owner)							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	21.15	Apr. 8	16.79	July 8	30.16	Oct. 7	34.34
7	16.00	15	18.16	15	31.04	14	34.44
14	15.80	22	19.43	22	31.75	21	34.52
21	17.53	29	20.13	29	32.32	28	34.61
30	16.95	May 6	21.54	Aug. 5	32.70	Nov. 5	34.70
Feb. 4	15.96	13	22.65	12	32.98	11	34.77
11	14.29	20	23.81	19	33.23	18	34.48
18	16.32	27	24.81	26	33.48	25	33.41
25	17.45	June 3	25.70	Sept. 2	33.70	Dec. 3	28.64
Mar. 4	15.20	11	26.86	9	33.88	9	25.30
18	15.73	17	27.73	16	34.03	16	17.97
25	16.40	24	28.48	23	34.15	23	17.49
Apr. 1	15.74	July 1	29.42	30	34.25	30	19.03

19/4-20K3 (*990, p. 187; 1020, p. 159; 1027, p. 208). Mrs. Margaret Gould. Regional water table.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 8	177.15	Aug. 20	181.66	Dec. 27	180.59
May 15	177.01	Oct. 25	185.25		

19/4-21G1 (*990, p. 187; 1020, p. 159; 1027, p. 208). Leroy Powell. Perched water table, just above the Vashon till.

Water levels, in feet below land-surface datum, 1946				
Date	Water level	Date	Water level	
Mar. 8	1.72	Aug. 20	3.82	Dec. 27 1.97
May 15	2.29	Oct. 25	2.24	

19/4-24A1 (*990, p. 187; 1020, p. 159; 1027, p. 208). Birchall A. Baker. Regional water table. Water levels, in feet below land-surface datum, 1946: Mar. 5, 14.13; May 18, 15.77. Measurements discontinued.

19/4-24A3 (*990, p. 188; 1020, p. 159; 1027, p. 208). Birchall A. Baker. Confined, nonartesian water. Water levels, in feet below land-surface datum, 1946: Mar. 5, 13.21; May 18, 14.85; Aug. 20, 14.83; Oct. 24, 14.85.

19/5-19M1 (*990, p. 188; 1020, p. 159; 1027, p. 208). C. J. Lawson.
Regional water table. Measurements by owner.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	b 0.6	Mar. 5	a 1.28	Aug. 20	3.23	Dec. 27	1.10
Feb. 4	1.3	May 18	2.43	Oct. 24	3.09		

a By Geological Survey.
b Above land-surface datum.

20/2-10F1 (*990, p. 189; 1020, p. 160; 1027, p. 208). C. L. Stout.
Probably semipерched water table below the Vashon till.

Water level, in feet below land-surface datum, 1946 (From float-gage readings by owner)							
Mar. 6	104.80	May 10	103.82	June 23	102.37	Sept. 7	101.38
10	104.65	18	103.45	30	102.20	28	101.35
17	104.63	20 a	103.32	July 3	102.18	Oct. 6	101.37
24	104.61	23	103.25	14	101.94	24 a	101.40
31	104.57	26	103.12	18	101.86	31	101.40
Apr. 5	104.39	29	102.96	24	101.78	Nov. 3	101.48
7	104.33	31	102.94	Aug. 2	101.69	10	101.47
14	104.31	June 7	102.72	15	101.48	24	101.78
18	104.29	12	102.62	20 a	101.57	Dec. 1	101.51
24	103.95	16	102.53	24	101.44	22	101.82
30	104.09	18	102.45	28	101.38	26 a	101.46
May 6	103.84	20	102.38				

a By Geological Survey.

20/2-13H1 (*990, p. 191; 1020, p. 160; 1027, p. 208). City of Tacoma
well 4-A. Confined, nonartesian water in large part.

Water level, in feet below land-surface datum, 1946 (From tape measurements by Tacoma Water Division)							
Jan. 31	14.15	Apr. 30	13.99	Aug. 29	14.50	Dec. 2	14.59
Feb. 27	13.77	May 28	13.61	Sept. 27	14.54	30	13.78
Mar. 30	13.04	June 27	13.90	Oct. 31	14.31		

20/2-13J1 (*990, p. 191; 1020, p. 160; 1027, p. 209). City of Tacoma
well 6-A. Confined, nonartesian water in large part.

Water level, in feet below land-surface datum, 1946 (From tape measurements by Tacoma Water Division)							
Jan. 31	34.37	Apr. 30	33.93	Aug. 29	35.03	Dec. 2	34.69
Feb. 27	33.84	May 28	34.01	Sept. 27	34.76	30	34.29
Mar. 30	33.09	June 27	34.28	Oct. 31	39.85		

20/2-15L2 (*990, p. 192; 1020, p. 160; 1027, p. 209). C. H. Erickson.
Probably semipерched water table below the Vashon till.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level		
Mar. 6	126.46	Aug. 20	123.96	Dec. 26	122.47		
May 20	126.30	Oct. 24	123.36				

20/2-26J1 (*990, p. 193; 1020, p. 161; 1027, p. 209). James Holroyd.
Regional water table, above the Vashon till.

Water level, in feet below land-surface datum, 1946							
Mar. 6	27.67	Aug. 20	34.44	Dec. 26	28.50		
May 20	29.70	Oct. 24	31.52				

20/3-9E1 (*990, p. 195; 1020, p. 161; 1027, p. 209). National Soap Co. Confined, nonartesian water below the Vashon till. Water level depressed somewhat by continuous pumping in nearby refrigeration well 9E3; pump off overnight in well 9E2 before each measurement. Water levels, in feet below land-surface datum, 1946: Mar. 8, 56.20; May 18, 60.75; Oct. 24, 59.75.

20/3-18D1 (*990, p. 196; 1020, p. 161; 1027, p. 209). City of Tacoma well 2-A. Confined, nonartesian water in large part.

Water level, in feet below land-surface datum, 1946
(From tape measurements by Tacoma Water Division)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	27.16	Apr. 30	30.29	Aug. 29	28.78	Dec. 2	28.29
Feb. 27	28.46	May 28	26.35	Sept. 27	28.86	30	26.92
Mar. 30	27.39	June 27	26.40	Oct. 31	27.91		

20/3-19F1 (*990, p. 197; 1020, p. 161; 1027, p. 209). City of Tacoma well 5-A. Confined, nonartesian water in large part. From tape measurements by Tacoma Water Division. Water level, in feet below land-surface datum, 1946: Jan. 31, 37.16.

20/3-19P1 (*990, p. 199; 1020, p. 161; 1027, p. 209). City of Tacoma well 1-A. Confined, nonartesian water in large part.

Water level, in feet below land-surface datum, 1946
(From tape measurements by Tacoma Water Division)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	30.52	Apr. 30	31.76	Aug. 29	31.29	Dec. 2	30.96
Feb. 27	30.31	May 28	30.47	Sept. 27	30.77	30	30.42
Mar. 30	29.78	June 27	30.70	Oct. 31	31.03		

20/3-19P4 (*990, p. 202). City of Tacoma well 11. Confined, nonartesian water in large part. Casing unsealed and water-stage recorder installed Oct. 8, 1945, to replace well 20/3-30C2 as "recorder well." Measuring point (2) beginning Apr. 21, 1944, top of 1/4-inch plate bolted to casing-head flange at 3/4-inch drilled hole, 6.47 feet below original land-surface datum. Reference bench mark, on sill at entrance to concrete well shelter, a chiseled square, 254.10 feet above mean sea level. Land-surface datum is 263.98 feet above mean sea level and 277.94 feet above city datum.

Water level at noon, in feet below land-surface datum, 1945-46
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level
Oct. 10, 1945	35.06	Apr. 10, 1946	32.56	Aug. 8, 1946	33.58
15	35.02	15	a 33.07	15	a 33.84
20	35.13	18	32.57	31	a 33.83
25	34.90	25	32.84	Sept. 5	33.64
31	a 35.50	30	a 34.55	10	33.56
Nov. 30	34.54	May 3	33.18	15	33.52
Dec. 5	34.32	10	a 33.72	20	33.52
10	34.22	15	33.28	25	33.54
26	34.08	19	33.20	30	33.48
28	34.02	25	33.41	Oct. 5	33.62
Jan. 18, 1946	33.15	31	a 36.97	10	33.66
24	33.09	June 5	33.46	15	33.58
31	33.27	10	33.36	20	33.47
Feb. 10	32.81	12	33.39	31	33.84
15	32.88	20	33.63	Nov. 5	33.49
20	32.98	25	33.52	10	33.63
27	33.07	30	33.48	15	33.67
Mar. 5	33.00	July 5	33.44	20	33.50
10	32.73	10	33.35	25	33.22
15	32.64	15	33.44	30	a 34.93
20	32.52	20	33.47	Dec. 5	33.37
24	32.55	24	33.52	9	33.17
31	32.54	31	a 34.80	21	a 35.85
Apr. 5	32.54	Aug. 5	33.59	25	33.52

a Water level recovering from recent withdrawal in adjacent public-supply wells.

20/3-30C2 (*990, p. 208; 1020, p. 161; 1027, p. 210). U. S. 68.
City of Tacoma well 5. Confined, nonartesian water in large part.

Water level, in feet below land-surface datum, 1946 (From tape measurements by Tacoma Water Division)							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	36.37	Apr. 30	37.72	Aug. 29	37.12	Dec. 2	37.01
Feb. 27	36.30	May 28	36.58	Sept. 27	36.87	30	36.49
Mar. 30	35.70	June 27	36.80	Oct. 31	37.30		

20/3-30C4 (*990, p. 212; 1020, p. 162; 1027, p. 210). City of Tacoma
well 8-A. Confined, nonartesian water in large part.

Water level, in feet below land-surface datum, 1946 (From tape measurements by Tacoma Water Division)							
Jan. 31	36.01	Apr. 30	37.21	Aug. 29	36.96	Dec. 2	36.60
Feb. 27	35.96	May 28	36.24	Sept. 27	36.53	30	36.08
Mar. 30	35.39	June 27	36.47	Oct. 31	36.37		

20/3-30L5 (*990, p. 221; 1020, p. 162; 1027, p. 210). City of
Tacoma well 7-A. Confined, nonartesian water in large part.

Water level, in feet below land-surface datum, 1946 (From tape measurements by Tacoma Water Division)							
Jan. 31	20.19	Apr. 30	20.81	Aug. 29	21.50	Dec. 2	20.77
Feb. 27	19.89	May 28	21.42	Sept. 27	21.09	30	20.53
Mar. 30	19.41	June 27	21.12	Oct. 31	21.23		

20/3-30N1 (*990, p. 222; 1020, p. 162; 1027, p. 210). City of
Tacoma well 3-A. Confined, nonartesian water in large part.

Water level, in feet below land-surface datum, 1946 (From tape measurements by Tacoma Water Division)							
Jan. 31	37.92	Apr. 30	38.51	Aug. 29	39.49	Dec. 2	39.20
Feb. 27	37.39	May 28	39.27	Sept. 27	39.25	30	38.28
Mar. 30	37.02	June 27	38.59	Oct. 31	39.54		

20/3-32D2 (*990, p. 224; 1020, p. 163; 1027, p. 210). John Erdahl.
Formerly owned by Bronson. Regional water table, below the Vashon till.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 5	63.15	Aug. 20	62.48	Dec. 27	62.84
May 18	62.08	Oct. 24	63.02		

a Pump off 5 minutes prior to measurement.

20/3-32D3 (*990, p. 224; 1020, p. 163; 1027, p. 210). E. Lambert.
Perched water body, on the Vashon till. Water levels, in feet below land-surface datum, 1946: Mar. 5, 8.14; May 18, 10.25. Measurements discontinued.

20/3-34E1 (*990, p. 225; 1020, p. 163; 1027, p. 211). Frank Reding.
Perched water body, just above the Vashon till.

Water level, in feet below land-surface datum, 1946			
Date	Water level	Date	Water level
Mar. 5	2.60	Aug. 20	8.32
May 18	5.47	Oct. 24	9.27

20/3-35Q1 (*990, p. 225; 1020, p. 163; 1027, p. 211). I. S. Broxson.
Regional water table below the Vashon till.

20/3-35G1--Continued.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by owner)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	181.52	Apr. 7	179.21	July 14	179.66	Oct. 6	180.27
5	181.54	14	179.50	22	179.73	13	180.30
11	181.57	21	179.34	29	179.83	20	180.35
13	181.56	28	179.16	Aug. 4	179.83	27	180.38
18	181.58	May 5	179.25	11	179.94	Nov. 3	180.43
24	181.58	13	179.16	18	179.95	10	180.51
28	181.58	18 a	179.22	20 a	180.11	17	180.53
31	181.54	26	179.25	25	180.00	26	180.57
Feb. 3	181.51	June 2	179.29	Sept. 1	180.04	Dec. 1	180.57
7	181.46	9	179.36	8	180.10	8	180.63
10	181.39	17	179.45	17	180.23	15	180.66
Mar. 10	180.55	23	179.45	22	180.19	22	180.70
17	180.10	30	179.49	29	180.22	27 a	180.88
31	179.87	July 8	179.60				

a By Geological Survey.

20/4-24F2 (*990, p. 226; 1020, p. 163; 1027, p. 211). Standard Brands of California, Inc. Confined, artesian water. Well 24F3 pumping at time of each measurement.

Water level, in feet above (+) or below (-) land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 5	a +2.+	Aug. 20	+0.06	Dec. 26	a +2.+
May 18	+1.14	Oct. 24	-.30		

a Flowing.

20/4-24F3 (*990, p. 227; 1020, p. 163; 1027, p. 211). Standard Brands of California, Inc. Confined, artesian water. Pumping at time of each measurement.

Water level, in feet above (+) or below (-) land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 5	-0.29	Aug. 20	-2.50	Dec. 27	+2.41
May 18	+31	Oct. 24	-2.81		

20/4-36H2 (*990, p. 227; 1020, p. 163; 1027, p. 211). Frank Chervenka. Probably confined, nonartesian water. Water levels, in feet below land-surface datum, 1946: Mar. 5, 4.30; Oct. 24, 7.45; Dec. 27, 4.36.

21/2-25B2 (*990, p. 228; 1020, p. 163; 1027, p. 211). City of Tacoma. Confined water. Water levels, in feet below land-surface datum, 1946: Mar. 6, 44.64; Aug. 20, 45.06; Oct. 24, 44.97; Dec. 26, 45.10.

21/3-26N1 (*990, p. 228; 1020, p. 163; 1027, p. 212). City of Tacoma. well Tideflats 1. Confined, artesian (flowing) water.

Water level, in feet, in well 21/3-26N1 and corresponding tidal height of Hylebos Waterway, 1946

Date	Time	Above land-surface datum	Well		Waterway	
			Above city datum	Above sea-level datum of 1929	Above (+) or below (-) sea-level datum of 1929	
Mar. 7	12:00 noon	1.90	28.74	14.78	-3.24	
8	9:15 a.m.	4.00	30.84	16.88	+4.86	
May 20	12:50 p.m.	3.10	29.94	15.98	-6.59	
Oct. 24	12:50 p.m.	3.98	30.82	16.86	+9.96	
Dec. 27	11:00 a.m.	4.95	31.79	17.83	+4.31	

Stages in certain water-table lakes

American Lake (*990, p. 230; 1020, p. 163; 1027, p. 212). 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, 1946

Date	Stage	Date	Stage	Date	Stage
Mar. 6	231.6	Aug. 20	230.25	Dec. 26	230.9
May 17	231.75	Oct. 23	229.9		

Gravelly Lake (*990, p. 230; 1020, p. 164; 1027, p. 212). No surface inlets or outlets. Small quantities of water withdrawn for summer use on abutting properties.

Lake stages, in feet above sea-level datum of 1929, 1946

Mar. 6	216.8	Aug. 20	213.32	Dec. 26	213.62
May 15	216.8	Oct. 23	212.0		

Snohomish County

Puget Sound subprovince

27/4-10F1 (*1027, p. 212). E. A. Lichtenstein. Water from Pleistocene pre-Vashon sand and gravel beds.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Feb. 15	108.40	June 25	105.87	Oct. 4	106.48
Apr. 16	109.98	Aug. 8	106.75	Dec. 6	108.30

27/4-28F1 (*1027, p. 212). Peter Peisch. Taps water from Pleistocene pre-Vashon sand and gravel beds.

Water level, in feet below land-surface datum, 1946

Feb. 14	106.15	June 25	104.82	Oct. 4	104.23
Apr. 16	105.23	Aug. 8	104.49	Dec. 6	104.72

27/4-30A2 (*1027, p. 212). Don Schaffer. Taps water from Pleistocene pre-Vashon sand and gravel beds.

Water level, in feet below land-surface datum, 1946

Feb. 14	144.03	June 25	142.45	Oct. 4	142.04
Apr. 16	143.28	Aug. 8	142.12	Dec. 6	142.20

27/5-13L1 (*1027, p. 213). A. D. Crow. Taps water from Pleistocene pre-Vashon sand and gravel beds. Water levels, in feet below land-surface datum, 1946: Feb. 23, 115.78; Apr. 16, 116.83; June 25, 115.17; Aug. 10, 115.68. Measurements discontinued.

27/5-21D1 (*1027, p. 213). Vincent Nardon. Taps water from Pleistocene pre-Vashon sand and gravel beds.

Water level, in feet below land-surface datum, 1946

Feb. 23	86.22	June 25	83.97	Oct. 4	84.10
Apr. 16	85.60	Aug. 10	83.07	Dec. 6	85.85

28/4-13H1 (*1027, p. 213). A. H. Dorr. Taps water from sand and gravel interbed in Vashon till.

Water level, in feet below land-surface datum, 1946

Feb. 27	3.11	June 25	6.33	Oct. 4	8.92
Apr. 29	6.19	Aug. 10	7.76	Dec. 6	4.01

28/5-18D1 (*1027, p. 213). L. E. Sorenson. Water from Pleistocene pre-Vashon sand and gravel beds. Water levels, in feet below land-surface datum, 1946: Feb. 27, 189.90; June 25, 190.16. Measurements discontinued.

29/5-20D1 (*1027, p. 213). F. A. Franke. Water from Pleistocene pre-Vashon sand beds.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 27	118.93	June 25	118.55	Oct. 4	118.09
Apr. 29	118.97	Aug. 10	118.17	Dec. 6	118.25

28/6-22J1 (*1027, p. 213). C. B. Downing. Water from Pleistocene pre-Vashon sand and gravel beds.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 27	7.80	June 29	9.75	Oct. 4	9.75
Apr. 16	7.89	Aug. 10	9.12	Dec. 11	9.56

29/5-2F1 (Incorrectly numbered 2E1 in previous report) (*1027, p. 214). L. Falkner. Water from Pleistocene pre-Vashon gravel.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 1	110.04	July 3	110.04	Oct. 2	110.82
Apr. 16	109.73	Aug. 10	110.44	Dec. 11	111.12

30/5-8L1 (*1027, p. 214). B. M. Harrison. Water from Vashon outwash sand.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 1	3.29	June 25	4.54	Oct. 2	8.03
Apr. 16	3.07	Aug. 10	6.63	Dec. 9	5.59

30/5-22A1 (*1027, p. 214). G. Torie. Water from Vashon outwash sand and gravel.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Mar. 1	16.62	June 26	20.23	Oct. 2	22.20
Apr. 16	16.86	Aug. 10	21.50	Dec. 7	20.41

30/6-6N1 (*1027, p. 214). Mrs. S. E. Creeden. Water from perched body in pervious zones of Vashon till.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 27	0.86	June 26	1.27	Oct. 2	9.80
Apr. 12	2.32	Aug. 10	6.62	Dec. 7	1.09

30/6-10J1 (*1027, p. 214). C. C. Moen. Water from Vashon glacial outwash gravel.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 27	48.15	June 26	49.94	Oct. 2	52.22
Apr. 12	47.48	Aug. 10	51.09	Dec. 7	53.01

30/7-18L1 (*990, p. 233; 1020, p. 164; 1027, p. 215). City of Granite Falls. Taps water in glacial outwash gravel and sand along the Pilchuck River, a tributary of the Snohomish River. Measurements discontinued.

30/7-18N1 (*990, p. 233; 1020, p. 164; 1027, p. 215). City of Granite Falls. Taps water in glacial outwash along Pilchuck River. Measurements discontinued.

31/5-7B1 (*1027, p. 215). Peter Henning. Water from Recent alluvium.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 27	7.31	June 25	8.46	Oct. 2	10.56
Apr. 16	7.70	Aug. 10	9.88	Dec. 9	7.96

31/5-10J3 (*1027, p. 215). J. W. Monigar. Water from Pleistocene pre-Vashon sand.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Feb. 27	23.34	June 25	24.59	Oct. 2	27.29
Apr. 16	22.15	Aug. 10	26.85	Dec. 7	27.81

31/5-21N1 (*1027, p. 215). C. E. Edlund. Water from Vashon outwash sand.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Feb. 27	3.37	June 25	5.49	Oct. 2	7.97
Apr. 16	3.75	Aug. 10	6.64	Dec. 7	7.20

31/6-19E1 (*1027, p. 215). A. Anderson. Water from perched body in pervious zones of Vashon till.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Feb. 27	3.10	June 26	4.68	Oct. 2	12.06
Apr. 12	3.98	Aug. 10	7.76	Dec. 7	3.07

32/4-5Q1. Elmer Norgaard. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, T. 32 N., R. 4 E., about 200 feet east of road at point 2 miles north of Cedarhome, in frame shed. Drilled well, diameter 6 inches, depth about 149 feet. Water from regional water table in sub-till sand and gravel. Measuring point, top south side of steel casing, at land-surface datum, which is about 235 feet above sea level. Water levels, in feet below land-surface datum, 1946: Oct. 2, 128.25; Dec. 10, 128.90.

Spokane County

Columbia Plateau

24/41-10A1 (*948, p. 149; 990, p. 234; 1020, p. 164; 1027, p. 216). Delbert Kramer. Taps water in basalt. Considerable drawdown within short period of pumping, recovers slowly. Water levels, in feet below land-surface datum, 1946: Apr. 8, 33.86; Aug. 17, 37.23.

25/41-36R1 (*948, p. 150; 990, p. 234; 1020, p. 164; 1027, p. 216). J. D. Stark. Taps water in basalt. Water levels, in feet below land-surface datum, 1946: Apr. 8, 18.84; Aug. 17, 24.05.

25/42-13B1 (*886, p. 918; *889-B, pp. 93, 94; 910, p. 169; 940, p. 144; 948, p. 143; 990, p. 234; 1020, p. 164; 1027, p. 216). Washington Water Power Co. well 90. Empire Cold Storage Co. Taps water in fluvio-glacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	188.40	Apr. 9	186.20	Aug. 17	191.5 $\frac{1}{2}$	Nov. 4	193.42
Mar. 27	187.90	May 16	180.58				

25/42-14L1 (*948, p. 143; 990, p. 234; 1020, p. 164; 1027, p. 216). Riverside Park Cemetery Association. Taps water in gravel of fluvio-glacial outwash in Spokane Valley.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by maintenance employee)

Jan. 4	95.67	Mar. 20	94.62	May 31	88.00	Aug. 17	a 98.10
9	94.90	25	94.42	June 5	88.48	26	98.11
14	94.42	30	94.03	8	88.60	31	98.43
19	94.48	Apr. 4	93.33	15	89.44	Sept. 4	98.44
25	94.74	8 a	92.85	20	90.32	10	98.53
31	94.86	10	92.75	25	90.99	14	98.60
Feb. 4	94.94	15	92.51	29	91.68	20	98.57
9	95.10	20	92.09	July 3	92.34	25	98.71
16	95.47	25	91.27	9	93.16	28	98.70
19	95.65	30	90.36	15	93.88	30	98.70
25	95.87	May 4	89.67	24	95.37	Oct. 6	98.63
28	95.74	10	88.97	28	95.72	10	98.65
Mar. 4	95.58	14	88.39	Aug. 5	96.35	14	98.59
9	95.10	20	87.99	7	96.58	19	98.66
14	94.93	25	88.19	14	97.25	25	98.63

a By Geological Survey.

25/42-14L1--Continued.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by maintenance employees)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 31	98.72	Nov. 20	98.36	Dec. 4	96.24	Dec. 18	94.66
Nov. 4	98.72	25	97.97	9	95.90	24	92.83
8	98.62	30	97.03	13	95.72	31	92.35
14	98.50						

25/43-11G3 (*886, p. 919; 889, pp. 98, 99; 910, p. 170; 940, p. 145; 948, p. 144; 990, p. 235; 1020, p. 165; 1027, p. 216). City of Spokane Water Division well 3. Taps water in tongue of fluvioglacial gravel in Spokane Valley. Water level depressed somewhat by continuous withdrawal in this or adjacent wells.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by A. H. Schaefer, engineer)

Jan. 7	21.31	Apr. 8	a 19.78	July 15	28.50	Oct. 7	28.58
14	22.58	15	20.00	22	28.88	14	29.10
21	26.13	22	16.60	29	28.62	21	28.73
28	25.03	29	15.53	Aug. 5	29.20	28	28.84
Feb. 4	25.13	May 6	15.32	12	29.38	Nov. 4	27.72
11	25.43	13	14.70	16	a 29.90	11	27.51
18	26.50	20	16.35	19	29.65	18	28.21
25	26.48	27	17.33	26	29.78	25	23.03
Mar. 4	24.43	June 3	18.69	Sept. 2	30.11	Dec. 2	21.41
11	23.58	10	19.84	9	29.19	9	24.18
18	23.23	17	20.63	16	28.50	16	18.94
25	22.82	24	24.31	23	29.11	23	17.23
Apr. 1	20.67	July 1	25.82	30	29.03	30	23.88
8	20.63	8	27.03				

a By Geological Survey.

25/43-11G6 (886, p. 919; *889, pp. 101-107; 910, p. 171; 940, p. 146; 948, p. 145; 990, p. 236; 1020, p. 166; 1027, p. 217). City of Spokane Water Division "Gage well" 1. Taps water in fluvioglacial gravel in the Spokane Valley. Water level affected by pumping in adjacent wells. Water levels, in feet below land-surface datum, 1946: Apr. 8, 50.84; Aug. 16, 60.16.

25/43-11K1 (886, p. 920; *889-B, pp. 108-113; 910, p. 171; 940, p. 146; 948, p. 146; 990, p. 237; 1020, p. 166; 1027, p. 217). City of Spokane Water Division "Gage well" 2. Taps water in fluvioglacial gravel in the Spokane Valley. Water level moderately depressed by continuous withdrawal from distant wells. Water levels, in feet below land-surface datum, 1946: Apr. 8, 61.26; Aug. 16, 69.45.

25/43-14K1 (886, p. 920; *889-B, pp. 113, 114; 910, p. 172; 940, p. 147; 948, p. 146; 990, p. 236; 1020, p. 166; 1027, p. 217). Washington Water Power Co. well 3. Ohio Match Co. Taps water in fluvioglacial gravel in the Spokane Valley.

Water level, in feet below land-surface datum, 1946

Jan. 24	45.66	Apr. 8	42.56	Aug. 13	48.72	Nov. 5	48.72
Mar. 25	44.66	May 16	37.36	16	48.99	Dec. 19	41.49

25/43-17D1 (886, p. 921; *889-B, pp. 114, 115; 910, p. 172; 940, p. 147; 948, p. 146; 990, p. 237; 1020, p. 166; 1027, p. 217). Washington Water Power Co. well 88. New Method Laundry. Taps water in fluvioglacial gravel.

Water level, in feet below land-surface datum, 1946

Jan. 25	47.54	Apr. 9	46.01	Aug. 13	48.88	Nov. 5	50.04
Mar. 25	47.00	May 16	42.34	17	49.59	Dec. 19	45.26

25/44-2B1 (886, p. 921; *889-B, pp. 115-116; 910, p. 172; 940, p. 147; 948, p. 146; 990, p. 237; 1020, p. 166; 1027, p. 217). Washington Water Power Co. well 49. Trentwood Irrigation District. Taps water in fluvio-glacial gravel in the Spokane Valley.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Jan. 25	99.55	Mar. 27	99.20	Aug. 1	99.88
Mar. 27	98.50	May 16	91.20	Nov. 4	101.32
Dec. 19	96.50				

25/44-15E1 (*886, p. 921; 889-B, pp. 118, 119; 910, p. 173; 940, p. 147; 948, p. 147; 990, p. 237; 1020, p. 166; 1027, p. 217). Washington Water Power Co. well 15. Modern Electric Water Co. well 5. Taps water in fluvio-glacial 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, 1946 (From float-gage readings made by maintenance men)					
Jan. 5	132.85	Apr. 6	130.82	July 13	135.24
12	132.51	9	130.50	20	136.55
19	132.50	13	130.24	27	137.57
24	132.48	20	128.71	Aug. 1	137.96
26	132.74	27	127.82	3	138.41
Feb. 3	132.86	May 4	129.25	10	139.17
10	133.01	11	129.02	16	138.40
16	133.46	16	130.30	17	140.09
23	133.75	18	128.81	24	139.85
Mar. 2	133.41	25	128.68	31	140.78
9	132.92	June 8	126.98	Sept. 7	140.90
16	132.33	15	126.89	14	136.40
23	131.89	22	132.16	21	136.19
25	132.24	29	133.36	28	135.92
30	131.68	July 6	134.13	Oct. 5	135.80
Oct. 12	135.68				
19	135.56				
26	135.41				
Nov. 2	135.29				
4	135.74				
9	135.07				
16	134.93				
23	134.86				
30	134.11				
Dec. 7	133.74				
14	133.06				
18	131.36				
21	132.84				
28	132.13				

a By Geological Survey.

b By Washington Water Power Co.

25/44-19D1 (886, p. 921; *889-B, pp. 119-121; 910, p. 173; 940, p. 148; 948, p. 147; 990, p. 237; 1020, p. 167; 1027, p. 218). Washington Water Power Co. well 5. Edgecliff Sanitarium. Taps water in fluvio-glacial gravel in the Spokane Valley.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Jan. 24	77.41	Apr. 19	74.37	Aug. 1	78.73
Mar. 25	76.91	May 16	69.81	16	79.02
Nov. 4	80.36				
Dec. 19	75.13				

25/44-21J1 (886, p. 922; *889-B, pp. 121, 122; 910, p. 173; *940, p. 148; 948, p. 147; 990, p. 237; 1020, p. 167; 1027, p. 218). Washington Water Power Co. well 17. Modern Electric Water Co. well 3. Taps water in fluvio-glacial gravel in the Spokane Valley.

Water level, in feet below land-surface datum, 1946					
Date	Water level	Date	Water level	Date	Water level
Jan. 24	100.30	Apr. 9	98.36	Aug. 13	105.77
Mar. 25	100.00	May 16	93.69	16	106.27
Nov. 5	102.79				
Dec. 19	99.24				

25/44-22N1 (*948, p. 147; 990, p. 238; 1020, p. 167; 1027, p. 218). Modern Electric Water Co. well 7. Taps water in fluvio-glacial gravel in Spokane Valley. 300 gallon-a-minute pump operating in well.

Water level, in feet below land-surface datum, 1946 (From float-gage readings by R. Hagan, maintenance man)					
Jan. 2	144.83	Feb. 27	144.71	Apr. 9	141.77
9	144.12	Mar. 6	144.41	11	141.53
16	143.70	13	144.14	18	140.82
23	143.87	20	143.76	24	140.31
30	143.65	27	143.03	May 1	138.62
Feb. 7	144.01	Apr. 3	143.67	8	137.55
13	144.22	9	141.97	15	140.65
20	144.54	9	141.78	22	140.32
May 28	140.28				
June 5	140.41				
12	140.96				
19	142.04				
26	143.15				
July 3	144.20				
10	145.35				
17	146.10				

a By Geological Survey.

25/44-22N1--Continued.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by R. Hagan, maintenance man)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 24	147.01	Sept. 4	149.89	Oct. 17	145.90	Nov. 27	144.21
Aug. 7	148.21	11	145.29	24	145.96	Dec. 4	143.72
14	148.82	18	145.36	30	146.01	11	143.10
16	147.94	25	145.66	Nov. 6	145.92	18	142.67
21	149.34	Oct. 3	145.73	13	145.34	25	142.01
28	149.62	10	145.85	20	144.87		

a By Geological Survey.

25/44-23D1 (886, p. 922; *889-B, pp. 123, 124; 910, p. 173; 940, p. 148; 948, p. 148; 990, p. 238; 1020, p. 167; 1027, p. 219). Washington Water Power Co. well "L.A.L." Lewis A. Lewis. Taps water in fluvioglacial gravel in the Spokane Valley. Water levels, in feet below land-surface datum, 946: Feb. 1, 89.09; Apr. 9, 86.73; May 16, 77.93; Aug. 16, 81.05.

25/45-10C1 (886, p. 922; *889-B, p. 125; 910, p. 173; 940, p. 148; 948, p. 148; 990, p. 238; 1020, p. 168; 1027, p. 219). Washington Water Power Co. well 41. Mrs. George Clark. Taps water in fluvioglacial gravel in the Spokane Valley. Water level, in feet below land-surface datum, 1946: Aug. 15, 60.85.

25/45-16C1 (*886, p. 922; 889-B, pp. 126, 127; 910, p. 173; 940, p. 148; 948, p. 148; 990, p. 238; 1020, p. 168; 1027, p. 219). U. S. 70. Washington Water Power Co. well 38. Inland Empire Paper Co. Taps water in fluvioglacial gravel in the Spokane Valley.

Water level, in feet below land-surface datum, 1946
(From float-gage readings)

Jan. 4	105.48	Apr. 9	103.36	July 14	100.66	Oct. 12	105.90
11	105.56	16	102.95	21	101.46	13	105.94
18	105.76	23	101.46	28	102.14	20	106.22
25	105.83	30	100.59	Aug. 1	102.35	27	106.49
25	105.81	May 5	98.93	4	102.55	Nov. 3	106.73
Feb. 1	105.87	12	97.31	11	103.19	4	106.72
8	105.74	16	96.88	15	103.50	10	106.72
15	106.29	19	96.60	18	103.55	17	106.68
22	106.46	27	996.21	25	103.93	23	106.18
27	106.76	June 2	95.94	Sept. 1	104.22	Dec. 1	104.67
Mar. 8	106.24	9	96.26	8	104.39	8	104.65
15	105.96	16	96.89	15	104.49	15	103.40
22	105.45	23	98.12	22	105.02	18	103.08
25	105.38	28	98.71	28	105.34	22	102.01
29	105.00	July 7	99.89	Oct. 6	105.70	29	101.79
Apr. 5	103.85						

a By Geological Survey

b By 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; 1020, p. 168; 1027, p. 219). Washington Water Power Co. well 40. O. B. Nilson. Taps water in fluvioglacial gravel in the Spokane Valley.

Water level, in feet below land-surface datum, 1946

Jan. 25	90.30	May 16	81.64	Aug. 15	88.79	Dec. 19	87.39
Mar. 25	89.87	Aug. 13	89.39	Nov. 5	91.61		

26/43-7Q1 (*948, p. 149; 990, p. 239; 1020, p. 168; 1027, p. 219). C. E. Marr. Taps water in fluvioglacial gravel.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Feb. 1	76.80	Apr. 9	76.15	Aug. 16	75.65
Mar. 27	75.90	May 16	75.45	Nov. 4	75.85

26/43-16D1 (*1020, p. 168; 1027, p. 220). Defense Plant Corporation test well. Taps water in fluvioglacial gravel.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by company employees)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	161.22	Feb. 4	161.23	Mar. 4	160.84	Apr. 1	160.76
14	161.15	11	161.00	11	160.88	8	160.76
21	161.20	18	161.10	18	160.85	9	160.75
28	161.25	25	160.90	25	160.81	Aug. 16	160.64

a By Geological Survey.

26/43-19A1 (886, p. 923; *889-B, pp. 128, 129; 910, p. 174; 940, p. 149; 948, p. 149; 990, p. 239; 1020, p. 169; 1027, p. 220). Washington Water Power Co. well "C. H." Whitworth Water District No. 2. Taps water in fluvioglacial gravel. Small pump operating at time of each measurement.

Water level, in feet below land-surface datum, 1946
(From float-gage readings by A. O. Brown, observer)

Jan. 10	137.72	Apr. 9	136.89	July 5	134.96	Sept. 30	136.95
13	137.69	10	136.88	8	135.02	Oct. 1	136.95
15	137.68	15	136.80	10	135.05	5	136.98
20	137.55	20	136.65	15	135.17	10	137.08
25	137.53	25	136.61	20	135.22	15	137.16
28	137.44	29	136.60	25	135.40	20	137.24
Feb. 1	137.38	May 1	136.54	29	135.44	25	137.28
1	136.82	5	136.45	Aug. 1	135.52	30	137.35
5	137.34	10	136.35	5	135.62	Nov. 1	137.35
10	137.27	15	136.20	10	135.71	4	137.42
15	137.20	16	136.21	15	135.94	5	137.40
20	137.16	20	136.09	16	137.16	10	137.47
25	137.13	25	135.92	20	135.98	15	137.49
28	137.10	29	136.76	22	136.06	20	137.56
Mar. 1	137.10	June 1	135.58	25	136.19	25	137.60
5	137.05	5	135.45	28	136.22	29	137.64
10	137.02	10	135.37	Sept. 1	136.30	Dec. 1	137.64
15	137.03	15	135.18	5	136.41	5	137.63
20	137.02	20	135.06	10	136.50	10	137.59
25	137.00	25	135.00	15	136.58	15	137.58
27	136.48	27	134.97	20	136.65	20	137.51
Apr. 1	136.95	29	134.90	25	136.45	25	137.47
5	136.91	July 1	134.90				

a By Geological Survey,

b By Washington Water Power Co.

26/43-34P1 (886, p. 923; *889-B, pp. 129-131; 910, p. 174; 940, p. 149; 948, p. 149; 990, p. 240; 1020, p. 170; 1027, p. 220). Washington Water Power Co. well 80. Great Northern Railway Co. Taps water in fluvioglacial gravel. Water levels, in feet below land-surface datum, 1946: Apr. 9, 174.86; Aug. 16, 177.42.

26/44-32R1 (886, p. 923; *889-B, p. 131; 910, p. 175; 940, p. 149; 990, p. 240; 1020, p. 170; 1027, p. 220). Washington Water Power Co. well 46. Hutton Settlement. Taps water in fluvioglacial gravel in Spokane Valley.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 25	98.14	Apr. 8	97.62	Nov. 4	100.69
Mar. 25	100.86	May 16	93.22	Dec. 19	97.96

Thurston County

Alluvial and glacial plains of the Puget Trough

16/1W-19G1 (*990, p. 240; 1020, p. 170; 1027, p. 221). Town of Tenino. Taps water in gravel in fluvioglacial deposits. Water levels, in feet below land-surface datum, 1946: Jan. 2, 3.29; Mar. 8, 5.62; Aug. 21, 9.09; Oct. 25, 8.62.

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; 1020, p. 170; 1027, p. 221). Claude Winn. Taps water in alluvial deposit of the Little Walla Walla River.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 20	5.30	May 18	5.34	Aug. 22	6.80	Nov. 25	4.38
Mar. 16	5.30	June 26	5.38	Sept. 20	5.36	Dec. 22	4.94
Apr. 19	5.24	July 19	5.11	Oct. 21	3.93		

Whatcom County

Alluvial and glacial plains of the Puget Trough

39/2E-25R1. J. W. Elsabee. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 39 N., R. 2 E., in northwest quadrant of intersection of Smith and Meridian Roads, in frame pump house behind dwelling. Dug well, diameter 24 inches, depth 57 feet. Measuring point, top west side of concrete tile casing, 9.1 feet below land-surface datum, which is about 165 feet above sea level. Water levels, in feet below land-surface datum, 1946: Aug. 9, 56.60; Oct. 11, 56.80; Nov. 14, 56.73.

40/1-4J1 (*990, p. 241; 1020, p. 170; 1027, p. 221). City of Blaine. Taps water in fluvioglacial deposits (?). Water levels, in feet below land-surface datum, 1946: July 3, 75.23; Oct. 3, 69.36.

41/1-31Q1 (*990, p. 241). City of Blaine. Taps artesian (flowing) water in glacial deposits. Measurements resumed.

Water level, in feet below land-surface datum, 1944-46

Date	Water level	Date	Water level	Date	Water level
Apr. 26, 1944	18.4	May 17, 1945	13.5	July 3, 1946	21.0
Sept. 26	17.6	Oct. 4	19.2	Oct. 3	20.5

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; 1020, p. 170; 1027, p. 221). Emory Crawford. Confined water (artesian) in basalt. Water levels, in feet below land-surface datum, 1946: Apr. 7, 44.88; Aug. 19, 46.50; Oct. 12, 46.65.

14/45-5B1 (*845, p. 710; 886, p. 928; 910, p. 179; 940, p. 151; 948, p. 153; 990, p. 241; 1020, p. 170; 1027, p. 221). Washington State College well 1. Confined water in basalt. Water levels, in feet below land-surface datum, 1946: Apr. 8, 27.80; Aug. 19, 30.82; Oct. 12, 29.54.

14/45-5D2 (*845, p. 711; 886, p. 928; 910, p. 179; 940, p. 151; 948, p. 153; 990, p. 242; 1020, p. 170; 1027, p. 221). Standard Lumber Co. Taps confined water (artesian), in basalt. Water levels, in feet below land-surface datum, 1946: Apr. 8, 0.98; Aug. 19, 2.77; Oct. 12, 2.87.

14/45-11N2 (*840, p. 633; 845, p. 696; 886, p. 925; 910, p. 150; 948, p. 150; 990, p. 242; 1020, p. 170; 1027, p. 221). Geological Survey, U. S. Dept. of Interior. Water-table well. Water levels, in feet below land-surface datum, 1946: Apr. 7, 3.29; Aug. 19, 7.18; Oct. 12, 7.11.

15/46-20K1 (*777, pp. 261, 262; 817, pp. 488, 490, 491; *840, pp. 628, 630; 845, p. 690; 948, p. 150; 990, p. 244; 1020, p. 170; 1027, p. 221). J. D. Carson. Water-table well. Water levels, in feet below land-surface datum, 1946: Aug. 19, 7.10; Oct. 12, 7.42.

18/43-35P1 (*990, p. 244; 1020, p. 171; 1027, p. 221). G. H. Noe.
Taps confined water in basalt. Water levels, in feet below land-surface
datum, 1946: Apr. 8, 7.54; Aug. 19, 12.70; Oct. 12, 13.71.

WYOMING

By D. A. Warner

PROGRAM OF WORK

Periodic measurements of water level in observation wells in Wyoming were continued in 1946 in cooperation with the Wyoming State Engineer and the city of Cheyenne through the Wyoming State Planning and Water Conservation Board.

In the fall of 1942 eight observation wells in different parts of the State were selected to serve as key wells in the Nation-wide network of observation wells being maintained by the Geological Survey. The wells are near Geological Survey stream-gaging stations in order that comparisons might be made between the ground-water levels and the stages of the streams. One well is in the valley of the North Platte River at Fort Laramie, Goshen County; two are in the Sweetwater River Valley, Natrona County; one is in the valley of the Popo Agie River near Hudson, Fremont County; one is in the valley of the Belle Fourche River near Hulett, Crook County; one is in the upper part of the Green River Basin near Daniel, Sublette County; and two are in the valley of Crow Creek, Laramie County. The water levels in the wells in Goshen and Natrona Counties are measured monthly by engineers in the employ of the State through the courtesy of Mr. L. C. Bishop, State Engineer. The wells in Crook, Fremont, and Sublette Counties are measured monthly by engineers from the Denver office of the division of surface water of the Geological Survey, through the courtesy of Robert Follansbee, district engineer. The descriptions and water-level measurements for six of the eight key wells are given for the first time in this report.

At the beginning of 1946, 229 wells were being measured and at the end of 1946, 195 wells were being measured. During the year 609 individual water-level measurements were made. Most of the wells were observed at about monthly intervals, but automatic water-stage recorders were operated on two wells in the Egbert-Pine Bluffs-Carpenter area and on one well in the Cheyenne area.

FLUCTUATIONS OF WATER LEVEL

A general description of the two areas under study in Laramie County is given in Water-Supply Paper 990, pages 246-251.

Crook, Goshen, Fremont, and Sublette Counties

The observation wells in these counties penetrate alluvial deposits near the banks of streams, and the water levels in these wells fluctuated in response to fluctuations in the stages of the streams and to seasonal differences in precipitation.

Laramie County

Egbert-Pine Bluffs-Carpenter area

In the Egbert-Pine Bluffs part of the Egbert-Pine Bluffs-Carpenter area there was an average decline in water level of 0.53 foot from December 1945 to December 1946 in 18 wells penetrating the Brule formation. This decline may be attributed, in part, to increased pumping from wells in 1946, and, in part, to the fact that the precipitation in 1946 was 3.85 inches less than in 1945. The water-levels in the upland wells fluctuated very little.

In the Carpenter area the water levels in wells penetrating the Brule formation declined 0.12 foot; the water levels in wells on the bench declined 0.17 foot, and there was no net change in water level in wells on the uplands.

Cheyenne area

The water levels in individual wells in the Cheyenne well field are rarely comparable to those in others 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 has been downward and in 1946 this downward trend continued.

WELL-NUMBERING SYSTEM

An explanation of the well-numbering system used in this report may be found in Water-Supply Paper 990, pages 251-252. The numbers by which the eight key observation wells are designated in the Nation-wide network are also given.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Albany County

Laramie area

(Measurements discontinued in wells in Albany County on Jan. 1, 1946.)

Crook County

54-64-7bc. U. S. 145. S. J. Brimmer. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 54 N., R. 64 W. At northwest corner of intersection, one block east of hotel, in Hulett. Dug well, depth 20.15 feet. Aquifer, alluvium. Measuring point, top of piece of automobile spring set in concrete cover over well, at land-surface datum.

Water level, in feet below land-surface datum, 1942-46

Date	Water level	Date	Water level	Date	Water level
Sept. 23, 1942	15.27	Apr. 4, 1944	14.11	Aug. 11, 1945	15.29
Nov. 18	15.15	20	14.05	Oct. 18	15.22
Mar. 18, 1943	14.58	May 16	14.52	Nov. 20	15.70
Apr. 9	14.13	June 8	13.76	Jan. 10, 1946	16.06
May 5	14.71	July 21	13.78	Feb. 13	16.08
June 10	15.10	Aug. 23	14.68	Mar. 25	16.13
30	14.63	Oct. 4	15.20	Apr. 18	16.09
July 23	15.01	Nov. 7	15.38	May 27	15.89
Aug. 20	15.21	Jan. 18, 1945	15.22	June 28	14.75
Sept. 23	15.20	Mar. 1	15.19	July 22	15.05
Oct. 20	15.38	23	14.62	Aug. 23	15.44
Nov. 17	15.48	Apr. 26	15.01	Oct. 29	15.02
Jan. 6, 1944	15.28	June 5	15.17	Nov. 19	15.14
Feb. 27	15.40	22	15.33	Dec. 12	15.41
Mar. 30	14.48				

Fremont County

34-98-32baa. U. S. 143. Alfonso Biasibetti. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, T. 34 N., R. 98 W. Abandoned dug well, equipped with hand pump, depth 34.89 feet. Aquifer, alluvium. Measuring point, bottom edge of pump base, north side, 1.27 feet above land-surface datum.

Water level, in feet below land-surface datum, 1942-46

Sept. 8, 1942	17.06	Apr. 6, 1944	21.47	Feb. 8, 1945	23.97
Nov. 18	20.50	24	23.39	Apr. 28	20.78
30	21.25	May 5	23.59	June 19	19.03
Jan. 5, 1943	22.91	29	23.75	July 5	19.59
Mar. 3	24.16	June 16	24.23	27	16.97
May 13	26.25	July 6	23.92	Sept. 4	17.77
July 8	16.43	21	19.51	Feb. 4, 1946	23.88
28	15.43	Aug. 3	19.63	Mar. 25	24.83
Sept. 22	17.07	22	a 16.32	Apr. 11	25.11
Oct. 12	17.32	Sept. 15	a 17.05	May 20	20.55
Nov. 10	17.71	28	18.65	July 15	a 17.34
Jan. 7, 1944	22.34	Oct. 27	19.71	Sept. 9	18.07
Feb. 8	23.64	Nov. 25	21.59	Oct. 18	20.64
Mar. 17	21.68	Jan. 2, 1945	23.30	Nov. 22	22.72

a Nearby irrigation ditch flowing.

Goshen County

26-64-29ada. U. S. 140. National Park Service, U. S. Dept. of Interior. NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 26 N., R. 64 W. Unused dug well, equipped with hand pump, depth 42.55 feet. Aquifer, alluvium. Measuring point, crack in top of platform south of pump, 0.75 foot above land-surface datum.

Water level, in feet below land-surface datum, 1942-43, 1946

Sept. 22, 1942	17.79	Feb. 27, 1943	18.51	Oct. 8, 1946	17.65
Nov. 6	18.23	Aug. 27, 1946	18.00	Nov. 18	18.18
Dec. 1	17.20	Sept. 13	17.47	Dec. 23	18.54
Jan. 13, 1943	18.22				

Laramie County

Cheyenne area

15-67-32dba (*948, p. 179; 990, p. 258; 1020, p. 177; 1027, p. 225). Warren Livestock Co. NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, T. 15 N., R. 67 W. No measurements made in 1946.

15-68-30cd (*948, p. 180; 990, p. 258; 1020, p. 177; 1027, p. 225). Warren Livestock Co. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 15 N., R. 68 W. No measurements made in 1946.

15-68-33ab (*948, p. 181; 990, p. 258; 1020, p. 177; 1027, p. 225). Warren Livestock Co. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 33, T. 15 N., R. 68 W. No measurements made in 1946.

15-68-34aa (*948, p. 179; 990, p. 258; 1020, p. 177; 1027, p. 225). Warren Livestock Co. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T. 15 N., R. 68 W. No measurements made in 1946.

15-69-5abd (*990, p. 258; 1020, p. 177; 1027, p. 225). City of Cheyenne. SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-5ddb (*990, p. 259; 1020, p. 177; 1027, p. 225). City of Cheyenne. NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-6abb (*948, p. 182; 990, p. 259; 1020, p. 177; 1027, p. 225). King Merritt. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-6acc (*948, p. 182; 990, p. 259; 1020, p. 177; 1027, p. 225). City of Cheyenne. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-6bdb (*948, p. 182; 990, p. 259; 1020, p. 178; 1027, p. 225). King Merritt. NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-6ddd (*990, p. 259; 1020, p. 178; 1027, p. 225). King Merritt. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-8cbc (*948, p. 181; 990, p. 259; 1020, p. 178; 1027, p. 225). City of Cheyenne. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-9aaa (*948, p. 180; 990, p. 259; 1020, p. 178; 1027, p. 225). King Merritt. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-9caa (*948, p. 179; 990, p. 260; 1020, p. 178; 1027, p. 225). City of Cheyenne. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-10cd (*948, p. 180; 990, p. 260; 1020, p. 178; 1027, p. 226). Mr. Van Tassel. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-12cc (*948, p. 180; 990, p. 260; 1020, p. 178; 1027, p. 226). E. A. Goodman. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-15abb (*990, p. 260; 1020, p. 178; 1027, p. 226). City of Cheyenne. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 15, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-18ddd (*948, p. 179; 990, p. 260; 1020, p. 178; 1027, p. 226). Mr. Lorenz. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-21abb (*948, p. 181; 990, p. 260; 1020, p. 178; 1027, p. 226). City of Cheyenne. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 15 N., R. 69 W. No measurements made in 1946.

15-69-24bb (*948, p. 180; 990, p. 260; 1020, p. 178; 1027, p. 226). E. A. Goodman. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T. 15 N., R. 69 W. No measurements made in 1946.

14-66-31bd (*948, p. 181; 990, p. 260; 1020, p. 178; 1027, p. 226). U. S. 67. State Capitol well. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 31, T. 14 N., R. 66 W. No measurements made in 1946.

14-67-10ccc (*940, p. 168; 948, p. 175; 990, p. 261; 1020, p. 178; 1027, p. 226). City of Cheyenne. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 14 N., R. 67 W. No measurements made in 1946.

14-67-31bbd (*940, p. 167; 948, p. 175; 990, p. 261; 1020, p. 178; 1027, p. 226). Mark T. Cox, III. SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 31, T. 14 N., R. 67 W. No measurements made in 1946.

14-67-36ccc (*940, p. 167; 948, p. 175; 990, p. 261; 1020, p. 178; 1027, p. 226). Curtis Vaughn. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 36, T. 14 N., R. 67 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 39.04; July 7, 39.77.

14-68-2dd (*948, p. 179; 990, p. 261; 1020, p. 178; 1027, p. 226). Fred Koster. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T. 14 N., R. 68 W. No measurements made in 1946.

14-68-14cb (U. S. 66) (*940, p. 167; 948, p. 174; 990, p. 261; 1020, p. 179; 1027, p. 226). City of Cheyenne. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 8.56; Mar. 1, 8.54; May 13, 8.56; July 7, 8.71.

14-68-17dcd (*940, p. 166; 948, p. 173; 990, p. 261; 1020, p. 179; 1027, p. 226). City of Cheyenne. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Mar. 2, 7.33; May 13, 6.68; July 5, 6.94.

14-68-20abc (*940, p. 166; 948, p. 173; 990, p. 261; 1020, p. 179; 1027, p. 226). City of Cheyenne. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 20, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Mar. 2, 9.98; May 13, 9.93; July 7, 10.18.

14-68-20bab (*940, p. 166; 948, p. 173; 990, p. 261; 1020, p. 179; 1027, p. 226). City of Cheyenne. NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Mar. 2, 20.76; May 13, 26.77.

14-68-20bbb (*940, p. 166; 948, p. 173; 990, p. 261; 1020, p. 179; 1027, p. 226). City of Cheyenne. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Mar. 2, 9.94; May 13, 12.53.

14-68-20bbc (*940, p. 165; 948, p. 173; 990, p. 262; 1020, p. 179; 1027, p. 226). City of Cheyenne. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 14 N., R. 68 W. No measurements made in 1946.

14-68-23ddc (*940, p. 162; 948, p. 170; 990, p. 262; 1020, p. 179; 1027, p. 227). City of Cheyenne. SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 14 N., R. 68 W. Water level, in feet below land-surface datum, 1946: May 13, 67.45.

14-68-23ddd (*940, p. 162; 948, p. 170; 990, p. 262; 1020, p. 179; 1027, p. 227). City of Cheyenne. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 9.66; Feb. 26, 12.00; May 13, 9.92.

14-68-25aba (*940, p. 164; 948, p. 171; 990, p. 262; 1020, p. 179; 1027, p. 227). City of Cheyenne. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 14 N., R. 68 W. No measurements made in 1946.

14-68-25bcb. City of Cheyenne. NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, T. 14 N., R. 68 W. Used drilled municipal well, diameter 12 inches, depth 334 feet. Measuring point, hole in base of pump, west side, 0.85 foot above land-surface datum. Water levels, in feet below land-surface datum, 1946: Jan. 28, 24.53; May 13, 33.77.

14-68-25dda (*940, p. 164; 948, p. 171; 990, p. 262; 1020, p. 179; 1027, p. 227). City of Cheyenne. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 32.10; May 13, 42.51.

14-68-26bdd2 (*1027, p. 227). City of Cheyenne. SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: May 13, 35.85. Pumping prior to measurement.

14-68-26cbb (*940, p. 163; 948, p. 171; 990, p. 262; 1020, p. 180; 1027, p. 227). City of Cheyenne. NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 67.15; Feb. 26, 68.13; May 13, 68.50; July 7, 67.83.

14-68-26bcl (*940, p. 162; 948, p. 170; 990, p. 262; 1020, p. 180; 1027, p. 227). City of Cheyenne. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 14 N., R. 68 W. Water level, in feet below land-surface datum, 1946: May 13, 30.81.

14-68-26db (*940, p. 171; 948, p. 178; 990, p. 262; 1020, p. 180; 1027, p. 227). Rex Crews. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 14 N., R. 68 W. No measurements made in 1946.

14-68-26dd (*940, p. 171; 948, p. 178; 990, p. 262; 1020, p. 180; 1027, p. 227). Irvin O'Connor. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 14 N., R. 68 W. No measurements made in 1946.

14-68-27dcc (*940, p. 162; 948, p. 169; 990, p. 263; 1020, p. 180; 1027, p. 227). City of Cheyenne. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 49.74; May 13, 54.00.

14-68-28bb (*948, p. 179; 990, p. 263; 1020, p. 180; 1027, p. 228). Arthur Francis. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, T. 14 N., R. 68 W. No measurements made in 1946.

14-68-30daa (*940, p. 171; 948, p. 178; 990, p. 263; 1020, p. 180; 1027, p. 228). Irvin O'Connor. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 30, T. 14 N., R. 68 W. No measurements made in 1946.

14-68-33dcc (*1027, p. 228). City of Cheyenne. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 139.98; Feb. 26, 140.06; Mar. 23, 140.37.

14-68-34aab (*940, p. 162; 948, p. 169; 990, p. 263; 1020, p. 180; 1027, p. 228). City of Cheyenne. NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 38.67; May 13, 39.75.

14-68-34ccb (*990, p. 263; 1020, p. 180; 1027, p. 228). City of Cheyenne. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 28	72.69	Mar. 1	73.59	July 5	72.23
Feb. 26	73.55	May 13	71.93		

14-68-34ddd (*1020, p. 180; 1027, p. 228). City of Cheyenne. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Jan. 28	87.37	Mar. 23	88.58	July 5	86.68
Feb. 26	88.27	May 13	86.19	Nov. 7	86.29

14-68-35cbc (*1027, p. 228). City of Cheyenne. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 28	78.43	May 13	75.55	Oct. 4	76.90
Feb. 26	80.25	July 5	76.14	Nov. 7	77.24

14-68-35cdd (*1027, p. 228). City of Cheyenne. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 28	68.93	May 13	67.67	Oct. 4	68.20
Feb. 26	70.34	July 5	68.45	Nov. 7	69.85

14-68-36aac (*1020, p. 181; 1027, p. 228). Arthur King. SW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 14 N., R. 68 W. No measurements made in 1946.

14-68-36ad (*940, p. 164; 948, p. 172; 990, p. 263; 1020, p. 181; 1027, p. 228). City of Cheyenne. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 14 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 1	37.78	July 5	33.78	Nov. 7	33.12
May 13	33.32	Oct. 4	37.52		

14-68-36ac (*940, p. 165; 948, p. 172; 990, p. 263; 1020, p. 181; 1027, p. 229). City of Cheyenne. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Mar. 1, 28.36; May 13, 33.52; July 5, 31.76; Nov. 7, 31.79.

14-68-36bc (*940, p. 165; 948, p. 172; 990, p. 263; 1020, p. 181; 1027, p. 229). City of Cheyenne. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36, T. 14 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: May 13, 31.84; July 5, 30.05; Nov. 7, 33.30.

13-66-18ad (*948, p. 179; 990, p. 263; 1020, p. 181; 1027, p. 229). P. J. Black Lumber Co. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 13 N., R. 66 W. No measurements made in 1946.

13-66-32ad (*948, p. 178; 990, p. 263; 1020, p. 181; 1027, p. 229). Dorin Lumis. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 13 N., R. 66 W. No measurements made in 1946.

13-66-32cad (*940, p. 168; 948, p. 176; 990, p. 264; 1020, p. 181; 1027, p. 229). W. J. Merna. SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 13 N., R. 66 W. No measurements made in 1946.

13-67-2da (*948, p. 178; 990, p. 264; 1020, p. 181; 1027, p. 229). Bresnahan Estate. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-6add (*940, p. 167; 948, p. 175; 990, p. 264; 1020, p. 181; 1027, p. 229). A. L. King. SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-6daa (*940, p. 167; 948, p. 175; 990, p. 264; 1020, p. 181; 1027, p. 229). A. L. King. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-6ddd (*940, p. 167; 948, p. 175; 990, p. 264; 1020, p. 181; 1027, p. 229). A. L. King. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-11aaa (*940, p. 170; 948, p. 177; 990, p. 264; 1020, p. 181; 1027, p. 229). J. J. Brannigan. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-13bb (*940, p. 170; 948, p. 177; 990, p. 264; 1020, p. 181; 1027, p. 229). Warren Livestock Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-15aa (*940, p. 170; 948, p. 176; 990, p. 264; 1020, p. 181; 1027, p. 229). Warren Livestock Co. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 15, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-15bb (*940, p. 168; 948, p. 176; 990, p. 264; 1020, p. 181). Warren Livestock Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 13 N., R. 67 W. No measurements made in 1946. Measurements discontinued.

13-67-16ab (*940, p. 169; 948, p. 176; 990, p. 264; 1020, p. 182; 1027, p. 229). Warren Livestock Co. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-19ca (*940, p. 170; 948, p. 177; 990, p. 264; 1020, p. 182; 1027, p. 229). Warren Livestock Co. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-21bd (*940, p. 170; 948, p. 177; 990, p. 264; 1020, p. 182; 1027, p. 229). Warren Livestock Co. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-27bb (*940, p. 171; 948, p. 177; 990, p. 265; 1020, p. 182; 1027, p. 230). Warren Livestock Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 13 N., R. 67 W. No measurements made in 1946.

13-67-33ac1 (*940, p. 168; 948, p. 176; 990, p. 265; 1020, p. 182; 1027, p. 230). Union Pacific Railroad. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 33, T. 13 N., R. 67 W. No measurements made in 1946.

13-68-3bba (*1020, p. 182; 1027, p. 230). City of Cheyenne. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T. 13 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	78.35	Mar. 23	78.77	May 13	78.23	Nov. 7	78.70
Feb. 26	78.55	24	78.21	July 5	78.50		

13-68-4aad (*1020, p. 182; 1027, p. 230). City of Cheyenne. SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 13 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 28	74.54	Mar. 23	74.83	July 5	74.76
Feb. 26	74.51	May 13	74.57	Nov. 7	75.17

13-68-4acd (*1020, p. 182; 1027, p. 230). City of Cheyenne. SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 13 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 98.87; Feb. 26, 99.05.

13-68-4cbe (*1027, p. 230). City of Cheyenne. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T. 13 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 169.45; Feb. 26, 169.28; Mar. 23, 170.52.

13-68-4dbb (*948, p. 181; 990, p. 265; 1020, p. 182; 1027, p. 230). Arthur King. NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 4, T. 13 N., R. 68 W. No measurements made in 1946.

13-68-4dcc (*1027, p. 230). City of Cheyenne. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 4, T. 13 N., R. 68 W. Water levels, in feet below land-surface datum, 1946: Jan. 28, 120.10; Feb. 26, 118.34; Mar. 23, 118.64.

13-68-8cb (*948, p. 181; 990, p. 265; 1020, p. 182; 1027, p. 230). Bert McGee. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 13 N., R. 68 W. No measurements made in 1946.

13-68-13cc (*948, p. 181; 990, p. 265; 1020, p. 183; 1027, p. 230). James Morton. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 13 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Jan. 28	37.51	May 13	37.62	Oct. 4	37.71
Feb. 26	37.54	July 5	37.89		

13-68-14aad (*1020, p. 183; 1027, p. 231). City of Cheyenne.
SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 13 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 28	52.04	May 13	52.82	Oct. 4	52.61
Feb. 26	52.44	July 5	53.46		

13-68-14add (*1027, p. 231). Patrick Finnerty. SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 13 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 28	72.24	May 13	73.47	Oct. 4	72.98
Feb. 26	72.44	July 5	71.99		

13-68-14bbb (*1027, p. 231). City of Cheyenne. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 13 N., R. 68 W.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	83.15	Jan. 26	83.18	Feb. 27	83.11	Mar. 31	83.35
2	83.09	27	83.10	28	83.06	Apr. 1	83.37
3	83.02	28	83.20	Mar. 1	83.30	15	83.52
4	82.92	29	82.90	2	83.37	16	83.56
5	82.70	30	83.10	3	83.09	17	83.57
6	83.06	31	83.18	4	83.30	18	83.53
7	83.19	Feb. 1	83.23	5	83.15	19	83.47
8	83.11	2	83.23	6	83.11	20	83.41
9	83.30	3	83.16	7	83.44	21	83.43
10	83.13	4	83.01	8	83.47	22	83.51
11	83.21	5	83.06	11	83.32	May 10	83.44
12	83.35	6	83.21	12	83.22	11	83.43
13	83.30	7	83.16	13	83.27	12	83.37
14	83.22	8	83.20	20	83.24	13	83.29
15	83.23	9	83.24	21	83.21	14	83.39
16	83.18	10	83.24	22	83.32	15	83.46
17	83.31	11	83.10	23	83.36	16	83.46
18	83.13	19	83.50	24	83.21	17	83.48
19	83.02	20	83.28	25	83.37	18	83.41
20	83.07	21	83.36	26	83.45	19	83.57
21	83.18	22	83.40	27	83.44	20	83.59
22	83.05	23	83.48	28	83.30	21	83.44
23	83.16	24	83.36	29	83.25	22	83.34
24	83.06	25	83.05	30	83.43	23	83.37
25	83.92	26	83.12				

13-68-14cbb (*1027, p. 232). City of Cheyenne. NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 13 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 28	42.73	May 13	42.79	Oct. 4	42.87
Feb. 26	42.63	July 5	42.12	Nov. 7	42.88

13-68-14ddd (*1020, p. 183; 1027, p. 232). City of Cheyenne.
SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 13 N., R. 68 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 28	71.65	May 13	72.03	Oct. 4	72.00
Feb. 26	71.94	July 5	73.37	Nov. 7	74.52

13-68-15cdb (*1020, p. 183; 1027, p. 232). Mrs. A. L. Boyce.
NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 13 N., R. 68 W. No measurements made in 1946.

13-68-18ab (*940, p. 171; 948, p. 178; 990, p. 265; 1020, p. 183; 1027, p. 232). William Conrad. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 13 N., R. 68 W. No measurements made in 1946.

13-68-31cc (*940, p. 171; 948, p. 178; 990, p. 265; 1020, p. 183; 1027, p. 232). Warren Livestock Co. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 13 N., R. 68 W. No measurements made in 1946.

13-69-11ad (*948, p. 178; 990, p. 265; 1020, p. 183; 1027, p. 232). Bert McGee. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 13 N., R. 69 W. No measurements made in 1946.

13-69-12ad (*948, p. 179; 990, p. 265; 1020, p. 183; 1027, p. 232). Bert McGee. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 13 N., R. 69 W. No measurements made in 1946.

13-69-24dd (*948, p. 181; 990, p. 265; 1020, p. 183; 1027, p. 232). Warren Livestock Co. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 13 N., R. 69 W. No measurements made in 1946.

13-69-34dd (*940, p. 171; 948, p. 178; 990, p. 265; 1020, p. 183; 1027, p. 232). Warren Livestock Co. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 13 N., R. 69 W. No measurements made in 1946.

12-65-6ab (*940, p. 172; 948, p. 178; 990, p. 265; 1020, p. 183; 1027, p. 232). Owner unknown. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T. 12 N., R. 65 W. No measurements made in 1946.

12-67-5ddd (*940, p. 170; 948, p. 177; 990, p. 265; 1020, p. 183; 1027, p. 232). Warren Livestock Co. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, T. 12 N., R. 67 W. No measurements made in 1946.

12-67-11ba (*940, p. 170; 948, p. 177; 990, p. 265; 1020, p. 183; 1027, p. 232). Warren Livestock Co. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 12 N., R. 67 W. No measurements made in 1946.

12-68-1dc (*940, p. 168; 948, p. 177; 990, p. 265; 1020, p. 183; 1027, p. 232). Warren Livestock Co. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T. 12 N., R. 68 W. No measurements made in 1946.

Laramie County

Egbert-Pine Bluffs--Carpenter area

15-60-8cb (*910, p. 182; 940, p. 158; 948, p. 162; 990, p. 265; 1020, p. 184; 1027, p. 232). Victor Sundlin. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	88.54	Mar. 29	88.64	Dec. 16	89.25
Mar. 5	88.60	Apr. 24	88.71		

15-60-29bbb (*1027, p. 233). W. T. Young. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	56.30	Mar. 29	56.56	July 9	57.24	Dec. 16	57.86
Mar. 5	56.43	Apr. 24	56.70	Oct. 5	58.78		

15-60-30cb (*910, p. 183; 940, p. 159; 948, p. 163; 990, p. 266; 1020, p. 184; 1027, p. 233). Mary A. Simpson. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	43.16	Mar. 29	43.28	July 8	43.51
Mar. 5	43.21	Apr. 24	43.38		

15-60-31add (*990, p. 266; 1020, p. 184). Moritz Floy. SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 15 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	57.52	Mar. 29	57.52	July 9	57.66
Mar. 5	57.45	Apr. 24	57.57	Dec. 16	60.27

15-60-32ab (*910, p. 184; 940, p. 161; 948, p. 165; 990, p. 266; 1020, p. 184; 1027, p. 233). W. T. Young. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 15 N., R. 60 W.

Daily noon water level, in feet below land-surface datum, 1946

(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.68	46.61	46.55	46.65	47.08	47.51	.....	48.74	49.56	49.10	50.18	49.23
2	46.67	46.62	46.53	46.64	47.14	47.55	.....	48.80	49.53	49.14	50.21	49.18
3	46.66	46.62	46.53	46.67	47.15	47.57	.....	48.88	49.50	49.21	50.20	49.16
4	46.65	46.60	46.54	46.67	47.16	47.55	.....	48.96	49.49	49.20	50.17	.....
5	46.63	46.62	46.53	46.67	47.19	47.54	.....	49.05	49.45	49.20	50.13	.....
6	46.66	46.61	46.53	46.67	47.23	47.51	.....	49.12	49.40	49.22	50.10	.....
7	46.65	46.60	46.57	46.68	47.23	47.51	.....	49.20	49.34	49.25	50.04	.....
8	46.65	46.63	46.56	46.68	47.26	47.54	.....	49.30	49.29	49.26	50.01	.....
9	46.66	46.61	46.54	46.67	47.33	47.55	47.55	49.40	49.23	49.30	49.96	.....
10	46.64	46.60	46.58	46.70	47.35	47.55	47.60	49.49	49.19	49.35	49.94	.....
11	46.65	46.60	46.62	46.71	47.33	47.55	47.64	49.58	49.15	49.37	49.90	.....
12	46.66	46.60	46.61	46.70	47.29	47.53	47.70	49.66	49.12	49.41	49.87	.....
13	46.65	46.61	46.61	46.70	47.23	47.53	47.78	49.75	49.08	49.44	49.84	.....
14	46.64	46.62	46.60	46.70	47.27	.....	47.83	49.83	49.05	49.47	49.80	.....
15	46.65	46.60	46.62	46.71	47.33	.....	47.94	49.90	49.02	49.51	49.75	.....
16	46.64	46.63	46.63	46.71	47.40	.....	48.00	49.96	48.98	49.55	49.73	48.84
17	46.64	46.62	46.66	46.71	47.45	.....	48.07	50.04	48.96	49.60	49.70	48.84
18	46.64	46.61	46.66	46.71	47.44	.....	48.17	50.13	48.93	49.63	49.65	48.80
19	46.63	46.62	46.65	46.70	47.44	.....	48.24	50.20	48.90	49.65	49.61	48.76
20	46.61	46.60	46.65	46.70	47.42	.....	48.28	50.24	48.88	49.70	49.56	48.75
21	46.62	46.61	46.65	46.72	47.36	.....	48.31	50.17	48.87	49.73	49.52	48.74
22	46.62	46.60	46.65	46.74	47.40	.....	48.34	50.07	48.87	49.77	49.50	48.70
23	46.60	46.60	46.65	46.74	47.51	.....	48.38	49.97	48.89	49.82	49.47	48.69
24	46.62	46.58	46.65	46.74	47.61	.....	48.45	49.88	48.90	49.86	49.40	48.68
25	46.59	46.55	46.66	46.75	47.66	.....	48.51	49.81	48.93	49.91	49.40	48.65
26	46.58	46.57	46.66	46.77	47.66	.....	48.57	49.76	48.95	49.95	49.36	48.61
27	46.60	46.57	46.66	46.85	47.61	.....	48.61	49.74	48.98	49.98	49.34	48.58
28	46.60	46.55	46.65	46.93	47.57	.....	48.64	49.70	49.01	50.03	49.30	48.59
29	46.59	.....	46.64	46.96	47.54	.....	48.65	49.66	49.04	50.07	49.26	48.57
30	46.60	.....	46.65	47.00	47.53	.....	48.67	49.64	49.06	50.10	49.24	48.56
31	46.60	.....	46.65	.....	47.51	.....	48.70	49.60	.....	50.14	.....	48.54

15-60-34ad (*990, p. 266; 1020, p. 185; 1027, p. 233). J. R. Wilkinson Estate. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T. 15 N., R. 60 W. Water levels, in feet below land-surface datum, 1946: Jan. 29, 60.20; Mar. 5, 59.95.

15-60-34bc (*910, p. 183; 940, p. 159; 948, p. 163; 990, p. 266; 1020, p. 185; 1027, p. 234). Glenn Macy. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 15 N., R. 60 W. Water levels, in feet below land-surface datum, 1946: Mar. 5, 69.57; Dec. 16, 70.00.

14-60-3daa (*990, p. 267; 1020, p. 185; 1027, p. 234). Mrs. John Wilkinson. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	50.46	Mar. 29	50.05	July 9	49.67
Mar. 5	50.16	Apr. 24	50.06	Dec. 16	48.67

14-60-5bcc (*990, p. 267; 1020, p. 185; 1027, p. 234). C. C. Gross. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	27.97	Mar. 29	28.00	July 9	28.40
Mar. 5	27.93	Apr. 24	28.07	Dec. 16	29.51

14-60-7dda (*990, p. 267; 1020, p. 185; 1027, p. 234). Mrs. John Wilkinson. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	3.15	Mar. 29	2.92	July 9	3.41
Mar. 5	3.07	Apr. 24	3.08	Dec. 16	3.24

14-60-7ddd (*990, p. 267; 1020, p. 185; 1027, p. 234). Mrs. John Wilkinson. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	18.17	Mar. 29	18.14	July 9	18.57
Mar. 5	18.22	Apr. 24	18.29	Dec. 16	18.46

14-60-8bcc (*990, p. 267; 1020, p. 186; 1027, p. 234). H. L. Wisroth. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	30.74	Mar. 29	30.40	July 9	31.97
Mar. 5	30.50	Apr. 24	30.65	Dec. 16	32.24

14-60-8cbc (*910, p. 183; 940, p. 159; 948, p. 163; 990, p. 267; 1020, p. 186; 1027, p. 234). H. L. Wisroth. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	10.34	Mar. 29	10.14	July 8	10.66	Dec. 16	10.77
Mar. 5	10.27	Apr. 24	10.30	Oct. 5	12.99		

14-60-10dcc (*910, p. 182; 940, p. 158; 948, p. 163; 990, p. 267; 1020, p. 186; 1027, p. 234). Mrs. Ellison. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 5	16.78	Apr. 24	15.97	Dec. 17	16.60
29	15.73	July 9	16.07		

14-60-11bbb (*990, p. 268; 1020, p. 186; 1027, p. 234). J. R. Wilkinson Estate. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	16.62	Mar. 29	16.04	July 9	15.99
Mar. 5	16.82	Apr. 24	16.60	Dec. 16	15.20

14-60-11bbc (*990, p. 268; 1020, p. 186; 1027, p. 235). J. R. Wilkinson Estate. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 14 N., R. 60 W. No measurements made in 1946.

14-60-11bcc1 (*990, p. 268; 1020, p. 186; 1027, p. 235). J. R. Wilkinson Estate. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 14 N., R. 60 W. Water levels, in feet below land-surface datum, 1946: Jan. 29, 15.73; Mar. 5, 15.53; Mar. 29, 15.38; Dec. 16, 15.96.

14-60-11bcc2 (*990, p. 268; 1020, p. 186; 1027, p. 235). J. R. Wilkinson Estate. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 14 N., R. 60 W. No measurements made in 1946.

14-60-11cbb (*990, p. 268; 1020, p. 186; 1027, p. 235). J. R. Wilkinson Estate. NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T. 14 N., R. 60 W. Water levels, in feet below land-surface datum, 1946: Jan. 29, 12.85; Mar. 5, 12.71; Mar. 29, 12.68.

14-60-11cbc (*990, p. 268; 1020, p. 186; 1027, p. 235). J. R. Wilkinson Estate. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	17.61	Mar. 21	17.27	July 8	17.75
Mar. 5	17.37	Apr. 24	17.68	Dec. 16	17.85

14-60-14bbc (*990, p. 268; 1020, p. 187; 1027, p. 235). E. G. Sanders. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	32.37	Mar. 29	31.89	July 9	31.97
Mar. 5	32.00	Apr. 4	31.93	Dec. 12	32.62

14-60-16dcc (*990, p. 269; 1020, p. 187; 1027, p. 235). Mrs. John Wilkinson. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	12.35	Mar. 29	12.10	Dec. 16	14.00
Mar. 5	12.41	Apr. 24	12.12		

14-60-18add (*990, p. 269; 1020, p. 187; 1027, p. 236). H. L. Wisroth. SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	56.05	Mar. 29	56.75	July 9	59.06
Mar. 5	56.80	Apr. 24	56.71	Dec. 16	58.20

14-60-18dad (*990, p. 269; 1020, p. 187; 1027, p. 236). Ruth Anderson. SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 14 N., R. 60 W. No measurements made in 1946.

14-60-18dda (*990, p. 269; 1020, p. 187; 1027, p. 236). Ruth Anderson. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 14 N., R. 60 W. No measurements made in 1946.

14-60-18ddd (*990, p. 269; 1020, p. 187; 1027, p. 236). Ruth Anderson. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 14 N., R. 60 W. Water levels, in feet below land-surface datum, 1946: Jan. 29, 55.69; Mar. 5, 55.60; Mar. 29, 55.57; Apr. 24, 56.15.

14-60-20cbc (*990, p. 269; 1020, p. 187; 1027, p. 236). C. F. Paullin. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 14 N., R. 60 W. Water levels, in feet below land-surface datum, 1946: Jan. 30, 39.04; Mar. 29, dry; Apr. 24, dry; Dec. 27, dry.

14-60-21aaa (*990, p. 269; 1020, p. 188; 1027, p. 236). Carl Fornstrom. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	3.50	Mar. 29	3.15	July 9	4.34
Mar. 5	3.27	Apr. 24	3.25	Dec. 16	4.82

14-60-21aba (*990, p. 269; 1020, p. 188; 1027, p. 236). Carl Fronstrom. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	7.59	Mar. 29	7.57	July 9	(a)
Mar. 5	7.22	Apr. 24	7.14		

a Dry.

14-60-21abb (*990, p. 270; 1020, p. 188; 1027, p. 236). Carl Fornstrom. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	9.07	Mar. 29	8.73	Dec. 16	(a)
Mar. 5	8.88	Apr. 24	8.75		

a Dry.

14-60-28bb (*910, p. 183; 940, p. 160; 948, p. 164; 990, p. 270; 1020, p. 188; 1027, p. 236). Herbert Campbell. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	22.08	Apr. 12	21.63	Oct. 5	25.15
Mar. 6	21.88	25	(a)	Dec. 17	24.14

a Pumping.

14-60-29bbb (*990, p. 270; 1020, p. 188; 1027, p. 236). C. F. Paullin. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Jan. 30	46.04	Mar. 29	45.77	July 9	46.53
Mar. 6	45.88	Apr. 24	45.54	Dec. 16	48.21

14-60-29bbc (*990, p. 270; 1020, p. 188; 1027, p. 237). C. F. Paullin. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Jan. 30	47.60	Mar. 29	47.28	July 9	48.15
Mar. 6	47.38	Apr. 24	47.07	Dec. 16	49.85

14-60-29bcc (*990, p. 270; 1020, p. 188; 1027, p. 237). C. F. Paullin. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 29, T. 14 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Jan. 30	44.64	Mar. 29	44.33	July 9	45.07
Mar. 6	44.49	Apr. 24	44.10	Dec. 16	(a)

a Dry.

14-61-2ca (*910, p. 183; 940, p. 160; 948, p. 164; 990, p. 270; 1020, p. 189; 1027, p. 237). Carl Bogie. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	26.52	Mar. 29	27.17	July 9	27.29	Dec. 16	26.71
Mar. 6	26.71	Apr. 24	27.06	Oct. 5	23.69		

14-61-7ccc (*990, p. 270; 1020, p. 189; 1027, p. 237). R. W. Richer. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	30.29	Mar. 29	30.58	July 8	30.63
Mar. 5	30.48	Apr. 24	30.64	Dec. 16	31.12

14-61-14ab (*910, p. 183; 940, p. 160; 948, p. 164; 990, p. 270; 1020, p. 189; 1027, p. 237). H. R. Eggers. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	57.52	Mar. 29	57.58	July 8	57.52	Dec. 16	57.73
Mar. 6	57.52	Apr. 24	57.55	Oct. 5	57.75		

14-61-16bbb (*990, p. 271; 1020, p. 189; 1027, p. 237). Bruce Bell. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	43.13	Mar. 29	43.22	July 8	44.32
Mar. 6	43.15	Apr. 24	43.24	Dec. 16	43.62

14-61-18bbc (*990, p. 271; 1020, p. 189; 1027, p. 237). F. J. Janesofsky. SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	19.29	Mar. 29	19.37	July 8	20.47
Mar. 5	19.24	Apr. 24	19.60	Dec. 16	21.30

14-61-18ccb (*910, p. 182; 940, p. 157; 948, p. 162; 990, p. 271; 1020, p. 189; 1027, p. 237). F. J. Janesofsky. NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 14 N., R. 61 W. No measurements made in 1946.

14-61-18cbc (*990, p. 271; 1020, p. 189; 1027, p. 238). Mr. Bomhoff. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	28.62	Mar. 29	27.69	July 8	29.25	Dec. 16	29.59
Mar. 5	28.84	Apr. 24	28.76	Oct. 5	29.71		

14-61-18ccb (*990, p. 271; 1020, p. 189; 1027, p. 238). Mr. Bomhoff. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	27.47	Mar. 29	27.64	July 8	(a)
Mar. 5	27.57	Apr. 24	27.37	Dec. 16	(a)

a Dry.

14-61-21bb (*910, p. 181; 940, p. 157; 948, p. 161; 990, p. 271; 1020, p. 189; 1027, p. 238). C. E. Kaser. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 14 N., R. 61 W.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	43.77	Feb. 2	44.03	Feb. 19	44.09	Mar. 6	44.12
2	43.97	3	44.03	20	44.07	7	44.18
3	43.97	4	44.04	21	44.08	8	44.16
4	43.97	5	44.03	22	44.09	9	44.18
5	43.95	6	44.05	23	44.09	10	44.16
6	43.98	7	44.05	24	44.09	11	44.15
7	43.97	8	44.07	25	44.07	12	44.15
8	43.98	10	44.05	26	44.10	13	44.15
9	44.00	12	44.05	27	44.10	14	44.16
10	43.98	13	44.06	28	44.10	15	44.18
11	44.00	14	44.07	Mar. 1	44.12	Apr. 24	44.25
29	44.00	15	44.06	2	44.12	July 8	46.08
30	44.03	16	44.09	3	44.11	Oct. 5	44.68
31	44.03	17	44.08	4	44.13	Dec. 16	44.62
Feb. 1	44.04	18	44.07	5	44.12		

14-61-21ccb (*990, p. 271; 1020, p. 190; 1027, p. 238). C. E. Kaser. NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	37.48	Mar. 29	37.64	July 8	39.17
Mar. 6	37.58	Apr. 24	37.67	Dec. 16	39.37

14-61-21cbc (*990, p. 271; 1020, p. 190; 1027, p. 239). C. E. Kaser. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	24.18	Mar. 29	24.32	July 8	27.15
Mar. 6	24.30	Apr. 24	24.39	Dec. 16	25.96

14-61-28bbb (*990, p. 272; 1020, p. 190; 1027, p. 239). Mary Higginson. NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	28.22	Mar. 29	28.37	July 8	28.85
Mar. 6	28.46	Apr. 24	28.36	Dec. 16	28.90

14-61-28bbb (*990, p. 272; 1020, p. 190; 1027, p. 239). Harry Bymer. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Jan. 29	18.35	Mar. 29	18.40	July 8	19.55
Mar. 6	18.69	Apr. 24	18.55	Dec. 16	20.87

14-61-29bb (*910, p. 182; 940, p. 158; 948, p. 162; 990, p. 272; 1020, p. 191; 1027, p. 239). A. E. Cook. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 14 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Jan. 29	24.30	Mar. 29	24.34	Oct. 5	25.66
Mar. 5	24.38	Apr. 24	24.07	Dec. 16	25.23

14-62-12cc (*910, p. 182; 940, p. 157; 948, p. 161; 990, p. 272; 1020, p. 191; 1027, p. 239). C. E. Kaser. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 14 N., R. 62 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	4.52	Mar. 29	4.29	July 8	6.45	Dec. 16	5.30
Mar. 5	4.58	Apr. 24	4.54	Oct. 5	5.18		

14-62-22bb (*910, p. 183; 940, p. 159; 948, p. 164; 990, p. 272; 1020, p. 191; 1027, p. 239). J. W. Minnick. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 14 N., R. 62 W. Water levels, in feet below land-surface datum, 1946: Jan. 29, 95.14; Mar. 5, 95.17; Mar. 29, 95.27.

14-62-24ad (*910, p. 182; 940, p. 157; 948, p. 162; 990, p. 272; 1020, p. 191; 1027, p. 239). Union Pacific Railroad. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 14 N., R. 62 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 29	29.46	Mar. 29	31.34	Oct. 5	30.91
Mar. 5	29.44	Apr. 24	30.38	Dec. 16	29.92

14-62-24daa (*990, p. 273; 1020, p. 191; 1027, p. 239). Fred Shuetz. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 14 N., R. 62 W. Water levels, in feet below land-surface datum, 1946: July 8, 22.35; Dec. 16, 19.89.

14-62-36db (*910, p. 183; 940, p. 160; 948, p. 164; 990, p. 273; 1020, p. 191; 1027, p. 240). J. M. Bastain. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, T. 14 N., R. 62 W.

Water level, in feet below land-surface datum, 1946

Jan. 30	7.54	Apr. 12	7.00	July 11	7.54
Mar. 5	7.28	25	7.18	Oct. 5	8.07

14-63-12cd (*940, p. 161; 948, p. 165; 990, p. 273; 1020, p. 191; 1027, p. 240). J. D. Johnson. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 14 N., R. 63 W.

Water level, in feet below land-surface datum, 1946

Jan. 29	62.28	Mar. 29	62.34	July 8	62.33
Mar. 5	62.24	Apr. 24	62.37		

14-63-20dc (*940, p. 161; 948, p. 165; 990, p. 273; 1020, p. 191; 1027, p. 240). Elmer Gibson. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 14 N., R. 63 W. Water levels, in feet below land-surface datum, 1946: Feb. 1, 79.17; Mar. 7, 79.19.

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14-63-34daa (*948, p. 168; 990, p. 273; 1020, p. 191; 1027, p. 240). Lorena F. G. Noyes. NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 14 N., R. 63 W. Water levels, in feet below land-surface datum, 1946: Jan. 31, 96.00; Mar. 7, 95.59; Sept. 6, 97.22.

13-60-8cb (*910, p. 183; 940, p. 159; 948, p. 163; 990, p. 273; 1020, p. 192; 1027, p. 240). Herbert Campbell. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 13 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	40.05	Apr. 12	36.40	July 11	38.35
Mar. 6	38.83	25	36.88	Dec. 17	42.77

13-60-31aa (*910, p. 181; 940, p. 156; 948, p. 161; 990, p. 274; 1020, p. 192; 1027, p. 240). W. T. Young, Jr. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 13 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	36.70	Apr. 12	36.24	July 11	39.02	Dec. 17	37.34
Mar. 7	36.54	25	36.30	Oct. 5	38.53		

13-60-31ddd (*948, p. 168; 990, p. 274; 1020, p. 192; 1027, p. 240). W. T. Young, Jr. SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 13 N., R. 60 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	17.54	Apr. 12	17.02	July 11	17.88	Dec. 17	17.98
Mar. 7	17.34	25	18.40	Sept. 6	19.14		

13-61-3dc (*910, p. 183; 940, p. 160; 948, p. 164; 990, p. 274; 1020, p. 192; 1027, p. 241). Jim Dolan. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T. 13 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	17.08	Apr. 12	16.52	Oct. 5	19.93
Mar. 6	16.67	25	17.14	Dec. 17	17.61

13-61-5dba (*910, p. 182; 940, p. 158; 948, p. 163; 990, p. 274; 1020, p. 192; 1027, p. 241). J. D. Wasson. NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, T. 13 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	8.72	Apr. 12	8.00	Sept. 11	9.07
Mar. 6	8.24	25	8.31	Oct. 5	8.35

13-61-12cc (*910, p. 182; 940, p. 158; 948, p. 162; 990, p. 274; 1020, p. 192; 1027, p. 241). Mr. Kelly. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 13 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	2.46	Apr. 12	1.73	July 11	3.71	Dec. 17	1.32
Mar. 6	1.95	25	2.14	Oct. 5	6.38		

13-61-18bc (*910, p. 182; 940, p. 158; 948, p. 162; 990, p. 274; 1020, p. 192; 1027, p. 241). Mr. Johnson. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 13 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	47.87	Apr. 12	47.80	July 11	47.76	Dec. 17	47.72
Mar. 7	47.87	25	47.80	Sept. 6	45.59		

13-61-22cb (*910, p. 182; 940, p. 159; 948, p. 163; 990, p. 274; 1020, p. 192; 1027, p. 241). Mr. Evans. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 13 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Feb. 1	(a)	Apr. 25	45.67	Dec. 11	45.88
Mar. 7	44.96	July 11	45.72		

a Pumping.

13-61-24aa (*910, p. 182; 940, p. 158; 948, p. 162; 990, p. 273; 1020, p. 192; 1027, p. 241). Leona J. Whited. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 13 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Mar. 5	11.50	Apr. 25	10.00	Oct. 5	13.60
Apr. 12	8.90	July 11	11.10	Dec. 17	11.12

13-61-31ddc (*948, p. 168; 990, p. 275; 1020, p. 192; 1027, p. 241). Max Thelan. SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 13 N., R. 61 W. Water levels, in feet below land-surface datum, 1946: Feb. 1, 44.78; Mar. 7, 44.87; Apr. 12, 44.77; Apr. 25, 44.71.

13-61-34cb (*1027, p. 241). H. E. Grover. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 13 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Feb. 1	29.56	Apr. 12	29.57	July 11	29.57
Mar. 7	29.63	25	29.65	Dec. 17	29.57

13-62-21ccc (*948, p. 168; 990, p. 275; 1020, p. 193; 1027, p. 242). Union Pacific Railroad. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 13 N., R. 62 W.

Water level, in feet below land-surface datum, 1946

Jan. 31	43.68	Apr. 12	43.68	July 11	43.56
Mar. 7	44.86	25	43.64	Dec. 17	(a)

a Dry.

13-62-24aba (*948, p. 168; 990, p. 275; 1020, p. 193; 1027, p. 242). Lydia M. Wilkowski. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 13 N., R. 62 W. No measurements made in 1946.

13-62-28add (*948, p. 168; 990, p. 275; 1020, p. 193; 1027, p. 242). George L. Reeder. SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 13 N., R. 62 W. No measurements made in 1946.

13-62-29bc (*948, p. 166; 990, p. 275; 1020, p. 193; 1027, p. 242). William H. Chamberlain. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 13 N., R. 62 W. No measurements made in 1946.

13-62-29ccc (*948, p. 166; 990, p. 275; 1020, p. 193; 1027, p. 242). Union Pacific Railroad. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 29, T. 13 N., R. 62 W. No measurements made in 1946.

13-62-30-bcc (*948, p. 166; 990, p. 276; 1020, p. 193; 1027, p. 242). James H. Carnes. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T. 13 N., R. 62 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	43.94	Apr. 12	44.16	July 11	45.23	Dec. 17	46.47
Mar. 7	45.34	25	44.62	Sept. 6	44.37		

13-62-31cac (*948, p. 166; 990, p. 275; 1020, p. 193; 1027, p. 242). Carpenter General Store. SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 13 N., R. 62 W. No measurements made in 1946.

13-62-34ccd (*1027, p. 242). Jack Fee. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 13 N., R. 62 W.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	56.45	Apr. 12	56.39	July 11	55.80	Dec. 17	56.22
Mar. 7	56.42	25	56.31	Sept. 6	56.29		

13-63-8acc (*948, p. 166; 990, p. 276; 1020, p. 193; 1027, p. 242). Emil Gustafson. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 13 N., R. 63 W. No measurements made in 1946.

13-63-10aaa (*948, p. 168; 990, p. 276; 1020, p. 194; 1027, p. 242). William Dittmer. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	67.05	Apr. 12	66.99	July 11	67.02	Dec. 17	68.03
Mar. 7	67.02	25	67.08	Sept. 6	66.95		

13-63-14dcc (*948, p. 166; 990, p. 276; 1020, p. 194; 1027, p. 243). Ralph V. Kent. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	36.88	Apr. 12	37.37	July 11			(a)
Mar. 7	36.59	25	37.77	Dec. 17			(a)

a Dry.

13-63-22bba (*948, p. 167; 990, p. 276; 1020, p. 194; 1027, p. 243). Ralph V. Kent. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	55.65	Apr. 12	55.66	July 11	55.82	Dec. 17	55.92
Mar. 7	55.63	25	55.87	Sept. 6	55.97		

13-63-26ca (*948, p. 167; 990, p. 276; 1020, p. 194; 1027, p. 243). Ed Oline. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	49.64	Apr. 12	49.24	July 11	49.53	Dec. 17	49.49
Mar. 7	49.27	25	49.31	Sept. 6	50.00		

13-63-33cb (*948, p. 166; 990, p. 276; 1020, p. 194; 1027, p. 243). D. A. Bunnell. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T. 13 N., R. 63 W.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	46.06	Apr. 12	45.94	July 11	46.02	Dec. 17	45.95
Mar. 7	46.04	25	46.42	Sept. 6	45.81		

13-64-28ccb (*948, p. 167; 990, p. 277; 1020, p. 194; 1027, p. 243). L. A. Foster. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 13 N., R. 64 W. No measurements made in 1946.

13-64-30cbb (*948, p. 167; 990, p. 277; 1020, p. 194; 1027, p. 243). Wilbur Sevope. NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 13 N., R. 64 W. No measurements made in 1946.

12-60-5ccd (*948, p. 169; 990, p. 277; 1020, p. 194; 1027, p. 243). William Young. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, T. 12 N., R. 60 W.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	24.51	Apr. 12	24.13	July 11	25.98	Dec. 17	25.17
Mar. 7	24.37	25	24.15	Sept. 6	25.96		

12-61-1dcc (*948, p. 169; 990, p. 277; 1020, p. 194; 1027, p. 243). Union Pacific Railroad. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T. 12 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	62.55	Apr. 12	62.37	July 11	63.42	Dec. 17	(a)
Mar. 7	62.47	25	62.23	Sept. 6	60.95		

a Dry.

12-61-3abb (*1027, p. 243). Harry Anderson. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, T. 12 N., R. 61 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	32.97	Apr. 12	32.85	July 11	32.92	Dec. 17	32.96
Mar. 7	32.90	25	32.84	Sept. 6	33.08		

12-61-10dce (*948, p. 169; 990, p. 277; 1020, p. 195; 1027, p. 244). Joseph L. McDonald. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 12 N., R. 61 W. No measurements made in 1946.

12-62-6aab (*948, p. 167; 990, p. 277; 1020, p. 195; 1027, p. 244). William Flamme. NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T. 12 N., R. 62 W. Water levels, in feet below land-surface datum, 1946: Jan. 31, 59.34; Mar. 7, 59.10; Apr. 12, 49.94; Apr. 25, 58.49.

12-62-8aa (*948, p. 168; 990, p. 278; 1020, p. 195; 1027, p. 244). Bank of Carpenter. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 12 N., R. 62 W. No measurements made in 1946.

12-62-9aba (*948, p. 168; 990, p. 278; 1020, p. 195; 1027, p. 244). D. A. Bunnell. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 12 N., R. 62 W. Pumping; no measurements made in 1946.

12-62-13abb (*948, p. 169; 990, p. 278; 1020, p. 195; 1027, p. 244). Roy D. Smith. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 12 N., R. 62 W.

Water levels, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Feb. 1	24.24	Apr. 12	24.30	Dec. 17	24.58
Mar. 7	24.45	25	24.49		

12-63-3baa (*948, p. 167; 990, p. 278; 1020, p. 195; 1027, p. 244). Roy L. Gasuraunt. NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T. 12 N., R. 63 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	42.78	Apr. 12	42.83	July 11	42.74	Dec. 17	42.97
Mar. 7	42.77	25	42.80	Sept. 6	42.78		

12-63-3da (*948, p. 166; 990, p. 278; 1020, p. 195; 1027, p. 244). Wyoming Farm Loan Board. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T. 12 N., R. 63 W. No measurements made in 1946.

12-63-7db (*948, p. 167; 990, p. 278; 1020, p. 195; 1027, p. 244). Mrs. F. E. Bollan. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 12 N., R. 63 W. Measurements discontinued January 1, 1946.

12-63-12da (*948, p. 169; 990, p. 278; 1020, p. 195; 1027, p. 244). Otis Breeden. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T. 12 N., R. 63 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	5.08	Apr. 12	4.12	July 11	5.24	Dec. 17	5.89
Mar. 7	4.49	25	4.58	Sept. 6	4.69		

12-64-4bb (*948, p. 167; 990, p. 278; 1020, p. 195; 1027, p. 244). Wyoming Hereford Ranch. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T. 12 N., R. 64 W. No measurements made in 1946.

Natrona County

29-86-19cc. US 141. James Grieves (Dumbell Ranch). SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 29 N., R. 86 W. Drilled well, equipped with hand pump, diameter 6 inches, depth unknown. Aquifer, alluvium. Measuring point, top of $\frac{1}{2}$ -inch hole in pump base flange, north side, 0.45 foot above land-surface datum.

Water level, in feet below land-surface datum, 1942-43, 1946

Date	Water level	Date	Water level	Date	Water level
Sept. 25, 1942	8.71	Feb. 9, 1943	9.70	Oct. 2, 1946	7.72
Oct. 30	9.23	June 20, 1946	5.33	Nov. 1	8.49
Dec. 10	9.53	July 15	6.74	Dec. 7	8.93
Jan. 15, 1943	9.65	Sept. 10	7.15		

29-67-33ca. US 142. State of Wyoming. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T. 29 N., R. 87 W. Drilled well, diameter 2 inches, depth 8.97 feet. Aquifer, alluvium. Measuring point, top of casing, at land-surface datum.

Water level, in feet below land-surface datum, 1942-43, 1946

Date	Water level	Date	Water level	Date	Water level
Sept. 25, 1942	6.51	Feb. 9, 1943	6.47	Sept. 10, 1946	6.34
Oct. 30	6.43	May 16, 1946	6.32	Oct. 2	6.46
Dec. 10	6.48	June 20	5.35	Nov. 1	6.49
Jan. 15, 1943	6.47	July 15	5.35	Dec. 7	6.48

Sublette County

35-111-8db. US 144. Robert Albert. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, T. 35 N., R. 111 W. Dug well, equipped with pump, 10 feet square at top, 4 feet square below depth of 14.2 feet, total depth 30.2 feet. Aquifer, alluvium. Measuring point, top of cover over inner pit at north side of pump pipe, 13.96 feet below land-surface datum.

Water level, in feet below land-surface datum, 1942-46

Date	Water level	Date	Water level	Date	Water level
Sept. 30, 1942	27.70	Mar. 9, 1944	29.43	June 23, 1945	29.12
Nov. 10	28.45	Apr. 18	29.45	July 23	27.54
Jan. 9, 1945	28.18	21	29.24	Aug. 24	26.29
Mar. 8	29.44	May 25	29.15	Sept. 19	28.14
31	29.51	June 21	28.56	Oct. 15	24.20
Apr. 20	29.36	July 18	26.89	Nov. 26	25.64
May 20	27.24	Aug. 16	26.68	Jan. 12, 1946	27.06
June 11	26.95	Oct. 8	27.86	Feb. 14	28.31
26	26.44	Nov. 11	28.53	Mar. 11	25.28
July 7	25.79	Dec. 4	28.00	June 5	26.43
Aug. 10	25.18	16	29.05	July 23	23.89
Sept. 11	25.88	Mar. 2, 1945	29.64	Aug. 29	23.68
Oct. 13	26.79	Apr. 7	29.75	Oct. 22	27.65
Nov. 7	27.42	May 12	29.78	Dec. 16	28.11
Feb. 28, 1944	29.19				

