

Water Levels and Artesian Pressure in Observation Wells in the United States in 1949

Part 5. Northwestern States

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

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of Colorado, Idaho, Montana, Oregon,
Utah, Washington, Wyoming, and
other agencies*



UNITED STATES DEPARTMENT OF THE INTERIOR

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PREFACE

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CONTENTS

	Page
Introduction, by A. N. Sayre and others	1
Colorado, by V. M. Burtis and W. E. Code	5
Program of work	5
Well-numbering system	5
Well descriptions and water-level measurements	6
Idaho, by R. L. Nace and S. W. Fader	22
Program of work	22
Fluctuations of water levels	22
Well-numbering system	24
Well descriptions and water-level measurements	28
Montana, by Frank A. Swenson	38
Program of work	38
Fluctuations of water levels	38
Well-numbering system	42
Well descriptions and water-level measurements	42
Oregon, by F. A. Watkins, Jr.	76
Scope of water-level program	76
Precipitation	76
Fluctuations of water levels	77
Well-numbering system	78
Well descriptions and water-level measurements	78
Utah, by Philip F. Fix, W. B. Nelson, and R. G. Butler	84
Program of work	84
Fluctuations of water levels	84
Well-numbering system	85
Well descriptions and water-level measurements	86
Washington, by F. A. Watkins, Jr.	144
Scope of water-level program	144
Fluctuations of water levels	144
Well-numbering system	146
Well descriptions and water-level measurements	147
Wyoming, by R. T. Littleton	159
Program of work	159
Well-numbering system	159
Well descriptions and water-level measurements	160

ILLUSTRATIONS

Figure 1. Outline map of the United States showing States included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1949.	2
2. Graphs showing comparison of weekly water-level fluctuations in two wells in Idaho and monthly precipitation at nearby Weather Bureau stations.	25
3. Map of Montana showing the nine areas into which the State has been subdivided.	39
4. Diagram showing well-numbering system used in Montana.	43

**WATER LEVELS AND ARTESIAN PRESSURE IN OBSERVATION WELLS
IN THE UNITED STATES IN 1949**

Part 5. NORTHWESTERN STATES

INTRODUCTION

By A. N. Sayre and others

The publication of records of water levels and artesian pressures annually in the United States was begun by the Geological Survey in 1935. Prior to 1940 the records were published in a single volume--1935, 777; 1936, 817; 1937, 840; 1938, 845; and 1939, 886. 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. The following table gives the numbers of water-level reports from 1940 through 1949.

Year	North- eastern (1)	South- eastern (2)	North- central (3)	South- central (4)	North- western (5)	South- western (6)
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
1947	1096	1097	1098	1099	1100	1101
1948	1126	1127	1128	1129	1130	1131
1949	1156	1157	1158	1159	1160	1161

Ground-water investigations are concerned with the availability of usable water supplies, land drainage, flood control, construction of waterways and dams, mine drainage, and other problems to which the principles of ground-water hydrology are pertinent. Water levels in wells indicate the stages of the aquifers; they show the extent to which water supplies

are depleted by drought or by heavy pumping, and the extent to which they are replenished in seasons of abundant rainfall or melting snow. The recorded changes of pressure in artesian wells also indicate depletion or replenishment of the artesian supplies.

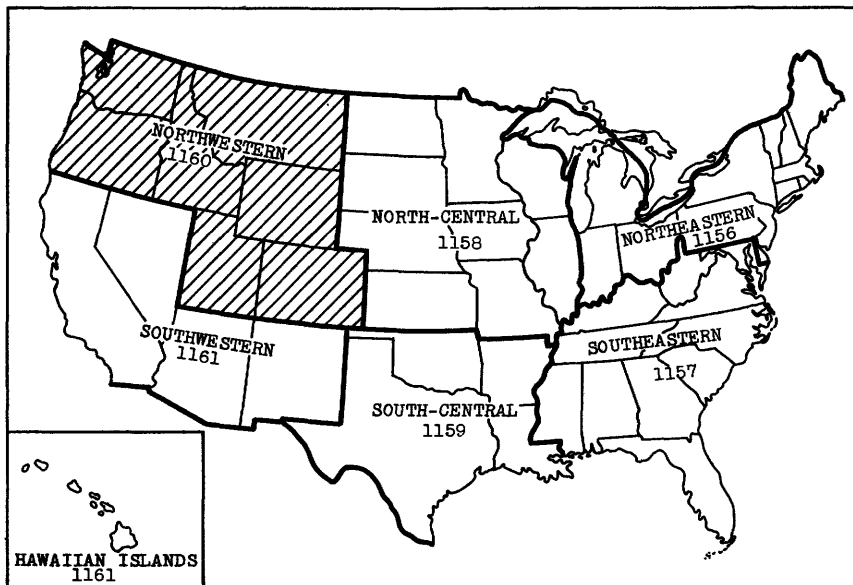


Figure 1.--Outline map of the United States showing States included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1949. The shaded area indicates the States included in this volume.

This volume gives records of water levels and artesian pressures in observation wells in the northwestern States (Colorado, Idaho, Montana, Oregon, Utah, Washington, and Wyoming). Of the 1,713 wells listed, 37 are equipped with recording gages. Descriptive matter for some wells is given in previous reports. For wells not previously reported complete records of water levels are given. For wells whose previous records have been published this volume gives only the current records.

Before 1943, 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. In 1943, a precise datum plane was selected at each well which was approximately the land surface. The water levels and artesian heads for all wells listed in this volume are referred to land-surface datum. Water levels above this datum are preceded by a plus (+) sign, those below this datum have no sign but are understood to be minus (-).

Measurements of water levels and artesian pressures in wells were made under the direction of the district supervisors of the Ground Water Branch in the several States. Verda M. Dougherty edited the reports; Rodney Hart edited the illustrations; and Penn Livingston had general charge of the nation-wide observation-well program.

COLORADO

By V. M. Burtis and W. E. Code

PROGRAM OF WORK

The observation-well program in Colorado, begun in 1942, was continued in 1949 in cooperation with the State Water Conservation Board and with the Agricultural Experiment Station, Colorado A. & M. College. Ground-water investigations were begun during 1949 in Huerfano County and in the irrigated part of the artesian basin south of Monte Vista in the San Luis Valley. Studies were continued in the irrigated area north of Monte Vista in the San Luis Valley, in the Grand Junction artesian basin in Mesa County, and in the Denver artesian basin. Studies in the South Platte Valley were continued as a part of the Missouri Basin program. About 900 measurements were made in 208 wells. Three wells are equipped with recording gages.

WELL-NUMBERING SYSTEM

Colorado is subdivided under three principal meridian and base line systems: (1) the sixth principal meridian; (2) the New Mexico principal meridian; and (3) the Ute principal meridian. All of the wells described lie in the northwest (B) or southwest (C) quadrants of the area subdivided by the sixth principal meridian, whose four quadrants have been assigned the letters A to D lettered in counter-clockwise direction from the northeast (A) quadrant through the southeast (D) quadrant. The letter forming the first segment of the number indicates the quadrant, the second the township, the third the range, and the fourth the section. The letters that make up the last segment indicate the position of the well in the section, the first letter indicating the quarter section, the second, the 40-acre tract within the quarter section, and the third, the 10-acre tract within the 40-acre tract. The quarters, 40-acre tracts, and 10-acre tracts are lettered from a to d in counter-clockwise direction. A digit at the end of a number indicates a particular well of two or more in the same 10-acre tract.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Adams County

C-1-60-4ccc. W. L. Freeman. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	24.62	Apr. 14	24.28	June 17	23.59	Oct. 17	25.37
Feb. 7	24.35	May 4	23.84	Aug. 3	27.44	Dec. 12	24.76
Mar. 15	24.17						

C-1-60-17dcc. Carl Sanden. Records available: 1945-49.

Jan. 14	29.09	Mar. 15	28.88	May 4	28.65	Oct. 17	33.13
Feb. 7	29.05	Apr. 14	28.86	June 17	28.40	Dec. 12	30.50

C-1-60-29cbd. J. D. Singleton. Records available: 1945-49.

Jan. 14	32.17	Mar. 15	31.05	May 4	31.52	Oct. 17	34.09
Feb. 7	30.78	Apr. 14	31.00	June 17	32.90	Dec. 12	33.08

C-1-62-22dac. Charles B. Nordloh. Records available: 1945-49.
Nov. 25, 44.21.

C-1-62-34cd. John H. Nordloh. Records available: 1946-49. Nov. 25, 42.20.

C-1-65-11cd. David Patton. Records available: 1947-49. Apr. 21, 13.18; Nov. 9, 13.80.

C-1-66-7cc. C. Hose. Records available: 1945-49. Apr. 21, 20.57; Nov. 9, 17.09.

C-1-66-19dc. A. B. Perry. Records available: 1945-49. Apr. 21, 32.93; Nov. 9, 26.35.

C-1-67-13db. Edward Schnute. Records available: 1945-49. Apr. 21, 22.22; Nov. 9, 18.64.

C-1-67-35cda. L. A. Ernst. Records available: 1945-49. Apr. 21, 21.45; Nov. 9, 17.39.

C-2-60-19bcc. Oscar Helgeson. Records available: 1945-49.

Jan. 14	18.85	May 4	17.55	Aug. 3	17.35	Dec. 12	17.55
Feb. 7	18.93	June 17	17.58	Oct. 17	18.02		

C-2-65-11dcd. Box Elder Farms. Records available: 1945-49.
Apr. 21, 27.23; Nov. 9, 27.35.C-2-65-14dcb. Box Elder Farms. Records available: 1945-49.
Apr. 21, 12.90; Nov. 9, 12.90.C-2-65-23dab. Box Elder Farms. Records available: 1945-49.
Apr. 21, 13.79; Nov. 9, 14.65.C-2-65-26dba. Box Elder Farms. Records available: 1945-49.
Apr. 21, 16.93; Nov. 9, 18.48.C-2-65-35dbb. Box Elder Farms. Records available: 1945-49.
Apr. 21, 15.23; Nov. 9, 17.63.C-2-65-35dcd. Box Elder Farms. Records available: 1945-49.
Apr. 21, 14.36; Nov. 9, 16.42.

C-2-67-10dcd. Cora Wall. Records available: 1945-49. Apr. 21, 28.40; Nov. 9, 23.09.

C-2-67-20dcd. Charles Fadden. Records available: 1945-49. Apr. 21, 24.85; Nov. 9, 23.97.

C-2-67-31ab. M. M. Summers. Records available: 1945-48. Measurements discontinued.

C-3-65-23ddd. Jeff Drohan. Formerly owned by L. Erling. Records available: 1945-49. Apr. 21, 15.30; Nov. 9, 16.67.

C-3-67-6dd. H. L. Swanson. Records available: 1945-49. Apr. 21, 17.89; Nov. 9, 17.99.

Arapahoe County

C-4-68-33ed. Frank Hornbuckle. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	9.52	Apr. 13	9.69	July 29	8.30	Oct. 28	10.02
25	9.77	29	8.79	Aug. 15	7.71	Nov. 22	10.43
Feb. 8	9.77	May 24	8.21	Sept. 26	10.35	Dec. 28	10.71
17	9.76	June 24	6.75	Oct. 12	9.97		10.72
Mar. 23	9.85	28	7.09				

Baca County

C-29-42-10ad. Harold Walker. Records available: 1947-49.

Feb. 5	20.96	May 28	20.42	Sept. 1	20.92	Oct. 31	21.08
Apr. 2	20.49	Aug. 16	20.68	Oct. 5	21.39	Nov. 30	20.85
30	20.45						

C-29-43-1aab. R. B. Holt. Records available: 1947-48. Measurements discontinued.

C-29-46-18add. Louisa Morris. Records available: 1947-49. Feb. 4, 45.21; Apr. 3, 44.95; Apr. 30, 44.96; May 27, 44.83. Measurements discontinued.

C-30-45-34ccc. C. J. Alfrey. Records available: 1947-49.

Feb. 27	87.32	May 27	87.26	Sept. 1	87.19	Oct. 31	87.30
Apr. 3	87.35	July 30	87.29	Oct. 6	87.25	Nov. 30	87.10
30	87.20						

C-30-46-5ccc. R. K. Knight. Records available: 1947-49.

Feb. 4	92.86	May 27	93.04	Sept. 1	93.07	Oct. 31	92.64
Apr. 3	93.14	July 30	93.03	Oct. 6	92.13	Nov. 30	92.73
30	92.67						

C-30-46-17bc. Maude A. Rarex. Records available: 1947-49.

Apr. 3	11.65	May 27	11.64	Sept. 1	10.90	Oct. 31	11.61
30	11.64	July 30	11.30	Oct. 6	11.49	Nov. 30	11.38

C-31-46-28bbc. Ethyl Taylor. Records available: 1947-49.

Feb. 5	133.41	Apr. 30	133.08	Sept. 1	133.52	Oct. 31	133.50
Apr. 2	133.80	Aug. 16	133.47	Oct. 3	133.29	Nov. 30	133.30

C-31-49-11bab. J. D. Grage. Records available: 1947-49. Measurements discontinued, Oct. 21, 1949.

Feb. 27	180.68	Apr. 30	180.13	Sept. 1	180.99	Oct. 31	181.00
Apr. 3	180.42	July 30	181.20	Oct. 5	180.44		

C-32-43-20aaa. H. F. Koelsch. Records available: 1947-49.

Feb. 5	86.12	May 27	86.44	Sept. 1	86.56	Oct. 31	86.53
Apr. 3	86.42	Aug. 16	86.58	Oct. 5	86.27	Nov. 30	86.46
30	86.02						

C-32-48-8cbb. S. D. Huff. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	193.50	May 27	193.31	Sept. 1	193.39	Oct. 31	193.30
Apr. 3	193.75	July 30	193.55	Oct. 5	192.83	Nov. 30	193.06
30	193.04						

C-33-45-13dad. J. A. and M. W. Davis. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	79.51	May 27	79.17	Sept. 1	70.79	Oct. 31	78.85
Apr. 3	79.38	Aug. 16	82.67	Oct. 5	77.50	Nov. 30	79.07
30	79.37						

C-35-45-7db. G. S. Shaw. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 5	168.83	May 27	169.46	Sept. 1	169.64	Oct. 31	169.84
Apr. 3	169.34	Aug. 16	169.67	Oct. 5	169.24	Nov. 30	169.61
30	169.05						

Elbert County

C-9-57-8abb. J. C. Mattson. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 29	5.79	Aug. 1	6.04	Oct. 28	6.42	Dec. 22	6.16
May 31	6.01	Sept. 2	6.58	Nov. 25	6.22		

C-9-58-34ccb. Heber Ellsworth. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	12.54	Apr. 29	12.39	Sept. 2	13.91	Nov. 25	12.97
28	12.50	May 31	12.44	Oct. 28	13.31	Dec. 22	12.86
Apr. 4	12.45						

C-10-59-13ca. John Kochis. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	10.63	Aug. 1	9.78	Sept. 30	10.82	Nov. 25	10.87
Apr. 29	10.04	Sept. 2	10.43	Oct. 28	10.85	Dec. 22	10.89
May 31	10.35						

C-10-59-22ab. William Groff. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	11.54	Apr. 29	11.21	Sept. 2	12.06	Nov. 25	11.96
28	11.50	May 31	11.43	Oct. 28	12.12	Dec. 22	11.87
Apr. 4	11.43						

C-10-60-26cd. Simla Cemetery. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	24.25	Apr. 29	24.29	Sept. 2	24.99	Nov. 25	24.77
28	24.19	May 31	24.41	30	25.08	Dec. 22	24.97
Apr. 4	24.24	Aug. 1	24.87	Oct. 28	25.00		

El Paso County

C-11-61-1b. Owner unknown. Records available: 1946-49. Feb. 4, 13.07; Feb. 28, 12.59; Apr. 4, 11.92. Measurements discontinued.

C-11-62-22ad. Anthony Eurich. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 28	6.33	Aug. 1	6.64	Sept. 30	6.83	Nov. 25	6.74
Apr. 29	6.22	Sept. 2	6.76	Oct. 28	6.80	Dec. 22	6.88
May 31	6.71						

C-15-66-11cbd. Venetucci Bros. Records available: 1945-49. Apr. 4, 37.75; Nov. 29, 37.53.

C-15-66-14abd2. T. L. Bender. Records available: 1948-49. Apr. 2, 24.34; Dec. 5, 24.01.

C-15-66-25aaa. W. E. Busch. Records available: 1945-49. Apr. 4, 29.62; Nov. 29, 28.92.

C-16-65-16bb. L. F. Oldenstaadt. Records available: 1945-49.
Apr. 4, 33.25; Nov. 29, 29.15.

Garfield County

C-7-88-29ab. J. F. Smith. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	35.39	May 9	34.35	July 8	27.21	Oct. 14	32.79
Feb. 10	35.40	25	31.75	Aug. 4	28.49	Nov. 11	34.56
Mar. 24	35.80	June 11	28.36	Sept. 9	27.59	Dec. 5	34.00
Apr. 11	34.91						

Larimer County

B-5-68-17abb. George Peak. Records available: 1945-49. Apr. 20, 14.45; Nov. 8, 9.36.

B-6-68-1ba. M. J. Warner. Records available: 1945-49. May 24, 11.90; Nov. 16, 10.86.

B-7-68-9aaa. Edward Wright. Records available: 1945-49. Apr. 12, 7.56. Measurements discontinued.

B-7-68-10cbb. Drake Estate. Records available: 1945-49. Apr. 12, 5.86; Nov. 18, 5.29.

B-7-68-22bbb. Ray Pitcher. Records available: 1945-49. May 24, 5.81; Nov. 16, 5.34.

B-7-68-23cbb. W. A. Scott. Records available: 1945-49. May 24, 6.56; Nov. 16, 6.61.

B-8-68-4bba. A. Heckman. Records available: 1945-49. Apr. 12, 28.73; Nov. 18, 27.46.

B-8-68-10cbb. A. L. Bee. Records available: 1945-49. Apr. 12, 19.29; Nov. 18, 20.66.

B-8-68-16aa. R. E. Nutter. Records available: 1945-49. Apr. 12, 25.14; Nov. 18, 26.52.

B-8-68-22cbb. J. E. Swansen. Records available: 1945-49. Apr. 12, 11.48; Nov. 18, 12.52.

B-8-68-27cbb. A. L. Seamans. Records available: 1945-49. Apr. 12, 12.95; Nov. 18, 13.36.

B-8-68-28aab. F. L. Bartels. Records available: 1945-49. Apr. 12, 9.10; Nov. 18, 9.91.

B-8-68-33ccc. F. C. Kluver. Records available: 1945-49. Apr. 12, 14.35; Nov. 18, 14.68.

B-9-68-17ab. Harlan Seaworth. Records available: 1945-49. Apr. 12, 44.20; Nov. 18, 42.55.

B-9-68-27ba. John Wagner. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 9 N., R. 68 W. Abandoned well, diameter 168 inches, depth 30 feet. Measuring point, top of concrete block, west side, at land-surface datum. Records available: 1949. Nov. 18, 26.03.

B-9-68-28bbb. E. F. Meedel. Records available: 1945-49. Apr. 12, 22.24; Nov. 18, 19.84.

B-9-68-33bdc. W. E. Dalby. Records available: 1945-49. Apr. 12, 31.35; Nov. 18, 28.94.

Logan County

B-7-52-7acc. Henry Schaffer. Records available: 1945-49. May 31, 11.25; July 8, 12.00. Measurement discontinued.

B-7-53-21bc. Hessler Bros. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 2	13.32	May 4	13.82	July 8	11.88	Dec. 1	13.17
Apr. 7	13.78	31	13.52	Oct. 13	13.31		

B-7-53-23bbb. William Nisson. Records available: 1945-49.

Jan. 20	27.05	Apr. 7	28.70	July 8	27.39	Oct. 14	24.35
Feb. 8	27.67	May 4	29.11	Aug. 10	25.40	Dec. 6	26.24
Mar. 2	28.29	31	28.26				

B-7-53-26ab. Ben Fisher. Records available: 1945-49.

Mar. 3	9.65	May 31	10.10	Aug. 10	8.45	Dec. 6	9.40
May 4	10.09	July 8	8.43	Oct. 13	8.60		

B-8-52-10acc. G. A. Henderson. Records available: 1945-49.

Jan. 17	5.24	Apr. 7	4.99	July 8	4.32	Oct. 13	4.59
Feb. 10	5.55	May 4	4.48	Aug. 10	4.59	Dec. 6	5.54
Mar. 2	5.15	June 1	4.18				

B-8-52-17cbb. Joseph Willson. Records available: 1945-49.

Jan. 17	18.32	Apr. 7	19.32	July 8	17.93	Oct. 13	15.91
Feb. 10	18.76	May 4	19.61	Aug. 10	16.85	Dec. 1	17.52
Mar. 2	18.90	31	18.80				

Morgan County

B-1-55-18bcc. R. H. Awwiller. Records available: 1945-49.

Apr. 11	39.68	May 30	40.10	Aug. 4	41.96	Dec. 5	41.91
May 3	39.69	July 4	39.67	Oct. 11	42.18		

B-1-55-31dac. James Bolinger. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level
Mar. 8	35.90	May 30	36.30	Dec. 1	36.63
May 3	35.79	Oct. 11	37.69		

B-1-56-1dc. Published incorrectly as B-1-56-1dcc, Mrs. John Shaw, in previous water-supply papers. Mrs. W. Shaw. Records available: 1945-49.

Jan. 19	38.37	Apr. 11	38.28	Oct. 11	42.75
Feb. 7	38.19	Aug. 4	40.82	Dec. 5	39.86

R-1-60-12cc. Anna Hogan. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	35.03	Mar. 15	34.15	May 2	33.60	Oct. 18	39.48
Feb. 7	34.63	Apr. 14	33.89	June 6	34.97	Dec. 12	36.58

B-1-60-23bcc. Louis Westhoff. Records available: 1945-49.

Mar. 15	16.83	May 4	17.22	July 11	18.83	Oct. 17	18.82
Apr. 14	16.98	June 17	16.89	Aug. 3	20.43	Dec. 12	17.54

B-1-60-27dd. Paul Wells. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	20.93	Mar. 15	20.87	June 17	20.54	Dec. 12	20.99
Feb. 7	20.85	Apr. 14	20.79	Oct. 17	21.69		

B-2-55-30bc-1. Published incorrectly as B-2-55-30bcc2 in previous water-supply papers. Jacob Bickert. Records available: 1945-49.

Jan. 19	24.14	Mar. 8	24.42	May 3	23.55	Oct. 11	24.30
Feb. 7	23.99	Apr. 11	22.69	Aug. 4	25.87	Dec. 5	23.39

B-2-56-1dd-3. Published incorrectly as B-2-56-1ddd in previous water-supply papers. G. A. Foiles. Records available: 1945-49.

Mar. 8	14.28	May 3	13.87	July 4	15.36	Oct. 11	16.32
Apr. 11	14.08	30	13.78	Aug. 4	14.53	Dec. 5	14.83

B-2-56-13aa2. J. L. Hunt. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level
Feb. 7	6.58	May 30	6.05	Oct. 11	13.46
Apr. 11	3.45	July 4	3.91	Dec. 5	10.85

B-2-56-24dd-2. Published incorrectly as B-2-56-24ddd or B-2-56-24aaa in previous water-supply papers. Max Peterson. Records available: 1945-47, 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	19.32	Mar. 8	18.93	July 4	18.89	Dec. 5	20.39
Feb. 7	19.91	Apr. 11	18.68	Oct. 11	21.25		

B-2-60-4ddd. William Reck. Records available: 1945-49.

Jan. 14	56.30	Apr. 14	55.87	June 6	56.25	Oct. 12	58.45
Feb. 14	56.38	May 4	59.61	July 11	60.10	Dec. 9	57.07
Mar. 15	55.78						

B-2-60-13dd. C. A. Bresnahan. Records available: 1945-49.

Jan. 14	49.18	Apr. 14	50.69	July 11	51.28	Oct. 10	52.97
Feb. 14	49.95	May 2	49.69	Aug. 2	53.02	Dec. 12	51.10
Mar. 14	49.88	June 6	49.88				

B-2-60-26dd. Published incorrectly as B-2-60-26dcd in previous water-supply papers. R. A. Baer. Records available: 1945-49.

Feb. 14	61.90	Apr. 14	60.43	June 6	60.28	Oct. 10	66.80
Mar. 15	60.30	May 2	60.07	July 11	61.43	Dec. 12	63.83

B-3-56-7cb. Published incorrectly as B-3-56-7ccb in previous water-supply papers. Jacob Lenhardt. Records available: 1945-49.

Feb. 11	27.47	May 6	29.60	July 11	28.44	Oct. 14	24.92
Mar. 8	27.97	30	28.98	Aug. 2	27.60	Dec. 12	25.00
Apr. 12	29.79						

B-3-56-24bb. Charles Henry. Records available: 1945-49.

Jan. 19	5.83	Apr. 11	4.90	July 4	4.60	Oct. 11	5.40
Feb. 7	5.91	May 3	5.10	Aug. 4	5.80	Dec. 5	4.50
Mar. 8	5.05	30	5.00				

B-3-57-6dc. City of Fort Morgan. Records available: 1945-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	44.96	45.26	45.52	45.80	46.22	46.23	.....	45.71	45.65	45.01	44.19	43.54
2	44.98	45.27	45.53	45.81	46.25	46.23	.....	45.73	.....	44.97	44.16	43.61
3	44.99	45.29	45.54	45.82	46.29	46.22	.....	45.70	.....	44.92	44.13	43.49
4	45.01	45.29	45.55	45.83	46.32	46.17	.....	45.68	45.60	44.90	44.10	43.49
5	45.01	45.30	45.57	45.85	46.32	46.14	.....	45.65	45.58	44.90	44.09	43.45
6	45.01	45.30	45.57	45.86	46.30	46.10	.....	45.65	45.50	44.88	44.07	43.45
7	45.02	45.31	45.59	45.88	46.27	46.10	.....	45.64	45.48	44.86	44.03	43.44
8	45.03	45.32	45.60	45.89	46.25	.....	46.04	45.65	45.41	44.85	44.00	43.42
9	45.04	45.34	45.61	45.90	46.25	.....	45.98	45.70	45.37	44.82	43.98	43.39
10	45.07	45.35	45.62	45.90	46.23	.....	45.92	45.69	45.32	44.78	43.98	43.38
11	45.07	45.36	45.62	45.90	46.22	.....	45.88	45.70	45.30	44.74	43.94	43.38
12	45.09	45.36	45.63	45.93	46.20	.....	45.95	45.71	45.27	44.70	43.94	43.38
13	45.08	45.37	45.64	45.95	.....	.....	45.85	45.78	45.25	44.69	43.92	43.37
14	45.08	45.39	45.65	45.95	.....	.....	45.81	45.75	45.24	44.65	43.90	43.38
15	45.11	45.41	45.66	45.96	46.14	.....	45.78	45.79	45.23	44.61	43.89	43.37
16	45.11	45.41	45.68	45.98	46.12	.....	45.77	45.80	45.24	44.60	43.85	43.35
17	45.11	45.43	45.69	45.99	46.10	.....	45.74	45.80	45.27	44.57	43.82	43.35
18	45.12	45.43	45.69	46.01	46.10	.....	45.74	45.83	45.24	44.55	43.78	.....
19	45.12	45.43	45.70	46.03	46.09	.....	45.75	45.80	45.21	44.54	.....	.....
20	45.13	45.43	45.71	46.09	46.08	.....	45.75	45.80	45.21	44.51	.....	.....
21	45.14	45.45	45.72	46.08	46.06	.....	45.75	.....	45.20	44.47	43.69	43.34
22	45.15	45.46	45.73	46.09	46.04	.....	45.75	45.78	45.19	44.44	43.67	43.35
23	45.18	45.48	45.75	46.09	46.09	.....	45.75	45.84	45.18	44.40	43.64	43.34
24	45.19	45.48	45.77	46.11	46.09	.....	45.74	45.81	45.15	44.38	43.61	43.33
25	45.19	45.49	45.76	46.15	.....	.....	45.74	45.82	45.12	44.36	43.61	43.34
26	45.22	45.50	45.77	46.16	.....	.....	45.74	45.80	45.10	44.34	43.62	43.32
27	45.22	45.50	45.77	46.17	.....	.....	45.75	45.80	45.12	44.31	43.60	43.33
28	45.22	45.51	45.79	46.19	.....	.....	45.78	45.76	45.09	44.30	43.59	43.35
29	45.22	.....	45.79	46.20	46.14	.....	45.76	45.70	45.08	44.28	43.58	43.35
30	45.23	.....	45.80	46.20	46.14	.....	45.74	45.70	45.05	44.26	43.58	43.34
31	45.25	.....	45.80	46.18	.....	.....	45.71	45.69	.....	44.22	.....	43.34

B-3-57-7cc. Published incorrectly as B-3-57-7cbc, Fred Kimball, in previous water-supply papers. Fred Kembel, Sr. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	47.02	Apr. 13	48.85	July 12	50.95	Oct. 24	46.47
Mar. 15	47.52	May 2	48.08	Aug. 3	53.58	Dec. 12	45.85

B-3-57-30bb. Hanna & Gelroth. Records available: 1945-49.

Jan. 13	13.10	Apr. 13	13.79	June 17	13.27	Aug. 3	13.05
Feb. 11	13.39	May 2	13.60	July 12	12.99	Oct. 24	10.60
Mar. 15	13.49						

B-3-58-8cb. Published incorrectly as B-3-58-8ca or B-3-58-8bcc in previous water-supply papers. H. W. Clatworthy. Records available: 1945-49.

Feb. 11	50.30	Apr. 18	51.34	June 6	51.47	Oct. 14	47.08
Mar. 11	50.88	May 2	51.51	Aug. 3	48.30	Dec. 9	48.14

B-3-58-11bc. Published incorrectly as B-3-58-11bb in previous water-supply papers. Alix Stark. Records available: 1945-49.

Jan. 13	54.09	Mar. 11	54.88	June 6	55.76	Oct. 10	55.84
Feb. 11	54.55	Apr. 18	54.74	Aug. 3	57.38	Dec. 12	53.85

B-3-60-4dc. Carl Bretheuer. Records available: 1948-49.

Jan. 14	64.25	Apr. 14	64.39	June 16	63.10	Oct. 14	66.04
Feb. 14	63.76	May 4	63.18	July 13	64.68	Dec. 12	64.89
Mar. 11	63.56						

B-3-60-13cd. Kroh Bros. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	56.32	Mar. 14	56.47	May 2	56.44	Oct. 12	58.37
Feb. 14	56.43	Apr. 14	56.54	June 6	57.11	Dec. 12	57.15

B-3-60-22cc. Published incorrectly as B-3-60-22ccc in previous water-supply papers. B. A. Holden. Records available: 1945-49.

Jan. 14	56.32	Mar. 15	55.78	May 4	56.52	Oct. 17	59.15
Feb. 15	56.10	Apr. 14	55.54	June 6	54.59	Dec. 12	57.45

B-3-60-32eba. L. W. Elstun. Records available: 1945-49.

Jan. 15	42.85	Mar. 15	42.81	June 6	42.83	Dec. 12	43.27
Feb. 15	42.82	Apr. 15	42.82	Oct. 17	43.37		

B-4-55-9dcc. Rudolph & Schooley. Published incorrectly as R. S. Skhooleyet in previous water-supply papers. Records available: 1945-49.

Mar. 8	16.84	May 3	16.89	Aug. 4	16.14	Dec. 1	15.69
Apr. 8	16.92	June 6	17.27	Oct. 19	14.75		

B-4-55-18cc. H. Baumgardner. Records available: 1945-49.

Jan. 19	19.42	Apr. 11	19.92	May 31	20.17	Oct. 19	17.53
Feb. 8	19.49	May 3	21.00	Aug. 4	19.19	Dec. 6	18.79
Mar. 8	19.70						

B-4-56-23dc. Hansen Bros. Records available: 1945-49.

Jan. 19	19.49	Apr. 11	19.95	July 8	18.27	Oct. 19	17.14
Feb. 7	19.64	May 3	19.65	Aug. 4	18.40	Dec. 6	18.29
Mar. 8	19.83	31	19.33				

B-4-60-34dc. Published incorrectly as B-4-60-34dcc in previous water-supply papers. M. J. Bauprez. Formerly owned by H. E. Brubaker. Records available: 1946-49.

Jan. 14	70.68	Apr. 14	69.09	June 16	68.36	Oct. 14	74.86
Feb. 14	70.02	May 4	68.75	Aug. 2	75.65	Dec. 12	71.99
Mar. 11	69.60						

B-5-55-35dd. John Pabst. Records available: 1945-49.

Jan. 19	18.09	Apr. 8	18.46	July 8	17.87	Oct. 19	16.35
Feb. 8	18.22	June 6	18.42	Aug. 4	17.56	Dec. 6	17.67
Mar. 8	18.23						

Otero County

C-22-58-21bd. C. Meyer. Records available: 1945-49. Nov. 29, 30.15.

C-22-59-16dca. C. J. Stauder. Records available: 1945-49. Apr. 5, 20.92; Nov. 29, 19.77.

C-22-59-17bd. W. H. Sauer. Records available: 1945-49. Apr. 5, 13.81; Nov. 29, 13.00.

C-22-59-17ccc. M. Simpson. Records available: 1945-49. Apr. 5, 18.08; Nov. 29, 16.93.

C-22-59-18ccc. M. C. Kesterson. Records available: 1945-49. Apr. 5, 21.19; Nov. 29, 18.74.

C-22-59-24bc. H. I. Barnard. Records available: 1945-49. Apr. 5, 20.05; Nov. 29, 17.60.

14 WATER LEVELS AND ARTESIAN PRESSURE, 1949, NORTHWESTERN STATES

C-22-59-29cbb. M. Madson. Records available: 1945-49. Apr. 5, 13.10; Nov. 29, 12.37.

C-23-57-3bc. H. L. Garber. Records available: 1945-49. Apr. 5, 20.67; Nov. 29, 18.75.

C-23-57-12daa. American Crystal Sugar Co. Records available: 1945-49. Apr. 5, 9.01; Nov. 29, 9.31.

C-23-57-32bdb. J. C. Vroman. Records available: 1945-49. Apr. 5, 11.02; Nov. 29, 9.95.

Pitkin County

C-8-88-27bc. R. O. Sewell. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	29.90	May 9	24.00	July 8	16.11	Oct. 14	24.47
Feb. 10	30.15	25	13.30	Aug. 3	22.76	Nov. 12	29.75
Mar. 24	26.69	June 11	16.34	Sept. 9	25.35	Dec. 5	30.35
Apr. 11	27.88						

Pueblo County

C-20-63-34bcd. Excelsior Ranch. Records available: 1945-49. Nov. 29, 11.21.

C-20-65-32bd. Colorado State Hospital. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, T. 20 S., R. 65 W. Unused driven well, diameter 1 $\frac{1}{4}$ inches, depth 13.9 feet. Measuring point, top of 1 $\frac{1}{4}$ -inch coupling, 3.4 feet above land-surface datum. Replaces well C-20-65-33aa, discontinued in March 1947. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level
June 7	5.99	Aug. 25	6.15	Oct. 23	7.09
July 24	5.60	Sept. 26	5.80	Nov. 24	7.21

C-21-61-9bb. J. A. Werme. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T. 21 S., R. 61 W. Irrigation well, diameter 22 inches, depth 40 feet. Measuring point, top of steel well cover, 0.6 foot above land-surface datum. Equipped with electrically driven turbine pump. Records available: 1949. Apr. 4, 14.82.

C-21-61-23bbb2. A. Grandbush. Formerly owned by Frank Trebis. Records available: 1948-49. Apr. 4, 15.49; Nov. 29, 15.72.

C-21-61-23db. Ralph Wright. Records available: 1945-49. Apr. 4, 11.20; Nov. 29, 11.68.

C-21-62-9cd2. Bert Potestio. Records available: 1946-49. Apr. 5, 16.50; Nov. 29, 15.03.

C-21-63-8ca. J. T. McCorkle. Records available: 1945-49. Apr. 5, 31.08; Nov. 29, 28.92.

C-21-63-11cdc. C. A. Wilcox. Records available: 1945-49. Apr. 5, 19.71; Nov. 29, 18.62.

C-21-64-3dbd. Joseph Thomas. Records available: 1945-49. Apr. 5, 17.78; Nov. 29, 15.47.

C-21-64-10bbc. Tony Morrello. Records available: 1945-49. Apr. 5, 10.55; Nov. 29, 9.26.

Washington County

B-5-54-20bcc. Mr. Palmer. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	14.50	May 3	16.21	July 8	14.07	Oct. 19	12.95
Mar. 8	14.99	31	11.36	Aug. 4	13.80	Dec. 1	13.28
Apr. 8	15.11						

Weld County

B-1-63-2ccc. D. Trupp. Formerly owned by R. Ogi. Records available: 1945-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	57.48	56.78	56.19	55.61	55.18	55.39	54.86	56.06	.....	56.42	55.40	54.40
2	57.46	56.74	56.18	55.60	55.17	55.55	55.00	56.24	.....	56.40	55.39	54.34
3	57.44	56.70	56.15	55.60	55.13	55.61	54.99	56.50	.....	56.38	55.34	54.32
4	57.40	56.67	56.10	55.59	55.23	55.63	55.11	56.69	56.90	56.34	55.29	54.31
5	57.41	56.68	56.10	55.57	55.23	55.55	55.18	56.75	56.79	56.30	55.27	54.25
6	57.39	56.68	56.10	55.54	55.22	55.46	55.18	56.70	56.83	56.25	55.23	54.21
7	57.34	56.60	56.04	55.52	55.19	55.41	55.23	56.74	56.82	56.21	55.19	54.20
8	57.34	56.60	56.05	55.50	55.14	55.39	55.27	56.78	56.75	56.21	55.13	54.16
9	57.33	56.59	56.05	55.52	55.10	55.50	55.36	56.95	56.69	56.19	55.10	54.10
10	57.29	56.57	56.02	55.52	55.10	55.51	55.22	56.91	56.67	56.14	55.05	54.05
11	57.28	56.50	55.98	55.48	55.10	55.45	55.27	56.94	56.62	56.13	55.05	54.07
12	57.26	56.52	55.99	55.44	55.07	55.35	55.39	56.97	56.59	56.10	55.04	54.05
13	57.20	56.50	55.98	55.42	55.06	55.18	55.50	57.00	56.58	56.07	55.00	54.04
14	57.17	56.45	55.95	55.43	55.11	55.07	55.41	57.01	56.60	.....	54.95	.....
15	57.19	56.47	55.92	55.42	55.08	55.02	55.45	57.00	.....	.....	54.90	.....
16	57.19	56.47	55.92	55.39	55.00	54.93	55.36	57.00	.....	55.92	54.90	.....
17	57.11	56.40	55.89	55.36	55.00	54.87	55.30	57.01	.....	55.90	54.87	.....
18	57.10	56.37	55.88	55.33	55.05	54.89	55.18	56.93	56.50	55.87	54.82	53.86
19	57.06	56.35	55.84	55.33	55.00	54.84	55.18	56.81	56.48	55.86	54.78	53.81
20	57.04	56.36	55.85	55.32	54.97	54.78	55.41	56.75	56.45	55.81	54.78	53.82
21	57.00	56.33	55.81	55.31	54.98	54.78	55.60	56.70	56.45	55.78	54.73	53.79
22	56.98	56.32	55.80	55.29	54.98	54.73	55.64	56.69	56.56	55.76	54.69	53.79
23	56.95	56.29	55.74	55.28	55.00	54.70	55.65	56.62	56.63	55.73	54.66	53.74
24	56.95	56.29	55.74	55.25	54.96	54.65	55.68	56.60	56.68	55.69	54.61	53.70
25	56.92	56.25	55.73	55.25	54.98	54.63	55.77	56.61	56.63	55.65	54.59	53.72
26	56.91	56.23	55.71	55.29	54.93	54.61	55.90	56.60	56.69	55.63	54.51	53.64
27	56.87	56.22	55.70	55.25	54.98	54.60	56.04	56.58	56.70	.....	54.48	53.64
28	56.89	56.20	55.69	55.22	54.92	54.60	56.10	56.59	56.67	.....	54.44	53.62
29	56.87		55.69	55.19	54.90	54.60	56.07	56.59	56.53	.....	54.43	53.60
30	56.80		55.67	55.19	54.98	54.69	56.06	56.57	56.47	55.50	54.41	53.55
31	56.78		55.67		55.17		56.09	56.57		55.44		53.55

B-1-63-2dd. H. Scheid. Formerly owned by Mr. Rider. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	41.43	Apr. 15	42.02	July 12	41.11	Oct. 18	38.97
Feb. 15	41.56	May 9	41.83	Aug. 2	40.70	Dec. 9	38.86
Mar. 14	41.74	June 16	41.35				

E-1-63-3cc. John Baumgardner. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	47.47	Apr. 15	45.57	June 16	45.34	Oct. 18	46.08
Feb. 15	47.02	May 9	45.85	July 12	46.69	Dec. 9	43.98
Mar. 14	45.80						

B-1-63-9dd. E. A. Custer. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	49.68	Apr. 15	48.14	June 16	48.13	Dec. 9	47.65
Mar. 14	48.55	May 9	48.50	Oct. 18	48.44		

B-1-63-10cdd. Lee Alden. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	54.10	Mar. 14	53.19	May 9	52.81	Oct. 18	53.57
Feb. 15	53.55	Apr. 15	53.62	June 16	52.90	Dec. 9	51.08

B-1-63-22ddc. J. J. Suppes. Records available: 1945-49.

Jan. 15	79.23	Apr. 15	78.84	June 16	79.39	Oct. 18	82.39
Feb. 15	79.08	May 9	78.69	July 12	79.80	Dec. 9	80.93
Mar. 14	78.97						

B-1-63-27dc. William Vogt. Records available: 1945-49.

Jan. 15	90.99	Mar. 14	91.10	May 9	90.56	Oct. 18	91.72
Feb. 15	92.25	Apr. 15	90.72	June 16	90.39	Dec. 9	90.91

B-1-63-28abb. Hudson Gardens Co. Records available: 1945-49.

Jan. 15	75.30	May 9	76.45	Aug. 2	73.33	Dec. 9	75.25
Apr. 15	76.20	July 12	75.55	Oct. 18	73.92		

B-1-64-18bbd. Joseph DeBell. Records available: 1945-49. Apr. 21, 12.42; Nov. 9, 11.16.

B-1-65-12ccc. Joseph Wuertz. Records available: 1945-49.

Lowest daily water level, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.19	14.30	14.40	14.49	14.52	14.46	11.62	12.30	14.35	12.02	12.27	12.40
2	14.16	14.30	14.40	14.50	14.52	14.48	11.60	12.64	14.38	12.02	12.28	12.40
3	14.22	14.27	14.40	14.50	14.51	14.50	11.30	12.90	14.35	12.05	12.28	12.42
4	14.22	14.30	14.40	14.50	14.52	14.50	11.10	13.02	14.18	12.07	12.29	12.42
5	14.26	14.33	14.42	14.50	14.58	14.50	11.04	13.10	13.85	12.07	12.30	12.39
6	14.25	14.32	14.43	14.48	14.60	14.44	11.10	13.23	13.29	12.08	12.30	12.39
7	14.24	14.30	14.40	14.49	14.60	14.44	11.12	13.40	12.90	12.10	12.25	12.40
8	14.27	14.33	14.40	14.49	14.56	14.38	11.31	13.50	12.62	12.18	12.22	12.40
9	14.29	14.35	14.42	14.53	14.55	13.88	11.32	13.56	12.40	12.18	12.22	12.40
10	14.29	14.35	14.45	14.53	14.57	13.91	11.32	13.56	12.15	12.17	12.20	12.37
11	14.29	14.31	14.42	14.52	14.58	13.93	11.37	13.58	12.09	12.19	12.30	12.42
12	14.28	14.40	14.46	14.50	14.58	13.93	11.40	13.60	12.01	12.20	12.32	12.45
13	14.24	14.40	14.45	14.49	14.59	13.90	11.44	13.61	12.00	12.20	12.31	12.49
14	14.22	14.40	14.45	14.52	14.59	13.91	11.49	13.78	11.97	12.20	12.29	12.49
15	14.30	14.40	14.44	14.53	14.57	13.91	11.50	13.88	11.93	12.20	12.31	12.48
16	14.32	14.40	14.45	14.52	14.52	13.89	11.41	13.71	11.90	12.18	12.33	12.40
17	14.28	14.40	14.43	14.51	14.50	13.61	11.32	13.74	11.91	12.15	12.33	12.42
18	14.26	14.40	14.46	14.50	14.53	12.65	11.08	13.90	11.92	12.19	12.33	12.45
19	14.26	14.42	14.47	14.50	14.52	.....	10.72	13.92	11.91	12.21	12.31	12.44
20	14.22	14.42	14.40	14.50	14.51	11.20	10.20	13.80	11.93	12.20	12.32	12.48
21	14.24	14.40	14.43	14.49	14.51	.....	10.06	13.67	11.93	12.22	12.33	12.50
22	14.25	14.40	14.44	14.53	14.51	10.95	10.68	13.42	11.91	12.24	12.33	12.50
23	14.29	14.39	14.40	14.55	14.50	11.34	11.02	13.50	11.90	12.24	12.33	12.50
24	14.30	14.40	14.45	14.54	14.51	11.43	11.02	13.57	11.90	12.23	12.35	12.49
25	14.31	14.40	14.46	14.50	14.51	11.53	10.88	13.71	11.88	12.22	12.34	12.51
26	14.31	14.42	14.48	14.54	14.51	11.60	10.62	13.79	11.94	12.23	12.30	12.50
27	14.30	14.40	14.47	14.54	14.49	11.64	10.91	13.80	11.97	12.22	12.31	12.51
28	14.31	14.40	14.49	14.54	14.48	11.65	11.44	13.83	11.98	12.22	12.37	12.53
29	14.32		14.49	14.51	14.48	11.67	11.61	14.00	11.96	12.26	12.40	12.55
30	14.32		14.49	14.52	14.45	11.65	11.81	14.14	11.98	12.27	12.40	12.53
31	14.28		14.49	14.46			11.98	14.30		12.27		12.53

B-1-65-24cdc. Joseph Wuertz. Records available: 1945-49. Apr. 21, 14.94; Nov. 9, 12.77.

B-1-65-25cd. Fred Haffner, Sr. Records available: 1945-49. Apr. 21, 31.82; Nov. 9, 30.76.

B-1-66-7dd. W. A. Wallace. Records available: 1945-49. Apr. 21, 19.30; Nov. 8, 15.86.

B-1-66-30ad. G. J. Mancini. Records available: 1945-49. Nov. 9, 13.23.

B-1-66-31dcd. Carl Garanci. Records available: 1945-49. Apr. 21, 19.16; Nov. 9, 18.74.

B-2-62-18cbc. Mrs. Sadie Knox. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	25.78	Apr. 15	25.49	June 13	24.86	Oct. 18	24.04
Feb. 15	25.75	May 9	25.48	July 12	23.47	Dec. 9	23.87
Mar. 15	25.52						

B-2-62-19cd. M. A. Shoeneman. Formerly owned by M. C. Klausner. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Jan. 15	37.25	June 16	35.58	Oct. 18	37.35
Feb. 15	37.06	Aug. 2	38.35	Dec. 9	35.55

B-2-63-15dcd. Mrs. Sadie Knox. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	21.47	Apr. 15	21.13	June 16	16.48	Oct. 18	19.20
Feb. 15	21.49	May 9	20.66	July 12	23.48	Dec. 9	18.98
Mar. 15	21.40						

B-2-63-22cc. H. O. Milcap. Records available: 1945-49.

Jan. 15	32.92	Mar. 15	31.73	May 9	31.70	Oct. 18	32.82
Feb. 15	32.28	Apr. 15	31.65	June 16	30.38	Dec. 9	29.69

B-2-63-22dc. John Zimbleman. Records available: 1945-49.

Jan. 15	36.58	Mar. 15	35.58	May 9	35.54	Oct. 18	35.39
Feb. 15	36.02	Apr. 15	35.59	June 16	34.11	Dec. 9	33.07

B-2-63-23dcc. Published incorrectly as B-2-63-23acc in previous water-supply papers. Edward Weickum. Records available: 1945-49.

Jan. 15	47.66	Mar. 15	46.75	May 9	45.99	Aug. 2	47.55
Feb. 15	48.18	Apr. 15	46.29	June 16	45.57	Dec. 9	43.78

B-2-63-28ddd. C. V. Maddux. Records available: 1945-49.

Jan. 15	38.25	Apr. 15	36.61	June 16	35.29	Oct. 18	37.68
Feb. 15	37.55	May 9	36.35	Aug. 2	39.72	Dec. 9	34.95
Mar. 15	37.14						

B-2-63-32aa. Tony Batelli. Formerly owned by E. J. Elam. Records available: 1945-49.

Jan. 15	28.19	Apr. 15	28.67	July 12	27.63	Oct. 18	25.97
Feb. 15	28.14	May 9	28.80	Aug. 2	27.37	Dec. 9	25.79
Mar. 15	28.69	June 16	28.61				

B-2-63-34ccc. R. L. Martin. Records available: 1945-49.

Jan. 15	53.12	Apr. 15	51.36	June 16	51.17	Oct. 18	51.85
Feb. 15	52.33	May 9	51.19	July 12	51.23	Dec. 9	49.82
Mar. 15	51.93						

B-2-63-35dcc. William A. Carlson. Records available: 1945-49.

Jan. 15	47.15	Apr. 15	46.32	June 16	45.31	Oct. 18	45.16
Feb. 15	46.85	May 9	45.93	July 12	45.06	Dec. 9	44.28
Mar. 15	46.50						

18 WATER LEVELS AND ARTESIAN PRESSURE, 1949, NORTHWESTERN STATES

B-2-63-36bcb. Martin Scheid. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	47.75	Mar. 15	47.07	May 9	46.37	Oct. 18	47.32
Feb. 15	47.36	Apr. 15	46.62	June 16	45.79	Dec. 9	45.45

B-2-64-30cbbc. Floyd Schroeder. Records available: 1945-49. Apr. 21, 10.14; Nov. 9, 10.10.

B-2-66-7ddd. A. L. Johnson. Records available: 1945-49. Apr. 20, 13.06; Nov. 8, 10.26.

B-2-66-20bc. E. F. Krause. Records available: 1945-49. Apr. 20, 16.57; Nov. 8, 11.74.

B-22-66-29cc. S. J. Rhode. Records available: 1945-49. Apr. 20, 20.35; Nov. 8, 16.34.

B-3-64-17cc. E. D. Seldin. Records available: 1945-49. Apr. 21, 5.80; Nov. 9, 6.22.

B-3-64-30ccc. Mrs. Maud C. Hanson. Records available: 1945-49. Apr. 21, 5.74; Nov. 9, 6.87.

B-3-66-18cbcb. C. C. Oster. Records available: 1947-49. Apr. 20, 18.26; Nov. 8, 12.34.

B-4-64-1ccc. Mrs. Alice St. John. Records available: 1945-48. Measurements discontinued October 1948.

B-4-64-1ccc2. Mrs. Alice St. John. Irrigation well, diameter 18 inches, depth unknown. Measuring point, top of pump base, 0.14 foot above top of casing. Equipped with electrically driven turbine pump. Records available: 1949. Apr. 21, 8.17; Nov. 9, 7.36.

B-4-64-10ddd. F. L. Chestnut. Records available: 1945-49. Apr. 21, 7.18; Nov. 9, 6.43.

B-4-64-12cc. H. Duell. Records available: 1945-49. Apr. 21, 14.10; Nov. 9, 12.20.

B-4-65-6da. C. E. Goodner. Records available: 1945-49. Apr. 20, 13.84; Destroyed, measurements discontinued.

B-4-65-6da2. Replaces B-4-65-6da. C. E. Goodner. Irrigation well, diameter 18 inches, depth 83 feet. Measuring point, top of casing, 0.5 foot above land-surface datum. Equipped with electrically driven turbine pump. Records available: 1949. Nov. 8, 10.21.

B-4-65-18daa. Root Bros. Records available: 1945-49. Apr. 20, 9.96; Nov. 8, 8.04.

B-4-66-9cdc. E. S. Linden. Records available: 1946-49. Apr. 20, 26.14; Nov. 8, 19.45.

B-4-66-13dd. Paul Jewel. Records available: 1945-49. Apr. 20, 16.40; Nov. 8, 14.67.

B-4-66-14bab. W. H. Ewing. Records available: 1945-49. Apr. 20, 20.04; Nov. 8, 13.95.

B-4-66-15ccc. H. G. Martin. Records available: 1945-49. Apr. 20, 27.06; Nov. 8, 19.23.

B-4-66-15ddd. M. L. Winslow. Records available: 1945-49. Apr. 20, 10.98; Nov. 8, 5.54.

B-4-66-17bcc. R. O. Larsen. Records available: 1945-49. Apr. 20, 7.35; Nov. 8, 7.16.

B-4-66-19ddd. J. C. Breckon. Records available: 1945-49. Apr. 20, 20.54; Nov. 8, 13.77.

B-4-66-27add. John O. Lorenz. Records available: 1945-49. Apr. 20, 6.71; Nov. 8, 4.50.

B-4-66-28cc. Elbert Cogburn. Records available: 1945-49. Apr. 20, 22.44; Nov. 8, 17.77.

B-4-66-31dcc. W. D. Farr. Records available: 1945-49. Apr. 20, 19.82; Nov. 8, 14.22.

B-4-67-13cd. E. H. Sappington. Records available: 1945-49. Apr. 20, 9.51; Nov. 8, 5.15.

B-5-64-35ddd. P. Hoshiko. Records available: 1945-49. Apr. 21, 7.29; Nov. 9, 5.19.

B-5-65-13ddc. F. A. Plumb. Records available: 1945-49. Apr. 21, 17.88; Nov. 9, 10.05.

B-5-65-26bcc. George Alles, Jr. Records available: 1945-49. Apr. 20, 10.18; Nov. 8, 6.59.

B-5-65-27ccb. Henry A. Alles. Records available: 1945-49. Apr. 20, 14.26; Nov. 8, 10.37.

B-6-63-29bbb. H. L. Wells. Records available: 1945-49. Apr. 22, 14.94; Nov. 16, 14.79.

B-6-64-24aaa. M. R. Leaver. Records available: 1945-49. Apr. 22, 11.35; Nov. 16, 10.29.

B-6-64-25aad. Mrs. C. W. Bell. Records available: 1947, 1949. Apr. 22, 16.46; Nov. 16, 17.30.

B-6-64-26da. Asa Jones. Records available: 1945-49. Apr. 22, 9.10; Nov. 16, 8.71.

B-6-64-30bba. M. O. Patten. Records available: 1945-47, 1949. Apr. 22, 13.81; Nov. 16, 13.52.

B-6-64-32bab. Charles Moore. Records available: 1945-49. Apr. 22, 27.29; Nov. 16, 26.64.

B-6-65-3bb. T. H. Wilson. Records available: 1945-49. Apr. 22, 7.87; Nov. 16, 8.11.

B-6-65-10bbb. L. C. Roberts. Records available: 1945-49. Apr. 22, 7.87; Nov. 16, 8.71.

B-6-65-15bbb. H. N. Huff. Records available: 1945-49. Apr. 22, 11.38; Nov. 16, 10.89.

B-6-65-17bbc. H. W. Farr. Records available: 1945-49. Apr. 22, 26.55; Nov. 16, 25.86.

B-6-65-18bbb. James Milne. Records available: 1945-49. Apr. 22, 27.54; Nov. 9, 26.79.

B-6-65-21aab. H. N. Bickling. Records available: 1945-49. Apr. 22, 11.19; Nov. 16, 9.49.

B-6-65-34bb. Published incorrectly as B-6-15-34bb in previous water-supply papers. Ildo Williams. Records available: 1945-49. Apr. 22, 15.86; Nov. 16, 12.91.

20 WATER LEVELS AND ARTESIAN PRESSURE, 1949, NORTHWESTERN STATES

B-6-66-1bab. Gust Johnson. Records available: 1945-49. Apr. 22, 27.43; Nov. 9, 29.10.

B-6-66-20ccd. J. K. Emerson. Records available: 1945-49. May 24, 16.02; Nov. 16, 13.14.

B-6-67-12bb. Chris Felte. Records available: 1945-49. May 24, 8.43; Nov. 16, 8.10.

B-6-67-17dc. Henry Kraus. Records available: 1945-49. May 24, 7.59; Nov. 16, 7.28.

B-6-67-22aaa. F. A. Davis. Records available: 1945-49. May 24, 7.57; Nov. 16, 7.37.

B-7-65-7bcc. A. B. Stewart. Records available: 1945-49. Apr. 22, 36.72; Nov. 16, 38.39.

B-7-65-10ccb. M. H. Graham. Records available: 1945-49. Apr. 22, 14.44; Nov. 16, 15.65.

B-7-65-16bbb. K. Akahoshi. Records available: 1945-48. No measurement made in 1949.

B-7-65-18cdb. Harry Clark. Records available: 1945-48. No measurement made in 1949.

B-7-65-21aaa. H. G. Liebhardt. Records available: 1945-49. Apr. 22, 7.47; Nov. 16, 7.98.

B-7-65-28aa. R. F. Blandon. Records available: 1945-49. Apr. 22, 14.82; Nov. 16, 15.11.

B-7-65-30bbb. J. L. Nix. Records available: 1945-48. No measurement made in 1949.

B-7-66-1ab. C. A. Pettibone. Records available: 1945-49. Apr. 22, 17.35; Nov. 16, 16.10.

B-7-66-2abb. L. Fletcher. Records available: 1945-49. Apr. 22, 29.88; Nov. 16, 27.56.

B-7-66-14aba. A. A. Larson. Records available: 1945-49. Apr. 22, 16.79; Nov. 16, 14.89.

B-7-66-14bcc. Mrs. Alice Ehn. Records available: 1945-49. Apr. 22, 16.62; Nov. 16, 15.50.

B-7-66-25bcc. Guy Clark. Records available: 1945-49. Apr. 22, 29.63; Nov. 9, 30.54.

B-8-65-8bbb. H. L. Kramer. Records available: 1945-49. Apr. 22, 22.53; Nov. 16, 21.37.

B-8-65-20dbb. Edward Vadeburg. Records available: 1945-49. Apr. 22, 14.43; Nov. 16, 15.74.

B-8-65-28bbb. W. T. Miller. Records available: 1945-49. Apr. 22, 12.53; Nov. 16, 12.34.

B-8-65-34abb. J. F. Duncan. Records available: 1945-49. Apr. 22, 6.68; Nov. 16, 5.11.

B-8-65-34dcc. A. B. McClave. Records available: 1945-49. Apr. 22, 6.97; Nov. 16, 6.84.

B-8-66-1bab. Herman Babb. Records available: 1945-49. Apr. 22, 21.82; Nov. 16, 20.36.

B-8-66-22aaa. Troy Jones. Records available: 1945-49. Apr. 22, 19.30; Nov. 16, 20.01.

B-8-66-26cbb2. C. Fisk. Records available: 1945-49. Apr. 22, 26.13; Nov. 16, 24.18.

B-9-65-18cbb. U. S. Dept. of Agriculture. Records available: 1945-49. Apr. 22, 20.73.

B-10-66-12dd. U. S. Dept. of Agriculture. Records available: 1945-49. Apr. 22, 23.82.

B-10-66-22ccc. U. S. Dept. of Agriculture. Records available: 1945-49. Apr. 22, 44.36.

IDAHO

By R. L. Nace and S. W. Fader

PROGRAM OF WORK

The observation-well program in Idaho, begun in 1946, was continued in 1949 in cooperation with the State Department of Reclamation. Measurements in observation wells in Ada and Canyon Counties were made in cooperation with the Nampa-Meridian Irrigation District; in Kootenai County, in cooperation with the Washington Water Power Company and Farragut College; and in Minidoka County in cooperation with the Federal Bureau of Reclamation. Investigations on special projects for the Federal Bureau of Reclamation were continued in the Rathdrum Prairie area of Kootenai County and in the Central Snake River Plain in Gooding, Jerome, and Minidoka Counties. A study of ground-water resources in the Central Snake River Plain in Butte, Bonneville, and Bingham Counties was begun in cooperation with the Atomic Energy Commission. At the end of the year measurements were being made in 79 wells, 2 of which were equipped with recording gages.

FLUCTUATIONS OF WATER LEVELS

In the heavily irrigated Boise Valley, in Ada and Canyon Counties, the effects of local precipitation are largely masked by the effects of recharge by seepage losses from irrigation. Water levels in wells in the valley for which long-term records are available reached new highs during 1949, chiefly in September near the end of the irrigation season. Most of the wells made net gains during the year despite below-normal precipitation.

Well 7N 2E-34cal, in Boise County, reached a year-end level (39.9) nearly the same as at the end of 1948. This well, in a mountain valley area, represents the natural ground-water storage available to maintain the dry-season flow of local streams. (See fig. 2.)

There was a net rise of 2.2 feet in year-end level in well 3N 41E-6cbl in Bonneville County, near the edge of an extensive irrigated area.

Water levels in wells in Kootenai County at the end of the year ranged from about 3 feet below to slightly above the 1948 year-end levels; all

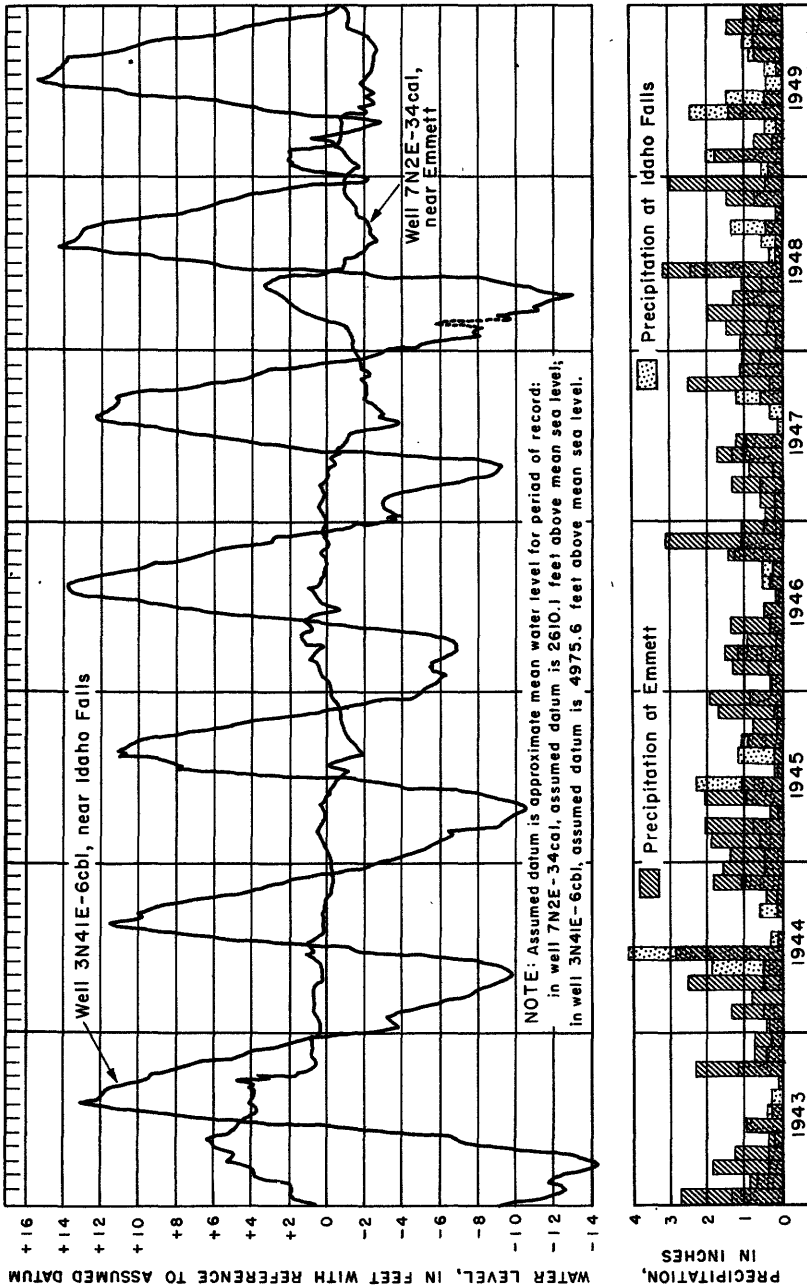


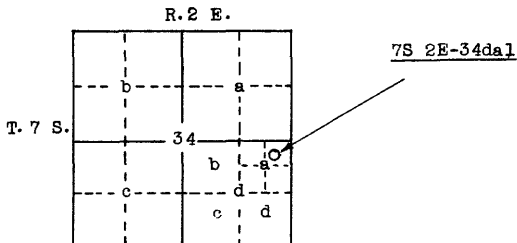
Figure 2.--Graphs showing comparison of weekly water-level fluctuations in two wells in Idaho and monthly precipitation at nearby Weather Bureau stations.

levels observed were substantially above average at the end of the year; during the year water levels in several wells rose to new record high levels. In the northern part of the Rathdrum Prairie, water levels appear to reach their highest yearly levels in June and July. Wells in the southwestern part tend to reach their highest yearly levels in September and October. Wells near Pend Oreille lake attain their highest levels in May and June, when the stage of the lake is at its maximum.

At the end of the year in Malad Valley in Oneida County water levels in 17 wells were above the 1948 year-end levels in amounts ranging from 0.2 foot to 3.5 feet. Year-end departures of water levels from average ranged between -4.0 feet to +3.6 feet. Precipitation was slightly above normal, and substantially more than in 1948. Differences in the net changes of water levels and in departures from average are partly a result of local pumpage and discharge by flowing wells. The general net rise in levels, however, indicates that the recharge exceeded the draft on the supply during the year, which is counter to the theory that ground water in the area is overdeveloped.

WELL-NUMBERING SYSTEM

Idaho well numbers indicate the location of wells within the official rectangular subdivisions of the public lands, with reference to the Boise base line and meridian. The first two segments of a number designate the township and range. The third 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 diagram below. Within quarter-sections the 40-acre tracts are lettered in the same manner. Well 7S 2E-34da1 is the first well recorded in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 7 S., R. 2 E.



Water-level fluctuations during 1949 in 39 observation wells are listed in the following table. The departure from average is estimated on the basis of non-weighted average of all recorded measurements.

Comparison of net changes in water levels in 39 observation wells in Idaho with precipitation, 1949

County and well no.	Water levels		Precipitation in inches at nearest U. S. Weather Bureau Station			
	Net change	Departure from average (feet)	Station	Total precipitation	Departure from normal	Net departure from 1948 total
Ada:						
4N 1W-36dal	+1.1	+6.4	Meridian	4.96	-6.72	-6.57
3N 1W-1cc1	+ .4	+2.5				
10cc1	+ .4	+1.4				
3N 1E-4ba1	+1.2	+7.5	Nampa	4.93	-4.92	-4.89
5aa1	-5.0	+2.6	Boise (airport)	7.43	-5.67	-4.48
11bb1	-2.2	+3.1				
Boise:						
7N 2E-34ca1	- .1	-1.4	Emmett	8.98	-2.47	-6.31
Bonneville:						
3N 41E-6cb1	+2.2	- .6	Ririe	14.12	--	- .81
Canyon:						
3N 2W-23dc1	+ .6	+2.2	Caldwell	5.13	-5.08	-7.63
25aa1	+ .7	+4.3	Nampa	4.93	-4.92	-4.89
3N 3W-25aa1	+2.7	+3.6				
Cassia:						
16S 27E-26ab1	-1.5	-1.6	Strevell	12.26	+ .70	+2.02
Kootenai:						
53N 4W-24bb1	+ .4	+12.1				
51N 5W-33bb1	-1.0	+10.0	Coeur d'Alene	18.43	--	-14.32
50N 5W-1aa1	-4.6	+14.1				
Latah:						
39N 5W-7dd1	--	-12.3	Moscow	18.45	-3.25	-15.56
10ac1	--	- .7				
Oneida:						
14S 33E-31ab1	--	+ 1.7				
14S 35E-10ab1	- .0	+ .7				
13db1	+1.1	-3.3				
27aa1	+ .4	-3.1				
35bd1	+1.1	-2.7				
36bc1	+ .3	-2.5				
14S 36E-3ca1	...	- .3				
29ba1	+2.1	-3.1				
32aa1	+ .7	-2.6				
15S 35E-1da1	+ .5	-2.7	Malad	16.89	+1.88	+4.10
1db1	- .4	-3.0	Malad (airport)	17.55	--	+5.32
12ab2	+3.5	+2.5				
12bb1	+ .2	-4.0				
14ad1	+ .4	+ .8				
15S 36E-5aa4	+4.2	+ .6				
6ac2	+3.1	-2.0				
6ba1	- .1	-3.2				
8aa1	+6.4	+3.6				
29ca2	+1.3	+ .5				
30ab1	-1.7	-2.8				
30ab2	+ .5	-1.2				
Fayette:						
7N 5W-3da1	+2.5	+2.8	Emmett	8.98	-2.47	-6.31

Summary of net changes in water levels, in feet, in 40 observation wells in Idaho, 1949									
County and well no.	Length of record (years)	Highest		Lowest		Extreme observed range	Year-end water level 1949		Above lowest level in percent of total observed range
		Water level	Date	Water level	Date		Water level	Date	
Ada:									
4N 1W-36dal	29	0.4	9-23-49	23.7	2-9-15	23.3	0.4	9-23	+1.1
3N 1W-10cl	19	6.2	9-23-49	18.7	4-14-15	12.5	7.8	10-28	+ .4
10cl	31	1.3	9-22-49	11.0	12-13	9.7	3.1	10-27	+ .4
3N 1E-48al	21	10.7	10-30-49	27.6	11-26-26	16.9	10.7	10-30	+1.2
5aal	17	5.0	8-30-49	21.3	3-23-35	16.3	12.0	12-27	-5.0
11bbl	26	4.3	7-18-49	19.9	3-31-24	15.6	7.6	10-29	-2.2
Boise:									
7N 2E-34cal	7	31.6	5-12-43	42.1	8-6-47	10.5	39.9	12-28	- .1
Bonneville:									
3N 41E-6cbl	10	33.5	7-30-49	63.4	3-27-43	29.9	49.2	12-31	+2.2
Canyon:									
3N 2W-23dcl	24	16.9	10-21-25	28.8	11-18-29	11.9	18.7	10-26	+ .6
25aal	21	9.2	9-23-49	21.0	4-21-24	11.8	10.3	10-26	+ .7
3N 3W-25aal	17	6.9	9-23-49	12.5	2-23-42	5.6	6.9	9-23	+2.7
Cassia:									
13S 26E-24aal	10	2.1	5-19-49	8.6	11-7-49	6.5	8.6	11-7	--
16S 27E-26abl	13	11.7	10-8-41	31.8	2-25-49	20.1	19.0	11-7	-1.5
Kootenai:									
53N 4W-24bbl	21	451.6	7-11-49	478.1	1-15-32	26.5	455.4	12-26	+ .4
51N 5W-33bbl	22	139.3	6-23-49	166.6	2-11-32	27.3	144.0	12-29	-1.0
50N 5W-1aal	21	179.5	10-25-48	212.3	12-8-31	32.8	184.1	12-31	-4.6
Latah:									
39N 5W-7ddl	7	50.1	4-19-38	65.0	4-29-49	14.9	--	--	--
10acl	10	6.0	3-21-49	17.6	2-1-37	11.6	--	--	--
Oneida:									
14S 33E-31abl	9	3.3	5-17-49	7.2	7-28-41	3.9	4.2	11-7	--
14S 35E-10abl	8	115.4	5-4-48	124.6	10-13-47	9.2	117.6	11-4	.0
13bbl	7	66.7	5-4-48	76.3	10-21-44	9.6	74.1	11-4	+1.1
27aal	7	52.6	4-9-47	60.0	10-25-48	7.4	59.7	11-4	+ .4
35bbl	7	+29.0	2-25-46	+16.9	9-27-49	12.1	+21.2	11-4	+1.1
36bcl	7	15.7	4-1-47	22.5	9-27-49	6.8	19.4	11-4	+ .3
14S 36E-3aal	9	59.2	10-16-32	72.8	4-12-32	13.6	69.9	11-4	--
29aal	8	23.2	7-20-43	32.4	10-25-48	9.2	30.3	11-5	+2.1
32aal	7	+7.6	5-2-44	+ .7	7-3-48	6.9	+1.5	11-5	+ .7
15S 35E-1dal									
1dal	6	+33.1	5-3-44	+20.4	9-27-49	12.7	+25.0	11-4	+ .5
12a2d	7	+25.9	5-3-44	+12.9	7-3-48	13.0	+18.1	11-4	+ .4
	7	+24.3	3-9-49	+13.0	5-5-48	11.3	+20.5	11-4	+3.5

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Ada County

4N 1W-36dal. Richard Foster. Drilled and dug domestic well, diameter 3 inches, depth 184 feet. Water level influenced by local irrigation. Records available: 1915-17, 1925, 1927-49. Mar. 1, 4.5; May 24, 3.3; July 18, 1.1; Sept. 23, 0.4.

3N 1W-10c1. Jerald Dunten. Drilled stock and domestic well. Water level influenced by local irrigation. Records available: 1913-16, 1925, 1934-35, 1938-49. Mar. 4, 10.4; May 24, 6.4; July 18, 6.7; Sept. 23, 6.2; Oct. 28, 7.8.

3N 1W-10c1. Arthur Keck. Dug domestic water-table well in shallow Quaternary sediments. Water level influenced by local irrigation. Records available: 1912-17, 1924-25, 1927-49. Mar. 4, 4.6; May 24, 2.0; July 18, 1.4; Sept. 22, 1.3; Oct. 27, 3.1.

3N 1E-4ba1. Ellen F. Beebe. Dug domestic water-table well in Quaternary sand and gravel, diameter 36 inches, depth 50 feet. Water level influenced by irrigation. Records available: 1926-29, 1933-49. Mar 8, 18.5; Oct. 30, 10.7.

3N 1E-5aa1. J. E. Wingate. Dug domestic water-table well in Quaternary sand and gravel, diameter 36 inches, depth 60 feet. Water level influenced by local irrigation. Records available: 1933-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 1	15.6	May 24	11.2	Aug. 9	5.6	Oct. 25	8.0
8	16.0	31	11.0	16	5.5	30	8.4
15	16.3	June 7	10.0	23	5.4	Nov. 1	8.5
22	16.6	14	9.3	30	5.0	9	9.0
29	16.9	21	8.8	Sept. 6	5.2	15	9.5
Apr. 5	17.3	28	7.5	13	5.7	22	10.0
12	17.5	July 6	7.2	21	5.5	29	10.3
19	17.4	13	6.2	28	5.5	Dec. 5	10.6
26	16.3	18	6.1	Oct. 4	5.9	14	10.9
May 3	15.0	26	5.8	11	6.7	21	11.4
10	13.8	Aug. 2	5.8	19	7.5	27	12.0
17	12.7						

3N 1E-11bb1. H. L. Randall. Dug stock and domestic well. Water level influenced by local irrigation. Records available: 1924-49. Mar. 7, 11.7; May 24, 10.0; July 18, 4.3; Oct. 29, 7.6.

3N 2E-21bc1. Boise Project Board of Control. Drilled drainage and irrigation well in shallow sand and gravel, diameter 14 inches, depth 58 feet. Water level influenced by local irrigation. Records available: 1947-49. Mar. 1, 10.2; July 18, 21.9, pumping; Sept. 23, 4.4.

Blaine County

8S 26E-15bd1. James Hruza. Drilled stock well in Snake River basalt, diameter 4 inches, depth 177 feet. Water level influenced by regional recharge. Records available: 1948-49.

Feb. 26	177.3	June 10	171.3	Sept. 17	169.6	Oct. 28	171.7
Apr. 8	172.5	Aug. 10	172.6	29	169.6	Dec. 22	170.8
May 19	174.8	23	169.6				

Boise County

7N 2E-34cal. Jack N. Kohtala. Dug domestic well in Quaternary hill-wash, diameter 60 to 36 inches, depth about 42 feet. Water level influenced by local precipitation. Records available: 1943-49.

7N 2E-34cal--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	39.5	Apr. 6	39.9	July 20	41.1	Oct. 12	40.9
12	40.0	13	40.1	27	41.2	19	40.7
19	41.1	20	41.4	Aug. 3	42.0	26	40.9
26	41.1	27	40.5	10	41.8	Nov. 2	40.7
Feb. 2	40.5	May 4	40.0	17	41.8	9	40.4
9	40.3	11	41.7	24	40.8	16	40.4
16	40.1	18	41.4	31	41.5	23	40.2
23	40.1	24	41.1	Sept. 7	41.5	30	40.1
Mar. 2	39.3	25	40.9	14	41.0	Dec. 7	40.0
9	39.1	June 29	49.1	21	41.5	14	40.4
16	39.1	July 6	41.8	28	41.7	21	40.1
23	39.0	13	42.8	Oct. 5	40.7	28	39.9
30	39.7						

Bonneville County

3N 41E-6cbl. Poplar Store. Dug domestic well, depth 86 feet. Water level influenced by local precipitation and irrigation. Records available: 1923, 1925, 1942-49.

Jan. 1	48.4	Apr. 9	50.6	July 2	38.0	Oct. 8	38.3
8	47.9	16	50.9	9	36.7	15	39.7
15	47.7	23	50.9	16	34.9	22	40.5
22	47.8	30	50.3	23	34.2	29	42.0
29	47.1	May 7	49.9	30	33.5	Nov. 12	43.5
Feb. 5	47.3	14	49.1	Aug. 6	33.6	19	44.4
12	47.2	21	46.3	13	34.4	26	45.3
19	47.4	28	45.7	27	34.8	Dec. 5	45.9
Mar. 5	47.3	June 4	44.9	Sept. 3	35.1	10	47.0
12	49.8	11	43.5	10	35.1	24	48.8
19	49.1	18	41.1	24	36.8	31	49.2
26	48.2	25	39.0				
Apr. 2	50.0						

Canyon County

3N 3W-25aal. Charles Imberg. Drilled unused well, diameter 6 inches, depth 145 feet. Records available: 1933-49. Mar. 1, 12.0; May 24, 8.8; July 18, 8.0; Sept. 23, 6.9.

3N 2W-23dcl. Mrs. A. J. Richards and others. Drilled stock and domestic well, diameter 6 inches, depth about 133 feet. Water level influenced by local irrigation. Records available: 1921, 1925, 1928-49. Mar. 2, 21.4; May 24, 20.9; Sept. 23, 17.7; Oct. 26, 18.7.

3N 2W-25aal. John Hubbard. Drilled domestic and stock well, diameter 6 inches, depth 34 feet. Water level influenced by local irrigation. Records available: 1921, 1924-25, 1928, 1933-49. Mar. 2, 14.0; May 24, 11.2; July 18, 11.5; Sept. 23, 9.2; Oct. 26, 10.3.

Cassia County

10S 23E-20dcl. City of Burley well 1. Dug and drilled unused well, diameter 72 inches, depth 42 feet. Water in Quaternary alluvial sand and gravel. Water level influenced by local irrigation and pumpage of nearby wells. Records available: 1947-49. Jan. 4, 13.6; Feb. 1, 14.4; Mar. 1, 14.6; Apr. 1, 15.9; May 3, 16.8; June 1, 13.9; July 2, 17.0; Aug. 1, 16.0; Sept. 1, 13.7; Oct. 1, 13.8.

10S 23E-20dc3. City of Burley well 5. Drilled public-supply well, diameter 24 to 15 inches, depth 1,115 feet. Artesian water in gravel and lava of Pleistocene (?) age. Records available: 1947-49. Jan. 4, 191; Feb. 1, 193; Mar. 1, 192; Apr. 1, 193; May 3, 192; June 1, 191; July 2, 199; Aug. 1, 191; Sept. 1, 190; Oct. 1, 191.

10S 25E-10ba1. Robert Simplot. Drilled stock well in Snake River basalt, diameter 6 inches, depth 175 feet. Water level influenced by regional recharge. Records available: 1928, 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 8	164.5	Aug. 19	154.7	Sept. 2	154.2	Sept. 28	153.8
May 19	165.2	23	154.4	10	153.9	Nov. 7	157.4
Aug. 13	154.9	27	154.3	17	154.0		

11S 26E-14ab1. G. S. Matthews. Drilled stock well in Quaternary sand and gravel, diameter 4 inches, depth 157 feet. Water level influenced by local precipitation and recharge. Records available: 1948-49. Feb. 15, 110.1; Feb. 25, 110.7; Apr. 8, 109.7; May 19, 110.1; June 9, 106.4; Aug. 23, 104.4; Sept. 17, 104.8; Sept. 28, 107.0; Nov. 7, 109.0.

11S 26E-26cc1. Robert Simplot. Dug unused well in Quaternary sand and gravel, diameter 36 inches, depth 33 feet. Water level influenced by local precipitation and recharge. Records available: 1928, 1948-49. Feb. 24, 31.8; May 19, 31.8; June 9, 30.8; Aug. 24, 31.1; Sept. 17, 31.2; Sept. 28, 31.1; Nov. 7, 28.3.

13S 22E-9dc1. Owner unknown. Dug unused well, diameter 52 inches, depth 112.5 feet. Water in sand and gravel. Water level influenced by regional recharge. Records available: 1948-49. Feb. 24, 77.1; Apr. 9, 80.1; June 10, 81.3; Aug. 23, 72.8; Sept. 17, 69.5; Sept. 29, 69.0; Nov. 7, 69.1.

13S 26E-24aa1. John C. Hitt. Dug irrigation well in Quaternary alluvial gravel, diameter 36 to 8 inches, depth 24 feet. Water level influenced by local irrigation and precipitation. Records available: 1941-49. May 19, 2.1; Sept. 17, 6.2; Sept. 28, 6.4; Nov. 7, 8.6.

13S 27E-30bd1. A. D. Pierce (previously published as J. D. Pierce). Dug irrigation well, diameter 72 inches, depth 27 feet. Water in Quaternary alluvial cobble gravel. Water level influenced by local irrigation and stage of Raft River. Records available: 1947-49. Feb. 25, 16.7, pumping; May 19, 4.4; June 8, 3.5; Sept. 28, 6.3; Nov. 7, 6.0.

15S 24E-26bc1. Owner unknown. Dug unused well in Quaternary hillwash and gravel, diameter 48 inches, depth 41 feet. Water level influenced by local precipitation and recharge. Records available: 1948-49. May 19, 33.9; June 8, 35.6; Aug. 23, 35.1; Sept. 17, 36.7; Sept. 28, 36.4; Nov. 7, dry at 36 feet.

15S 25E-6ab1. Jenny Wake. Dug domestic well in Quaternary hillwash and gravel, diameter 6 inches, depth 34 feet. Water level influenced by local precipitation and recharge. Records available: 1948-49. Feb. 25, 31.0; May 19, 24.1; Aug. 23, 23.2; Sept. 17, 24.6; Sept. 28, 26.5; Nov. 7, 28.4.

16S 27E-26ab1. Mr. Cook. Dug unused domestic well in Quaternary hillwash, diameter 60-24 inches. Water level influenced by local precipitation. Records available: 1936, 1938-49. Feb. 25, 31.8; June 8, 26.7; Aug. 23, 12.3; Sept. 17, 13.7; Sept. 28, 14.9; Nov. 7, 19.0.

Elmore County

1N 4E-23aa1. James O. Beck. Drilled test well in Quaternary alluvial sands, diameter 18 inches, depth 64 feet. Water level influenced by local precipitation. Records available: 1947-49. Mar. 28, 27.5; Sept. 30, 44.7, pumping.

Gem County

7N 2W-35ab1. R. J. Howard. Dug domestic well, diameter 36 inches, depth 99 feet. Water level influenced by local irrigation. Records available: 1941-42, 1948-49.

7N 2W-35ab1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 1	79.0	Apr. 20	80.1	May 25	79.9	June 22	78.7
23	78.9	27	80.3	31	79.1	Dec. 16	76.7
30	78.8	May 3	80.5	June 8	79.5	23	77.0
Apr. 6	79.5	11	80.3	15	79.4	30	76.8
13	79.8	19	80.4				

a Irrigation water turned into nearby ditches.

Gooding County

7S 15E-32ad1. Parr. Drilled stock well, diameter 6 inches. Water in Snake River basalt. Water level influenced by recharge from local irrigation. Records available: 1948-49. Nov. 10, 1948, 144.7; Dec. 24, 1948, 147.3

Feb. 15	146.5	Apr. 9	148.5	May 21	147.6	Sept. 30	137.0
Apr. 27	146.7	Apr. 22	150.4	Aug. 9	142.1	Dec. 23	117.8
Mar. 10	150.9						

Jerome County

8S 19E-33cal. U. S. Bureau of Reclamation. Drilled unused well in Snake River basalt, diameter 12 inches, depth 403 feet. Records available: 1946, 1948-49. Sept. 29, 159.4; Dec. 22, 170.1.

Kootenai County

53N 4W-24bb1. Washington Water Power Co. well 91. C. T. Jurgens. Water in fluvioglacial gravel. Water level influenced by regional recharge. Records available: 1929-49.

Jan. 3	456.08	May 2	457.58	July 25	451.58	Oct. 17	453.35
10	456.33	9	455.98	Aug. 1	451.63	24	453.53
Feb. 7	457.03	16	455.33	8	451.73	31	453.73
14	457.23	23	454.63	15	451.83	Nov. 7	453.98
21	457.43	30	454.33	22	451.93	14	454.23
28	457.63	June 6	454.13	29	452.08	21	454.43
Mar. 7	457.78	13	452.92	Sept. 5	452.23	28	454.55
Apr. 4	458.01	20	452.43	12	452.38	Dec. 5	454.78
11	457.78	27	452.22	19	452.55	12	454.95
18	457.56	July 4	451.93	26	452.73	19	455.15
25	456.88	11	451.58	Oct. 3	452.88	26	455.36
May 1	457.57	18	451.58	10	453.08		

53N 3W-31aal. A. L. Ramm. Dug and drilled unused well, diameter 36 inches to 367 feet, depth about 395 feet, 6-inch open hole from 367 to 395 feet. Water in fluvioglacial gravel. Records available: 1948-49. June 17, 1948, 355.3; Aug. 30, 1948, 353.7.

May 1	352.6	July 19	349.9	Aug. 9	350.3	Aug. 30	350.8
July 6	349.8	26	350.0	16	350.4	31	350.8
12	349.8	Aug. 2	350.1	23	350.5		

Daily noon water levels, from recorder graph

Day	Sept.	Oct.	Nov.	Dec.
1	350.8	351.6	353.0	353.2
2	350.8	351.7	353.0	353.2
3	350.8	351.7	353.1	353.2
4	350.9	351.8	353.1	353.2
5	350.9	351.8	353.1	353.2
6	350.9	351.8	353.1	353.2
7	350.9	351.9	353.1	353.2
8	350.9	351.9	353.1	353.2
9	351.0	352.0	353.1	353.2
10	351.0	352.0	353.1	353.2
11	351.1	352.0	353.1	353.2
12	351.1	352.1	353.1	353.2
13	351.1	352.1	353.1	353.2
14	351.2	352.2	353.1	353.2
15	351.2	352.2	353.1	353.2

53N 3W-31a1--Continued.

Daily noon water levels, from recorder graph

Day	Sept.	Oct.	Nov.	Dec.
16	351.2	352.2	353.1	353.2
17	351.2	352.3	353.1	353.2
18	351.3	352.3	353.1	353.3
19	351.3	352.4	353.2	353.3
20	351.3	352.4	353.2	353.3
21	351.3	352.5	353.2	353.3
22	351.3	352.5	353.2	353.3
23	351.4	352.6	353.2	353.3
24	351.4	352.6	353.2	353.3
25	351.4	352.7	353.2	353.3
26	351.5	352.7	353.2	353.3
27	351.5	352.8	353.2	353.3
28	351.5	352.8	353.2	353.3
29	351.6	352.8	353.2	353.3
30	351.6	352.9	353.2	353.3
31		352.9		353.3

53N 2W-3bc1. War Assets Administration. Farragut Naval Training Base well 7. Drilled well in fluvioglacial gravels and sands, diameter 16 inches, depth 331 feet. Water level influenced by percolation from nearby Lake Pend Oreille. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 29	214	May 13	207	June 23	204	Aug. 4	211
Apr. 5	214	May 19	204	June 29	207	Aug. 19	213
11	213	May 26	202	July 7	208	Sept. 1	214
18	214	June 2	202	July 14	209	Sept. 8	213
28	210	June 9	204	July 20	210	Sept. 15	213
May 6	207	June 16	204	July 27	210	Sept. 23	214

53N 2W-9a1. War Assets Administration. Farragut Naval Training Base well 2. Drilled well in fluvioglacial sands and gravels, diameter 16 inches, depth 35 feet. Water level influenced by percolation from nearby Lake Pend Oreille. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 29	245.7	May 13	238.8	June 23	236.5	Aug. 4	243.4
Apr. 5	246.0	May 19	236.5	June 29	238.8	Aug. 19	244.5
11	244.5	May 26	234.1	July 7	239.9	Sept. 1	244.5
18	243.4	June 2	234.1	July 14	239.9	Sept. 8	245.6
28	242.2	June 9	234.1	July 20	242.2	Sept. 15	245.6
May 6	239.9	June 16	235.6	July 27	243.4	Sept. 23	245.6

52N 4W-35dc1. J. H. Dye. Dug stock and domestic well in fluvioglacial gravel. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 19	301.3	July 6	298.0	Aug. 2	296.9	Aug. 30	296.4
May 1	300.3	July 12	296.7	Aug. 9	296.7	Sept. 6	296.3
June 23	298.3	July 19	297.4	Aug. 16	296.6	Nov. 2	296.6
24	298.2	July 26	297.1	Aug. 23	296.5		

51N 5W-21da1. Bob Bowen. Water in fluvioglacial gravels. Records available: 1941, 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 29	162.5	July 19	157.1	Aug. 9	157.1	Aug. 30	157.3
July 5	159.5	July 26	157.1	Aug. 16	157.1	Sept. 6	157.4
12	157.2	Aug. 2	157.1	Aug. 23	157.2	Nov. 3	159.5

51N 5W-28ad1. J. O. Self. Dug stock and domestic well, back filled around 6-inch steel casing, depth 163 feet. Water in fluvioglacial gravels. Land-surface datum is about 2,147 feet above mal. Records available: 1948-49. May 26, 1948, 147.7; Aug. 26, 1948, 142.5.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 20	147.2	July 12	141.7	Aug. 9	141.7	Aug. 30	142.5
21	146.7	July 19	141.7	Aug. 16	141.8	Sept. 6	142.1
Apr. 30	144.6	July 26	141.7	Aug. 23	141.9	Nov. 3	144.1
July 5	142.6	Aug. 2	141.7				

51N 5W-31bcl. Peter Beck. Water in fluvioglacial coarse sand. Records available: 1941, 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 20	120.9	July 12	116.3	Aug. 9	117.4	Sept. 6	118.2
Apr. 29	117.0	19	116.7	16	117.5	Nov. 3	120.7
June 23	115.2	26	117.0	23	117.9	Dec. 29	121.0
24	115.0	Aug. 2	117.2	30	117.9		

51N 5W-33bb1. Washington Water Power Co. well 58. Spokane International Railway Co. Water in fluvioglacial gravels. Records available: 1928-49.

Mar. 20	145.1	July 12	139.9	Aug. 9	140.2	Sept. 6	140.0
21	145.1	19	140.0	16	140.3	Nov. 3	143.1
Apr. 30	142.0	26	140.3	23	140.5	Dec. 6	143.8
May 4	141.4	28	140.1	30	140.6	29	144.0
July 6	139.7	Aug. 2	140.2	31	140.5		

51N 4W-7bcl. Skinner Estate. Drilled unused well in fluvioglacial gravels and sands, diameter 5 inches. Records available: 1942, 1948-49.

Mar. 19	261.2	July 12	256.0	Aug. 9	255.3	Aug. 30	255.2
Apr. 30	261.1	19	255.7	16	255.2	Sept. 6	255.2
June 23	251.8	26	255.6	23	255.2	Nov. 3	257.8

51N 4W-10cc1. Civil Aeronautics Administration. Drilled unused well in fluvioglacial outwash gravel. Records available: 1941, 1948-49.

Apr. 30	278.4	July 26	274.0	Aug. 16	273.5	Sept. 6	273.5
July 12	274.4	Aug. 2	273.8	23	273.5	Nov. 3	274.9
19	274.2	9	273.6	30	273.5		

51N 4W-26ba1. Rudolph. Drilled stock and domestic well in fluvioglacial outwash gravel. Records available: 1942, 1948-49.

Mar. 19	257.1	July 6	253.1	Aug. 2	252.2	Aug. 30	251.5
Apr. 30	257.0	12	252.9	9	252.0	Sept. 6	251.5
June 23	253.3	19	252.6	16	251.8	Nov. 3	252.3
24	253.3	26	252.4	23	251.6	Dec. 31	255.2

50N 5W-1aa1. Washington Water Power Co. well 96. Post Falls Irrigation District. Water in fluvioglacial gravel. Pump in well shut down 20 minutes prior to each measurement except as otherwise noted. Records available: 1929-49.

Mar. 21	a189.1	July 19	180.7	Aug. 9	180.7	Sept. 6	180.8
May 4	a187.3	26	180.4	16	180.3	Nov. 3	183.0
June 23	a183.4	28	180.6	23	180.5	Dec. 6	184.5
July 5	181.8	Aug. 2	180.3	30	180.6	31	184.1
12	181.2	6	180.6				

a Pumping.

50N 4W-13cc1. Schroeder (Coeur d'Alene Laundry). Dug and drilled unused well in fluvioglacial gravels, diameter 36 to 8 inches, depth about 112 feet. Records available: 1949. July 12, 69.9; Aug. 30, 66.4.

Water level at noon, from recorder charts

Date	Sept.	Oct.	Nov.	Dec.
1	....	66.8	67.2	68.0
2	....	66.8	67.2	68.0
3	66.5	66.8	67.2	68.0
4	66.5	66.8	67.3	68.0
5	66.5	66.8	67.3	68.0
6	66.6	66.8	67.3	68.1
7	66.6	66.8	67.3	68.1
8	66.6	66.8	67.3	68.1
9	66.6	66.8	67.3	68.1
10	66.6	66.8	67.4	68.1
11	66.6	66.8	67.4	68.2
12	66.6	66.9	67.5	68.2
13	66.6	66.9	67.5	68.2
14	66.6	66.9	67.5	68.2

50N 4W-13ccl--Continued.

Water level at noon, from recorder charts

Date	Sept.	Oct.	Nov.	Dec.
15	66.6	66.9	67.6	68.2
16	66.7	66.9	67.6	68.2
17	66.7	66.9	67.6	68.3
18	66.7	66.9	67.6	68.3
19	66.7	67.0	67.7	68.3
20	66.7	67.0	67.7	68.4
21	66.7	67.0	67.7	68.4
22	66.8	67.0	67.8	68.4
23	66.7	67.0	67.8	68.4
24	66.7	67.1	67.8	68.5
25	66.8	67.1	67.8	68.5
26	66.8	67.1	67.8	68.5
27	66.8	67.1	67.9	68.6
28	66.8	67.1	67.9	68.6
29	66.8	67.2	67.9	68.6
30	66.8	67.2	68.0	68.7
31		67.2		68.7

Latah County

39N 5W-7ddl. Inland Motor Freight Co. Drilled unused artesian well in Moscow Basin. Records available: 1937-40, 1947-49. Mar. 21, 64.5; Apr. 23, 65.0.

39N 5W-10acl. U. S. Geol. Survey. Drilled water-table observation well in Quaternary alluvial sand and gravel. Records available: 1934-40, 1947-49. Mar. 21, 6.0; Apr. 29, 7.6.

Minidoka County

8S 23E-27bd1. U. S. Bureau of Reclamation well C. Drilled irrigation test well in Snake River basalt, diameter 20 inches, depth 260 feet. Water level influenced by regional recharge. Records available: 1948-49. Feb. 26, 179.2; Apr. 8, 179.1; Apr. 22, 179.2.

Water level at noon, from recorder charts

Date	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	179.5	179.4	178.6	178.4	178.7	178.5
2	.....	179.5	179.4	178.5	178.2	178.8	178.5
3	.....	179.4	179.3	178.5	178.3	178.7	178.4
4	.....	179.4	179.2	178.4	178.3	178.7	178.5
5	.....	179.5	179.7	178.2	178.3	178.7	178.5
6	.....	179.5	179.2	178.4	178.3	178.7	178.3
7	.....	179.5	179.2	178.5	178.1	178.6	178.3
8	.....	179.5	179.1	178.5	178.3	178.4	178.3
9	.....	179.5	179.1	178.5	178.1	178.3	178.3
10	179.6	179.5	179.1	178.4	178.3	178.3	178.1
11	179.6	179.5	179.1	178.4	178.2	178.6	177.9
12	179.5	179.4	179.1	178.4	178.3	178.7	178.0
13	179.6	179.4	179.0	178.5	178.3	178.7	178.3
14	179.6	179.4	179.0	178.5	178.4	178.7	178.3
15	179.5	179.4	179.0	178.4	178.5	178.6	178.3
16	179.4	179.4	179.0	178.4	178.5	178.7	178.2
17	179.5	179.4	179.0	178.4	178.5	178.8	178.0
18	179.5	179.4	179.0	178.4	178.4	178.8	177.9
19	179.5	179.3	179.0	178.5	178.5	178.7	178.0
20	179.5	179.4	178.9	178.5	178.5	178.7	177.9
21	179.5	179.4	178.9	178.4	178.5	178.6	178.2
22	179.5	179.3	178.8	178.4	178.6	178.6	.....
23	179.5	179.3	178.8	178.5	178.6	178.7	.....
24	179.5	179.3	178.8	178.5	178.6	178.6	.....
25	179.4	179.4	178.8	178.4	178.6	178.6	.....
26	179.4	179.3	178.8	178.3	178.6	178.6	.....
27	179.4	179.3	178.8	178.2	178.5	178.5	.....
28	179.4	179.4	178.8	178.3	178.6	178.4	.....
29	179.4	179.4	178.8	178.3	178.6	178.4	.....
30	179.5	179.4	178.7	178.4	178.8	178.6	.....
31	179.5	179.4	178.7		178.7		.....

8S 24E-7dal. U. S. Bureau of Reclamation. Drilled irrigation test well in Snake River basalt, diameter 20 inches, depth 240 feet. Water level influenced by regional recharge. Records available: 1948-49. Apr. 8, 168.7; Apr. 22, 168.8; Apr. 23, 168.9.

8S 24E-11bal. U. S. Bureau of Reclamation. Drilled irrigation test well in Snake River basalt, diameter 20 inches, depth 225 feet. Water level influenced by regional recharge. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 8	164.6	June 11	164.3	Sept. 17	163.4	Oct. 28	163.5
22	164.8	Aug. 10	163.6	29	163.2	Dec. 21	164.1
May 19	164.5	27	163.3				

9S 22E-16cal. Mesa Land Co. Drilled irrigation well, diameter 21 inches, depth about 333 feet, 70 feet of steel casing, open hole below. Water in Snake River basalt. Water level influenced by regional recharge. Records available: 1948-49. Oct. 22, 1948, 240.9; Aug. 10, 1949, 241.9; Aug. 27, 241.6; Sept. 17, 241.0; Sept. 29, 240.7; Oct. 28, 240.3; Dec. 21, 239.9.

9S 22E-33ad1. U. S. Bureau of Reclamation. Drilled unused well in Snake River basalt. Water level influenced by recharge from local irrigation. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 16	227.2	Apr. 22	227.8	Aug. 10	227.9	Sept. 29	227.3
23	227.2	May 20	228.0	27	228.9	Oct. 28	227.1
Mar. 1	227.2	June 11	228.2	Sept. 17	228.6	Dec. 21	226.8
Apr. 9	227.8						

9S 24E-1db2. Louis Madrid. Drilled domestic well in Snake River basalt, diameter 6 inches, depth 87 feet. Water level influenced by local irrigation. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 26	69.8	Aug. 10	54.8	Sept. 17	57.0	Oct. 28	62.4
May 19	65.6	27	55.3	29	58.9	Dec. 22	67.6

Oneida County

11S 35E-30cbl. Russell Daniels. Drilled unused test well in alluvial sands under low local artesian pressure, diameter 8 inches, depth 204 feet. Records available: 1947-49. Sept. 27, 28.1.

11S 35E-31acl. Russell Daniels. Drilled unused stock well in Quaternary river gravel, diameter 4 inches, depth 92 feet. Records available: 1947-49. Sept. 27, 43.8.

13S 35E-33ccl. Mrs. K. T. Jones. Drilled unused stock well, diameter 6 inches, depth 328 feet. Water in Paleozoic rocks. Records available: 1946-49. Apr. 7, 295.3; May 17, 294.7; Sept. 27, 295.6.

13S 35E-36ccl. Dave Deschamps. Drilled unused stock well in sediments of Pleistocene age, diameter 4 inches, depth 131 feet. Records available: 1946-49. Apr. 7, 82.3; May 17, 82.5; Sept. 27, 82.2; Nov. 4, 82.3.

14S 33E-31abl. Myrle Hubbard. Drilled domestic well in Bonneville formation, diameter 4 inches, depth about 70 feet. Records available: 1941-49. Apr. 6, 3.6; May 17, 3.3; Sept. 28, 14.5; Nov. 7, 4.2.

14S 34E-3ldal. Roy Davis. Drilled unused stock well, diameter 4 inches, depth 399 feet. Water in Paleozoic rocks. Records available: 1947-49. Apr. 6, 384.5; May 17, 383.4; Sept. 28, 380.9; Nov. 7, 381.4.

14S 35E-10abl. John W. Leavitt. Drilled unused well, diameter 4 inches, in Bonneville formation. Records available: 1931, 1943-49. Apr. 7, 118.4; May 16, 118.1; Sept. 27, 117.5; Nov. 4, 117.6.

14S 35E-13dbl. Progressive Pump Co. Water in delta beds of Bonneville formation. Irrigation well, diameter 14 inches, depth 289 feet. Records available: 1943-49. Mar. 8, 69.4; Apr. 6, 68.7; May 17, 67.7; Nov. 4, 74.1.

14S 35E-27aa1. Davis & Ipsen. Irrigation well in Bonneville formation, diameter 14 inches, depth 210 feet. Records available: 1943-49. Mar. 8, 55.7; Apr. 6, 55.2; Nov. 4, 59.7.

14S 35E-35bd1. John W. Price. Flowing artesian well in Bonneville formation, diameter 3 inches, depth 360 feet. Flowing prior to measurement. Records available: 1943-49. Mar. 9, +22.0; Apr. 6, +22.0; May 18, +21.9; Sept. 27, +16.9; Nov. 4, +21.2.

14S 35E-36bc1. Smith & Illum. Irrigation well in Bonneville formation, diameter 14 inches, depth 301 feet. Records available: 1943-49. Mar. 8, 16.8; Apr. 6, 17.2; May 16, 16.4; Sept. 27, 22.5; Nov. 4, 19.4.

14S 36E-3ca1. Walter K. Dastруп. Irrigation well in delta sand and gravel of Bonneville formation, diameter 14 inches, depth 301 feet. Records available: 1931-32; 1943-49. Mar. 10, 69.7; Apr. 8, 69.2; May 16, 68.7; Sept. 28, 72.6; Nov. 4, 69.9.

14S 36E-29ba1. R. R. Jones. Nonflowing artesian well, diameter 4 inches, depth 302 feet. Water in Bonneville formation. Records available: 1931, 1943-49. Mar. 9, 30.7; Apr. 6, 30.8; Sept. 27, 30.4; Nov. 5, 30.3.

14S 36E-32aa1. R. J. Harding. Flowing artesian well in Bonneville formation, diameter 4 inches, depth 194 feet. Flowing prior to measurement. Records available: 1931, 1943-49. Apr. 6, +2.7; May 16, +2.6; Sept. 27, +1.1; Nov. 5, +1.5.

14S 36E-32da1. William Howard. Flowing artesian well in Bonneville formation, diameter 4 inches, depth 74 feet. Flowing prior to measurement, except on Sept. 27. Records available: 1931-32, 1943-49. Apr. 6, +1.2; May 16, +1.0; Sept. 27, 1.31.

15S 34E-6ab1. Joe Thorpe. Dug stock and domestic well in bottomland alluvium above Bonneville formation. Records available: 1947-49. Sept. 28, 45.7; Nov. 7, 49.2.

15S 35E-1da1. Joseph Josephson. Flowing artesian well in Bonneville formation, diameter 3 inches, depth 329 feet. Flowing prior to measurement. Records available: 1943-49. Mar. 8, +27.3; Apr. 7, +28.0; May 16, +27.8; Sept. 27, +20.4; Nov. 4, +25.0.

15S 35E-1db1. L. R. Waldron. Flowing artesian well in Bonneville formation. Flowing prior to measurement. Land-surface datum is 4,457.4 feet above msl. Records available: 1943-49. Mar. 8, +20.0; Apr. 7, +21.5; May 16, +21.9; Sept. 27, +14.7; Nov. 4, +18.1.

15S 35E-12ab2. James H. Williams. Flowing artesian well in Bonneville formation. Flowing prior to measurement. Records available: 1931, 1943-49. Mar. 9, +24.3; Apr. 7, +22.7; May 16, +22.2; Sept. 28, +16.7; Nov. 4, +20.5.

15S 35E-12bb1. James H. Williams. Flowing artesian well in Bonneville formation, diameter 2½ inches, depth 186 feet. Land-surface datum is 4,442 feet above msl. Flowing prior to measurement. Records available: 1943-49. Mar. 9, +10.8; Apr. 7, +10.7; May 16, +10.1; Sept. 28, +7.4; Nov. 4, +5.8.

15S 35E-14ad1. Ben Jones. Flowing artesian well in Bonneville formation, diameter 3 inches. Land-surface datum is 4,430.2 feet above msl. Flowing prior to measurement. Records available: 1943-49. Mar. 9, +5.6; Apr. 7, +5.8; May 17, +5.8; Sept. 28, +4.8; Nov. 5, +6.0.

15S 36E-5aa4. Dives Bros. Flowing artesian well in Bonneville formation, diameter 4 inches, depth 50 feet. Land-surface datum is 4,436.2 feet above msl. Flowing prior to measurement. Records available: 1931-32, 1943-49. Mar. 9, +15.1; Apr. 7, +12.7; May 17, +13.3; Sept. 27, +7.9; Nov. 4, +13.8.

15S 36E-6ac2. Will John. Flowing artesian well in Bonneville formation, diameter 2 inches, depth 225 feet. Land-surface datum is 4,446.0 feet above msl. Flowing prior to measurement. Records available: 1931, 1943-49. Apr. 7, +14.9; May 16, +11.5; Sept. 27, +7.0; Nov. 4, +10.6.

15S 36E-6bal. A. E. Scott. Flowing artesian well in Bonneville formation, diameter 3 inches, depth 310 feet. Land-surface datum is 4,465.5 feet above msl. Flowing prior to measurement. Records available: 1943-49. Apr. 6, +16.7; May 16, +14.8; Sept. 27, +10.2; Nov. 4, +13.5.

15S 36E-8aal. Edward Vaughn. Flowing artesian well in Bonneville formation, diameter 4 inches, depth 138 feet. Flowing prior to measurement except on Nov. 4; four adjacent wells flowing during measurement. Records available: 1943-49. Mar. 9, +18.4; Apr. 7, +16.5; May 16, +16.5; Sept. 27, +13.1; Nov. 4, +19.7.

15S 36E-22abl. Moroni V. Rees. Flowing artesian well in Bonneville formation. Flowing prior to measurement. Records available: 1943, 1947-49. Mar. 9, +21.5; May 17, +21.7; Sept. 28, +20.4; Nov. 5, +20.0.

15S 36E-29ca2. Tom Dudley. Flowing artesian well in Bonneville formation, diameter 3 inches, depth 270 feet. Land-surface datum is 4,402.5 feet above msl. Flowing prior to measurement. Records available: 1943-49. Mar. 9, +12.7; Apr. 7, +12.0; Sept. 28, +10.1; Nov. 5, +11.5.

15S 36E-30abl. John W. Jenkins. Flowing artesian well in Bonneville formation, diameter 4 inches, depth 229 feet. Land-surface datum is 4,395.8 feet above msl. Records available: 1943-49. Apr. 7, +13.7; May 16, +14.6; Sept. 28, +10.0; Nov. 5, +10.9.

15S 36E-30ab2. John W. Jenkins. Flowing artesian well in Bonneville formation, diameter 4 inches, depth 184 feet. Land-surface datum is 4,395.3 feet above msl. Flowing prior to measurement. Records available: 1943-49. Sept. 28, +9.9.

Payette County

7N 5W-3dal. Sim Watkins. Dug stock and domestic well in alluvial sand and gravel, diameter 48 inches, depth 56 feet. Water level influenced by local irrigation. Records available: 1941-49.

Date	Water level	Date	Water level	Date	Water level
Aug. 25, 1941	38.2	Nov. 25, 1948	37.6	June 16, 1949	40.3
Sept. 1,	38.3	Dec. 23	38.8	21	39.8
Nov. 30	36.1	Jan. 31, 1949	40.8	28	39.2
Feb. 1942	41.8	Feb. 25	41.6	July 5	38.4
Mar. 1	41.7	Mar. 1	41.0	11	38.4
May 5	43.0	8	41.9	19	37.5
July	38.9	15	42.1	26	37.1
Aug. 12	38.4	22	42.4	Aug. 2	36.9
Nov. 16, 1943	41.3	29	42.8	Sept. 2	34.6
Apr. 14, 1944	42.2	Apr. 5	42.7	12	31.0
Nov. 2	40.3	12	43.2	20	32.9
Apr. 4, 1945	41.5	19	43.3	27	33.1
Nov. 16	39.5	27	43.3	Oct. 7	31.0
Apr. 1, 1946	42.3	May 3	43.3	24	32.5
Nov. 8	36.3	10	42.8	Nov. 5	32.8
Apr. 1, 1947	41.7	17	42.3	17	35.4
Aug. 23, 1948	38.6	24	41.8	25	36.4
Sept. 25	35.3	31	41.4	Dec. 6	36.3
Oct. 25	35.8	June 7	40.7		

MONTANA

By Frank A. Swenson

PROGRAM OF WORK

Periodic measurements of water levels in observation wells in Montana were continued in 1949 in connection with ground-water studies being made as part of the Missouri Basin program. Observation wells were established in Hill and Chouteau Counties in 1945 and 1946 in connection with the proposed Lower Marias irrigation project. The U. S. Bureau of Reclamation made measurements in 15 of these wells in 1949 and also in the wells established in 1946 and 1947 in connection with the proposed Missouri-Souris project in Roosevelt, Valley, and Sheridan Counties. In 1948 wells were established in Helena Valley and in the Yellowstone River Valley. In 1949 observation wells were established in Richland and Dawson Counties. New observation wells were established in Broadwater County in connection with a geologic and ground-water study being made in the Crow Creek-Townsend Valley area..

The program in the valley and delta area between Kalispell and Flathead Lake, in Flathead County, has been carried on by the U. S. Bureau of Reclamation in cooperation with the Geological Survey. Acknowledgment is made to C. S. Hazen of the Project Planning Office of the Bureau of Reclamation at Kalispell for furnishing the measurements made in 35 wells in Flathead County.

FLUCTUATIONS OF WATER LEVELS

For the purpose of discussion of changes in water levels in observation wells, the State has been subdivided into nine areas as shown in figure 2.

The part west of the Continental Divide is mountainous with fertile irrigated valley lands. It generally has milder winters, cooler summers, and more frequent, abundant, and evenly distributed precipitation than other parts of the State. Total precipitation ranges from about 45 inches in the higher mountain areas to about 12 inches in the valleys which lie in

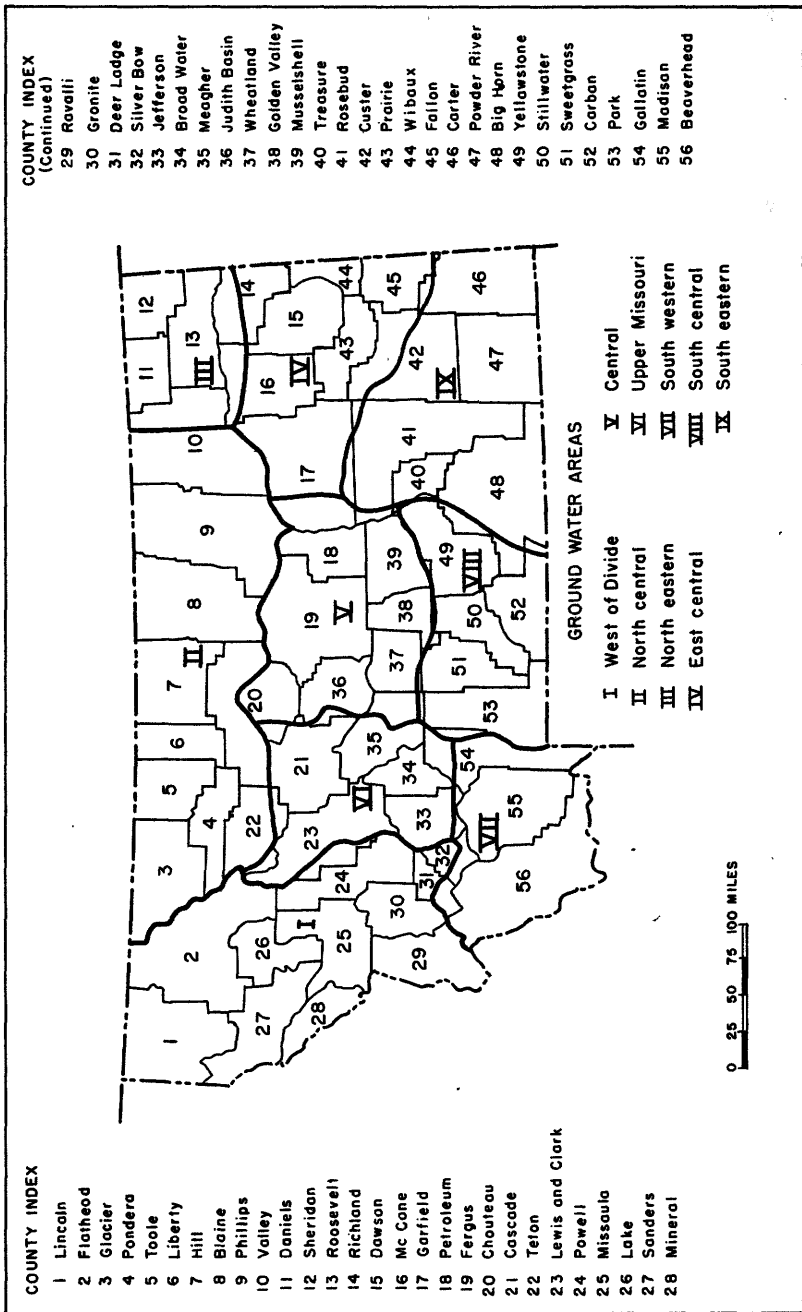


Figure 3.--Map of Montana showing the nine areas into which the State has been subdivided.

the "rain-shadow" of mountain ranges. Water levels in this area were much lower than the peaks reached in 1948 as the result of heavier than normal precipitation. The lowest levels approximated those of previous years.

North-central Montana, north of the Missouri River between Fort Peck and the Rocky Mountains and including the drainage basin of the Teton River, is an area of great plains with high mountains in the western part and with several small mountain ranges. This area has a characteristic continental-type climate with great ranges in temperature and scanty precipitation. Average annual precipitation is 12 to 14 inches. In general, water levels were lower than at any time during the period of record. These low levels were the result of less than normal precipitation during the year with consequent decrease in recharge. No large amounts of ground water are pumped, except locally for municipal supplies, and therefore these low levels do not indicate overdevelopment of ground-water reservoirs.

Northeastern Montana, north of the Missouri River and east of Fort Peck, is a rolling upland plain chiefly devoted to grazing and dry-land wheat raising. This section has a continental-type climate with an average rainfall of 12 to 14 inches. During 1949 the water levels in observation wells were about the same or somewhat lower than those of the past 3 years.

East-central Montana, south of the Missouri River east of the Musselshell drainage, and north of a line through Miles City, is a hilly section mainly used for grazing except for irrigated and cultivated lands along the main stream valleys. Annual precipitation ranges from about 13 to 15 inches. No regular trends of water-level changes can be noted in observation wells. Most of the wells are in irrigated areas and therefore are subject to fluctuations caused by recharge supplied by application of irrigation water. Some wells in or near irrigated areas show a gradual rise in water levels during the past few years.

Central Montana, south of the Missouri River and including the entire drainage basin of the Musselshell River, is a rolling to mountainous grazing area but has considerable cultivated acreage. Annual precipitation ranges from about 12 to 18 inches, the heavier precipitation generally falling at the higher altitudes.

The Upper Missouri section, including all drainage of the Missouri River between Fort Benton and Three Forks, with considerable dry-land and

irrigation farming on the valley bottoms and the more nearly level land. Average annual precipitation ranges from about 12 to 20 inches, the heavier precipitation falling mainly on higher mountain lands. Wells in this area are either on irrigated land where water levels are closely related to irrigation or records are too short to determine any marked trends.

Southwestern Montana, including all of the drainage basins of the Jefferson, Madison and Gallatin Rivers, which converge at Three Forks to form the Missouri River, is a rough, mountainous, timbered area with irrigated farms on the valley lands. The average annual precipitation ranges from about 10 to 20 inches, the heavier precipitation generally occurring at the higher altitudes. Three wells in irrigated lands showed somewhat higher levels in 1949 than in 1948.

South-central Montana, including all of the Yellowstone River drainage basin above the mouth of the Bighorn River, consists of rugged mountainous country and fertile irrigated lands along all major streams. Average annual precipitation ranges from 10 to 20 inches, the greater precipitation generally occurring at the higher altitudes.

Water levels were higher during the summer of 1949 than during previous years. There appears to be a definite rising trend in the well in Park City, Stillwater County. Water levels have been higher each successive year, not only when they reach the peak in the fall but also in the late spring when the water levels are the lowest for the year.

Southeastern Montana, including the drainage basin of the Bighorn River, is a grazing area. Lands along the principal stream valleys are irrigated but some dry-land crops are raised. The average annual precipitation ranges from 12 to 16 inches. Although the record is short there is a rising trend to the water levels in the wells in Bighorn and Custer Counties. The well in Bighorn County is in the Crow Indian Irrigation Project and the rising trend of water levels in this water-table well indicates imminent water-logging of the land in the immediate vicinity of the well. The well in Custer County was drilled into the Fort Union formation. The rise of water level indicates more water is going into storage in this aquifer than is being withdrawn at present.

WELL-NUMBERING SYSTEM

Each well has been assigned a number based on its location within the Bureau of Land Management surveys of the area. The component parts of a well number are: a capital letter indicating the quadrant of the principal meridian and base line system; a township number; a range number; a section number; and two or more lower-case letters which indicate the location of the well within the section. The quadrants into which the State is divided by the principal meridian and base line are designated A, B, C, and D beginning in the northeast quadrant and continuing in a counterclockwise direction. The lower-case letters designate the quarter section, the quarter-quarter section, the 10-acre tract, and the $2\frac{1}{2}$ -acre tract; they are assigned in the same manner as the capital letters. Most well numbers indicate a location no closer than the quarter-quarter section; the closer locations are indicated only when two or more wells are in the same quarter-quarter section. In certain instances, two or more wells in the same quarter-quarter section are distinguished simply by the addition of a serial number. The well-numbering system is illustrated in figure 4.

The wells in Flathead County, which formerly were identified by serial numbers, have been renumbered according to the coordinate location system but the old number is given in parentheses for correlation purposes.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Beaverhead County

C8-9-9bb. James Rebich. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 3	26.78	May 19	18.70	July 27	8.30	Oct. 20	18.20
May 4	24.25	June 9	11.10	Aug. 29	6.06	Nov. 19	22.00

Big Horn County

D2-34-25db. Owner unknown. Records available: 1947-49. Feb. 12, 10.30; Apr. 8, 9.39; June 2, 3.32; Aug. 3, 2.32.

Blaine County

A33-18-29ac. Lohman Estate. Records available: 1948-49. Feb. 11, 7.00; Mar. 7, 7.50; Apr. 14, 6.80; Sept. 29, 11.43; Dec. 15, 7.03.

Broadwater County

A4-1-10cb. J. Smetters. Drilled well, diameter 6 inches, depth 112.8 feet. Records available: 1949. May 2, 95.80; June 24, 95.53; July 29, 94.78; Aug. 25, 94.62; Sept. 27, 94.45; Oct. 20, 94.55; Dec. 6, 94.70.

A4-2-8bb. I. Jenkins. Dug well, diameter 36 inches, depth 35.5 feet. Records available: 1949. May 2, 32.50; June 24, 32.52; July 21, 32.56; Aug. 25, 32.66; Sept. 29, 32.68; Oct. 20, 32.77; Dec. 7, 32.88.

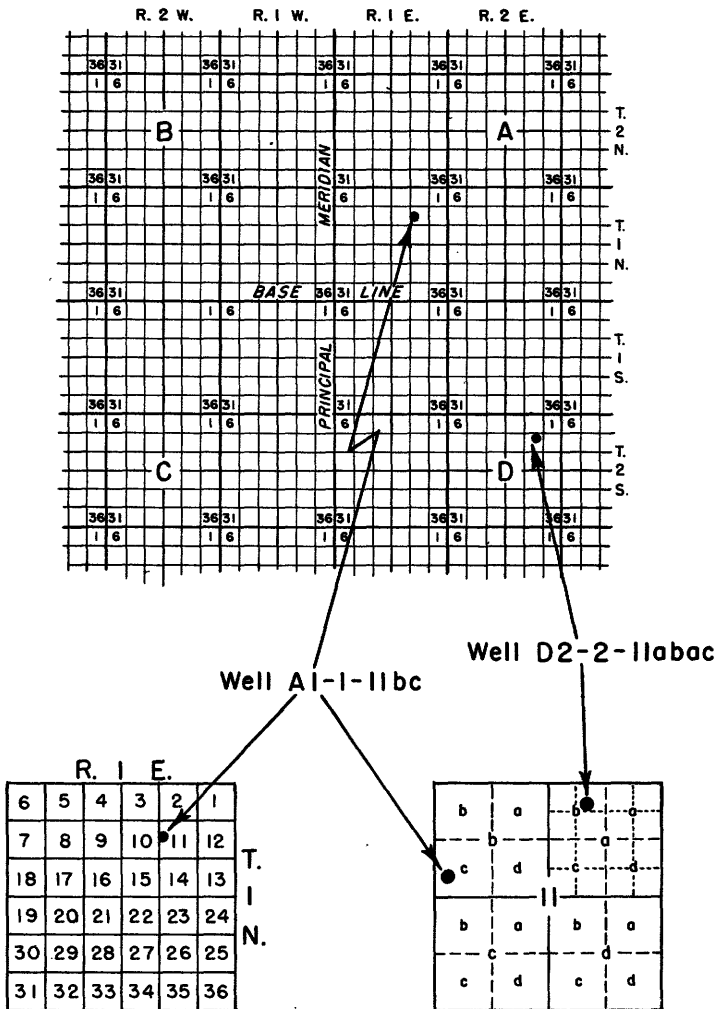


Figure 4.--Diagram showing well-numbering system used in Montana.

A5-1-10cb. W. Parker. Drilled well, diameter 6 inches, depth 42.8 feet. Records available: 1949. July 6, 11.91; Aug. 9, 15.80; Sept. 27, 17.26; Oct. 20, 17.60; Dec. 6, 18.37.

A5-1-35cd4. W. Sherlock. Dug well, diameter 18 inches, depth 9.4 feet. Measuring point, top of casing, 0.7 foot above land-surface datum, is 4,047.71 feet above msl. June 30, 4.49; July 28, 5.93; Aug. 25, 7.45; Sept. 27, 7.34; Oct. 20, 7.02; Dec. 6, 6.70.

A5-2-8cc. School District 31. Drilled well, diameter 6 inches, depth 35.1 feet. Records available: 1949. June 27, 16.41; July 29, 16.05; Aug. 25, 16.94; Sept. 27, 17.21; Oct. 20, 17.34; Dec. 6, 17.74.

A5-2-10ad. C. Flynn. Dug and drilled well, diameter 30 inches, depth 61.2 feet. Records available: 1949. July 7, 40.92; Aug. 26, 40.10; Sept. 29, 40.73; Oct. 24, 41.66; Dec. 7, 43.52.

A5-2-14dd. J. Grieves. Drilled well, diameter 6 inches. Records available: 1949. Apr. 30, 68.40; June 24, 64.84; July 25, 63.00; Aug. 26, 62.73; Sept. 29, 63.55; Oct. 24, 64.69; Dec. 7, 66.37.

A5-2-23ca3. H. Clark. Dug well, diameter 40 inches, depth 25.4 feet. Records available: 1949. June 30, 17.30; July 25, 17.10; Aug. 1, 17.00; Sept. 29, 18.15; Oct. 24, 18.93; Dec. 7, 20.14.

A5-2-31cd. Owner unknown. Drilled well, diameter 6 inches, depth 15.6 feet. Records available: 1949. July 29, 6.10; Aug. 29, 6.72; Sept. 29, 7.00; Oct. 21, 6.60; Dec. 7, 5.26.

A5-2-32dd. G. Rauser. Dug well, diameter 30 inches, depth 13.5 feet. Records available: 1949. May 3, 10.58; June 24, 10.84; July 29, 12.15; Aug. 25, 12.32; Sept. 29, 12.32; Oct. 21, 12.29; Dec. 7, 12.14.

A6-2-8abl. R. Wallace. Dug well, diameter 36 inches, depth 15.2 feet. Records available: 1949. July 15, 6.55; Aug. 29, 7.80; Sept. 30, 8.40; Oct. 24, 8.69; Dec. 7, 9.41.

A6-2-16aa. W. Vennesholt. Drilled well, diameter 4 inches, depth 60.2 feet. Records available: 1949. July 14, 15.62; Aug. 9, 16.25; Sept. 29, 19.72; Oct. 24, 21.64; Dec. 7, 24.33.

A6-2-22bb. J. Welch. Dug well, diameter 36 inches, depth 33.8 feet. Records available: 1949. July 13, 23.15; Aug. 9, 21.95; Sept. 29, 24.24; Oct. 24, 25.77; Dec. 7, 27.74.

A6-2-34dc. D. Davis. Drilled well, diameter 4 inches, depth 49.0 feet. Records available: 1949. June 30, 35.86; July 28, 36.45; Aug. 29, 36.25; Sept. 29, 37.08; Oct. 24, 37.64; Dec. 7, 38.91.

A7-2-30ac3. L. Green. Driven well, diameter 1.25 inches, depth 12.0 feet. Records available: 1949. Aug. 4, 4.20; Sept. 29, 4.27; Oct. 24, 4.35; Dec. 7, 4.68.

A7-2-32cd. V. J. Doig. Records available: 1947-49. Apr. 14, 5.06; May 3, 5.10; June 10, 4.70.

Carter County

D9-60-19cc. Alzada Gospel Church. Records available: 1947-49. Mar. 31, 19.50; Apr. 28, 20.17; May 26, 18.99.

Chouteau County

A28-10-28ab. Maynard Johnson. Stock well, diameter 41 inches, depth 25 feet. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	14.66	May 9	8.9	Aug. 9	12.00	Nov. 9	13.22
Feb. 17	15.32	June 9	9.74	Sept. 13	12.90	Dec. 5	13.56
Apr. 6	6.75	July 13	11.23	Oct. 3	13.15		

A28-11-2ab. Gordon Crofoot. Records available: 1946-49. Apr. 6, 4.94; May 9, 6.05; June 9, 6.75; July 13, 8.35; Aug. 9, 9.15; Sept. 13, 9.92; Oct. 3, 10.05.

A28-11-10cc. A. J. Cline. Depth 31 feet. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	14.79	May 9	11.97	Aug. 9	15.20	Nov. 9	18.35
Feb. 17	15.44	June 9	12.88	Sept. 13	15.65	Dec. 5	19.45
Apr. 6	15.23	July 13	13.82	Oct. 3	18.37		

A28-12-8dd. S. M. Dyrland. Depth 27 feet. Records available: 1946-49.

Jan. 10	12.68	May 9	4.27	Aug. 9	11.08	Nov. 9	13.99
Feb. 17	13.39	June 9	4.80	Sept. 13	14.01	Dec. 5	14.63
Apr. 6	.37	July 13	8.40	Oct. 3	14.21		

A28-13-5dd. Christopher Jensen. Records available: 1945-49.

Apr. 6	6.72	July 13	9.88	Sept. 13	11.65	Nov. 9	11.49
May 9	7.72	Aug. 9	10.60	Oct. 3	11.70	Dec. 5	11.40
June 9	8.58						

A28-13-7bb. Robert W. Martin. Records available: 1946-49.

Jan. 10	48.74	May 9	48.87	Aug. 9	48.95	Nov. 9	48.59
Feb. 17	48.85	June 9	48.86	Sept. 13	48.71	Dec. 5	48.39
Apr. 6	48.83	July 13	48.90	Oct. 3	48.75		

A29-11-16cc. State of Montana. Records available: 1946-49.

Jan. 10	13.08	May 9	13.54	Aug. 9	12.78	Nov. 9	14.10
Feb. 17	14.55	June 9	13.60	Sept. 13	12.69	Dec. 5	13.32
Apr. 6	14.06	July 13	12.45	Oct. 3	13.42		

A29-11-32bb. Peter Christofferson. Records available: 1946-49.

Jan. 10	9.56	May 9	9.04	Aug. 9	10.25	Nov. 9	10.93
Feb. 17	9.57	June 9	9.34	Sept. 13	10.67	Dec. 5	10.96
Apr. 6	8.65	July 13	9.92	Oct. 3	10.82		

A29-13-21aa2. U. S. Geol. Survey. Records available: 1947-49.

Jan. 3	16.33	Apr. 6	16.36	Sept. 19	16.60	Nov. 9	16.62
Feb. 11	16.42	May 17	15.78	Nov. 7	16.66	Dec. 16	16.68
Mar. 4	16.38	Aug. 29	16.65				

Custer County

A7-47-13dd. Owner unknown. Records available: 1947-49.

Mar. 29	40.43	June 27	40.38	Sept. 8	38.31	Nov. 1	38.50
Apr. 28	41.67	July 21	39.30	Oct. 5	37.70	Dec. 6	39.22
May 24	41.50	Aug. 10	38.29				

A8-47-11ad1. Ray Torjenson. Records available: 1948-49.

Jan. 19	9.08	Apr. 25	9.25	July 26	6.05	Oct. 27	7.42
Feb. 22	9.33	May 23	8.87	Aug. 31	7.51	Nov. 30	8.00
Mar. 28	9.10	June 27	6.94	Sept. 28	7.23	Dec. 28	8.36

A8-47-13ad. A. C. Door. Records available: 1948-49.

Jan. 19	17.01	Apr. 25	16.66	July 26	15.57	Oct. 27	15.73
Feb. 22	16.65	May 23	16.57	Aug. 31	15.43	Nov. 30	16.27
Mar. 28	16.48	June 27	15.85	Sept. 28	15.40	Dec. 28	16.75

A8-47-13bc. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	10.17	Apr. 25	9.65	July 26	8.55	Oct. 27	8.95
Feb. 22	9.66	May 23	9.53	Aug. 21	8.73	Nov. 30	9.42
Mar. 28	8.53	June 27	7.88	Sept. 28	8.41	Dec. 28	9.50

A8-47-13da. Wm. Dyba. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	9.61	June 27	8.70	Sept. 28	8.13	Nov. 30	8.60
Apr. 25	9.20	July 26	8.37	Oct. 27	8.11	Dec. 28	8.78
May 23	9.16	Aug. 31	8.46				

A8-47-27aa. State of Montana. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	10.64	Apr. 25	10.09	July 26	9.18	Oct. 27	9.13
Feb. 22	9.70	May 23	10.02	Aug. 31	9.10	Nov. 30	9.53
Mar. 28	9.09	June 27	9.68	Sept. 28	8.75	Dec. 28	9.78

A8-47-27ba. Ted Matzen. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	13.11	Apr. 25	12.75	July 26	12.68	Oct. 27	12.59
Feb. 22	12.70	May 23	12.59	Aug. 31	12.91	Nov. 30	12.62
Mar. 28	12.25	June 27	11.96	Sept. 28	12.75	Dec. 28	12.68

A8-47-27bb. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	12.11	Apr. 25	14.54	July 26	15.10	Oct. 27	12.68
Feb. 22	12.65	May 23	14.44	Aug. 31	15.18	Nov. 30	11.70
Mar. 28	14.45	June 27	14.46	Sept. 28	15.10		

A8-47-27cb. C. E. Hough. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	9.00	Apr. 25	8.73	July 26	8.16	Oct. 27	7.63
Feb. 22	9.20	May 23	8.55	Aug. 31	7.96	Nov. 30	8.05
Mar. 28	8.50	June 27	8.40	Sept. 28	7.43	Dec. 28	8.34

A8-47-27dc. Owner unknown. Records available: 1948. Destroyed, measurement discontinued.

A8-47-27dd. Carl May. Records available: 1948-49. Jan. 19, 6.94; Feb. 22, 7.22; Mar. 28, 6.35.

A8-47-28dd. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	9.72	May 23	8.98	Aug. 31	10.56	Nov. 30	9.82
Mar. 28	8.92	June 27	9.72	Sept. 28	10.60	Dec. 28	9.72
Apr. 25	8.96	July 26	10.15	Oct. 27	9.78		

A8-48-8ab. Ray Olson. Records available: 1948. Destroyed, measurements discontinued.

A9-48-2ca. Alick Beckman. Drilled test hole, diameter 3 inches, depth 13 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	9.64	May 23	(a)	Aug. 31	4.34	Nov. 30	8.94
Mar. 28	8.77	June 25	7.87	Sept. 28	6.54	Dec. 28	(a)
Apr. 25	(a)	July 27	7.79	Oct. 27	7.85		

a Dry.

A9-48-2cc. Carl Astrom. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 29	3.70	June 25	5.17	Sept. 28	4.72	Nov. 30	4.93
Apr. 25	4.67	July 27	5.17	Oct. 27	4.52	Dec. 28	4.92
May 23	4.66	Aug. 31	4.92				

A9-48-2dd. Alick Beckman. Records available: 1948-49. Jan. 19, 3.15; Mar. 28, 1.68; Apr. 25, 3.96; May 23, 3.40.

A9-48-3cc. Laurids Lund. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	11.01	June 25	9.37	Sept. 28	8.89	Nov. 30	10.24
Apr. 25	11.05	July 27	9.43	Oct. 27	9.40	Dec. 28	10.59
May 23	10.80	Aug. 31	9.01				

A9-48-3cd. Otto Schmitt. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	3.63	May 23	(a)	Aug. 31	1.96	Nov. 30	2.65
Mar. 28	2.92	June 25	2.51	Sept. 28	1.71	Dec. 28	(a)
Apr. 25	(a)	July 27	2.41	Oct. 27	1.98		

a Dry.

A9-48-3dc. George Robbahn. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	4.33	May 23	3.12	July 27	2.87	Sept. 28	2.30
Mar. 28	3.46	June 25	2.16	Aug. 31	2.67	Oct. 27	2.27
Apr. 25	3.98						

A9-48-3dd. Carl Astrom. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 28	9.10	June 25	8.70	Aug. 31	8.45	Oct. 27	8.60
Apr. 25	(a)	July 27	8.53	Sept. 28	8.20	Nov. 30	8.87
May 23	9.20						

a Dry.

A9-48-8cd. Burt Hanson. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	4.77	May 23	3.73	Aug. 31	1.17	Nov. 30	3.36
Mar. 28	3.70	June 25	3.64	Sept. 28	2.08	Dec. 28	4.01
Apr. 25	4.41	July 27	(a)	Oct. 27	2.55		

a Dry.

A9-48-8da. Tony Janutes. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 28	5.46	June 25	5.59	Sept. 28	4.98	Nov. 30	5.38
Apr. 25	5.61	July 27	5.16	Oct. 27	4.84	Dec. 28	5.75
May 23	5.55	Aug. 31	4.55				

Measurements discontinued in wells A9-48-8dd, A9-48-9aaba, and A9-48-9aabd.

A9-48-9ad. Fred Wambolt. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	4.68	May 23	3.61	Aug. 31	3.96	Nov. 30	3.53
Mar. 28	2.31	June 25	4.16	Sept. 28	3.51	Dec. 28	(a)
Apr. 25	3.81	July 27	4.41	Oct. 27	2.79		

a Dry.

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A9-48-9db. Fred Wambolt. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	3.77	May 23	3.31	Aug. 31	2.47	Nov. 30	2.81
Mar. 28	2.21	June 25	4.06	Sept. 28	2.44	Dec. 28	3.56
Apr. 25	3.46	July 27	(a)	Oct. 27	2.01		

a Dry.

A9-48-10aa. George Robbahn. Records available: 1948-49. Measurement discontinued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	5.74	May 23	5.45	Aug. 31	4.85	Oct. 27	4.40
Mar. 28	5.45	June 25	5.00	Sept. 28	4.85	Nov. 30	4.85
Apr. 25	5.25	July 27	4.85				

A9-48-10bb. Henry George. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	5.77	May 23	5.25	Aug. 31	4.39	Nov. 30	4.31
Mar. 28	4.59	June 25	4.70	Sept. 28	4.32	Dec. 28	7.39
Apr. 25	4.57	July 27	4.58	Oct. 27	3.57		

A9-48-10ca. Henry George. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	5.07	May 23	4.50	Aug. 31	2.25	Nov. 30	3.32
Mar. 28	4.05	June 25	3.00	Sept. 28	2.60	Dec. 28	4.04
Apr. 25	4.19	July 27	2.86	Oct. 27	2.68		

A9-48-17aa. Kirkpatric. Records available: 1948-49.

Mar. 28	6.73	June 25	5.88	Sept. 28	4.93	Nov. 30	5.24
Apr. 25	6.58	July 27	5.43	Oct. 27	4.60	Dec. 28	5.36
May 23	5.73	Aug. 31	4.45				

A9-48-17ba. Kirkpatric. Records available: 1948-49.

Jan. 19	7.03	May 23	(a)	Aug. 31	4.19	Nov. 30	6.34
Mar. 29	(a)	June 25	(a)	Sept. 28	4.59	Dec. 28	8.83
Apr. 25	(a)	July 27	5.35	Oct. 27	5.75		

a Dry.

A10-49-3cb. (Previously reported as A10-49-3bb.) H. Watts. Records available: 1948-49.

Jan. 20	18.10	Apr. 26	18.66	July 26	18.05	Oct. 27	17.64
Feb. 23	18.34	May 23	18.85	Aug. 31	17.58	Nov. 30	17.88
Mar. 29	18.54	June 27	18.24	Sept. 28	17.47	Dec. 28	18.05

A10-49-3dd. H. Watts. Records available: 1948-49. Jan. 20, 18.80. Destroyed, measurement discontinued.

A10-49-20dd. A. Henry. Records available: 1948-49.

Jan. 20	12.37	Apr. 25	12.01	July 27	(a)	Oct. 27	(a)
Feb. 23	12.04	May 13	11.97	Aug. 31	(a)	Nov. 30	(a)
Mar. 29	11.85	June 26	(a)	Sept. 28	(a)	Dec. 28	(a)

a Dry.

Daniels County

A35-47-12cd. State of Montana. Records available: 1947-49.

Jan. 17	15.50	Mar. 18	14.95	May 11	15.06	Sept. 23	15.57
Mar. 12	15.62	Apr. 5	14.66	26	14.12	Nov. 6	15.57

Dawson County

A13-53-10dc. E. Miller. Records available: 1948. Destroyed, measurement discontinued.

A13-53-10dd. Owner unknown. Records available: 1948-49.

Mar. 30	4.06	June 27	5.10	Sept. 28	3.10	Dec. 2	3.63
Apr. 25	4.16	July 24	5.06	Oct. 30	2.96	29	4.40
May 23	3.78	Aug. 31	5.76				

A13-53-11cb. Owner unknown. Records available: 1948-49.

Jan. 21	5.67	Apr. 25	4.50	July 24	6.19	Oct. 30	5.03
Feb. 23	6.05	May 23	4.57	Aug. 31	6.97	Dec. 2	4.96
Mar. 30	4.85	June 27	5.85	Sept. 28	5.87		

A13-53-11cc. W. Siegle. Records available: 1948-49.

Apr. 25	0.97	July 24	3.32	Sept. 28	2.55	Dec. 2	1.81
May 23	2.02	Aug. 31	3.63	Oct. 30	1.97	29	2.52
June 27	3.02						

A13-53-11cd. W. Siegle. Records available: 1948. Measurement discontinued.

A13-53-11dc. W. Siegle. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	6.03	May 23	3.97	Aug. 31	4.54	Dec. 2	4.74
Mar. 30	0.00	June 27	3.88	Sept. 28	4.80	29	4.48
Apr. 25	3.49	July 24	4.26	Oct. 30	4.65		

A13-53-14bb. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	3.78	May 23	2.65	Aug. 31	5.10	Dec. 2	3.31
Mar. 30	0.00	June 27	4.25	Sept. 28	3.36	29	3.69
Apr. 25	2.95	July 24	4.68	Oct. 30	3.20		

A13-53-15aaa. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	5.27	May 23	4.38	Aug. 31	3.23	Dec. 2	3.66
Mar. 30	4.47	June 27	5.26	Sept. 28	1.63	29	4.56
Apr. 25	4.21	July 24	5.83	Oct. 30	2.87		

A13-53-15aad. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	1.51	Apr. 25	1.74	July 24	4.05	Dec. 2	1.40
Feb. 23	2.51	May 23	2.32	Oct. 30	.73	29	2.33

A14-54-1ad. School. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	18.77	June 29	17.33	Sept. 28	16.97	Dec. 1	17.82
Apr. 26	19.75	July 27	17.91	Oct. 30	17.15	29	18.39
May 23	19.59	Aug. 31	16.86				

A14-54-14dd (previously reported as A14-54-2dd). Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	6.69	May 23	6.68	Aug. 31	6.28	Dec. 1	6.37
Mar. 30	6.03	June 29	6.56	Sept. 28	6.15	29	5.95
Apr. 26	6.63	July 27	6.44	Oct. 30	6.13		

A14-54-33ab2. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 30	1.02	June 27	3.30	Sept. 30	3.10	Dec. 2	1.90
Apr. 25	1.39	July 27	3.70	Oct. 30	1.62	29	2.95
May 23	1.70	Aug. 31	(a)				

a Dry.

A14-54-33aca. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	5.42	Apr. 25	5.80	July 27	4.48	Oct. 30	4.94
Feb. 23	6.43	May 23	5.71	Aug. 31	5.58	Dec. 2	5.30
Mar. 30	6.96	June 27	4.18	Sept. 30	5.25	29	5.98

A14-54-33acb. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 30	7.20	June 29	5.07	Sept. 30	5.35	Dec. 2	4.91
Apr. 25	7.12	July 27	4.60	Oct. 30	4.85	29	(a)
May 23	4.95	Aug. 31	(a)				

a Dry.

A14-54-33acc. G. Diegle. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	6.05	Apr. 25	5.72	July 27	4.25	Oct. 30	5.08
Feb. 24	7.05	May 23	5.37	Aug. 31	5.45	Dec. 2	5.48
Mar. 30	6.01	June 27	4.98	Sept. 30	5.40	29	6.10

A14-54-33baa. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 25	0.80	July 27	1.17	Sept. 30	1.94	Dec. 2	1.51
May 23	.54	Aug. 31	2.78	Oct. 30	.91	29	2.75
June 27	1.00						

A14-54-33bab. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	4.26	Apr. 25	3.82	July 24	1.17	Oct. 30	3.82
Feb. 24	6.07	May 23	3.45	Aug. 31	3.31	Dec. 2	4.52
Mar. 30	5.52	June 27	1.95	Sept. 30	3.72	29	5.57

A14-54-33bacb. R. Diegle. Records available: 1948-49.

Feb. 24	2.11	May 23	2.37	Aug. 31	(a)	Dec. 2	1.89
Mar. 30	.67	June 27	3.47	Sept. 30	2.77	29	2.43
Apr. 25	1.98	July 27	3.82	Oct. 30	2.02		

a Dry.

A14-54-33bacd. R. Diegle. Records available: 1948-49.

Jan. 21	5.13	May 23	5.36	Aug. 31	6.00	Dec. 2	5.73
Mar. 30	2.77	June 27	4.79	Sept. 30	5.83	29	5.88
Apr. 25	5.13	July 24	5.54	Oct. 30	5.70		

A14-54-33bad. Owner unknown. Records available: 1948-49.

Jan. 21	3.36	Apr. 25	1.92	July 27	2.59	Oct. 30	2.83
Feb. 24	3.99	May 23	1.89	Aug. 31	4.39	Dec. 2	2.95
Mar. 30	2.56	June 27	3.26	Sept. 30	4.14	29	3.76

A14-54-33bba. R. Diegle. Records available: 1948-49.

Apr. 25	1.28	July 27	3.69	Sept. 30	1.75	Dec. 2	.70
May 23	1.61	Aug. 31	3.51	Oct. 30	.65	29	1.62
June 27	3.08						

A14-54-33bbc. R. Diegle. Records available: 1948-49.

Apr. 25	2.66	July 27	5.11	Sept. 30	4.19	Dec. 2	3.20
May 23	3.51	Aug. 31	5.39	Oct. 30	3.21	29	3.79
June 27	3.83						

A14-54-33bcb. R. Diegle. Records available: 1948-49. Measurement discontinued. Jan. 21, 5.86; Apr. 25, 5.08; May 23, 5.57.

A14-54-33bcc. R. Diegle. Records available: 1948-49.

Jan. 21	4.12	June 27	3.45	Sept. 30	3.85	Dec. 2	3.34
Apr. 25	3.41	July 27	4.45	Oct. 30	3.12	29	4.17
May 23	3.60	Aug. 31	4.65				

A14-54-33bcd. R. Diegle. Records available: 1948-49.

Jan. 21	4.70	Apr. 25	3.03	July 27	5.40	Oct. 30	4.26
Feb. 24	5.08	May 23	4.10	Aug. 31	6.04	Dec. 2	4.16
Mar. 30	4.60	June 27	4.26	Sept. 30	4.75	29	4.65

A14-54-33bdb. R. Diegle. Records available: 1948-49.

Apr. 25	3.50	July 27	4.49	Sept. 30	5.26	Dec. 2	4.76
May 23	3.96	Aug. 31	4.93	Oct. 30	4.90	29	4.94
June 27	3.47						

A14-54-33bdca. R. Diegle. Records available: 1948-49.

Mar. 30	2.09	June 27	3.12	Sept. 30	3.67	Dec. 2	2.57
Apr. 25	1.48	July 27	3.80	Oct. 30	2.75	29	3.20
May 23	2.08	Aug. 31	4.80				

A14-54-33bdc. R. Diegle. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 21	3.84	Apr. 25	2.70	July 27	4.59	Oct. 30	4.11
Feb. 24	3.93	May 23	3.21	Aug. 31	5.19	Dec. 2	3.79
Mar. 30	3.46	June 27	3.95	Sept. 30	4.90	29	4.82

A14-54-33ca. G. Diegle. Records available: 1948-49.

Mar. 30	5.09	June 27	5.22	Sept. 30	4.41	Dec. 2	4.83
Apr. 25	5.06	July 27	5.36	Oct. 30	4.31	29	5.84
May 23	4.87	Aug. 31	5.55				

A14-54-33cb. G. Diegle. Records available: 1948-49.

Apr. 25	5.68	July 27	5.31	Sept. 30	4.45	Dec. 2	5.19
May 23	4.51	Aug. 31	4.67	Oct. 30	4.51	29	6.02
July 27	4.16						

A14-55-6dd. Hathaway. Records available: 1948-49.

Jan. 21	22.83	Apr. 26	23.32	July 27	23.15	Sept. 28	22.98
Feb. 24	22.44	May 23	23.43	Aug. 31	23.02	Oct. 30	22.95
Mar. 30	22.13	June 27	23.21				

A15-55-19dc. Owner unknown. Records available: 1948. Destroyed, measurement discontinued.

A15-55-20bb. Owner unknown. Records available: 1948. No measurement made in 1949.

A15-55-20cb. J. Denis. Records available: 1948. No measurement made in 1949.

A16-55-2dc. Evens. Dug domestic well, diameter 24 inches, depth 13.4 feet. Records available: 1949. July 12, 8.27; Aug. 31, 10.31; Sept. 30, 10.78; Oct. 31, 10.30; Nov. 30, 10.25; Dec. 29, 10.59.

A16-55-13bd. Owner unknown. Dug domestic well, diameter 36 inches, depth 13.6 feet. Records available: 1949.

May 27	11.32	July 28	12.34	Sept. 30	12.68	Nov. 30	12.58
June 29	12.06	Aug. 31	12.68	Oct. 31	12.52	Dec. 29	12.68

A16-55-34aa2. Farmers Union Oil Co. Drilled domestic well, diameter 4 inches, depth 135 feet. Records available: 1949. June 6, 10.40; Sept. 30, 12.02; Oct. 31, 10.57; Nov. 30, 10.39; Dec. 29, 10.43.

A17-55-23ab. Owner unknown. Dug stock well, diameter 36 inches, depth 19.7 feet. Records available: 1949. July 13, 16.45; July 28, 16.40; Aug. 31, 16.31; Sept. 31, 16.26; Oct. 31, 16.28; Nov. 30, 16.32; Dec. 29, 16.42.

A17-55-23bc. Word. Dug domestic well, diameter 36 inches, depth 39.2 feet. Records available: 1949. June 24, 37.10; July 28, 37.04; Aug. 31, 37.05; Sept. 30, 37.01; Oct. 31, 36.99; Nov. 30, 36.99; Dec. 29, 37.07.

A17-55-23da. Owner unknown. Drilled unused well, diameter 3 inches, depth 69.6 feet. Records available: 1949. June 24, 25.58; July 28, 25.58; Aug. 31, 25.73; Sept. 30, 25.95; Oct. 31, 25.49; Nov. 30, 25.44; Dec. 29, 25.51.

A17-55-23dd. M. Frellich. Drilled unused well, diameter 6 inches, depth 46.7 feet. Records available: 1949.

May 27	23.80	July 28	23.93	Sept. 30	23.92	Nov. 30	23.73
June 29	23.91	Aug. 31	23.97	Oct. 31	23.80	Dec. 29	23.88

A17-55-34ad. Zintner. Dug stock well, diameter 24 inches, depth 22.8 feet. Records available: 1949. June 24, 15.51; July 28, 15.68; Aug. 31, 15.77; Sept. 30, 15.82; Oct. 31, 15.90; Nov. 30, 15.95; Dec. 29, 16.01.

A18-56-25cb. Mrs. B. Stevenson. Dug unused well, diameter 30 inches, depth 28.1 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 5	24.79	July 28	24.50	Sept. 30	24.61	Nov. 30	24.76
27	24.27	Aug. 31	24.55	Oct. 31	24.89	Dec. 29	24.66
June 29	24.45						

A18-56-26dd1. Owner unknown. Dug unused well, diameter 36 inches, depth 31.5 feet. Records available: 1949. July 14, 24.52; Aug. 31, 24.55; Sept. 30, 24.67; Oct. 31, 24.74; Nov. 30, 24.78; Dec. 29, 24.79.

A18-56-26dd2. Owner unknown. Dug unused well, diameter 36 inches, depth 27.3 feet. Records available: 1949. July 14, 24.07; Aug. 31, 24.13; Sept. 30, 24.23; Oct. 31, 24.29; Nov. 30, 24.48; Dec. 29, 24.50.

A18-56-34ab. Charlett Fletcher. Dug domestic and stock well, diameter 36 inches, depth 25.9 feet. Records available: 1949.

May 27	18.58	July 28	19.71	Sept. 30	22.10	Nov. 30	21.31
June 29	19.01	Aug. 31	21.57	Oct. 31	21.91	Dec. 29	22.56

A18-56-36bb. Yellowstone Irrigation Project. Dug domestic well, diameter 24 inches, depth 59.5 feet. Records available: 1949. July 14, 42.21; Aug. 31, 42.33; Sept. 30, 42.30; Oct. 31, 42.36; Nov. 31, 42.42; Dec. 29, 42.57.

A18-57-4aa. Grant Johnson. Dug stock well, diameter 24 inches, depth 18.9 feet. Records available: 1949. July 21, 10.54; Aug. 31, 10.58; Sept. 30, 10.45; Oct. 31, 11.87; Nov. 30, 12.29; Dec. 29, 11.61.

A18-57-4cd. Dawson County School. Dug domestic well, diameter 24 inches, depth 13.7 feet. Records available: 1949. July 15, 4.92; Aug. 31, 5.91; Sept. 30, 4.85; Oct. 31, 5.35; Nov. 30, 5.56; Dec. 29, 5.67.

A18-57-4dd. H. McPherson. Dug stock well, diameter 24 inches, depth 12.9 feet. Records available: 1949. July 15, 8.67; Aug. 31, 9.40; Sept. 30, 9.10; Oct. 31, 9.40; Nov. 30, 9.46; Dec. 29, 9.51.

A18-57-10bb. Tom McPherson. Dug stock well, diameter 24 inches, depth 11.4 feet. Records available: 1949. July 15, 6.52; Aug. 31, 7.02; Sept. 30, 6.77; Oct. 31, 7.49; Nov. 30, 7.86; Dec. 29, 8.42.

A18-57-17bd. Owner unknown. Dug stock well, diameter 36 inches, depth 17.7 feet. Records available: 1949. July 21, 11.37; Aug. 31, 11.55; Sept. 30, 11.88; Oct. 31, 11.24; Nov. 30, 11.23; Dec. 29, 11.61.

A18-57-19ca. Elmer Tease. Dug unused well, diameter 16 inches, depth 25.1 feet. Records available: 1949. July 14, 22.35; Aug. 31, 21.34; Sept. 30, 20.79; Oct. 31, 20.75; Nov. 30, 21.23; Dec. 29, 21.76.

Fergus County

A14-16-9dd. Owner unknown. Records available: 1947-49. Mar. 29, 29.48; Apr. 26, 30.34; May 27, 30.54; July 28, 30.16; Sept. 16, 30.24.

Flathead County

B27-20-5aa (33) Hartman. Records available: 1928-44, 1946-49. Nov. 12, 1948, 9.97; Dec. 17, 9.96.

Jan. 12	9.92	Apr. 7	9.22	July 1	9.66	Sept. 2	10.06
Feb. 10	9.82	May 4	9.36	Aug. 8	9.94	Oct. 7	10.00
Mar. 11	9.52	June 6	9.45				

B27-20-5ab (31). Hartman. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 15.78; Dec. 17, 15.85.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	15.82	Apr. 7	15.28	July 1	15.25	Sept. 2	15.28
Feb. 10	15.55	May 4	15.36	Aug. 8	15.25	Oct. 7	15.15
Mar. 11	15.56	June 6	15.27				

B27-20-5bb (30). Hodgeson School. Records available: 1928-44, 1946-49. Nov. 12, 1948, 13.60; Dec. 17, 13.70.

Jan. 12	13.73	Apr. 7	13.18	July 1	13.25	Sept. 2	13.38
Feb. 10	13.62	May 4	13.17	Aug. 8	13.33	Oct. 7	13.28
Mar. 11	13.60	June 6	13.21				

B27-20-5da (34). O'Connell. Records available: 1928-44, 1946-49.
Nov. 12, 9.66; Dec. 17, 9.72.

Jan. 12	9.74	Apr. 7	9.16	July 1	9.02	Sept. 2	9.23
Feb. 10	9.67	May 4	8.96	Aug. 8	9.13	Oct. 7	9.17
Mar. 11	9.53	June 6	8.98				

B27-20-5dd (35). Bellinger. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 12.03; Dec. 17, 12.04

Jan. 12	12.09	Apr. 7	11.33	July 1	11.33	Sept. 2	11.73
Feb. 10	11.94	May 4	11.28	Aug. 8	11.58	Oct. 7	11.74
Mar. 11	11.75	June 6	11.29				

B27-20-6aa (21). Thompson. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 0.14; Dec. 17, 0.12.

Jan. 12	0.25	Apr. 7	0.41	July 1	1.20	Sept. 2	1.00
Feb. 10	.25	May 4	1.65	Aug. 8	1.09	Oct. 7	.57
Mar. 11	.89	June 6	1.49				

B27-20-6ba (29). Syverson. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 1.91; Dec. 17, 2.27.

Jan. 12	3.17	Apr. 7	4.80	July 1	1.78	Sept. 2	1.93
Feb. 10	4.27	May 4	4.42	Aug. 8	1.82	Oct. 7	1.90
Mar. 11	4.88	June 6	2.07				

B27-20-8bb (19). Manring. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 2.08; Dec. 17, 1.86.

Jan. 12	2.05	Apr. 7	.62	July 1	2.25	Sept. 2	2.76
Feb. 10	1.94	May 4	.97	Aug. 8	2.75	Oct. 7	2.26
Mar. 11	0.90	June 6	1.30				

B27-20-8da (36). Wagoner. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 14.53; Dec. 17, 14.50.

Jan. 12	14.54	Apr. 7	14.10	July 1	13.73	Sept. 2	13.88
Feb. 10	14.38	May 4	13.96	Aug. 8	13.78	Oct. 7	13.89
Mar. 11	14.28	June 6	13.84				

B27-20-8dd (37). Damon. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 10.21; Dec. 17, 10.24.

Jan. 12	10.20	Apr. 7	8.64	July 1	8.94	Sept. 2	9.67
Feb. 10	10.24	May 4	8.88	Aug. 8	9.38	Oct. 7	9.74
Mar. 11	8.93	June 6	8.77				

B27-20-17ad (38). Lee. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 1.87; Dec. 17, 1.85.

Jan. 12	1.92	Apr. 7	0.50	July 1	1.37	Sept. 2	2.03
Feb. 10	1.80	May 4	.68	Aug. 8	1.80	Oct. 7	2.08
Mar. 11	1.13	June 6	.89				

B27-20-17cc (1). Beauchamp. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 5.02; Dec. 17, 4.97.

Jan. 12	5.27	Apr. 7	3.08	July 1	5.35	Sept. 2	5.73
Feb. 10	5.67	May 4	4.20	Aug. 8	5.75	Oct. 7	5.47
Mar. 11	4.37	June 6	4.74				

B27-20-19ad (9). Keller. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 3.90; Dec. 17, 4.02.

Jan. 12	4.60	May 4	3.54	July 1	4.63	Sept. 2	4.59
Mar. 11	3.80	June 6	4.14	Aug. 8	4.83	Oct. 7	4.40
Apr. 7	2.50						

B27-20-19ba (43). Kleinham. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 7.33; Dec. 17, 7.34.

Jan. 12	7.39	Apr. 7	6.57	July 1	6.95	Sept. 2	7.33
Feb. 10	7.34	May 4	6.45	Aug. 8	7.21	Oct. 7	7.37
Mar. 11	6.93	June 6	6.66				

B27-20-19bb(44). Websters. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 13.86; Dec. 17, 13.85.

Jan. 12	13.87	Apr. 7	13.26	July 1	13.44	Sept. 2	13.70
Feb. 10	13.82	May 4	13.27	Aug. 8	13.64	Oct. 7	13.66
Mar. 11	13.46	June 6	13.30				

B27-20-20aa (11). Taylor. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 4.93; Dec. 17, 4.60.

Jan. 12	4.73	Apr. 7	1.78	July 1	4.68	Sept. 2	5.42
Feb. 10	5.23	May 4	2.82	Aug. 8	5.21	Oct. 7	5.42
Mar. 11	3.74	June 6	3.68				

B27-20-20ab (41). Zellar. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 6.95; Dec. 17, 6.76.

Jan. 12	6.72	Apr. 7	4.69	July 1	6.36	Sept. 2	7.17
Feb. 10	7.05	May 4	5.35	Aug. 8	6.91	Oct. 7	7.18
Mar. 11	6.05	June 6	5.90				

B27-20-20bd (10). Yeaw. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 6.00; Dec. 17, 6.08.

Jan. 12	6.64	Apr. 7	4.25	July 1	6.70	Sept. 2	6.90
Feb. 10	6.98	May 4	5.71	Aug. 8	7.07	Oct. 7	6.47
Mar. 11	5.44	June 6	6.17				

B27-20-20da (40). Taylor. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 2.80; Dec. 17, 3.62.

Jan. 12	5.02	May 4	4.53	July 1	1.82	Sept. 2	2.53
Mar. 11	4.04	June 6	3.08	Aug. 8	2.00	Oct. 7	2.80
Apr. 7	3.08						

B27-20-21aa (14). Rousseille. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 6.35; Dec. 17, 6.55.

Jan. 12	7.17	Apr. 7	8.96	July 1	7.04	Sept. 2	6.68
Feb. 10	8.50	May 4	9.17	Aug. 8	6.71	Oct. 7	6.63
Mar. 11	8.99	June 6	7.74				

B27-20-21ab (39). Conrad. Records available: 1928-44, 1946-49.
Nov. 12, 1948, 3.38; Dec. 17, 3.23.

Jan. 12	3.61	Apr. 7	1.00	July 1	4.84	Sept. 2	5.68
Feb. 10	4.32	May 4	3.31	Aug. 8	5.77	Oct. 7	5.07
Mar. 11	2.66	June 6	3.60				

B27-20-21ca (13). Conrad. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 2.80; Dec. 17, 2.55.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	3.03	June 6	3.22	Aug. 8	5.51	Oct. 7	5.74
May 4	2.54	July 1	4.20	Sept. 2	5.37		

B27-20-22ac (3). Oldenberg. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 7.43; Dec. 17, 7.27.

Jan. 12	7.18	Apr. 7	4.20	July 1	6.68	Sept. 2	8.02
Feb. 10	7.34	May 4	4.98	Aug. 8	7.68	Oct. 7	8.20
Mar. 11	5.87	June 6	5.62				

B27-20-22bd1 (2). Oldenberg. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 4.72; Dec. 17, 4.48.

Jan. 12	4.54	Apr. 7	2.96	July 1	5.06	Sept. 2	6.14
Feb. 10	4.86	May 4	1.74	Aug. 8	5.86	Oct. 7	6.34
Mar. 11	3.54	June 6	3.27				

B27-20-22bd2 (4). Oldenberg. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 3.56; Dec. 17, 3.25.

Jan. 12	3.47	May 4	2.53	July 1	4.26	Sept. 2	5.53
Mar. 11	2.25	June 6	3.14	Aug. 8	5.20	Oct. 7	5.76
Apr. 7	1.68						

B27-21-1dd (20). Reed. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 1.83; Dec. 17, 1.76.

Jan. 12	1.93	Apr. 7	1.04	July 1	1.53	Sept. 2	2.06
Feb. 10	1.83	May 4	1.16	Aug. 8	1.88	Oct. 7	2.07
Mar. 11	1.55	June 6	1.23				

B27-21-13cd (7). Cleary. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 17.62; Dec. 17, 17.62.

Jan. 12	17.65	Apr. 7	17.14	July 1	17.10	Sept. 2	17.21
Feb. 10	17.53	May 4	17.16	Aug. 8	17.13	Oct. 7	17.15
Mar. 11	17.27	June 6	17.15				

B27-21-23aa (45). Three Corners Ranch. Records available: 1928-44, 1946-48. Destroyed, measurement discontinued.

B27-21-23ab (8). Koenig. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 2.12; Dec. 17, 2.03.

Jan. 12	1.95	Apr. 7	0.96	July 1	1.58	Sept. 2	2.04
Feb. 10	1.92	May 4	1.15	Aug. 8	1.88	Oct. 7	2.07
Mar. 11	1.32	June 6	1.34				

B28-20-31ad (22). Lowden. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 12.67; Dec. 17, 12.84.

Jan. 12	13.07	Apr. 7	13.82	July 1	12.95	Sept. 2	12.82
Feb. 10	14.23	May 4	14.06	Aug. 8	12.88	Oct. 7	12.67
Mar. 11	13.90	June 6	13.32				

B28-20-32da (32). Papendicks. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 7.40; Dec. 17, 7.46.

Jan. 12	7.41	Apr. 7	5.75	July 1	6.68	Sept. 2	7.38
Feb. 10	7.47	May 4	5.99	Aug. 8	7.17	Oct. 7	7.40
Mar. 11	7.16	June 6	6.30				

B28-21-34bc (47). Parkers. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 11.32; Dec. 17, 11.51.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	11.13	Apr. 7	12.69	July 1	10.67	Sept. 2	12.58
Feb. 10	13.17	May 4	13.38	Aug. 8	12.14	Oct. 7	12.73
Mar. 11	13.32	June 6	8.80				

B28-21-35da (26). Caton. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 8.93; Dec. 17, 9.15.

Jan. 12	8.70	Apr. 7	9.42	July 1	9.64	Sept. 2	9.62
Feb. 10	9.64	May 4	9.98	Aug. 8	9.57	Oct. 7	9.67
Mar. 11	9.66	June 6	9.86				

B28-21-36db (27). Weaver. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 4.99; Dec. 17, 5.54.

Jan. 12	6.37	Apr. 7	8.61	July 1	4.60	Sept. 2	4.95
Feb. 10	8.13	May 4	8.65	Aug. 8	4.80	Oct. 7	5.02
Mar. 11	8.97	June 6	5.20				

B28-21-36dd (28). Hancock. Records available: 1928-44, 1946-49.

Nov. 12, 1948, 11.73; Dec. 17, 11.96.

Jan. 12	12.25	Apr. 7	12.63	July 1	12.09	Sept. 2	11.94
Feb. 10	12.86	May 4	13.05	Aug. 8	11.96	Oct. 7	11.80
Mar. 11	12.86	June 6	12.44				

Gallatin County

D2-4-14dd. Owner unknown. Records available: 1947-49.

Jan. 4	7.72	Apr. 14	7.46	June 15	4.34	Oct. 18	4.83
Mar. 2	8.18	May 17	6.65	July 27	3.83	Nov. 26	7.27
31	7.58						

Glacier County

B32-11-3dd. U. S. Government. Records available: 1947-49.

Mar. 31	0.41	July 8	2.39	Sept. 6	2.13	Oct. 11	1.81
May 6	1.41	15	2.12	27	2.25	Nov. 14	1.72
June 3	.74						

Granite County

B6-14-27ad. State of Montana. Records available: 1947-49. June 15, 5.30; July 25, 5.71; Aug. 11, 4.98; Sept. 16, 5.91; Oct. 28, 6.03; Dec. 9, 5.97.

Hill County

A29-11-3cc. George Dillman. Records available: 1945-49. Destroyed, measurements discontinued.

Jan. 10	9.30	May 9	9.37	Aug. 9	9.35	Oct. 3	9.38
Feb. 17	9.74	June 9	9.73	Sept. 13	9.81	Nov. 9	9.40
Apr. 6	7.35	July 13	10.24				

A30-11-27eb. E. J. Walls. Records available: 1945-49.

Jan. 10	19.12	May 9	19.10	Sept. 13	19.50	Nov. 9	19.50
Feb. 17	19.15	July 13	19.50	Oct. 3	19.58	Dec. 5	19.42
Apr. 6	19.09	Aug. 9	19.48				

A30-11-32cb. Frank Silvernale. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	12.36	May 9	9.94	Aug. 9	12.65	Nov. 9	10.15
Feb. 17	13.53	June 9	11.69	Sept. 13	10.68	Dec. 5	9.53
Apr. 6	9.40	July 13	10.97	Oct. 3	12.18		

A30-13-26dc. Great Northern Railway Co. Records available: 1946-49

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	8.37	May 9	9.94	Aug. 9	9.26	Nov. 9	9.65
Feb. 17	8.35	June 9	8.45	Sept. 13	9.40	Dec. 5	9.78
Apr. 6	10.05	July 13	9.03	Oct. 3	9.48		

A30-13-29dc. A. Nedregger. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	16.30	May 9	16.64	Aug. 9	17.44	Nov. 9	17.79
Feb. 17	16.43	June 9	16.86	Sept. 13	17.40	Dec. 5	18.03
Apr. 6	16.72	July 13	16.90	Oct. 3	17.52		

A30-13-35bc. William Cowan. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	15.78	May 9	17.10	Aug. 9	14.74	Nov. 9	16.30
Feb. 17	16.08	June 9	15.37	Sept. 13	15.50	Dec. 5	16.75
Apr. 6	16.53	July 13	14.08	Oct. 3	15.85		

A30-14-8bd. R. Swan. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	33.12	May 9	32.09	July 13	32.50	Oct. 3	32.60
Feb. 17	33.57	June 9	33.18	Aug. 9	32.80	Nov. 9	32.63
Apr. 6	33.79						

A32-15-17dd. U. S. Geol. Survey. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	45.23	Apr. 5	44.83	Aug. 29	44.57	Nov. 9	44.53
Feb. 11	44.93	May 11	43.71	Sept. 19	44.57	Dec. 16	44.46
Mar. 6	44.87	June 22	44.56				

Jefferson County

B1-4-8cd. Joe Merrick. Records available: 1947-49. Feb. 1, 5.33;
Apr. 13, 5.55; Oct. 10, 3.50.

Lake County

B21-20-2dc. Owner unknown. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 24	26.46	Apr. 25	27.44	July 16	26.45	Nov. 7	27.35
Apr. 5	27.04	June 11	26.00	Aug. 26	26.12	Dec. 9	27.50

Lewis and Clark County

B10-2-19cb. L. Ramsey. Dug domestic well, diameter 3 feet, depth 45.5 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	37.94	Apr. 12	38.90	Aug. 24	35.05	Oct. 19	36.80
Feb. 7	38.23	June 21	37.05	Sept. 21	36.50	Dec. 12	37.25
Mar. 10	38.42	July 26	35.30				

B10-3-3cc. F. E. Stanfield. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	3.61	Apr. 14	3.06	July 26	4.60	Oct. 19	5.10
Feb. 8	2.57	May 18	4.00	Aug. 24	4.82	Dec. 11	5.01
Mar. 9	3.25	June 22	3.98	Sept. 27	5.15		

B10-3-5ad. H. Ellis. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	7.36	Apr. 14	6.35	July 26	7.42	Oct. 19	9.09
Feb. 9	8.42	May 18	4.00	Aug. 24	8.38	Dec. 10	9.29
Mar. 9	6.25	June 22	5.09	Sept. 9	8.91		

B10-3-7dc. McHugh Dairy. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	11.05	May 17	9.30	Aug. 22	a36.65	Oct. 16	13.63
Feb. 7	11.42	June 21	9.65	Sept. 23	13.30	Dec. 9	12.30
Apr. 12	10.37	July 25	a31.26				

a Pumping.

B10-3-8cc. H. A. Lamb. Records available: 1948-49.

Jan. 6	16.36	Apr. 13	15.48	July 25	14.47	Oct. 16	18.14
Feb. 7	15.95	May 17	14.90	Aug. 22	15.33	Dec. 10	18.12
Mar. 9	15.41	June 21	14.37	Sept. 23	17.34		

B10-3-10dd. M. Warren. Records available: 1948-49.

Jan. 7	8.87	May 18	8.34	Aug. 24	4.28	Oct. 19	6.20
Jan. 10	10.34	June 22	4.57	Sept. 26	5.30	Dec. 11	8.22
Apr. 14	11.04	July 26	2.74				

B10-3-11ba. Donaldson. Records available: 1948-49.

Jan. 7	13.00	Apr. 15	16.15	July 26	3.95	Oct. 19	10.27
Feb. 8	14.55	May 19	11.40	Aug. 23	7.37	Dec. 11	12.74
Mar. 10	15.43	June 23	9.61	Sept. 27	8.82		

B10-3-13bb. B. McConnell. Unused dug well, diameter 53 inches, depth 61.1 feet. Records available: 1949.

Jan. 7	34.32	Apr. 12	38.35	Aug. 24	29.96	Oct. 19	30.80
Feb. 2	36.34	June 21	32.55	Sept. 27	30.19	Dec. 11	33.20
Mar. 11	37.44	July 26	29.80				

B10-3-14cb. J. Rogan. Records available: 1948-49.

Mar. 10	18.77	June 22	16.71	Aug. 24	13.62	Oct. 19	15.29
Apr. 15	20.21	July 26	13.98	Sept. 26	14.81	Dec. 11	16.23
May 18	17.38						

B10-3-18cb. Lewis and Clark County. Dug irrigation well, diameter 6 feet, depth 29.5 feet. Records available: 1949.

Jan. 5	4.81	Apr. 12	4.80	Aug. 22	a20.10	Oct. 16	4.72
Feb. 7	4.85	June 21	4.78	Sept. 23	4.72	Dec. 9	4.63
Mar. 10	4.77	July 26	4.68				

a Pumping.

B10-3-24cb. L. C. Henry. Dug unused well. Records available: 1948-49.

Jan. 8	32.28	Apr. 15	37.42	July 26	24.52	Oct. 19	29.00
Feb. 9	35.17	May 19	33.00	Aug. 23	26.80	Dec. 12	31.25
Mar. 11	36.59	June 23	25.34	Sept. 27	27.93		

B11-2-31ac. R. Austin. Records available: 1948-49.

Jan. 8	8.44	Apr. 15	8.42	July 26	7.14	Oct. 16	8.26
Feb. 9	9.10	May 19	7.69	Aug. 24	7.51	Dec. 12	8.23
Mar. 9	8.36	June 23	6.79	Sept. 27	8.45		

B11-2-31bc. Munson Bros. Records available: 1948-49.

Jan. 8	2.58	Apr. 14	1.65	July 26	2.85	Oct. 19	2.36
Feb. 9	2.79	May 19	2.20	Aug. 24	2.76	Dec. 12	2.46
Mar. 9	2.02	June 23	2.47	Sept. 27	2.71		

B11-3-14bb. Miller. Records available: 1948-49.

Jan. 6	59.86	Apr. 14	61.70	July 26	57.16	Oct. 16	55.91
Feb. 8	60.50	May 19	60.60	Aug. 23	55.65	Dec. 10	57.12
Mar. 11	61.07	June 22	59.08	Sept. 26	55.64		

B11-3-20bb. J. Agato. Drilled unused well, diameter 11 inches, depth 165 feet. Records available: 1949.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8	30.37	Apr. 12	32.85	Aug. 23	28.22	Oct. 16	29.39
Feb. 9	31.29	June 21	31.00	Sept. 23	28.78	Dec. 10	30.66
Mar. 10	32.57	July 26	29.07				

B11-3-21dcl. Masonic Home. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	8.05	Apr. 14	7.54	July 26	3.79	Oct. 16	7.17
Feb. 8	8.14	May 18	5.89	Aug. 23	4.82	Dec. 10	7.81
Mar. 9	6.99	June 22	1.63	Sept. 26	7.02		

B11-3-22cc. C. Siewert. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	8.20	Apr. 14	7.32	Aug. 22	5.48	Oct. 16	8.21
Feb. 8	8.45	June 22	3.28	Sept. 26	7.93	Dec. 10	8.08
Mar. 10	7.75	July 26	4.75				

B11-3-26dd. Lewis and Clark County. Records available: June 21, 2.27; July 26, 3.32; Aug. 23, 3.55; Sept. 27, 3.35; Oct. 16, 3.40.

B11-3-31cc. Mills. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	9.38	Apr. 13	9.70	July 26	5.82	Oct. 16	8.20
Feb. 8	9.81	May 18	8.30	Aug. 22	6.76	Dec. 10	9.06
Mar. 9	9.87	June 22	4.65	Sept. 23	7.66		

B11-3-31da. J. Parent. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	6.81	Apr. 13	6.00	July 25	5.85	Oct. 16	6.72
Feb. 8	7.21	May 17	3.80	Aug. 22	6.64	Dec. 10	6.90
Mar. 9	6.37	June 21	4.20	Sept. 23	6.71		

B20-6-8da. Owner unknown. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 19	10.86	May 24	9.06	Aug. 3	10.03	Sept. 26	10.30
28	10.30	July 7	9.98	23	10.37	Nov. 14	10.65
May 6	10.02	15	9.63	Sept. 10	10.09		

Lincoln County

B31-31-32db. Owner unknown. Records available: 1947-49. Apr. 1, 8.65; Sept. 27, 11.77.

McCone County

A19-48-10db. Eldridge. Records available: 1947-49. Jan. 11, 29.38; May 4, 29.21; June 4, 28.90; July 11, 29.49; Aug. 16, 29.76; Oct. 11, 29.34; Nov. 1, 29.31.

Mineral County

B18-28-24dc. Walter Nettleton. Records available: 1947-48. No measurement made in 1949.

Phillips County

A31-34-8ca. W. D. Miller. Records available: 1947-49. Jan. 10, 6.08; Mar. 1, 6.52; Mar. 9, 6.67; Apr. 2, 6.64; Apr. 19, 6.42.

Powder River County

D5-51-33da. Broadus Rodeo Association. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 27	35.59	June 28	35.72	Aug. 3	35.90	Oct. 1	35.80
May 25	35.58	July 21	35.89	Sept. 8	35.85	Nov. 8	35.63

Prairie County

All-50-17ac. A. Martin. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	10.79	Apr. 26	11.09	July 26	10.17	Oct. 27	10.27
Feb. 23	10.75	May 23	10.78	Aug. 31	9.93	Nov. 30	10.37
Mar. 29	10.82	June 28	10.27	Sept. 28	9.98	Dec. 28	10.41

All-50-30aa. R. Gatfield. Records available: 1948-49.

Mar. 29	7.93	June 27	6.01	Sept. 28	7.61	Nov. 30	7.99
Apr. 25	8.25	July 26	6.08	Oct. 27	7.85	Dec. 28	8.09
May 23	5.76	Aug. 31	7.12				

A12-51-3dc. Owner unknown. Records available: 1948-49.

Jan. 20	8.75	Apr. 26	6.71	July 26	5.32	Oct. 30	5.75
Feb. 23	7.71	May 23	7.22	Aug. 31	5.31	Nov. 30	6.29
Mar. 29	7.49	June 28	6.43	Sept. 28	5.45	Dec. 28	6.49

A12-51-16cb2. Young. Records available: 1948-49. Jan. 20, 10.94; Feb. 23, 11.02; Mar. 29, 10.87.

A12-51-16cd2. G. Dickson. Records available: 1948-49. Jan. 20, 20.10; Feb. 23, 20.14; Mar. 29, 20.05.

A12-51-16dc. H. C. Stith. Records available: 1948-49.

Jan. 20	19.76	Apr. 26	20.00	July 26	19.81	Oct. 27	19.26
Feb. 23	19.79	May 23	20.20	Aug. 31	19.68	Nov. 30	19.03
Mar. 29	19.73	June 28	19.82	Sept. 28	19.46	Dec. 28	19.20

A12-51-21ab. Kate Warner. Records available: 1948-49. Jan. 20, 24.73; Feb. 23, 22.18.

A12-52-1ad. A. Schwartz. Records available: 1948-49.

Jan. 30	31.25	Apr. 26	30.78	July 26	30.91	Oct. 30	30.82
Feb. 23	29.37	May 23	30.72	Aug. 31	30.87	Nov. 30	30.82
Mar. 29	30.84	June 28	30.89	Sept. 28	30.83	Dec. 29	30.83

A12-52-2aa. J. C. Wheeler. Dug domestic and stock well, diameter 48 inches, depth 22 feet. Records available: 1948-49. Aug. 2, 1948, 19.14; Sept. 24, 19.18; Nov. 26, 19.15; Dec. 22, 19.25.

Jan. 20	19.41	Apr. 26	19.27	July 26	19.58	Oct. 30	19.28
Feb. 23	19.00	May 23	19.25	Aug. 31	19.15	Nov. 30	19.33
Mar. 29	19.33	June 28	19.62	Sept. 28	19.18		

A13-52-34ac2. D. Caphart. Records available: 1948-49.

Jan. 20	18.87	Apr. 26	18.98	July 26	20.29	Oct. 30	18.80
Feb. 23	19.47	May 23	19.29	Aug. 31	19.33	Nov. 30	18.81
Mar. 29	18.88	June 26	20.61	Sept. 28	18.92	Dec. 29	18.80

A13-52-34ac4. D. Caphart. Dug domestic, stock, and irrigation well, diameter 36 inches, depth 19 feet. Records available: 1949. Aug. 27, 1948, 16.54; Sept. 24, 16.66; Nov. 26, 16.38; Dec. 22, 16.34.

Jan. 20	16.38	May 23	16.40	Aug. 31	16.59	Nov. 30	16.32
Mar. 29	16.35	June 28	16.44	Sept. 28	16.48	Dec. 29	16.27
Apr. 26	16.33	July 26	16.60	Oct. 30	16.42		

A13-52-34ad1. J. Kessler. Records available: 1948-49. Jan. 20, 15.75; Feb. 23, 15.74; Mar. 29, 15.59.

A13-52-34ad2. Congregational Church. Records available: 1948-49.

Jan. 20	15.70	Apr. 26	15.89	July 26	15.80	Oct. 30	15.64
Feb. 23	15.84	May 23	15.94	Aug. 31	15.80	Nov. 30	15.60
Mar. 29	15.74	June 28	15.68	Sept. 28	15.74	Dec. 29	15.59

A13-52-34bd. A. Fisher. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	18.25	Apr. 26	18.86	July 26	18.15	Oct. 30	18.06
Feb. 23	18.96	May 23	18.50	Aug. 31	18.15	Nov. 30	18.02
Mar. 29	19.05	June 28	18.04	Sept. 28	18.10	Dec. 29	18.04

A13-52-34caa. Middlestaedt. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	18.75	Apr. 26	18.16	July 26	18.63	Oct. 30	18.20
Feb. 23	18.21	May 23	18.18	Aug. 31	18.40	Nov. 30	18.14
Mar. 29	18.15	June 28	18.25	Sept. 28	18.02	Dec. 29	18.10

A13-52-34cab. Hoffer. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	15.12	Apr. 26	15.21	July 26	16.24	Oct. 30	15.08
Feb. 23	15.09	May 23	15.49	Aug. 31	15.16	Nov. 30	14.98
Mar. 29	15.04	June 28	16.55	Sept. 28	15.91	Dec. 29	14.97

A13-52-34cb. H. C. Gifford. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	18.04	Apr. 26	17.85	July 26	18.22	Oct. 30	17.83
Feb. 23	18.07	May 23	18.00	Aug. 31	17.98	Nov. 30	17.75
Mar. 29	17.83	June 28	18.10	Sept. 28	17.88	Dec. 29	17.70

A13-52-34da. Fred Kaul, Sr. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	17.00	Apr. 26	16.91	July 26	17.12	Oct. 30	17.06
Feb. 23	17.26	May 23	16.93	Aug. 31	16.90	Nov. 30	17.00
Mar. 29	16.93	June 28	17.01	Sept. 28	17.10	Dec. 29	16.94

A13-52-34db1. Ebeling. Records available: 1948-49. Jan. 20, 19.07;
Mar. 29, 19.14.

A13-52-34db2. Cristopp. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	19.70	May 23	19.96	Aug. 31	20.12	Nov. 30	19.67
Mar. 29	19.97	June 28	20.07	Sept. 28	19.74	Dec. 29	19.92
Apr. 26	19.94	July 27	20.18	Oct. 30	20.01		

A13-53-7db2. Kirkpatric. Unused drilled well, diameter 3 inches, depth 39.6 feet. Records available: 1948-49. Sept. 3, 1948, 30.65; Nov. 26, 29.02; Dec. 22, 29.15.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 20	29.96	May 23	29.91	Aug. 31	27.64	Dec. 1	27.95
Mar. 29	20.43	June 28	28.77	Sept. 28	27.48	28	28.55
Apr. 26	30.07	July 27	28.36	Oct. 30	27.60		

A13-53-30ab. Ralph Frost. Records available: 1948-49. Jan. 20, 23.07.

Ravalli County

B7-20-18ab. Owner unknown. Records available: 1947-49. Mar. 4, 12.58; June 27, 6.88; July 26, 8.32; Aug. 29, 9.69; Oct. 5, 10.01; Nov. 2, 7.19; Dec. 16, 8.82.

Richland County

A19-57-13ab. John Miller. Dug domestic and stock well, diameter 36 inches, depth 16.8 feet. Records available: 1949. Aug. 1, 15.65; Sept. 6, 15.57; Oct. 31, 15.35; Nov. 30, 15.36; Dec. 29, 14.99.

A19-57-24ac. Willis H. Wilson. Driven stock well, diameter 30 inches, depth 11.3 feet. Records available: 1949. Sept. 13, 5.39; Oct. 31, 5.96; Nov. 30, 7.13.

A19-57-25bb. C. Baroni. Drilled domestic well, diameter 8 inches, depth 16.9 feet. Records available: 1949. July 30, 10.65; Aug. 31, 9.84; Sept. 6, 9.84; Oct. 31, 11.76; Nov. 30, 13.62; Dec. 29, 14.13.

A19-57-26ad. Roy Brose. Dug domestic and stock well, diameter 36 inches, depth 22.0 feet. Records available: 1949. Aug. 1, 17.98; Sept. 6, 17.56; Oct. 31, 20.27; Nov. 30, 20.58.

A19-58-5cd. I. E. Kimball. Dug stock well, diameter 48 inches, depth 10.1 feet. Records available: 1949. Sept. 8, 5.77; Oct. 31, 6.52; Nov. 30, 6.12.

A19-58-6ba. Owner unknown. Dug domestic and stock well, diameter 24 inches, depth 28.2 feet. Records available: 1949. Aug. 2, 20.10; Sept. 6, 20.10; Oct. 31, 20.16; Nov. 30, 20.19; Dec. 29, 20.20.

A19-58-7bd1. G. Mitchell. Dug domestic and stock well, diameter 24 inches, depth 23.9 feet. Records available: 1949. Aug. 2, 19.37; Sept. 6, 19.31; Oct. 31, 19.23; Nov. 30, 19.24; Dec. 29, 20.45.

A19-58-8ad. Owner unknown. Driven unused well, diameter 1½ inches, depth 24.8 feet. Records available: 1949. Sept. 9, 12.11; Oct. 31, 12.52; Nov. 30, 12.95; Dec. 29, 12.89.

A19-58-8bc. Owner unknown. Drilled unused well, diameter 2 inches, depth 12.1 feet. Records available: 1949. Sept. 9, 7.15; Oct. 31, 7.48; Nov. 30, 8.15; Dec. 29, 8.70.

A19-58-18ad. Owner unknown. Dug unused well, diameter 24 inches, depth 14.5 feet. Records available: 1949. Sept. 9, 7.03; Oct. 31, 8.16; Nov. 30, 9.32; Dec. 29, 10.21.

A19-58-18ba. Hilleck Fisser. Dug domestic and stock well, diameter 36 inches, depth 25.1 feet. Records available: 1949. Aug. 2, 23.15; Sept. 6, 23.13; Oct. 31, 23.19; Nov. 30, 23.21; Dec. 29, 23.25.

A19-58-18dc. Owner unknown. Drilled observation well, diameter 2 inches, depth 10.2 feet. Records available: 1949. Sept. 13, 8.21; Oct. 31, 7.80; Nov. 30, 7.83; Dec. 29, 8.18.

A20-58-2ab. H. H. Kincade. Dug stock well, diameter 48 inches, depth 13.9 feet. Records available: 1949. July 13, 9.60; Aug. 31, 8.51; Sept. 30, 9.44; Oct. 29, 10.16; Nov. 30, 10.68; Dec. 31, 11.12.

A20-58-2ad. Sig. Jonasen. Drilled stock well, diameter 10 inches, depth 24.7 feet. Records available: 1949. July 18, 13.29; Aug. 31, 10.95; Sept. 30, 10.83; Oct. 29, 12.52; Nov. 30, 13.54; Dec. 31, 13.89.

A20-58-2cd. Albert Hoffman. Dug domestic well, diameter 12 inches, depth 12.0 feet. Records available: 1949. July 15, 9.19; Aug. 31, 9.22; Sept. 30, 8.48; Nov. 29, 8.81; Dec. 30, 10.15.

A20-58-2dc. Leo Kappel. Dug stock well, diameter 30 inches, depth 15.5 feet. Records available: 1949. July 15, 7.65; Aug. 31, 7.01; Sept. 30, 6.55; Oct. 29, 7.09; Nov. 30, 7.60; Dec. 31, 8.19.

A20-58-2dd. Leo Kappel. Dug domestic well, diameter 48 inches, depth 14.0 feet. Records available: 1949. July 15, 11.62; Aug. 31, 8.03; Sept. 30, 8.69; Oct. 29, 9.41; Nov. 30, 10.41; Dec. 31, 11.05.

A20-58-3cc. Wm. Pust. Drilled unused well, diameter 8 inches, depth 33.2 feet. Records available: 1949. July 15, 8.25; Aug. 31, 7.25; Sept. 30, 6.94; Oct. 29, 8.47; Nov. 30, 9.23; Dec. 31, 9.62.

A20-58-9dd. U. S. Geol. Survey. Drilled unused well, diameter 1.0 inch, depth 9.9 feet. Records available: 1949. Aug. 8, 2.62; Sept. 30, 4.00; Oct. 29, 4.25; Nov. 30, 4.47; Dec. 31, 4.80.

A20-58-10ba. Hans Dynneson. Drilled stock well, diameter 5 inches, depth 11.0 feet. July 15, 7.02; Aug. 30, 6.87.

A20-58-11aa. Jess Hart. Drilled stock well, diameter 24 inches, depth 19.7 feet. Records available: 1949. July 18, 11.03; Aug. 31, 9.59; Sept. 30, 9.71; Oct. 29, 10.89; Nov. 30, 11.50; Dec. 31, 12.89.

A20-58-11bc. Desi Vallejo. Driven domestic well, diameter 1.25 inches, depth 32.6 feet. Records available: 1949. July 19, 5.21; Aug. 31, 2.31; Sept. 30, 3.51; Oct. 29, 4.68; Nov. 30, 5.40; Dec. 31, 5.99.

A20-58-11cb. Allen Darnall. Driven domestic well, diameter 1.25 inches, depth 11.00 feet. Records available: 1949. July 19, 6.59; Aug. 31, 4.01; Sept. 30, 4.23; Oct. 29, 4.96; Nov. 30, 5.60; Dec. 31, 6.14.

A20-58-11cc1. Laurence Brown. Driven unused well, diameter 1.25 inches, depth 14.7 feet. July 19, 7.73; Aug. 31, 5.31; Sept. 30, 6.33; Oct. 29, 6.00; Nov. 30, 8.63; Dec. 31, 8.23.

A20-58-11cc2. Laurence Brown. Driven domestic well, diameter 1.25 inches, depth 19.9 feet. Records available: 1949. July 19, 6.28; Aug. 31, 5.12; Sept. 30, 6.00; Oct. 29, 5.66; Nov. 30, 6.18; Dec. 31, 6.57.

A20-58-11dc. Fred Hamburg. Drilled unused well, diameter 24 inches, depth 21.4 feet. Records available: 1949. July 19, 12.27; Aug. 31, 11.81; Sept. 30, 11.08; Oct. 29, 11.75; Nov. 30, 12.34; Dec. 31, 12.75.

A20-58-12bc. H. H. Kincade. Drilled domestic and stock well, diameter 24 inches, depth 23.1 feet. Records available: 1949. July 18, 12.44; Aug. 31, 13.10; Sept. 30, 13.42; Oct. 29, 14.56; Nov. 30, 14.35; Dec. 31, 13.92.

A20-58-14bb. George Hagler. Drilled stock well, diameter 10 inches, depth 17.9 feet. Records available: 1949. July 22, 5.08; Aug. 31, 7.64; Sept. 30, 8.76; Oct. 29, 6.85; Nov. 30, 7.42; Dec. 31, 7.85.

A20-58-15ad. Chet Gear. Drilled domestic well, diameter 1.25 inches, depth 22.2 feet. Records available: 1949. July 22, 8.25; Aug. 31, 6.31; Sept. 30, 5.53; Oct. 29, 6.55; Nov. 30, 7.23; Dec. 31, 7.63.

A20-58-15cd1. Chris Bach. Dug stock well, diameter 36 inches, depth 11.9 feet. Records available: 1949. July 25, 4.07; Aug. 31, 3.10; Sept. 30, 3.50; Oct. 29, 3.98; Nov. 30, 4.57; Dec. 31, 4.89.

A20-58-15cd2. Chris Bach. Driven domestic well, diameter 1.25 inches, depth 16.2 feet. Records available: 1949. July 25, 8.80; Aug. 31, 7.18; Sept. 30, 7.97; Oct. 29, 9.06; Dec. 31, 9.11.

A20-58-16ba. Max Friebsnow. Dug domestic well, diameter 18 inches, depth 23.6 feet. Records available: 1949. July 19, 8.77; Aug. 31, 6.40; Sept. 30, 6.85; Oct. 29, 7.67; Nov. 30, 8.37; Dec. 31, 9.03.

A20-58-16bb. Pete Montano. Dug domestic and stock well, diameter 36 inches, depth 26.5 feet. Records available: 1949. July 21, 20.64; Aug. 31, 20.32; Sept. 30, 21.24; Oct. 29, 22.02; Nov. 30, 21.23; Dec. 31, 21.82.

A20-58-16bc. Harold Wind. Drilled domestic well, diameter 24 inches, depth 19.0 feet. Records available: 1949. July 21, 13.37; Aug. 31, 13.48; Sept. 30, 12.72; Oct. 29, 13.38; Nov. 30, 14.11; Dec. 31, 14.49.

A20-58-19ad. Robert Seeve. Drilled domestic well, diameter 20 inches, depth 32.6 feet. Records available: 1949. July 26, 23.06; Aug. 31, 23.41; Sept. 30, 24.25; Oct. 29, 24.53; Nov. 30, 24.67; Dec. 31, 24.69.

A20-58-20aa. Bertle Wind. Drilled unused well, diameter 8 inches, depth 36.4 feet. Records available: 1949. July 21, 26.63; Aug. 31, 23.94; Sept. 30, 22.95; Oct. 29, 21.82; Nov. 30, 22.69; Dec. 31, 23.70.

A20-58-20ab. Bertle Wind. Dug unused well, diameter 24 inches, depth 16.2 feet. Records available: 1949. July 21, 10.87; Aug. 31, 11.47; Sept. 30, 11.79; Oct. 29, 12.00; Nov. 30, 12.16; Dec. 31, 12.27.

A20-58-20ca. Francis Basso. Drilled domestic well, diameter 32 inches, depth 16.7 feet. Records available: 1949. July 26, 10.47; Aug. 31, 9.72; Sept. 30, 8.83; Oct. 29, 8.88; Nov. 30, 9.16; Dec. 31, 7.68.

A20-58-20dd. Francis Basso. Drilled unused well, diameter 8 inches, depth 38.4 feet. Records available: 1949. July 26, 27.26; Aug. 31, 25.96; Sept. 30, 25.31; Oct. 29, 25.45; Nov. 30, 26.43; Dec. 31, 27.38.

A20-58-21ad. John Gear. Dug domestic well, diameter 24 inches, depth 21.6 feet. Records available: 1949. July 25, 12.21; Aug. 31, 11.03; Sept. 30, 11.06; Oct. 29, 12.17; Nov. 30, 12.83; Dec. 31, 13.12.

A20-58-21bb. Nels Conradsen. Drilled domestic and stock well, diameter 24 inches, depth 37.9 feet. Records available: 1949. July 22, 21.08; Aug. 31, 23.71; Sept. 30, 23.53; Oct. 29, 21.28; Nov. 30, 23.78; Dec. 31, 24.67.

A20-58-22da. Frank Bone. Dug domestic and stock well, diameter 30 inches, depth 14.7 feet. Records available: 1949. July 22, 10.26; Aug. 31, 9.24; Sept. 30, 10.17; Oct. 29, 11.07; Nov. 30, 11.70; Dec. 31, 12.02.

A20-58-28ba. J. Playle. Dug stock well, diameter 30 inches, depth 9.5 feet. Records available: 1949. July 25, 6.63; Aug. 31, 6.50; Sept. 30, 6.95; Oct. 29, 7.64; Nov. 30, 8.24; Dec. 31, 8.20.

A20-58-28bd. G. E. Hicks. Dug unused well, diameter 36 inches, depth 19.3 feet. Records available: 1949. July 25, 15.49; Aug. 31, 14.83; Sept. 30, 15.44; Oct. 29, 15.76; Nov. 30, 16.10; Dec. 31, 16.32.

A20-58-29aa. Conrad Gabel. Drilled stock well, diameter 36 inches, depth 30.8 feet. Records available: 1949. July 22, 8.50; Aug. 31, 6.90; Sept. 30, 6.73; Oct. 29, 7.25; Nov. 30, 8.39; Dec. 31, 9.16.

A20-58-29cd. Emil Caneva. Drilled stock well, diameter 8 inches, depth 67 feet. Records available: 1949. June 8, 18.69; July 31, 18.09; Aug. 31, 18.20; Sept. 30, 17.78; Oct. 29, 17.73; Nov. 30, 29.35.

A20-58-29dc. Mansfeldt. Drilled and stock well, diameter 24 inches, depth 20.7 feet. Records available: 1949. July 27, 13.80; Aug. 31, 12.39; Sept. 30, 11.75; Oct. 29, 13.27; Nov. 30, 14.40.

A20-58-29dd. Olaf Waag. Drilled domestic and stock well, diameter 24 inches, depth 22.8 feet. Records available: 1949. July 27, 10.68; Aug. 31, 9.72; Sept. 30, 9.37; Oct. 29, 11.15; Nov. 30, 12.08; Dec. 31, 12.70.

A20-58-30db. Toby Reiner. Dug unused well, diameter 48 inches, depth 12.2 feet. Records available: 1949. July 26, 5.32; Aug. 31, 5.68; Sept. 30, 5.39; Oct. 29, 5.19; Nov. 30, 5.02; Dec. 31, 5.16.

A20-58-32aa. School District No. 7. Drilled unused well, diameter 18 inches, depth 27.8 feet. Records available: 1949. July 29, 20.60; Aug. 31, 18.96; Sept. 30, 18.73; Oct. 29, 19.45; Nov. 30, 20.31; Dec. 31, 20.98.

A20-58-32ab. Owner unknown. Dug domestic well, diameter 48 inches, depth 15.3 feet. Records available: 1949. July 27, 13.33; Aug. 31, 11.81; Sept. 30, 11.52; Oct. 29, 13.12; Nov. 30, 14.11.

A20-58-32ac1. C. H. Gebhardt. Dug domestic and stock well, diameter 36 inches, depth 19.3 feet. Records available: 1949. July 28, 14.78; Aug. 31, 13.20; Sept. 30, 11.00; Oct. 29, 14.36; Nov. 30, 15.12.

A20-58-32ac2. Ruth Johnson. Drilled stock well, diameter 18 inches, depth 32.5 feet. Records available: 1949. July 29, 16.42; Aug. 31, 14.55; Sept. 30, 14.60; Oct. 31, 15.20; Nov. 30, 15.96.

A20-58-32ad. Mrs. Caroline Jackson. Dug domestic well, diameter 18 inches, depth 27.8 feet. Records available: 1949. July 28, 20.62; Aug. 31, 18.43.

A20-58-32bb1. Oscar S. Larson. Dug unused well, diameter 30 inches, depth 13 feet. Records available: 1949. July 27, 12.22; Aug. 31, 12.29; Sept. 30, 12.28; Oct. 39, 12.25; Nov. 30, 12.36; Dec. 31, 12.38.

A20-58-33ba1. Dave McConaha. Dug domestic and stock well, diameter 24 inches, depth 13 feet. Records available: 1949. July 29, 8.84; Aug. 31, 8.32; Sept. 30, 7.67; Oct. 29, 9.40; Nov. 30, 10.25; Dec. 31, 11.05.

A20-58-33ba3. Dave McConaha. Drilled stock well, diameter 8 inches, depth 20.1 feet. Records available: 1949. Aug. 2, 11.59; Aug. 31, 11.40; Sept. 30, 11.85; Oct. 29, 12.68; Nov. 30, 13.61; Dec. 31, 14.20.

A20-58-33bc. Emil Caneva. Drilled domestic and stock well, diameter 15 inches, depth 32.7 feet. Records available: 1949. July 28, 20.02; Aug. 31, 18.22; Sept. 30, 18.19; Oct. 29, 18.66; Nov. 30, 19.04.

A21-58-1aa. Owner unknown. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 14.4 feet. Records available: 1949. June 23, 1.95; July 31, 1.54; Aug. 30, 0.84; Sept. 30, 0.50; Oct. 29, 1.19; Nov. 30, 1.84; Dec. 30, 2.73.

A21-58-2ad. Harvey Christensen. Drilled domestic and stock well, diameter 2.5 inches, depth 45.3 feet. Records available: 1949. Sept. 2, 7.83; Sept. 30, 7.97; Oct. 29, 8.56; Nov. 30, 9.06; Dec. 31, 9.45.

A21-58-2dd. Owner unknown. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 22.8 feet. Records available: 1949. July 7, 10.35; Aug. 30, 6.66; Sept. 30, 9.02; Oct. 29, 9.10; Nov. 30, 9.63; Dec. 31, 10.22.

A21-58-10dc. Neils Nelson. Drilled stock well, diameter 24 inches, depth 42.3 feet. Records available: 1949. July 11, 10.11; Aug. 30, 8.01; Sept. 30, 8.22; Oct. 29, 10.20; Nov. 30, 12.59; Dec. 31, 14.02.

A21-58-11bb. Carl Rein. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 35.4 feet. Records available: 1949. Aug. 31, 18.64; Sept. 30, 14.27; Oct. 29, 14.47; Nov. 30, 16.28; Dec. 31, 17.91.

A21-58-11bd. E. A. Brown. Drilled stock well, diameter 3 feet, depth 96.6 feet. Records available: 1949. July 18, 35.70; Aug. 30, 33.16; Sept. 30, 32.85; Oct. 29, 31.93; Nov. 30, 32.50; Dec. 31, 33.15.

A21-58-14db. Sorenson. Drilled observation well, diameter 2 inches, depth 16.5 feet. Records available: 1949. Sept. 6, 12.82; Sept. 30, 12.05; Oct. 29, 11.83; Nov. 30, 12.16; Dec. 31, 11.37.

A21-58-15cal. H. Larson. Driven stock well, diameter $1\frac{1}{4}$ inches, depth 15.9 feet. Records available: 1949. July 11, 8.06; Aug. 30, 7.18; Sept. 30, 7.62; Oct. 29, 8.58; Nov. 30, 8.34; Dec. 31, 9.05.

A21-58-15dbl. Jes. Roberts. Driven stock well, diameter $1\frac{1}{4}$ inches, depth 21.4 feet. Records available: 1949. July 11, 15.59; Aug. 30, 13.27; Sept. 30, 16.11; Oct. 29, 17.09; Nov. 30, 19.02; Dec. 31, 18.25.

A21-58-15dc. Owner unknown. Driven unused well, diameter $1\frac{1}{4}$ inches, depth 38.2 feet. Records available: 1949. Sept. 6, 16.86; Sept. 30, 16.58; Oct. 29, 17.23; Nov. 30, 19.25; Dec. 31, 21.14.

A21-58-16bb. Don Wyman. Dug stock well, diameter 36 inches, depth 12.6 feet. Records available: 1949. July 12, 9.68; Aug. 30, 10.02; Sept. 30, 9.61; Oct. 29, 9.23; Nov. 30, 9.06; Dec. 31, 9.15.

A21-58-20aa. Don Wyman. Drilled stock well, diameter 18 inches, depth 72 feet. Records available: 1949. July 28, 56.19; Aug. 30, 57.21; Sept. 30, 56.77; Oct. 29, 55.82; Nov. 30, 56.11; Dec. 31, 56.15.

A20-58-21ac. D. Stuart. Dug unused well, diameter 4 feet, depth 25.9 feet. Records available: July 13, 10.72; Aug. 30, 7.51; Sept. 30, 7.27; Oct. 29, 8.35; Nov. 30, 10.36; Dec. 31, 12.04.

A21-58-21dbl. C. Gaffield. Drilled stock well, diameter 24 inches, depth 36.4. July 14, 21.21; Aug. 31, 21.12; Sept. 30, 20.90; Oct. 29, 21.06; Nov. 30, 22.91; Dec. 31, 23.95.

A21-58-21db2. Owner unknown. Dug stock well, diameter 2.3 feet, depth 16.3 feet. Records available: 1949. July 14, 13.84; Aug. 31, 12.38; Sept. 30, 12.90; Oct. 29, 12.85; Nov. 30, 14.52; Dec. 31, 16.30.

A21-58-22da. U. S. Geol. Survey. Drilled, unused well, diameter 2 inches, depth 9.1 feet. Records available: 1949. Sept. 6, 5.51; Sept. 30, 6.11; Oct. 29, 6.45; Nov. 30, 6.73; Dec. 31, 6.32.

A21-58-27bb. Owner unknown. Drilled observation well, diameter 1 inch, depth 19.5 feet. Records available: Sept. 12, 16.71; Sept. 30, 16.28; Oct. 29, 16.08; Nov. 30, 16.84; Dec. 31, 16.20.

A21-58-27cc. Ted Huber. Dug domestic and stock well, diameter 4 feet, depth 15.5 feet. Records available: 1949. Sept. 8, 12.20; Sept. 30, 12.40; Oct. 29, 12.84; Nov. 30, 13.25; Dec. 31, 13.78.

A21-58-32ab. H. Moran. Drilled domestic and stock well, diameter 18 inches, depth 38.9 feet. Records available: 1949. July 15, 32.17; Aug. 31, 30.54; Sept. 30, 29.32; Oct. 29, 29.79; Nov. 30, 30.35; Dec. 31, 31.02.

A21-58-32cd. Charles Bouchard. Drilled domestic well, diameter 6 inches, depth 33.6 feet. Records available: 1949. July 14, 17.19; Aug. 31, 15.88; Sept. 30, 15.63; Oct. 29, 16.34; Nov. 30, 16.69; Dec. 31, 16.80.

A21-58-33bb. Fred Peterson. Drilled stock well, diameter 12 inches, depth 24.5 feet. Records available: 1949. July 15, 20.76; Aug. 31, 18.09; Sept. 30, 18.01; Oct. 29, 18.47; Nov. 30, 20.16; Dec. 31, 19.90.

A21-58-33dd. G. Wollmeyer. Driven domestic well, diameter 1½ inches, depth 15.7 feet. July 13, 9.71; Aug. 31, 11.54; Sept. 30, 12.15; Oct. 29, 13.12; Nov. 30, 13.72; Dec. 31, 14.03.

A21-59-5ba. R. W. Kreis. Drilled domestic and stock well, diameter 24 inches, depth 37.9 feet. Records available: 1949. July 6, 11.90; Aug. 30, 10.71; Sept. 29, 11.64; Oct. 28, 15.79; Nov. 29, 15.25; Dec. 30, 18.70.

A21-59-8aa. Wm. Albert. Dug domestic and stock well, diameter 30 inches, depth 12.3 feet. Records available: 1949. July 7, 9.85; Aug. 30, 10.53; Sept. 29, 10.65; Oct. 28, 10.27; Nov. 25, 10.08.

A21-59-8bb. Sherman McCarten. Dug stock well, diameter 48 inches, depth 17.5 feet. Records available: 1949. July 7, 13.60; Aug. 30, 13.88; Sept. 29, 15.34; Oct. 28, 15.21; Nov. 29, 14.61; Dec. 30, 14.52.

A21-58-1dd. R. E. Schilling. Dug stock well, diameter 36 inches, depth 19.60 feet. Records available: 1949. June 16, 14.90; July 30, 14.70; Aug. 29, 14.61; Sept. 29, 14.86; Oct. 28, 14.77; Nov. 28, 13.44; Dec. 30, 12.94.

A22-58-24cd. U. S. Geol. Survey. Drilled observation well, diameter 2 inches, depth 16.1 feet. Records available: 1949. Aug. 18, 8.41; Aug. 30, 7.81; Sept. 30, 7.90; Oct. 29, 8.20; Nov. 29, 8.42; Dec. 30, 9.05.

A22-58-36aa. Joe Rios. Driven domestic well, diameter 1.25 inches, depth 20.8 feet. Records available: 1949. June 23, 1.60; July 30, 1.69; Aug. 30, 2.15; Sept. 30, 1.51; Oct. 29, 1.77; Nov. 29, 2.35; Dec. 30, 2.81.

A22-58-36bb. U. S. Geol. Survey. Drilled observation well, diameter 2 inches, depth 11.2 feet. Records available: 1949. Sept. 2, 2.35; Sept. 30, 3.20; Oct. 29, 3.69; Nov. 29, 4.11; Dec. 30, 4.15.

A22-59-3aa1. E. B. Hardy. Dug stock well, diameter 3 feet, depth 12.3 feet. Records available: 1949. Aug. 5, 9.70; Aug. 29, 8.95; Sept. 29, 8.48; Oct. 28, 9.04; Nov. 28, 9.67; Dec. 29, 10.22.

A22-59-3aa2. E. B. Hardy. Driven domestic well, diameter 1½ inches, depth 19.9 feet. Records available: 1949. June 15, 7.48; July 29, 7.61; Aug. 29, 6.31; Sept. 29, 8.25; Oct. 28, 7.61; Nov. 28, 8.30; Dec. 29, 7.70.

A22-59-3bb. Mrs. Conrad Strasheim. Dug stock well, diameter 36 inches, depth 16.8 feet. Records available: 1949. Aug. 5, 10.24; Aug. 29, 7.86; Sept. 29, 8.28; Oct. 28, 8.21; Nov. 28, 9.88; Dec. 29, 10.63.

A22-59-4ad. Becker. Dug domestic and stock well, diameter 36 inches, depth 12.9 feet. Records available: 1949. June 16, 10.37; July 30, 11.05; Aug. 29, 9.72; Sept. 29, 11.24; Oct. 28, 11.10; Nov. 28, 11.35; Dec. 29, 11.63.

A22-59-4bcl. Sidney Cemetery. Driven unused well, diameter 1.25 inches, depth 19.9 feet. Records available: 1949. July 6, 7.29; July 30, 7.95; Aug. 29, 4.58; Sept. 29, 5.74; Oct. 28, 7.33; Nov. 28, 8.17; Dec. 30, 8.92.

A22-59-5aa. J. Creis. Driven stock well, diameter $1\frac{1}{4}$ inches, depth 14.2 feet. Records available: 1949. July 6, 7.43; July 30, 7.68; Aug. 29, 7.80; Sept. 29, 6.77; Oct. 28, 7.50; Nov. 28, 8.09; Dec. 29, 8.59.

A22-59-5ba. Eldridge Petterson. Drilled domestic well, diameter 3 inches, depth 70.2 feet. Records available: 1949. July 6, 12.10; July 30, 12.10; Aug. 30, 10.43; Sept. 29, 10.86; Oct. 28, 11.83.

A22-59-5cc. Cris Digie. Dug stock well, diameter 30 inches, depth 12.4 feet. Records available: 1949. June 16, 9.04; July 30, 9.00; Aug. 29, 8.22; Sept. 29, 8.58; Oct. 28, 9.02; Nov. 28, 9.27; Dec. 30, 9.50.

A22-59-6dc. G. Luna. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 38.1 feet. Records available: 1949. July 29, 8.26; Aug. 29, 4.50; Sept. 29, 5.57; Oct. 28, 7.36; Nov. 28, 8.44; Dec. 30, 9.26.

A22-59-6ddl. Cris Digie. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 21.3 feet. Records available: 1949. July 29, 6.96; Aug. 29, 5.20; Sept. 29, 5.52; Oct. 28, 6.72; Nov. 28, 7.37; Dec. 30, 7.92.

A22-59-7cd. Manual Buxbaum. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 30.9 feet. Records available: 1949. June 16, 15.19; July 31, 15.43; Aug. 29, 11.12; Sept. 29, 11.72; Oct. 28, 13.46; Nov. 28, 15.16; Dec. 30, 16.65.

A22-59-8adl. Paul Wodtkey. Dug irrigation well, diameter 42 inches, depth 7.8 feet. Records available: 1949. July 5, 7.14; Aug. 29, 6.88; Sept. 29, 6.82; Oct. 28, 7.36; Nov. 28, 7.57; Dec. 30, 7.90.

A22-59-8cd. Henry Scheetz. Driven stock well, diameter $1\frac{1}{4}$ inches, depth 12.4 feet. Records available: 1949. July 5, 3.69; July 31, 5.05; Aug. 29, 3.00; Sept. 29, 4.69; Oct. 28, 5.27; Nov. 28, 6.39; Dec. 30, 6.25.

A22-59-8dal. H. Buxbaum. Dug irrigation well, diameter 6.8 feet, depth 5.9 feet. Records available: 1949. July 5, 4.18; Aug. 29, 3.32; Sept. 29, 4.88; Oct. 28, 3.98; Nov. 28, dry, Dec. 30, dry.

A22-59-8dd. John Schmidt. Dug stock well, diameter 36 inches, depth 10.5 feet. Records available: 1949. Aug. 29, 5.43; Sept. 29, 6.49; Oct. 28, 7.06; Nov. 28, 7.50; Dec. 30, 7.91.

A22-59-9aa. U. S. Geol. Survey. Drilled observation well, diameter $2\frac{1}{2}$ inches, depth 9.3 feet. Records available: 1949. Aug. 22, 6.80; Aug. 29, 6.47; Sept. 29, 5.38; Oct. 28, 7.02.

A22-59-11cd. J. Strook. Driven stock well, diameter 3.7 feet, depth 30.1 feet. Records available: 1949. June 17, 26.96; July 31, 22.65; Aug. 29, 23.55; Sept. 29, 24.09; Oct. 28, 25.04; Nov. 29, 25.60; Dec. 30, 27.87.

A22-59-15bd. Owner unknown. Drilled observation well, diameter 24 inches, depth 29.7 feet. Records available: 1949. Aug. 10, 22.13; Aug. 29, 22.38; Sept. 29, 22.39; Oct. 28, 22.19; Nov. 29, 22.54; Dec. 29, 24.23.

A22-59-16aa. C. J. Woodruff. Driven stock well, diameter $1\frac{1}{4}$ inches, depth 23.3 feet. Records available: 1949. Aug. 15, 13.68; Aug. 29, 9.07; Sept. 29, 11.23; Oct. 28, 14.10; Nov. 29, 14.51; Dec. 30, 14.07.

A22-59-16dc. Philip Scheetz. Driven stock well, diameter $1\frac{1}{4}$ inches, depth 16.1 feet. Records available: 1949. Aug. 15, 9.75; Aug. 29, 8.11; Sept. 29, 8.31; Oct. 28, 8.30; Nov. 29, 8.75; Dec. 30, 9.01.

A22-59-17aa. John Stip. Dug industrial well, diameter 48 inches, depth 11.3 feet. Records available: 1949. July 5, 6.49; Aug. 29, 6.36; Sept. 29, 6.89; Oct. 28, 7.20; Nov. 28, 7.59; Dec. 30, 7.65.

A22-59-17ba1. E. D. Voorhes. Driven unused well, diameter $1\frac{1}{4}$ inches, depth 18.1 feet. Records available: 1949. July 5, 5.86; Aug. 29, 5.10; Sept. 29, 6.79; Oct. 28, 7.44; Nov. 28, 8.12; Dec. 30, 8.55.

A22-59-18ab. A. Groskinsky. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 20.6 feet. Records available: 1949. Sept. 3, 5.80; Sept. 29, 7.51; Oct. 28, 8.36; Nov. 29, 8.84; Dec. 30, 9.10.

A22-59-18bc. G. Hofner. Dug domestic and stock well, diameter 36 inches, depth 10.1 feet. Records available: 1949. July 21, 8.30; July 31, 7.93; Aug. 30, 4.65; Sept. 29, 4.82; Oct. 28, 5.89; Nov. 29, 7.94; Dec. 30, 9.10.

A22-59-18ca. A. Rodriguez. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 23.5 feet. Records available: 1949. Aug. 9, 8.77; Aug. 29, 6.21; Sept. 29, 7.29; Oct. 28, 7.11; Nov. 29, 9.14; Dec. 30, 9.25.

A22-59-19ab. M. Simonsen. Driven stock well, diameter 3 feet, depth 9.0 feet. Records available: 1949. Aug. 23, 3.30; Sept. 30, 3.98; Oct. 28, 5.36; Nov. 29, 6.08; Dec. 30, 6.32.

A22-59-19bb. Merrien Simonsen. Drilled observation well, diameter 2.5 inches, depth 7.0 feet. Records available: 1949. Aug. 23, 5.02; Sept. 30, 1.68; Oct. 28, 0.72; Nov. 29, 1.38; Dec. 30, 1.31.

A22-59-19cc. O'Brien. Drilled observation well, diameter 1 inch, depth 11.6 feet. Records available: 1949. Sept. 12, 4.75; Sept. 30, 3.57; Oct. 28, 4.58; Nov. 29, 5.56; Dec. 30, 6.10.

A22-59-20bc. Owner unknown. Driven observation well, diameter 1 inch, depth 18.4 feet. Records available: 1949. Sept. 12, 15.25; Oct. 28, 15.09; Nov. 29, 15.54; Dec. 30, 14.15.

A22-59-21bb. Owner unknown. Drilled observation well, diameter $2\frac{1}{2}$ inches, depth 13.6 feet. Records available: 1949. Aug. 25, 11.48; Sept. 29, 11.41; Oct. 28, 10.96; Nov. 29, 11.46; Dec. 30, 11.57.

A22-59-28cc. Owner unknown. Dug unused well, diameter 36 inches, depth 25.0 feet. Records available: 1949. June 8, 16.38; July 30, 16.03; Aug. 29, 15.60; Sept. 29, 15.06; Oct. 28, 15.18; Nov. 29, 15.75; Dec. 30, 16.09.

A22-59-30cd. U. S. Geol. Survey. Drilled observation well, diameter 2 inches, depth 11.8 feet. Records available: 1949. Sept. 2, 8.19; Sept. 30, 8.25; Oct. 29, 8.61; Nov. 29, 8.76; Dec. 30, 8.72.

A22-59-31cb. Albert Odenbach. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 20.2 feet. Records available: 1949. June 23, 4.95; July 31, 4.72; Aug. 30, 3.88; Sept. 30, 3.99; Oct. 29, 4.67; Nov. 29, 5.22; Dec. 31, 5.47.

A22-59-31cc. Albert Odenbach. Driven unused well, diameter 36 inches, depth 10.5 feet. Records available: 1949. June 23, 9.27; July 31, 9.08; Aug. 30, 8.53; Sept. 30, 8.31; Oct. 29, 8.66; Nov. 29, 9.33; Dec. 31, 9.70.

A22-59-31dd. Bert Pust. Driven unused well, diameter $1\frac{1}{4}$ inches, depth 27.9 feet. Records available: 1949. June 23, 10.22; July 31, 10.88; Aug. 30, 10.71; Sept. 30, 11.08; Oct. 29, 11.87.

A22-59-32da. H. H. Kincaid. Dug stock well, diameter $1\frac{1}{4}$ inches, depth 31.9 feet. Records available: 1949. July 7, 15.43; Aug. 29, 9.28; Sept. 29, 11.11; Oct. 28, dry.

A22-59-32dd. Lewis Albert. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 12.9 feet. Records available: 1949. July 7, 2.38; Aug. 29, 2.08; Sept. 29, 1.57; Oct. 28, 1.50; Nov. 29, 1.86; Dec. 30, 2.10.

A22-59-34ca. Owner unknown. Drilled unused well, diameter 2 feet, depth 100 feet. Records available: 1949. Aug. 10, 73.18; Sept. 29, 72.94; Oct. 28, 72.79; Nov. 29, 73.37; Dec. 30, 75.10.

A22-59-34cb. Owner unknown. Drilled unused well, diameter 4 inches, depth 65.5 feet. Records available: 1949. Aug. 10, 63.02; Sept. 29, 63.31; Oct. 28, 63.44; Nov. 29, 63.88; Dec. 30, 65.34.

A23-59-lab. Mexican Labor House. Driven domestic well, diameter $1\frac{1}{4}$ inches, depth 20.1 feet. Records available: 1949. June 28, 5.31; July 30, 4.69; Aug. 29, 4.36; Sept. 28, 3.91; Oct. 27, 4.29; Nov. 25, 4.72; Dec. 29, 5.02.

A23-59-lcc. Mrs. Marie Sorenson. Dug domestic well, diameter 20 inches, depth 15.1 feet. Records available: 1949. June 28, 11.82; July 30, 11.85; Aug. 29, 10.65; Sept. 28, 10.82; Oct. 27, 11.15; Nov. 25, 11.65; Dec. 29, 11.93.

A23-59-ldc. Nels Bach. Driven domestic well, diameter 1.25 inches, depth 14.4 feet. Records available: 1949. June 24, 8.48; July 30, 8.22; Aug. 29, 7.95; Sept. 28, 7.72; Oct. 27, 8.11; Nov. 25, 8.81; Dec. 29, 8.85.

A23-59-2ca. Chris Iverson. Driven domestic well, diameter 1.25 inches, depth 14.4 feet. Records available: 1949. June 27, 6.99; July 30, 6.00; Aug. 29, 5.74; Sept. 28, 7.73; Oct. 27, 9.19; Nov. 25, 9.50; Dec. 29, 9.47.

A23-59-2cc. Jay Gibbs. Dug domestic well, diameter 48 inches, depth 11.9 feet. Records available: 1949. June 27, 9.92; July 30, 8.43; Aug. 29, 7.26; Sept. 28, 6.13; Oct. 27, 7.38; Nov. 25, 9.00.

A23-59-2ddl. Mexican Labor House. Driven domestic well, diameter 1.25 inches, depth 16.6 feet. Records available: 1949. June 24, 6.38; July 30, 6.22; Aug. 29, 5.46; Sept. 28, 5.70; Oct. 27, 4.32; Nov. 25, 5.59; Dec. 29, 6.68.

A23-59-2dd2. Ridgelawn School. Dug domestic well, diameter 45 inches, depth 10.2 feet. Records available: 1949. June 8, 7.04; July 30, 6.19; Aug. 29, 4.48; Sept. 28, 4.72; Oct. 27, 5.75; Nov. 25, 6.49; Dec. 29, 7.15.

A23-59-8dd. Lloyd Flom. Dug domestic and stock well, diameter 30 inches, depth 16.4 feet. Records available: 1949. June 14, 8.75; July 30, 10.09; Aug. 29, 11.29; Sept. 28, 11.38; Oct. 27, 11.06; Nov. 25, 10.85; Dec. 29, 12.97.

A23-59-11aal. Owner unknown. Driven unused well, diameter 1.25 inches, depth 13.2 feet. Records available: 1949. June 8, 6.65; July 30, 6.49; Aug. 29, 4.36; Sept. 28, 4.80; Oct. 27, 5.01.

A23-59-11ab. Herb Leonard. Drilled domestic well, diameter 4 inches, depth 10.7 feet. Records available: 1949. June 24, 7.24; July 30, 7.27; Aug. 29, 6.89; Sept. 28, 7.08; Oct. 27, 7.67; Nov. 25, 7.98; Dec. 29, 8.22.

A23-59-11bal. Chris Iverson. Driven domestic well, diameter 1.25 inches, depth 16.6 feet. Records available: 1949. June 27, 5.42; July 30, 2.90; Aug. 29, 3.10; Sept. 28, 3.79; Oct. 27, 6.11.

A23-59-11ba2. Radio Station KG CX. Dug domestic well, diameter 24 inches, depth 8.2 feet. Records available: 1949. June 24, 3.13; July 30, 3.69; Aug. 29, 3.41; Sept. 28, 3.50; Oct. 27, 3.71; Nov. 25, 5.40; Dec. 29, 5.52.

A23-59-11cc. Mexican Labor House. Driven domestic well, diameter 1.25 inches, depth 17.7 feet. Records available: 1949. June 23, 7.78; July 30, 7.70; Aug. 29, 7.19; Sept. 28, 7.42; Oct. 27, 7.98; Nov. 25, 8.19.

A23-59-12dal. Wm. Lewis. Dug stock well, diameter 36 inches, depth 8.2 feet. Records available: 1949. June 21, 3.61; July 30, 4.17; Aug. 29, 4.02; Sept. 28, 4.04; Oct. 27, 4.41; Nov. 25, 4.81; Dec. 29, 5.16.

A23-59-13aa. U. S. Geol. Survey. Drilled observation well, diameter 2 inches, depth 9.00 feet. Records available: Aug. 15, 3.60; Aug. 29, 4.98; Sept. 28, 4.93; Oct. 27, 5.34; Nov. 25, 5.74; Dec. 29, 6.11.

A23-59-13bc. Peter Storholm. Driven domestic well, diameter 1.25 inches, depth 22.8 feet. Records available: 1949. June 20, 8.50; July 30, 8.01; Aug. 29, 7.22; Sept. 28, 10.67; Oct. 27, 9.62; Nov. 25, 10.86; Dec. 29, 11.12.

A23-59-13cc. John Hundtoft. Dug domestic and stock well, diameter 36 inches, depth 15.8 feet. Records available: 1949. June 20, 8.89; July 30, 10.53; Aug. 29, 9.30; Sept. 28, 10.07; Oct. 27, 11.01; Nov. 25, 12.63; Dec. 29, 12.00.

A23-59-14ab. Tony Christoferson. Dug domestic and stock well, diameter 48 inches, depth 11.4 feet. Records available: 1949. June 21, 7.92; July 30, 7.07; Aug. 29, 4.85; Sept. 28, 4.99; Oct. 27, 6.30; Nov. 25, 7.32; Dec. 29, 8.29.

A23-59-14cc. Jens L. Larson. Dug domestic and stock well, diameter 48 inches, depth 10.3 feet. Records available: 1949. June 20, 8.19; July 30, 8.86; Aug. 29, 6.62; Sept. 28, 6.98; Oct. 27, 7.85; Nov. 25, 8.43; Dec. 29, 8.94.

A23-59-14da. Glen Joslin. Driven domestic well, diameter 1.25 inches, depth 15.0 feet. Records available: 1949. June 20, 7.69; July 30, 7.24; Aug. 29, 6.30; Sept. 28, 9.55; Oct. 27, 9.84; Nov. 25, 9.91; Dec. 29, 9.27.

A23-59-15ab. Richard Hass. Dug stock well, diameter 36 inches, depth 10.2 feet. Records available: 1949. June 21, 7.56; July 30, 7.20; Aug. 29, 6.53; Sept. 28, 7.10; Oct. 27, 8.18; Nov. 25, 9.72; Dec. 29, 9.32.

A23-59-15db1. W. J. Hardy. Dug stock well, diameter 36 inches, depth 12.4 feet. Records available: 1949. June 21, 8.27; July 30, 8.45; Aug. 29, 7.90; Sept. 28, 8.29; Oct. 27, 8.50; Nov. 25, 8.71.

A23-59-15db2. Mrs. Ella Nevins. Drilled domestic well, diameter 6 inches, depth 15.4 feet. Records available: 1949. June 21, 8.97; July 30, 8.46; Aug. 29, 7.98; Sept. 28, 8.53; Oct. 27, 9.24; Nov. 25, 9.87; Dec. 29, 10.77.

A23-59-15dc. Nels C. Anderson. Dug stock well, diameter 20 inches, depth 7.4 feet. Records available: 1949. June 21, 5.34; July 30, 4.35; Aug. 29, 3.77; Sept. 28, 4.63; Oct. 27, 5.83; Nov. 25, 6.97.

A23-59-21abl. Soren Peterson. Dug domestic and stock well, diameter 48 inches, depth 19.5 feet. Records available: 1949. June 17, 11.72; July 30, 11.16; Aug. 29, 9.04; Sept. 28, 9.09; Oct. 27, 10.32; Nov. 25, 11.48.

A23-59-21cd. Mexican Labor House. Driven domestic well, diameter 1.25 inches, depth 11.3 feet. Records available: 1949. June 14, 5.29; July 30, 5.17; Aug. 29, 4.98; Sept. 28, 4.89; Oct. 27, 5.47; Nov. 25, 6.72; Dec. 29, 6.18.

A23-59-21db. Nels Bach. Dug stock well, dimensions 3.2 x 1.8 feet, depth 11.4 feet. Records available: 1949. June 17, 3.00; July 30, 5.06; Aug. 29, 4.38; Sept. 28, 5.63; Oct. 27, 4.70; Nov. 25, 5.46; Dec. 29, 6.60.

A23-59-21dd. Gunnar Hansen. Dug stock well, diameter 36 inches, depth 12.2 feet. Records available: 1949. June 15, 4.42; July 30, 5.86; Aug. 29, 5.10; Sept. 28, 5.65; Oct. 27, 6.21; Nov. 25, 6.91; Dec. 29, 7.25.

A23-59-22ab. E. H. Robinson. Driven domestic well, diameter 30 inches, depth 16.4 feet. Records available: 1949. June 20, 8.63; July 30, 7.41; Aug. 29, 5.08; Sept. 28, 5.86; Oct. 29, 7.52; Nov. 25, 8.94; Dec. 29, 9.64.

A23-59-22bc. Nels C. Anderson. Dug stock well, diameter 18 inches, depth 9.9 feet. Records available: 1949. June 17, 5.08; July 30, 4.55; Aug. 29, 4.62; Sept. 28, 4.42; Oct. 27, 4.01; Nov. 25, 5.51; Dec. 29, 7.18.

A23-59-22cb. Lars Peterson. Dug domestic and stock well, diameter 36 inches, depth 15.1 feet. Records available: 1949. June 17, 7.01; July 30, 6.49; Aug. 29, 5.19; Sept. 28, 5.50; Oct. 27, 6.36; Nov. 25, 7.11; Dec. 29, 9.37.

A23-59-22dd. Nels Bach. Driven domestic well, diameter 1.25 inches, depth 17.8 feet. Records available: 1949. June 20, 12.60; July 30, 11.67; Aug. 29, 11.04; Sept. 28, 10.77; Oct. 27, 11.36; Nov. 25, 12.71; Dec. 29, 13.33.

A23-59-23ba. Glen Hall. Driven domestic and stock well, diameter 1.25 inches, depth 48.0 feet. Records available: 1949. June 20, 18.39; July 30, 18.70; Aug. 29, 15.10; Sept. 28, 15.00; Oct. 27, 16.96; Nov. 25, 18.16; Dec. 29, 19.28.

A23-59-23dc. U. S. Geol. Survey. Drilled observation well, diameter 2 inches, depth 14.9 feet. Records available: 1949. Aug. 28, 8.33; Sept. 28, 8.62; Oct. 27, 9.20; Nov. 25, 10.01; Dec. 29, 10.25.

A23-59-24aa. Owner unknown. Driven domestic well, diameter 1.25 inches, depth 25.7 feet. Aug. 24, 14.47; Sept. 30, 14.41.

A23-59-24dc. Ernie Ellertsen. Driven domestic well, diameter 1.25 inches, depth 21.0 feet. Records available: 1949. June 23, 7.09; July 31, 5.55; Aug. 30, 8.29; Sept. 29, 9.24; Oct. 28, 9.00; Nov. 29, 10.69; Dec. 30, 11.07.

A23-59-26dd. U. S. Geol. Survey. Drilled observation well, diameter 2.0 inches, depth 10.0 feet. Records available: 1949. Aug. 10, 6.35; Aug. 29, 5.86; Sept. 28, 6.18; Oct. 28, 6.77; Nov. 28, 7.17; Dec. 29, 7.11.

A23-59-27bb. Beagle Land and Livestock Co. Dug stock well, diameter 48 inches, depth 10.1 feet. Records available: 1949. Aug. 29, 2.79; Sept. 28, 3.25; Oct. 27, 4.71; Nov. 25, 5.65; Dec. 29, 5.29.

A23-59-27dc. Mexican Labor House. Dug domestic well, diameter 24 inches, depth 10.1 feet. Records available: 1949. Aug. 8, 8.18; Aug. 29, 7.82; Sept. 28, 8.70.

A23-59-28ad. Wm. Nelson. Drilled domestic well, diameter 5.0 inches, depth 34.4 feet. Records available: 1949. July 23, 7.00; Aug. 29, 6.00.

A23-59-28bb. U. S. Geol. Survey. Drilled observation well, diameter 2.0 inches, depth 13.9 feet. Records available: 1949. Aug. 29, 4.81; Sept. 28, 5.48; Oct. 27, 6.91; Nov. 25, 7.32; Dec. 29, 8.24.

A23-59-28cc. Anna Harper. Driven domestic well, diameter 1.25 inches, depth 17.4 feet. Records available: 1949. June 14, 5.21; July 30, 5.54; Aug. 29, 4.61; Sept. 28, 4.52.

A23-59-28db1. Vox. Driven domestic well, diameter 1.25 inches, depth 19.6 feet. Records available: 1949. June 14, 5.27; July 30, 5.03; Aug. 29, 3.00; Sept. 28, 4.07; Oct. 27, 5.11; Nov. 25, 6.12; Dec. 29, 6.79.

A23-59-31aa2. Sidney Golf Course. Dug domestic well, diameter 36 inches, depth 20.4 feet. Records available: 1949. June 14, 18.68; July 30, 18.69; Aug. 29, 18.68; Sept. 28, 17.97; Oct. 27, 17.42; Nov. 25, 18.43; Dec. 29, 19.07.

A23-59-32dd2. I. J. Peterson. Driven domestic well, diameter 1.25 inches, depth 20.4 feet. Records available: 1949. June 14, 9.04; July 30, 10.09; Aug. 29, 8.46; Sept. 28, 8.37; Oct. 28, 9.11; Nov. 28, 10.01; Dec. 29, 10.50.

A23-59-33ad. Flour mill. Dug irrigation well, diameter 72 inches, depth 11.3 feet. Records available: 1949. June 15, 10.60; July 30, 10.35; Aug. 29, 10.13; Sept. 29, 10.03; Oct. 28, 10.20; Nov. 28, 10.32; Dec. 29, 10.45.

A23-59-33db. Jim Campbell. Driven domestic well, diameter 1.25 inches, depth 23.1 feet. Records available: 1949. June 13, 8.49; July 30, 8.97; Aug. 29, 8.55; Sept. 29, 8.38; Oct. 28, 8.63; Nov. 28, 8.87; Dec. 29, 9.15.

A23-59-33dc. H. Willeqt. Driven domestic well, diameter 1.25 inches, depth 20.2 feet. Records available: 1949. June 15, 9.05; July 30, 9.21; Aug. 29, 7.59; Sept. 29, 5.75; Oct. 28, 8.50.

A23-59-33dd. Jack Kling. Dug stock well, diameter 30 inches, depth 19 feet. Records available: 1949. July 13, 8.76; July 31, 8.37; Aug. 30, 7.76; Sept. 29, 7.54; Oct. 28, 8.34; Nov. 28, 8.93; Dec. 29, 10.00.

A23-59-35bc. Rudolph Propp. Driven domestic well, diameter 1.25 inches, depth 18.7 feet. Records available: 1949. Aug. 5, 8.23; Aug. 30, 7.53; Sept. 29, 7.78; Oct. 28, 7.93; Nov. 28, 8.42; Dec. 29, 8.30.

A23-59-35dcl. U. S. Geol. Survey. Drilled observation well, diameter 1.0 inch, depth 12.5 feet. Records available: 1949. Sept. 2, 9.91; Sept. 29, 10.07; Oct. 28, 10.28; Nov. 28, 10.61; Dec. 29, 10.72.

A23-60-6ca. Elmer Ward. Driven domestic well, diameter 1.25 inches, depth 30.0 feet. Records available: 1949. June 24, 6.87; July 30, 7.74; Aug. 29, 7.25; Sept. 28, 7.82; Oct. 27, 9.07; Nov. 25, 9.37; Dec. 29, 9.73.

A23-60-6dc. R. W. Erps. Driven stock well, diameter 1.25 inches, depth 27.6 feet. Records available: 1949. June 23, 3.48; July 30, 4.77; Aug. 29, 5.55; Sept. 28, 4.52; Oct. 27, 6.07.

A23-60-8bc. Owner unknown. Drilled observation well, diameter 2 inches, depth 8.5 feet. Records available: 1949. July 12, 7.00; Aug. 29, 6.85; Sept. 28, 6.76; Oct. 27, 6.55; Nov. 25, 7.52; Dec. 29, 7.50.

A23-60-18aa. Peter Storholm. Driven domestic well, diameter 1.25 inches, depth 18.6 feet. Records available: 1949. Aug. 8, 8.50; Aug. 29, 10.78; Sept. 28, 10.54; Oct. 27, 9.79; Nov. 25, 11.25; Dec. 29, 11.94.

A23-60-18bb. Mexican Labor House. Driven domestic well, diameter 1.25 inches, depth 21 feet. Records available: 1949. Aug. 24, 7.36; Sept. 28, 7.02; Oct. 27, 8.31; Nov. 25, 8.66; Dec. 29, 8.89.

A23-60-18db. Peter Storholm. Driven domestic and stock well, diameter 1.25 inches, depth 28 feet. Records available: 1949. Aug. 24, 9.98; Sept. 29, 10.32; Oct. 28, 10.03; Nov. 29, 10.94; Dec. 30, 11.49.

A23-60-19bc. Owner unknown. Driven domestic well, diameter 1.25 inches, depth 27.9 feet. Records available: 1949. Aug. 24, 11.10; Sept. 29, 11.49; Oct. 28, 11.90; Nov. 29, 12.75; Dec. 30, 13.32.

A23-60-19cal. John Christensen. Dug domestic and stock well, diameter 36 inches, depth 21.7 feet. Records available: 1949. June 22, 10.91; July 31, 12.17; Aug. 30, 8.96; Sept. 29, 13.17; Oct. 28, 11.50; Nov. 29, 13.67; Dec. 30, 14.01.

Roosevelt County

A27-48-10cb. Jos. Comrad. Records available: 1946-49. Mar. 3, 15.83; Apr. 7, 16.03; May 4, 16.18; June 3, 16.35; Nov. 16, 16.32.

A27-48-12bbl (Formerly A27-48-12bc). Harry Johnston. Records available: 1946-49. Mar. 3, 20.72; Apr. 7, 20.83; May 4, 21.90; June 3, 20.90; July 12, 20.95; Aug. 17, 21.23; Nov. 16, 21.60.

A27-49-7bb. Owner unknown. Records available: 1947-49. Mar. 3, 7.73; Apr. 7, 7.35; May 4, 6.86; June 3, 6.86; July 12, 7.16; Aug. 17, 7.72; Nov. 28, 8.35.

A27-51-8cal (Formerly A27-51-9ca). Leo Combs. Records available: 1946-49. Mar. 4, 9.40; Apr. 6, 10.05; May 5, 9.88; June 2, 11.43; July 13, 11.59; Aug. 15, 9.57.

A27-52-8ac. Owner unknown. Records available: 1946-49. Mar. 4, 66.82; Apr. 6, 66.47; May 5, 66.86; June 2, 66.88; July 13, 66.90; Aug. 15, 67.15; Oct. 25, 67.29.

A27-52-9bb (Formerly A27-52-8ad). Owner unknown. Records available: 1946-49. Mar. 4, 66.63; Apr. 4, 65.05; May 5, 66.39; June 2, 67.71; July 13, 68.00; Aug. 15, 66.85; Oct. 28, 65.26.

A27-52-16bd. Rattle Thunder. Records available: 1946-49. May 5, 36.71; June 2, 38.23; July 13, 38.38; Aug. 15, 37.53; Oct. 26, 37.10.

A28-49-34bd. E. Bear. Records available: 1946-49. Nov. 19, 34.59.

A28-49-35ca. Owner unknown. Records available: 1946-49. Mar. 3, 18.50; Apr. 7, 18.55; May 4, 18.62; June 3, 18.60; July 12, 18.75; Aug. 17, 19.21; Nov. 28, 19.82.

A28-50-33dc. Owner unknown. Records available: 1946-49. Apr. 7, 16.50. Measurement discontinued.

A28-53-30dd. Owner unknown. Records available: 1946-49. Mar. 3, 25.80; Apr. 6, 24.80; May 5, 25.46; June 2, 26.35; July 13, 27.15; Aug. 15, 26.44; Oct. 28, 26.35.

A28-57-28dc. Owner unknown. Records available: 1946-49. Mar. 4, 25.15; Apr. 6, 25.31; May 5, 25.40; June 2, 25.16; July 13, 26.22; Aug. 15, 25.40; Nov. 16, 25.52.

A29-51-36aa. U. S. Bureau of Reclamation. Records available: 1947-49. May 5, 1.60; June 2, 1.38; July 13, 2.70.

A29-51-36bb. U. S. Bureau of Reclamation. Records available: 1947-49. May 5, 7.45; June 2, 8.25; July 13, 9.35; Aug. 16, 9.36.

A29-52-30ac. U. S. Bureau of Reclamation. Records available: 1947-49. Apr. 6, 4.75; May 5, 4.80; June 2, 4.13; July 13, 4.31; Aug. 16, 4.73.

A30-53-29dd. Owner unknown. Records available: 1946-49. Apr. 6, 57.06; May 5, 57.08; June 2, 57.00; July 13, 57.11; Aug. 16, 57.05.

A30-55-1aa. Owner unknown. Records available: 1947-49. Mar. 4, 30.80; Apr. 6, 29.24; May 5, 29.25; June 2, 29.15; July 8, 29.22; July 13, 29.25; Aug. 15, 29.21.

A30-55-36ad. Owner unknown. Records available: 1946-49. Mar. 4, 10.81; Apr. 6, 8.42.

A30-56-7cc. Christopherson. Records available: 1946-49. Mar. 4, 60.34; May 5, 60.40; Aug. 15, 60.40.

Sheridan County

A31-55-27bc. U. S. Fish and Wildlife Service. Records available: 1946-49. Apr. 6, 4.04; May 5, 3.62; June 2, 4.81; July 13, 5.52; Aug. 15, 5.83.

A31-56-30bb. U. S. Geol. Survey. Records available: 1947-49. Mar. 4, 54.99; Apr. 16, 55.07; May 5, 55.15; June 2, 55.04; July 13, 56.10; Aug. 15, 55.06.

A31-56-31bb. Owner unknown. Records available: 1946-49. Mar. 4, 23.91; Apr. 5, 23.97; May 5, 24.00; June 2, 23.94; July 8, 23.96; July 13, 24.04; Aug. 15, 23.97.

A32-56-31bb. U. S. Geol. Survey. Records available: 1947-49. Mar. 4, 33.70; Apr. 6, 33.41; May 5, 33.30; June 2, 33.20; July 8, 33.32; July 13, 33.35; Aug. 15, 33.50.

A33-56-31bb. Owner unknown. Records available: 1946-49. Mar. 4, 36.09; Apr. 6, 36.08; May 5, 36.16; June 2, 36.05; July 13, 36.15; Aug. 15, 36.12.

A33-57-33dd. Owner unknown. Records available: 1946-49. Apr. 6, 69.09; May 5, 69.35.

A33-57-34bb. Owner unknown. Records available: 1946-49. Mar. 4, 80.67; Apr. 6, 80.74; May 5, 81.15; June 2, 80.89; July 13, 80.87; Aug. 15, 80.30.

Stillwater County

D2-23-29ba. Alvin Southworth. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 14	7.42	May 20	9.23	July 28	3.78	Oct. 10	2.72
Apr. 8	10.44	June 21	7.95	Sept. 23	2.73	Dec. 21	7.99
18	10.75						

Sweet Grass County

A4-14-14ba. Spike VanCleave. Records available: 1947-49.

Jan. 5	13.89	Apr. 18	13.40	July 26	7.61	Nov. 2	8.29
Mar. 21	14.44	June 23	5.90	Aug. 25	9.21	Dec. 14	12.35
Apr. 8	13.58	July 15	9.77	Oct. 10	10.35		

Teton County

B25-1-15ab. Don Meech. Records available: 1947-49.

Jan. 14	14.74	May 21	14.00	Sept. 6	16.00	Nov. 19	16.02
Feb. 8	14.00	June 11	14.80	Oct. 9	15.62	Dec. 15	15.26
May 2	13.84	Aug. 16	15.59				

Toole County

B36-2-8cc. Clyde Hannon. Records available: 1947-49.

Feb. 19	10.06	July 7	9.18	Aug. 23	9.57	Nov. 11	9.85
28	9.50	15	8.83	Sept. 10	9.29	14	9.85
May 6	9.22	Aug. 3	9.23	26	9.50	Dec. 15	9.92
24	8.26						

Valley County

A26-40-3bd. Owner unknown. Records available: 1946-49. July 10, 5.25; Nov. 2, 7.20.

A26-45-1cb1. George Conner. Records available: 1947-49. Nov. 1, 20.88.

A26-45-6aa. Owner unknown. Records available: 1947-49. Mar. 3, 21.44; Apr. 4, 21.39; May 2, 20.25; June 1, 16.76; July 12, 15.50; Aug. 17, 16.50; Nov. 4, 16.93.

A27-40-18ad (formerly A27-40-7ad). Owner unknown. Records available: 1946-49. July 10, 10.18; Nov. 2, 11.22.

A27-41-7bc. Mrs. D. Oakland. Records available: 1946-49. July 9, 14.62; Nov. 5, dry.

A27-43-23cb (formerly A27-43-22cd). Owner unknown. Records available: 1946-49. Mar. 3, 26.13; Apr. 5, 24.63; May 2, 25.00; June 1, 27.10; July 12, 24.60; Aug. 17, 25.00; Nov. 14, 24.63.

A27-45-33dc. Eva Mae Smith. Records available: 1947-49. Apr. 5, 9.99; May 2, 9.90; June 1, 6.62; July 12, 4.40; Aug. 17, 4.12; Nov. 2, 5.11.

A28-38-1bb. Owner unknown. Records available: 1946-49. July 7, 37.09; Nov. 5, 36.87.

A29-37-1aa. Owner unknown. Records available: 1946-49. July 9, 91.03; Nov. 5, 90.96.

Yellowstone County

A4-33-1aa. Cross Service Station. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 11	10.76	June 22	8.20	Sept. 16	9.16	Nov. 10	9.26
May 16	11.83	Aug. 10	7.51	Oct. 13	8.90	Dec. 19	10.13
June 17	8.10	17	8.05				

OREGON

By F. A. Watkins, Jr.

SCOPE OF WATER-LEVEL PROGRAM

The observation-well program in Oregon was continued in 1949 in cooperation with the State Engineer. During the year about 490 measurements were made in 66 wells. A preliminary report on the occurrence of ground water in Baker Valley was completed. Work was continued on a ground-water inventory of the Walla Walla River Basin, in Umatilla County. Field work was completed in the Swan Lake-Yonna Valley area.

PRECIPITATION

The following table gives U. S. Weather Bureau records showing average monthly and seasonal distribution of precipitation, in inches and in percentage of the whole, at two representative stations for 50 years of record, and rainfall in percentage of the average for the water-year ending September 30, 1949. Records at the Portland station are given to represent western Oregon and at the Baker station for eastern Oregon.

Month	Rainfall at Portland			Rainfall at Baker		
	50-year average		1948-49	50-year average		1948-49
	Inches	Percent	Percent	Inches	Percent	Percent
Oct.	2.80	7.2	6.2	0.74	6.6	2.8
Nov.	6.05	15.5	19.8	1.02	9.0	8.2
Dec.	6.66	17.0	25.7	1.23	10.9	16.0
Jan.	5.80	14.9	2.3	1.19	10.6	1.8
Feb.	4.74	12.1	29.3	1.06	9.4	10.6
Mar.	3.92	10.0	8.5	1.05	9.3	4.5
	29.97	76.7	91.8	6.29	55.8	43.9
Apr.	2.73	7.0	2.3	.98	8.7	7.3
May	1.93	4.9	7.1	1.25	11.1	9.8
June	1.48	3.8	1.1	1.10	9.7	1.2
July	.48	1.2	1.6	.48	4.3	2.8
Aug.	.61	1.6	.4	.46	4.1	2.3
Sept.	1.86	4.8	3.2	.71	6.3	3.8
	9.09	23.3	15.7	4.98	44.2	27.2
The year	39.06	100.0	107.5	11.27	100.0	71.1

The following table shows by provinces the precipitation at 17 representative stations, in inches, and relative wetness, in percentage of the 50-year average, for the water-year ending September 30, 1949. Precipitation

ranged from 55.2 percent of normal at the Harney Branch Experiment Station, Harney County, to 107.9 percent at Fall City, Polk County. Average for the State was 88.6 percent of normal.

Province	Station and county	Precipitation, 1948-49	
		Inches	Percentage of 50-year average (1891-1940)
Northern Coast Ranges	Ashland, Jackson	616.63	84.4
	Astoria, Clatsop	77.87	100.9
	Bandon, Coos	654.01	85.8
	Grants Pass, Josephine	19.50	66.6
	Newport, Lincoln	59.97	88.2
Puget Willamette Trough	Albany, Linn	42.14	104.0
	Eugene, Lane	36.59	97.1
	Fall City, Polk	78.01	107.9
	Portland, Multnomah	41.97	107.5
	Salem, Marion	41.11	107.4
Columbia Plateau	Baker, Baker	8.03	71.1
	Bend, Deschutes	8.97	70.7
	LaGrande, Union	18.42	96.1
	The Dalles, Wasco	13.71	101.5
	Umatilla, Umatilla	5.25	70.1
Basin and Range	Harney Branch Experiment Station, Harney	5.00	55.2
	Klamath Falls, Klamath	12.02	92.2

b Estimated in minor part.

FLUCTUATIONS OF WATER LEVELS

September-end water levels in wells 1N/1-34N1, in Multnomah County, and 15/4W-32M1, in Lane County, were 0.99 foot lower in 1948 than in 1948. Other wells in the Willamette Valley are listed under Benton, Linn, Marion, Washington and Yamhill Counties. In the Prineville area of Deschutes River subprovince, measurements of water levels were made in five wells. Well 14/16-32N1 and well 14/15-15Q1 (in Crook County) have comparable records for 1948 and 1949. Well 14/16-32N1, in an area of heavy pumping, showed a decline of 11.40 feet. Well 14/15-15Q1, outside the area of heavy pumping, showed a rise of 17 feet. In two artesian wells in The Dalles area, in Wasco County--1N/13-32G1 and 1N/13-32H1, the March 1949 water level was 10.12 feet below that of March 1948. Well 1N/13-23D1, in the Yakima basalt, was 8 feet lower in March 1949 than in March 1948. Well 2N/12-25 R1, in The Dalles formation, showed a rise of 2.59 feet over the March 1948 level. Water levels in August 1949 in Fort Rock Valley and Chewaucan Valley averaged 0.14 foot lower than in August 1948. The September 1949 levels for the wells in the Walla Walla subprovince averaged 1.02 feet below the September 1948 levels. In well 6N/35-36H1, the highest level of the year occurred in June 1949 and was 0.74 foot below the high of July 1948. On the average,

the water levels in the Harney Basin subprovince for August 1949 were 0.55 foot below those of August 1948. The yearly high (1.70) in well 23/31-33E1 in May was 0.23 foot below the high of June 1948. Water levels in the wells measured in the Grande Ronde subprovince showed virtually the same level in July 1949 as in July 1948, except for the three wells in Union County, which averaged 0.93 foot higher in July 1949 than in July 1948.

WELL-NUMBERING SYSTEM

The field numbers used in this report show the location of wells according to the official rectangular system for subdivision of the public land. The part preceding the hyphen indicates township and range; the one or two digits immediately following the hyphen indicate the section; the letter following indicates the 40-acre subdivision of the section, as shown in the accompanying diagram; and the final digit indicates the serial

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

number of the well within that 40-acre tract. Locations in Oregon are referred to the Willamette base line and meridian. If no letter appears after the township number, the township lies south of the base line; if no letter appears after the range number, the range lies east of the meridian. Thus, well 3/38-25B1 is in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 3 S., R. 38 E., and is the first well listed in this tract.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Baker County

Baker Valley

7/39-20N1. City of Baker. Water-table well in alluvium. Records available: 1936, 1938-49. Mar. 8, 2.34; July 2, 3.52; Aug. 18, 5.68; Nov. 11, 6.26.

8/39-22F1. Baker County. Water-table well in alluvium. Records available: 1936, 1938-49. Mar. 8, 2.75; July 2, 4.30; Nov. 11, 4.53.

8/40-19D1. Baker County. Water-table well in alluvium. Records available: 1936, 1938-49. Mar. 8, 1.57; July 2, 4.15; Aug. 19, 6.73; Nov. 11, 6.08.

8/40-23A1. Baker County. Driven water-table well in alluvium. Diameter $1\frac{1}{2}$ inches, depth 7.50 feet. Installed to replace dug well. Land surface datum is 3,347.28 feet above sea level. Records available: 1936, 1938-47, 1949. Nov. 11, 4.03.

Benton County

Willamette Valley

14/5W-10R1. Chris Lindseth. Water in alluvium. Records available: 1938-49. Apr. 5, 10.60; June 16, 12.47; Nov. 26, 14.75.

Crook County

14/15-15Q1. M. D. Colahan. Flowing artesian well. Pressure-gage readings by owner. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 6	68.0	July 10	67.0	Aug. 8	67.5	Nov. 4	66.5
7	68.5	13	63.0	26	64.5	7	68.25
8	64.5	Aug. 3	64.5	Sept. 18	70.5		

14/16-19H1. Leslie Clauson. Records available: 1947-49. Mar. 13, 16.85; July 4, 6.33; Aug. 26, 2.74; Dec. 7, 8.48.

14/16-32N1. E. E. Wagoner. Records available: 1944-49. July 4, 14.11; Aug. 26, 18.93.

15/16-5D1. Pacific Power & Light Co. Water in alluvium along Ochoco Creek. Records available: 1947-49. July 4, 7.17; Aug. 26, 7.25.

15/16-6A1. M. E. Gerow. Flowing artesian well. Records available: 1943-49. Jan 7, 6.5; Jan. 21, 6.0; Feb. 1, 5.66; Mar. 13, 3.30.

Harney County

Harney Basin

22/31-34N1. Frank Whiting. Artesian water in Danforth formation. Records available: 1936-1949. Mar. 11, 10.26; July 3, 11.98; Aug. 20, 10.46; Nov. 12, 11.06.

23/31-3D2. Harney County. Water-table well. Records available: 1936, 1938-49. Mar. 11, 6.04; July 3, 5.19; Aug. 20, 6.58; Nov. 12, 7.43.

23/31-14A3. Harney County. Water-table well. Records available: 1936, 1938-49. Mar. 11, 7.77; July 3, 7.32; Aug. 20, 9.14; Nov. 12, 9.85.

23/31-16E1. Harney County. Water-table well. Records available: 1936, 1938-49. Mar. 11, 6.00; July 3, 5.76; Aug. 20, 7.10; Nov. 12, 8.96.

23/31-33E1. Harney County. Water-table well. Records available: 1936, 1938-49.

Jan. 2	6.56	Apr. 11	2.50	July 10	4.02	Oct. 9	7.31
9	6.66	18	2.30	17	4.65	16	7.38
16	6.80	24	2.11	24	5.13	23	7.46
23	6.87	28	2.02	28	5.32	28	7.50
28	6.89	May 1	1.80	Aug. 7	5.83	Nov. 6	7.56
Feb. 2	7.02	8	1.71	14	6.07	12	7.59
13	7.05	15	1.70	20	6.27	13	7.62
20	7.06	22	1.84	21	6.32	20	7.65
27	5.92	28	1.97	28	6.53	27	7.68
Mar. 6	5.13	June 5	1.97	Sept. 4	6.72	28	7.69
11	5.06	12	2.39	11	6.90	Dec. 4	7.72
13	4.95	19	2.56	18	7.04	11	7.74
20	4.30	26	2.92	25	7.15	18	7.76
27	3.36	28	2.95	28	7.18	25	7.78
28	3.28	July 3	3.38	Oct. 2	7.23	28	7.79
Apr. 4	2.82						

23/32-7L1. Harney Branch Experiment Station. Water-table well. Records available: 1933-49. Mar. 11, 7.05; July 3, 1.96; Aug. 20, 4.39; Nov. 12, 7.67.

23/32-7L2. Harney Branch Experiment Station. Artesian water in deep valley fill. Records available: 1933-49. Mar. 11, 5.72; July 3, 19.91; Aug. 20, 13.80; Nov. 12, 6.71.

23/32-30R1. Harney County. Water-table well. Records available: 1936, 1938-49. Mar. 11, 11.43; July 3, 11.37; Aug. 20, 11.38; Nov. 12, 11.46.

24/31-28E1. Harney County. Water-table well. Records available: 1936, 1938-49. Mar. 11, 9.22; July 3, 8.46; Aug. 20, 9.52; Nov. 12, 10.14.

Lake County

Fort Rock Valley

25/14-15E1. Soil Conservation Service. Artesian well. Records available: 1932, 1935-36, 1938-49. Mar. 13, 49.15; July 4, 48.80; Aug. 26, 49.37; Nov. 14, 48.80.

26/15-22E2. Soil Conservation Service. Records available: 1948-49. Mar. 12, 27.99; July 4, 28.00; Aug. 26, 27.97; Nov. 17, 27.99.

27/15-4G1. H. M. Parks. Artesian well. Records available: 1932, 1935-36, 1938-49. Mar. 12, 41.60; July 4, 44.45; Nov. 14, 41.47.

27/15-4G2. H. M. Parks. Artesian well. Records available: 1932, 1935-36, 1938-49. Mar. 12, 43.03; July 4, 43.27; Aug. 26, 43.13; Nov. 14, 42.89.

27/17-22R2. W. D. Collins. Water-table well. Records available: 1938-49. Mar. 12, 28.27; July 4, 28.25; Aug. 26, 28.23; Nov. 14, 28.21.

27/18-6E2. W. D. Collins. Water-table well. Records available: 1940-49. Mar. 11, 24.45; July 4, 24.60; Aug. 26, 24.86; Nov. 14, 24.68.

27/18-7N1. Rolly Hardin. Water-table well. Records available: 1938-49. Mar. 12, 27.08; July 4, 34.96; Aug. 26, 33.23; Nov. 14, 27.30.

36/21-6B1. C. W. E. Jennings. Water-table well. Records available: 1941-49. Mar. 11, 13.44; July 3, 13.28; Aug. 26, 13.53; Nov. 13, 13.39.

Lane County

Willamette Valley

15/4W-32M1. Junction City. Water in gravel. Records available: 1928-30, 1935-36, 1938-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	4.28	Apr. 2	4.96	July 16	8.24	Oct. 15	10.53
8	4.31	5	5.27	23	8.81	22	10.61
15	4.49	May 7	5.51	30	8.99	29	10.72
22	4.78	14	5.57	Aug. 6	9.12	Nov. 5	10.12
29	4.81	21	5.63	13	9.20	12	9.83
Feb. 5	4.76	28	5.72	20	9.27	19	9.78
12	4.72	June 4	6.12	27	9.34	26	9.81
19	4.71	11	6.54	Sept. 3	9.61	Dec. 3	9.20
26	4.52	16	6.89	10	9.82	10	8.94
Mar. 5	4.57	18	6.91	17	10.23	17	8.71
12	4.60	25	7.21	24	10.28	24	8.58
19	4.72	July 1	7.41	Oct. 1	10.31	31	8.31
26	4.82	9	7.92	8	10.42		

16/3W-32G1. Leo Sidwell. Water in young alluvium. Records available: 1928-30, 1935-36, 1938-49. Apr. 5, 9.40; June 16, 11.05, pumping; Nov. 26, 11.36.

Linn County

Willamette Valley

10/4W-12F1. Henry Hoefler. Water in gravel. Records available: 1928-30, 1935-36, 1938-49. Apr. 5, 18.44; June 16, 20.08; Nov. 26, 22.65.

11/5W-36Q1. E. L. Beach. Water in alluvium. Records available: 1929-30, 1935-36, 1938-49. Apr. 5, 17.16.

12/2W-14B1. Sigurd H. Lanstrom. Water in alluvium. Records available: 1941-49. Apr. 5, 6.54; June 16, 8.17, pumping; Nov. 26, 6.08.

12/3W-9R1. J. H. Swatzka. Water in old alluvium. Records available: 1928-30, 1935-36, 1938-49. Apr. 5, 3.43; June 16, 8.61, pumping; Nov. 26, 15.36.

Marion County

Willamette Valley

4/1W-2C1. W. F. Keil. Water in valley fill. Records available: 1938-49. Apr. 4, 3.26; June 15, 15.50; Nov. 25, 14.25.

4/1W-23G1. Ben Burch. Water in old alluvium. Records available: 1947-49. Apr. 4, 52.23; June 15, 51.59; Nov. 25, 51.41.

4/2W-4C1. W. J. Gering. Water in young alluvium. Records available: 1928-30, 1935-36, 1938-49. Apr. 4, 9.21; June 15, 12.33; Nov. 25, 13.44.

4/2W-34R1. Johnson School. Water in valley fill. Records available: 1928-30, 1935-36, 1938-49. Apr. 4, 3.45; June 15, 11.88; Nov. 25, 17.27.

5/2W-25M1. Agricultural Research Corp. Artesian water in sand and gravel. Records available: 1938-49. Apr. 4, 13.88; June 15, 20.76; Nov. 25, 23.64.

6/3W-33R1. Gideon E. Stolz. Water in gravel and cobbles. Records available: 1929-30, 1935-36, 1938-49. Apr. 4, 18.41; June 15, 22.35; Nov. 25, 27.39.

6/1-7M1. Fred Lucht. Water in gravel. Records available: 1928-30, 1935-36, 1938-49. Apr. 4, 1.98; June 15, 6.61; Nov. 25, 6.23.

Multnomah County

Willamette Valley

1N/1-34N1. Weisfield & Goldberg. In Portland. Water in alluvium. Records available: 1941-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	32.83	May 2	27.93	Aug. 2	a34.98	Nov. 1	31.66
31	33.79	31	26.60	31	a35.71	30	a34.41
Feb. 28	29.83	July 1	a28.30	Oct. 1	a35.43	Dec. 30	31.43
Mar. 30	29.82						

a Pumping.

Umatilla County

Walla Walla Basin

5N/35-1C1. John Clark. Water-table well. Records available: 1933-49.

Mar. 3	24.34	May 20	15.92	Sept. 10	27.93	Nov. 28	22.95
Apr. 18	16.90	July 7	24.27	Oct. 15	21.68		

5N/35-2C1. E. J. McSherry. Water-table well. Records available: 1933-49.

Mar. 2	15.23	May 20	13.16	Sept. 10	13.73	Nov. 28	9.91
Apr. 18	16.10	July 7	13.83	Oct. 14	16.53		

5N/35-3H1. J. M. Morse Estate. Water-table well. Records available: 1933-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 2	33.30	May 20	17.73	Sept. 10	16.63	Nov. 28	35.78
Apr. 18	34.76	July 7	16.24	Oct. 14	26.68		

6N/35-13R1. M. O. Beauchamp. Water-table well. Records available: 1933-49. Mar. 3, 6.82; Apr. 18, 8.29; July 7, 5.79; Sept. 10, 8.62; Nov. 28, 7.15.

6N/35-14L1. Conrad Miller. Water-table well. Records available: 1933-49. Mar. 3, 10.06; Apr. 18, 9.92; May 20, 8.34; July 7, 6.09; Sept. 10, 8.43; Nov. 28, 9.72.

6N/35-20G1. McBride. Water-table well. Records available: 1933-49.

Mar. 3	9.53	May 20	7.90	Sept. 10	21.26	Nov. 28	3.82
Apr. 18	7.87	July 7	21.08	Oct. 14	7.95		

a Pumping.

6N/35-20Q1. R. P. Lile. Water-table well. Records available: 1933-49.

Mar. 3	38.83	May 20	30.78	Sept. 10	36.64	Nov. 28	28.37
Apr. 18	(a)	July 7	28.58	Oct. 14	33.68		

a Dry.

6N/35-24Q1. C. B. Miller. Water-table well. Records available: 1933-49.

Mar. 3	9.75	May 20	9.25	Sept. 10	14.40	Nov. 28	11.10
Apr. 18	9.32	July 7	11.76	Oct. 15	11.48		

6N/35-26C2. Earl Ransom. Water-table well. Records available: 1933-49.

Mar. 3	21.61	May 20	12.79	Sept. 10	14.95	Nov. 28	24.72
Apr. 18	22.20	July 7	14.34	Oct. 14	19.07		

6N/35-28H1. W. J. Rand. Water-table well. Records available: 1933-49.

Mar. 3	13.52	May 20	10.20	Sept. 10	10.84	Nov. 28	10.66
Apr. 18	11.62	July 7	9.52	Oct. 10	9.83		

6N35-28N1. Lottie McKnight. Water-table well. Records available: 1933-49.

Mar. 2	29.08	May 20	12.92	Sept. 10	19.50	Nov. 28	12.34
Apr. 18	20.77	July 7	16.81	Oct. 14	11.68		

a Pumping.

6N/35-30M1. Thad Shepherd. Water-table well. Records available: 1933-49.

Mar. 3	27.12	May 20	19.89	Sept. 10	25.78	Nov. 28	16.94
Apr. 18	25.59	July 7	21.99	Oct. 15	25.71		

6N/35-34C1. Alpha Reese. Water-table well. Records available: 1933-49.

Mar. 2	49.03	May 20	24.39	Sept. 9	34.79	Nov. 28	46.65
Apr. 18	47.95	July 7	31.57	Oct. 14	38.36		

a Pumping.

6N/35-36C1. Mr. Redfern. Water-table well. Records available: 1933-49.

Mar. 3	24.89	May 20	11.55	Sept. 10	34.10	Nov. 28	27.40
Apr. 18	15.87	July 7	33.40	Oct. 15	27.16		

6N/35-36H1. Walter Hermann. Water-table well. Records available: 1933-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	22.41	Mar. 26	26.18	June 20	9.65	Sept. 27	23.98
8	23.19	29	23.36	22	11.26	28	24.04
10	23.50	Apr. 1	21.99	26	12.75	Oct. 3	25.19
15	24.50	4	20.24	28	13.60	8	25.87
18	24.97	10	18.51	July 1	14.99	12	24.79
23	24.68	16	16.88	4	16.79	15	23.71
26	24.66	18	16.40	7	18.85	18	22.98
28	24.65	19	16.16	13	20.23	22	23.25
Feb. 1	24.01	24	14.72	16	22.54	25	23.52
4	23.82	27	14.00	19	22.81	28	23.41
7	23.24	29	13.78	22	23.10	Nov. 3	24.05
9	22.40	May 2	12.80	26	23.47	8	25.52
13	23.17	6	12.74	27	23.46	10	26.23
17	25.47	8	12.51	Aug. 2	23.69	15	27.67
20	27.26	12	11.99	10	25.02	24	29.79
21	27.56	14	11.15	15	26.09	27	29.97
24	28.54	17	10.61	17	26.26	28	29.97
26	28.81	20	10.89	22	25.23	29	29.90
Mar. 2	28.36	20	10.89	24	24.76	Dec. 2	29.75
3	28.08	23	11.10	26	24.41	5	29.21
4	27.86	26	10.24	29	24.83	9	28.94
9	27.68	28	9.88	Sept. 10	25.64	11	29.11
11	27.96	June 2	9.00	11	25.70	16	30.15
15	28.45	6	9.67	13	25.50	18	30.44
18	28.86	9	10.06	18	25.62	22	31.38
21	29.02	13	10.31	22	24.60	24	31.91
25	28.76	17	9.86	25	24.54	28	32.18

Union County

1/39-17L1. A. F. Furman. Water-table well. Records available: 1940-49. Mar. 8, 9.67; July 1, 14.33; Aug. 17, 15.78; Nov. 10, 15.43.

3/38-10B1. Union County. Water-table well. Records available: 1936, 1938-49. Mar. 8, 5.19; July 1, 6.73; Aug. 17, 7.05; Nov. 10, 6.56.

3/38-25B1. Union County. Water-table well. Records available: 1936, 1938-49. Mar. 8, 5.14; July 1, 7.52; Aug. 17, 8.47; Nov. 10, 9.29.

Wasco County

1N/13-23D1. Cherry Hill District Improvement Co. Water in Yakima basalt. Records available: 1947-49. Mar. 15, 232.0.

1N/13-32G1. Milton Martin. Flowing artesian well in basalt. Records available: 1946-49. Mar. 15, 133.98.

1N/13-32H1. Earl Lash. Flowing artesian well in basalt. Records available: 1947-49. Mar. 15, 47.0.

2N/12-25R1. Ward Weber. Water in sandstone in The Dalles formation. Records available: 1947-49. Mar. 15, 106.22.

Washington County

Willamette Valley

1/1W-21R1. Elinore Shively. Water in basalt. Records available: 1948-49. Apr. 15, 108.94; July 19, 109.17; Dec. 21, 106.03.

1/1W-21Q2. Guy Woodworth. Water in basalt. Records available: 1948-49. Apr. 15, dry; July 19, 163.16; Dec. 21, 162.71.

UTAH

By Philip F. Fix, W. B. Nelson, and R. G. Butler

PROGRAM OF WORK

The observation-well program in Utah, begun in 1935, was continued in 1949 in cooperation with the State Engineer. The State-wide inventory now includes records of measurements in 42 ground-water areas. 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 gage. In many of the areas one or more wells are equipped with recording gages. During 1949 a total of 2,201 measurements was made in 657 wells, and 31 recording gages were maintained. Measurements of water levels were made cooperatively by the Salt Lake City Corporation in observation wells in Salt Lake County and by the Bureau of Reclamation in Wasatch County.

During the year detailed investigations were carried on in Escalante, Ashley, Sanpete, Juab, and Utah Lake Valleys, and the Weber Delta of the East Shore area.

FLUCTUATIONS OF WATER LEVELS

The net rise or decline in the water levels of a given area is the mathematical average of the changes observed in water levels of the observation wells selected to represent that particular area. This may differ considerably from changes in the water levels of individual wells in that area. Ground-water levels in Utah at the end of 1949 were generally above the average for the period of record and higher than at the end of 1948.

Ground-water levels rose in most of the basins of the Southwestern Bolson province but declined in some basins, and showed virtually no change in the Milford pumping district of Beaver County. The greatest rise was 5.1 feet in the Coal Creek district of Cedar City Valley, in Iron County, and the greatest decline was 3.1 feet in the Flowell district of Millard County. Water levels in the central part of the Beryl pumping district, in Iron County, continued to decline, but rose in the outer part of the district.

Ground-water levels in the basins of the Montana-Arizona plateau and the Northern Rocky Mountains province generally were higher than at the end of 1948, although the levels declined in a few places. The water levels rose more than 12 feet in two observation wells on the high land at the head of the East Fork of the Sevier River. The changes in other areas ranged from a rise of 0.7 foot in the Uinta Basin, to a decline of 0.3 foot in the Bear Lake Valley, in Rich County.

Demand for underground water increased throughout the State in 1949, particularly in the Milford, Beryl, Parowan, Cedar City, and Grouse Creek areas. The Beryl area remained closed by the State Engineer to new applications for drilling of wells for irrigation.

WELL-NUMBERING SYSTEM

The well number indicates the location of the well with reference to land subdivision, according to a system adopted by the State Engineer, and described in his 20th Biennial Report (1936), page 87. The State is divided into four quadrants by the Salt Lake base and meridian, and, according to the well-numbering system, these quadrants are designated by capital letters, thus: A for the northeast quadrant, representing townships north, ranges east; B for the northwest quadrant; C, southwest; and D, southeast. In the well number, the designation of the township is enclosed in parentheses, and includes one of these letters, a figure showing township, and a figure showing range. Thus, in the number of the first well of the tabulation, (C-26-10) 32cad1, the portion within parentheses indicates that the well is in T. 26 S., R. 10 W. The number following the parentheses designates the section, and the lower-case letters following the section numbers give the location of the well within the section, the first letter indicating the quarter section (the letters a,b,c,d, representing respectively the northeast, northwest, southwest, and southeast quarters, as before), and succeeding letters showing location within the quarter-section down to a 10-acre tract. Thus, number (C-26-10)32cad1 represents well number 1 in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 26 S., R. 10 W. In the area surveyed from the Uinta special base and meridian (in Duchesne and Uintah Counties) the well numbers are derived in the same fashion, and are preceded by the letter "U."

The State claim or application number given is that used in the State Engineer's records; claim numbers refer to wells that were in existence when the State ground-water law went into effect in March 1935, and the application numbers refer to wells of subsequent origin.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Beaver County

Beaver Valley

(C-28-7)16aaa 1. Owner unknown. Records available: 1941-49. Mar. 30, 58.10; Sept. 7, 59.70; Dec. 6, dry.

(C-28-7)21daa 1. E. F. Baldwin. Records available: 1935-49. Mar. 30, 23.48; July 21, 17.90; Sept. 7, 19.30; Dec. 6, 18.47.

(C-29-7)3cbb 1. Harry Hodges. Records available: 1938-49. Mar. 31, 20.67; Dec. 6, 19.75.

(C-29-7)17cdd 1. State claim 6919. Drought Relief Administration. Records available: 1935-49. Feb. 25, 23.88; Mar. 31, 21.85; Apr. 18, 20.80; July 21, 3.75; Sept. 7, 5.30; Dec. 6, 20.29.

(C-29-7)28dbd 1. James Nowers. Records available: 1935-49. Feb. 25, 19.82; Mar. 31, 15.86; Apr. 18, 15.92; June 17, 12.88; July 21, 14.73; Sept. 7, 15.32; Dec. 6, 17.45.

(C-29-8)25cac 1. State claim 13115. Beaver school district. Records available: 1936-49. Flowing prior to measurements. Mar. 31, +12.4; Dec. 6, +12.0.

Beaver County

Escalante Valley

(For other wells in Escalante Valley, see Iron, Millard, and Washington Counties.)

(C-26-10)32cad 1. State claim 10257. Burton Smithson. Records available: 1936-49. Mar. 31, 12.47; Dec. 6, 13.70.

(C-27-10)18da. Hazel Cannon. Records available: 1941-49. Mar. 31, 13.86; Apr. 23, 12.95; Aug. 15, 13.81; Dec. 6, 14.05.

(C-28-10)8cdd 1. J. R. Murdock. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 27	1.58	June 26	3.55	Sept. 25	4.57	Nov. 26	3.47
31	1.24	July 24	4.09	Oct. 25	4.03	Dec. 7	3.40
May 15	2.70	Aug. 30	4.85				

(C-28-10)19add 1. State claim 6564. J. A. Kirk and Sam Cline. Records available: 1936-49.

Mar. 27	2.51	June 26	a15.10	Sept. 25	6.59	Nov. 26	5.09
31	2.38	July 24	6.16	Oct. 25	5.80	Dec. 7	4.96
May 15	a13.88	Aug. 30	7.03				

a Pumping.

(C-28-10)29cdc 1. State application 11742. J. H. Hanlon. Records available: 1938-45, 1948-49.

Mar. 25	8.60	May 15	a24.60	July 24	a26.65	Sept. 25	14.97
31	8.55	June 26	a24.76	Aug. 30	14.11	Nov. 26	10.48

a Pumping.

(C-28-11)22dab 1. Houston & Goff. Records available: 1941-49. Apr. 23, 31.80; Dec. 7, 32.72.

(C-28-11)36add 1. State of Utah. Records available: 1932-34, 1938-49.

Jan. 25	10.29	Apr. 23	8.50	July 19	13.39	Oct. 25	13.89
Feb. 28	9.58	May 15	9.97	Aug. 30	15.77	Nov. 26	12.53
Mar. 25	8.99	June 26	11.97	Sept. 25	15.48	Dec. 7	12.13
31	8.78						

(C-29-10)6dcd 1. State claim 13116. Duluth Land Co. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	30.38	June 26	30.92	Sept. 25	29.66	Nov. 26	30.18
Mar. 25	30.24	July 19	30.54	Oct. 25	29.97	Dec. 7	30.39
May 15	31.09	Aug. 30	30.03				

(C-29-10)16ccc 1. G. S. Barclay. Records available: 1937-49.

Mar. 25	47.21	July 19	46.92	Sept. 25	47.58	Nov. 26	46.36
May 15	47.73	Aug. 30	46.50	Oct. 25	46.27	Dec. 7	46.74
June 26	47.20						

(C-29-11)1add 1. State claim 10290. Duluth Land Co. Records available: 1935-49. Mar. 31, 17.74; Dec. 7, 21.22.

(C-29-11)4baa 1. W. H. Child. Records available: 1941-46, 1948-49. Apr. 23, 34.45; Dec. 7, 35.07.

(C-29-11)11cdd 1. State claim 7540. Preston Davis. Records available: 1937-49.

Mar. 25	17.79	July 19	b36.25	Sept. 25	20.37	Nov. 26	18.38
May 15	a19.84	Aug. 30	b36.01	Oct. 25	18.78	Dec. 7	18.60
June 26	b35.66						

a Pumping recently.

b Pumping.

(C-29-11)20dcd 1. Owner unknown. Records available: 1939-47. Destroyed, measurements discontinued.

(C-29-11)22ddd 1. State claim 10667. P. V. Haworth. Records available: 1935-49.

Mar. 25	25.19	June 26	25.89	Aug. 30	27.26	Nov. 26	25.51
31	25.15	28	26.80	Sept. 25	26.30	Dec. 7	25.57
May 15	25.70	July 19	26.80	Oct. 25	25.78		

(C-29-11)29ada 1. Owner unknown. Records available: 1936-49. Mar. 31, 13.77; Dec. 7, 14.64.

(C-29-11)35bcd 1. Owner unknown. Records available: 1940-49. Mar. 31, 41.11; Dec. 7, 41.62.

(C-30-11)4cdd 1. Owner unknown. Records available: 1935-49. Mar. 31, 25.66; Dec. 7, 25.65.

(C-30-12)4add 1. T. J. Norris. Records available: 1940-49. Apr. 23, 109.09; Dec. 7, 109.07.

(C-30-12)11bbb 1. D. L. Barnes. Records available: 1936-47. No measurement made in 1949.

(C-30-12)31cab 2. State claim 13455. Corine Dibkey. Records available: 1938-49. Apr. 23, 15.53.

(C-30-13)29dcc 1. C. D. Vaughn. Records available: 1938, 1940-49. Apr. 23, 55.90; Dec. 7, 55.92.

(C-30-13)34bbb 1. J. F. Dinwiddie. Records available: 1940-49. Apr. 23, 45.64; Dec. 7, 45.76.

Box Elder County

East Shore area

(For other wells in this area, see Davis and Weber Counties.)

(B-7-2)2aba 1. State claim 11922. Earl Lemon. Records available: 1917-24, 1931-32, 1935-49.

Jan. 28	41.93	June 1	34.82	Aug. 29	36.73	Nov. 30	38.10
Feb. 28	42.78	24	35.28	Sept. 30	36.83	Dec. 12	37.87
Mar. 28	42.36	July 29	36.78	Oct. 31	37.08	29	38.29
Apr. 28	38.77						

(B-7-2)11baa. Bonneville Orchard Co. Records available: 1947-49. Jan. 28, 36.20; Feb. 28, 37.02; Mar. 29, 37.74; Apr. 28, 38.20. Destroyed, measurement discontinued.

(B-7-2)11baa-3. State claim 6409. Bonneville Orchard Co. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 28	34.59	June 1	36.72	Aug. 29	25.50	Nov. 30	28.08
Feb. 28	35.91	June 24	34.73	Sept. 30	25.95	Dec. 12	28.52
Mar. 29	36.55	July 29	29.75	Oct. 31	25.92	Dec. 29	29.41
Apr. 28	36.57						

(B-7-2)11cda 1. State claim 1489. First Savings Bank of Ogden. Records available: 1936-49.

Mar. 29	20.37	July 29	18.78	Oct. 31	17.79	Dec. 12	18.36
June 1	20.12	Sept. 30	16.90	Nov. 30	18.47	29	18.52
24	19.65						

(B-8-2)11cad 1. State claim 973. Clark. Records available: 1946-49. Mar. 28, 31.08; Dec. 12, 28.74.

(B-8-2)23cdb 1. State claims 1284 and 8126. Willard Water Co. Records available: 1935-49.

Jan. 28	41.40	June 1	31.45	Aug. 28	36.25	Nov. 30	38.79
Feb. 28	42.03	24	29.10	Sept. 30	37.42	Dec. 12	39.98
Mar. 29	41.85	July 29	33.71	Oct. 31	38.09	29	39.15
Apr. 28	38.65						

(B-8-2)26cdd 1. State claim 917. A. P. Ward. Records available: 1946-49. Mar. 29, +22.6; Dec. 12, +26.2.

(B-9-2)12ccc 1. State claim 499. G. D. Reeder. Records available: 1938-49. Mar. 29, 8.76; Dec. 12, 7.29.

(B-9-2)14dac 1. State claim 549. W. W. and J. F. Knudsen. Records available: 1935-49. Mar. 29, 22.17; Dec. 12, 20.57.

(B-9-2)25bda 1. State claim 268. First National Bank of Brigham. Records available: 1937-49. Mar. 29, 21.64; Dec. 12, 21.07.

(B-9-2)35dcd 1. State claim 477. F. H. Hansen. Records available: 1935-49. Mar. 29, 41.74; Dec. 12, 39.00.

Box Elder County

Lower Bear River Valley

(B-9-3)1bbb 1. State claim 8477. Federal Land Bank. Records available: 1936-49. Mar. 28, 1.31; Dec. 12, 4.14.

(B-10-3)8dc 1. State application 16985. G. A. Gardner. Records available: 1936-49. Mar. 29, 4.90; Dec. 8, 6.66.

(B-10-3)32aaa 1. B. E. Stallings. Records available: 1938-49. Mar. 28, 2.55.

(B-11-3)21bbb 3. J. A. House. Records available: 1936-49. Mar. 29, 3.77; Dec. 8, 3.91.

(B-11-4)1laaa 1. State claim 3337. Fred Deininger. Records available: 1936-49. Mar. 29, 6.28; Dec. 8, 5.11.

(B-12-4)11cb. State claim 14152. Adolph Harris. Records available: 1936-49. Oct. 18, 113.42.

Box Elder County

Mantua Valley

(B-9-1)22ccc 1. Raymond Jeppesen. Records available: 1937-49. Mar. 28, 24.21. Measurements discontinued.

Box Elder County

Blue Spring Valley

(B-13-5)17bca 1. State claim 3776. Records available: 1935-49. Nov. 1, 61.02.

(B-13-5)28cba. Joseph Aebischur. Records available: 1936-49. Oct. 18, 57.67.

(B-13-6)1cac 1. Deacon Bros. Records available: 1940-49. Oct. 18, 149.58.

Box Elder County

Curlew Valley

(B-12-11)16cdc 1. U. S. Bureau of Land Management. Records available: 1935-36, 1938-49. Nov. 2, 8.60.

(B-14-8)1lab. B. S. Cutler. Records available: 1936-41, 1943-49. Oct. 18, 41.47.

(B-14-8)2aba 1. Joseph Larkin. Diameter 4 inches, depth 48 feet. Records available: 1948-49. Oct. 22, 1948, 30.96; Oct. 18, 1949, 30.42.

(B-14-9)10ada 1. Abe Rose. Records available: 1936-42, 1944-49. Oct. 18, 96.50.

Box Elder County

Grouse Creek Valley

(B-10-18)28dcd 1. State application 13796. U. S. Bureau of Land Management. Records available: 1939-49. Oct. 19, 118.83.

(B-11-18)22aa. A. L. Paskett. Records available: 1936, 1938-47. Measurement discontinued.

(B-11-18)23bb. Owner unknown. Records available: 1936, 1939-49. Nov. 2, 18.58.

(B-11-18)29abd 1. State application 18088. Ross Warburton. Diameter 16 inches, depth 60 feet. Records available: 1948. Oct. 23, 1948, 1.79. No measurement made in 1949.

(B-11-18)33ada 1. State application 18061. Ross Warburton. Diameter 16 inches, depth 59 feet. Records available: 1948-49. Oct. 23, 1948, 30.42; Nov. 2, 1949, 23.96.

(B-11-18)33ada 2. State application 18061. Ross Warburton. Diameter 16 inches, depth 60 feet. Records available: 1948-49. Oct. 23, 1948, 30.70; Nov. 2, 1949, 24.30.

(B-11-18)33ada 3. State application 18061. Ross Warburton. Diameter 16 inches, depth 90 feet. Records available: 1948-49. Oct. 23, 1948, 32.39; Nov. 2, 1949, 26.01.

(B-12-18)25bab. Elmer Kimber. Records available: 1948-49. Oct. 22, 1948, 18.95; Oct. 18, 1949, 18.54.

(B-12-18)36bbb 1. George Blanthorn. Diameter 2 feet, depth 18 feet. Records available: 1948-49. Oct. 23, 1948, 11.94; Oct. 19, 1949, 8.41.

Box Elder County

Park Valley

(B-10-15)26bad 1. State application 13796. U. S. Bureau of Land Management. Records available: 1939-48. No measurement made in 1949.

(B-12-14)2aa. Albert Hirschle. Records available: 1936, 1938-49.
Nov. 1, 10.39.

(B-13-13)28dd. L. G. Carter. Records available: 1936, 1938-49.
Oct. 19, 13.25.

(B-13-13)32aa. John Vance. Records available: 1936, 1938-49.
Oct. 19, 31.71.

(B-13-14)25ab. J. H. Kunzler. Records available: 1936, 1938-49.
Oct. 19, 13.75.

(B-13-14)26bd. W. A. Newman. Records available: 1936, 1938-49.
Oct. 19, 18.60.

Box Elder County

Raft River Valley

(B-13-17)1dab 1. State claim 18695. Lynn school district. Diameter 4 inches, depth 180 feet. Records available: 1948-49. Oct. 22, 1948, 24.15; Oct. 18, 1949, 21.43.

(B-14-15)3ddd 1. State claim 19482. M. A. Smith. Records available: 1936, 1938-49. Oct. 18, 49.92.

(B-14-15)1lcc. M. A. Smith. Records available: 1936, 1938-49. Oct. 18, 22.39.

(B-15-14)36. H. Alberts. Records available: 1936, 1938-49. Oct. 18, 4.18.

Cache County

Cache Valley

(A-9-1)10add 1. State claim 8135. Drought Relief Administration. Records available: 1936-49. Mar. 28, 26.91; Dec. 8, 27.53.

(A-10-1)4ab. O. H. Anderson. Records available: 1936-49. Mar. 8, 10.44; Mar. 28, 10.22; Apr. 19, 10.69; Dec. 8, 9.69.

(A-11-1)3bda 1. State claims 23 and 8136. Drought Relief Administration. Records available: 1936-47, 1949. Mar. 28, 33.03; Aug. 10, 29.32; Dec. 7, 30.02.

(A-11-1)8dda 3. State claim 1199. Amalgamated Sugar Co. Records available: 1935-49. Mar. 28, +13.9; Aug. 8, +15.7; Dec. 7, +14.6.

(A-11-1)18ddd 1. State claim 5950. Lovenus Olsen. Records available: 1936-49. Mar. 28, +7.8; Dec. 7, +8.5.

(A-11-1)30bhd 2. State claim 18191. Wilford Ward. Records available: 1936-49. Mar. 28, 1.16; Aug. 8, 0.18; Dec. 7, 0.43.

(A-12-1)3bbb 1. State claims 19 and 8129. Smithfield Irrigation Co. Records available: 1936-49. Mar. 28, 12.94; Aug. 10, 49.80, pumping; Dec. 8, 7.14.

(A-12-1)3bbb 2. Nora Johnson. Records available: 1936-40, 1942-49. Mar. 8, 12.27; Mar. 28, 13.53; Aug. 10, 2.02; Oct. 27, 4.83; Dec. 8, 7.81.

(A-12-1)29bdd. Arnold Nielson. Records available: 1940-49.

Water level, at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+19.1	+18.6	....	+18.4	+17.6	+18.5	+18.8	+20.3	+20.0	+20.3	+20.8	+20.1
2	19.2	18.5	....	18.4	17.7	18.6	18.8	20.5	20.3	20.2	20.7	20.1
3	19.1	18.6	....	18.5	17.7	18.6	18.9	20.3	....	20.5	20.4	19.9
4	19.1	18.6	....	18.7	17.7	18.6	19.0	20.2	....	20.5	20.4	20.1
5	18.8	18.6	....	18.5	18.0	18.6	19.2	20.3	20.8	20.5	....	20.2
6	18.9	18.8	....	18.4	17.9	18.7	19.0	20.4	20.7	20.5	20.3	20.2
7	18.9	18.8	....	18.4	17.8	18.6	19.1	20.5	20.6	20.4	....	19.7
8	18.8	18.8	+18.3	18.4	17.7	18.6	....	20.4	20.5	20.3	20.8	20.1
9	19.0	18.6	18.2	18.3	17.6	18.7	20.0	20.5	20.5	20.4	20.6	20.2
10	19.0	18.7	18.3	18.4	17.6	18.8	20.1	20.5	20.5	20.5	20.2	20.0
11	19.0	18.7	18.3	18.4	18.0	19.1	19.8	20.5	20.6	20.4	20.2	20.0
12	18.9	18.6	18.2	18.4	17.7	19.0	19.3	20.8	20.6	20.2	19.9	....
13	18.9	18.4	18.3	18.2	17.6	18.9	17.6	....	20.0	20.2	....	....
14	18.8	18.5	18.4	18.1	17.8	18.8	18.8	20.1	20.3	20.3	20.4	....
15	19.0	18.5	18.3	18.0	17.7	18.5	19.6	20.5	20.6	20.2	19.8	....
16	18.8	18.3	18.2	18.0	17.9	18.6	....	20.1	20.6	20.2	19.9	20.2
17	18.8	18.4	18.2	18.1	17.9	18.8	19.9	20.1	20.7	20.1	19.8	20.0
18	18.7	18.4	18.2	18.2	18.0	18.7	19.8	20.2	20.5	20.1	20.2	20.0
19	18.7	18.3	18.2	18.3	18.3	18.7	19.7	20.2	20.1	19.9	20.3	20.1
20	18.8	18.3	18.2	17.9	18.3	18.8	19.8	20.4	....	19.8	20.3	19.9
21	18.6	18.2	18.3	17.8	18.3	18.7	19.8	20.5	....	19.7	19.8	19.7
22	18.6	18.3	18.4	17.9	18.3	18.6	19.9	20.4	....	19.6	20.2	19.8
23	19.0	18.2	18.1	17.8	18.3	18.9	19.9	20.4	20.5	19.7	20.1	19.8
24	18.9	18.3	18.3	17.8	18.2	18.9	19.9	20.3	20.5	19.9	20.0	20.0
25	18.6	....	18.4	17.8	18.3	18.7	20.2	20.2	20.5	19.8	19.9	20.0
26	18.5	....	18.4	17.8	18.7	18.7	20.1	20.3	20.5	19.8	19.8	20.1
27	18.6	....	18.3	17.7	18.6	18.8	20.3	20.5	20.4	19.9	20.0	20.0
28	18.7	....	18.5	17.6	18.6	19.1	20.2	20.2	20.4	19.8	20.0	19.9
29	18.7	....	18.7	17.6	18.7	18.9	20.0	20.2	20.4	19.9	19.8	20.0
30	18.6	....	18.6	17.4	18.7	18.9	20.0	20.5	20.4	20.0	20.2	....
31	18.7	....	18.5	....	18.6	....	20.3	20.1	....	....	....	....

(A-12-1)31dab 1. State claim 2537. R. S. Painter. Records available: 1936-49. Mar. 8, +34.4; Aug. 8, +36.7; Dec. 8, +38.2.

(A-13-1)29bd 1. State claim 1682. J. C. Cannell. Records available: 1936-49. Mar. 8, 1.42; Aug. 10, +8.1; Dec. 8, +2.58.

(A-14-1)22bad 1. State claim 17652. C. B. Stoddard. Records available: 1938-49. Mar. 28, +7.0; Dec. 8, +6.5.

(A-14-1)34adb 1. State claim 1373. Crockett Well Co. Records available: 1935-49. Mar. 8, 14.60; Mar. 28, 9.15; Dec. 8, 13.43.

(A-14-1)34dca 1. State application 12652. Richmond Irrigation Co. Records available: 1937-49. Mar. 28, 0.66; Dec. 8, 5.11.

(B-11-1)13bbc 1. State claim 19315. Alma Olsen. Records available: 1936-49. Mar. 28, +40.1; Aug. 10, +39.2.

(B-11-1)35caa 1. State claim 1475. J. A. Lieshman. Records available: 1936-49. Mar. 28, +18.3; Aug. 9, +18.1; Dec. 7, +17.8.

(B-12-1)8cdeb 2. State claim 16851. Edward Edwards. Records available: 1936-49. Flowing prior to measurements. Aug. 9, +10.1; Dec. 8, +9.4.

(B-13-1)30acc 1. State claim 2757. E. R. Ballard. Records available: 1936-49. Flowing prior to measurements. Mar. 28, +20.4; Aug. 9, +23.4; Dec. 8, +22.5.

Carbon County

(D-13-9)24aa 1. State claim 11742. Helper City. Records available: 1946-47. No measurement made in 1949.

Davis County - East Shore AreaLayton District

(For other wells in this area, see Box Elder and Weber Counties)

(B-3-1)15aab 1. State claim 8156. Drought Relief Administration. Records available: 1935-49. Feb. 28, 13.75; May 6, 13.88; Sept. 30, 13.88; Dec. 19, 13.70.

(B-3-1)24aaa 4. State claim 10019. Lagoon Resort. Records available: 1935-49. Mar. 15, +11.3.

(B-3-1)24aad 1. State claim 10012. Lagoon Resort. Records available: 1935-48. No measurement made in 1949.

(B-4-1)19cd. Charles Layton. Records available: 1935-49. May 12, +3.05; Sept. 30, +1.80; Dec. 19, +2.70.

(B-4-1)30ba. W. W. Evans. Records available: 1935-49. Feb. 28, 1.17; May 6, 0.53; Sept. 30, +4.97; Dec. 19, +5.15.

(B-4-1)34cbc 3. State claim 14733. Kaysville Canning Corp. Records available: 1937-49. Feb. 28, 3.09; May 6, 2.23; Sept. 30, 2.60; Dec. 9, 1.52.

(B-4-2)9caa 1. State claim 11285. A. D. Miller. Records available: 1937-49. Flowing prior to measurements. Mar. 16, +22.5; May 6, +22.3; Sept. 30, +21.1; Dec. 19, +22.8.

(B-4-2)10daa 1. State claim 8143. Drought Relief Administration. Records available: 1936-43, 1947. No measurement made in 1949.

(B-5-3)36ada 1. State claim 3074. Mary Stoddard. Records available: 1935-49. Flowing prior to measurements. Mar. 16, +30.0; May 6, +30.1; Dec. 19, +30.4.

Davis CountyBountiful District

(A-2-1)6dcd 2. State claim 188. Zion's Aid Society. Records available: 1946-49. Apr. 8, +19.9; Dec. 16, +11.3.

(A-2-1)7aba 4. State claim 14688. Kate M. Chase. Records available: 1946-49. Apr. 8, +22.5; Dec. 16, +27.4.

(A-2-1)7ddc 1. State claims 4989 and 8155. Centerville City Corporation. Records available: 1939, 1945-49. Feb. 28, 12.32; May 12, 9.77; June 24, 4.82; Sept. 30, 10.04; Dec. 16, 9.62.

(A-2-1)17ccb 1. State claim 11318. Will Holbrook. Records available: 1937-49. Dec. 16, 26.07.

(A-2-1)18abd 12. T. Q. Williams. Records available: 1938-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	+21.0	+21.3	....	....	+20.3	....	+20.5	+23.0	....	+23.7
2	....	21.0	21.4	....	....	24.5	....	20.4	23.3	....	23.6
3	....	21.2	21.5	....	....	25.1	....	20.6	23.4	....	23.6
4	....	21.1	21.4	+21.8	....	25.7	....	20.4	23.3	+24.0	23.5
5	....	21.1	21.5	21.9	....	25.8	....	20.7	23.0	24.0	23.7
6	....	20.9	21.4	21.9	....	....	....	....	22.1	24.0	23.6
7	+21.6	20.9	21.4	22.0	....	....	....	....	22.0	24.0	23.5
8	21.6	21.0	21.4	21.8	....	....	....	....	21.8	24.1	23.5
9	21.6	21.0	21.5	21.7	....	....	....	....	22.2	24.1	23.4
10	21.4	21.0	21.5	21.8	....	....	....	....	23.0	24.0	23.5
11	21.1	21.0	21.5	22.0	....	....	....	....	23.4	23.8	....

(A-2-1)18abd 12-- Continued.

Water level at noon, from recorder charts											
Day	Jan.	Feb.	Mar.	Apr.	May	June	Aug.	Sept.	Oct.	Nov.	Dec.
12	21.2	21.0	21.4	22.1	+22.5	...	...	...	23.3	23.7	...
13	21.2	21.1	21.4	22.0	23.1	...	...	...	23.4	23.8	...
14	21.3	21.1	21.4	22.0	23.1	...	...	...	23.5	...	...
15	21.4	21.1	21.5	...	21.7	...	...	...	23.5	...	...
16	...	21.0	21.6	...	23.4	...	...	...	23.6	...	...
17	...	21.0	21.6	...	23.7	...	...	...	23.9	...	...
18	...	21.0	21.6	...	23.9	...	...	...	23.9	23.8	...
19	...	21.0	21.6	...	24.0	...	...	...	23.8	23.9	...
20	...	21.0	21.5	...	24.0	20.9	...	...	23.8	23.8	...
21	...	21.0	21.4	...	24.5	21.8	...	...	23.8	23.8	...
22	...	21.0	21.5	...	24.7	21.9	...	...	23.7	23.8	...
23	...	21.2	...	...	...	24.7	...	...	...	23.8	...
24	...	21.4	...	...	...	24.9	...	...	...	23.8	...
25	...	21.3	...	...	...	24.9	+20.8	...	24.0	23.7	...
26	...	21.3	...	...	...	24.1	20.9	...	24.0	23.8	...
27	...	21.3	...	...	25.3	24.8	21.2	...	24.0	23.7	...
28	...	21.3	...	...	25.1	23.3	21.6	...	24.0	...	...
29	21.1	...	...	...	24.8	22.1	20.5	...	24.1	23.8	...
30	21.1	...	...	...	22.8	21.7	21.3	...	24.0	23.8	23.0
31	21.0	...	...	...	20.6	...	21.3	...	23.9	...	22.9

(A-2-1)18dca 2. State claim 18335. Earl L. Burnham. Records available: 1945-49. Feb. 28, 8.95; Dec. 16, 6.90.

(A-2-1)19ccb 1. State claim 16478. Kirkland Nursery. Records available: 1945-49. Dec. 16, 40.15.

(A-2-1)19dbc 1. State claim 1447. Bountiful City Corporation. Records available: 1937-49. Feb. 28, 68.20; May 12, 63.20; June 24, 58.62; Oct. 31, 64.09; Dec. 16, 65.56.

(A-2-1)31ada 1. State application 17511. R. N. Schluter. Records available: 1946-49. Mar. 14, 133.41; May 12, 133.12; Oct. 31, 135.35; Dec. 16, 134.28.

(A-2-1)31caa 1. State application 17634. H. E. Calder. Records available: 1946-49. Dec. 16, 154.80.

(A-2-1)31cca. State claim 8147. South Bountiful Junction Water Co. Records available: 1946-49. Mar. 14, 129.30; Dec. 16, 130.00.

(B-2-1)24bad 3. State claim 2677. C. R. Gull. Records available: 1946-49.

Water level at noon, from recorder charts										
Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1	+48.9	+50.4	(a)	(a)	(a)	+48.3	+49.2	+49.0	
2	49.3	50.4	(a)	(a)	(a)	48.1	....	49.1	
3	49.4	50.8	+47.6	(a)	+46.9	48.4	....	49.0	
4	49.2	50.6	48.5	(a)	(a)	48.5	....	48.9	
5	49.2	51.1	48.9	(a)	(a)	48.5	....	49.2	
6	49.1	51.5	49.0	(a)	(a)	48.4	....	49.0	
7	48.9	51.4	48.9	(a)	(a)	48.5	....	48.8	
8	(a)	51.3	(a)	(a)	(a)	48.5	....	48.8	
9	47.5	51.0	(a)	(s)	(a)	48.5	....	49.1	
10	(a)	51.0	48.6	(a)	(a)	48.5	....	49.1	
11	46.6	50.0	(a)	(a)	(a)	48.6	....	....
12	47.1	(a)	(a)	(a)	47.6	48.6	....	....
13	46.9	(a)	(a)	(a)	48.1	48.7	49.2	....
14	46.5	(a)	(a)	(a)	(a)	48.8	49.3	....
15	47.0	50.0	(a)	(a)	(a)	48.9	49.3	....
16	47.8	50.0	(a)	(a)	(a)	49.1	49.1	....
17	48.4	49.6	(a)	(a)	(a)	49.1	49.2	....
18	48.5	49.6	(a)	(a)	(a)	48.9	49.4	....
19	48.5	49.5	(a)	(a)	(a)	48.7	49.3	....

(B-2-1)24bad 3- - Continued.

Water level at noon, from recorder charts

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
20	....	48.8	(a)	(a)	(a)	47.5	48.9	49.2	....
21	....	49.1	(a)	(a)	(a)	47.2	49.3	49.1	....
22	....	48.9	(a)	(a)	(a)	47.0	49.3	49.0	....
23	....	49.4	(a)	(a)	(a)	46.9	49.1	49.0	....
24	....	49.7	(a)	48.6	(a)	47.1	49.0	49.0	....
25	+48.2	49.6	(a)	48.6	(a)	47.6	49.2	49.2	....
26	48.1	49.5	47.3	(a)	(a)	47.9	49.0	49.4	....
27	48.1	49.5	47.5	(a)	(a)	48.3	49.1	49.4	48.7
28	48.2	49.5	(a)	47.4	(a)	48.1	49.2	49.2	48.6
29	48.1	49.5	(a)	(a)	+48.3	48.1	49.2	49.2	48.7
30	48.1	49.7	(a)	(a)	(a)	48.4	49.0	49.0	48.8
31		49.8		47.2	(a)		49.0		48.6

a Flowing.

(B-2-1)24bad 5. State claim 11382. George Mann. Records available: 1946-49.

Water level at noon, from recorder charts

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	+30.9	+30.7	+24.4	+23.2	+26.0	+28.1	+31.2	+31.4
2	....	30.8	31.0	24.1	23.1	25.7	28.4	31.3	31.4
3	....	30.6	....	26.2	22.9	26.1	28.9	31.3	31.3
4	....	30.6	31.3	26.9	23.0	26.4	29.0	31.3	31.3
5	....	30.8	31.3	27.4	22.8	26.1	29.4	31.2	31.5
6	....	31.2	31.3	26.9	22.4	26.2	29.3	31.3	31.4
7	....	30.0	31.3	25.3	23.1	26.0	29.2	31.4	31.3
8	....	28.8	31.3	24.0	23.1	26.2	29.7	31.3	31.4
9	....	29.1	31.2	22.7	23.1	26.5	30.1	31.3	31.3
10	....	28.7	30.3	24.1	23.4	27.0	30.5	31.4	31.3
11	....	28.7	29.3	23.3	22.5	27.2	30.1	31.3	31.3
12	....	29.2	28.9	22.7	22.6	27.5	30.1	31.2	....
13	....	28.7	29.8	22.6	23.0	27.4	30.5	31.3	....
14	....	28.8	29.5	22.3	23.6	27.2	30.5	31.4	....
15	....	29.1	28.5	22.7	23.4	27.0	30.6	31.3	....
16	....	30.0	27.2	22.7	22.6	27.0	31.3	31.1	....
17	....	30.3	26.8	22.9	22.7	25.9	31.4	31.4	....
18	....	30.6	25.6	22.9	23.2	26.6	31.3	31.4	....
19	....	31.1	26.9	23.3	23.0	27.0	31.2	31.2	31.4
20	....	31.3	27.5	23.8	23.1	27.3	31.3	31.3	31.3
21	....	31.1	25.9	23.2	24.1	27.2	31.3	31.4	31.2
22	....	....	25.5	23.3	24.4	27.3	31.1	31.3	31.4
23	....	....	25.2	23.6	24.6	26.9	31.2	31.2	31.3
24	....	....	24.1	23.6	26.2	27.2	31.4	31.3	31.2
25	+31.3	....	23.9	23.8	27.1	27.5	31.3	31.4	31.3
26	30.5	....	24.5	23.8	27.2	27.8	31.3	31.2	31.4
27	29.4	30.5	24.2	22.5	26.6	27.1	31.4	31.3	31.3
28	28.9	30.2	24.3	22.7	27.5	27.0	31.3	31.5	31.2
29	28.8	29.3	24.3	23.5	27.0	27.5	31.2	31.3	31.3
30	30.1	29.2	23.8	22.7	26.0	28.0	31.3	31.2	31.2
31		29.9		23.6	26.2		31.3		31.2

(B-2-1)24dce 3. Wasatch Oil Refining Co. Woods Cross. Records available: 1945-49. Jan. 1, 47.5

(B-2-1)24dcc 3-- Continued.

Water level at noon, from recorder charts

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
1	+9.5	+11.6	...	+11.4	+11.3	+10.3	+10.2
2	9.6	11.7	...	11.4	11.0	10.3	10.1
3	9.7	11.8	...	11.3	10.8	10.1	10.1
4	9.7	12.0	...	11.4	10.8	10.0	10.1
5	9.8	12.1	...	11.4	10.8	10.0	...
6	9.9	12.1	...	11.2	10.8	10.0	...
7	12.3	...	11.0	10.8	10.1	...
8	11.0	10.8	10.4	...
9	11.1	10.8	...	...
10	11.4	10.8	...	...
11	...	+7.5	...	...	12.1	...	11.3	...	...	...
12	...	7.4	...	...	12.0	...	11.2	...	...	...
13	...	7.4	...	...	12.2	...	11.0	...	...	...
14	...	7.3	...	...	12.2	...	10.8	...	...	...
15	...	7.3	...	...	12.3	...	10.7	...	10.4	...
16	...	7.4	+8.4	...	12.3	...	10.5	...	10.5	...
17	+7.4	7.4	8.4	...	12.3	...	10.7	10.9	10.5	...
18	7.5	7.5	8.5	...	12.3	...	10.5	10.8	10.4	...
19	...	7.6	8.7	...	12.2	...	10.4	10.7	10.3	...
20	...	7.7	8.8	...	...	...	...	10.5	10.4	...
21	7.4	7.5	8.9	10.5	...	+12.4	...	10.4	10.3	...
22	...	7.6	8.9	10.7	...	12.3	...	10.3	10.3	...
23	7.3	...	8.9	10.9	...	12.3	...	10.3	10.2	...
24	11.2	...	12.3	...	10.4	10.2	...
25	11.3	...	12.2	...	10.5	10.2	...
26	11.3	...	12.1	11.2	10.4	10.2	...
27	11.4	...	12.0	11.2	10.3	10.2	...
28	11.5	...	11.8	11.3	10.2	10.3	...
29	11.6	...	11.8	11.3	10.2	10.4	...
30	9.3	11.4	...	...	11.2	10.3	10.3	...
31	11.7	...	...	11.4	...	10.2	...

(B-2-1)25bad 2. State claim 12452. Myrtle Hatch. Records available: 1936-49. Mar. 14, +5.2; Dec. 16, +8.7.

(B-2-1)25caa 4. Adolphus Ellis. Records available: 1946-49. Mar. 14, 10.12; Dec. 16, 6.54.

(B-2-1)26aad 1. State claim 3556. N. L. Starrs. Records available: 1936-49. Mar. 14, +46.0; Dec. 16, +49.4.

(B-2-1)35dad 1. State claim 11335. D. E. Howard. Records available: 1946-49. Flowing prior to measurements. Mar. 14, +14.1; Dec. 16, +16.8.

(B-2-1)36bad 2. State claim 4550. M. P. Parkin. Records available: 1936-49. Feb. 28, 17.57; May 12, 16.14; June 24, 13.08; Sept. 30, 13.72; Oct. 31, 13.80; Dec. 16, 13.67.

(B-2-1)36bbd 1. State claim 951. Anna I. Lemon. Records available: 1936-49. Mar. 14, +7.9; Dec. 16, +11.0.

(B-2-1)36ccb 1. State claim 17108. Edna T. Harwood. Records available: 1931-49. Flowing prior to measurements. Mar. 14, +3.95; Dec. 16, +6.60.

Duchesne County

Uinta Basin

(For other wells in this basin see Uintah County.)

U(C-1-2)4adc 1. State claim 8162. Drought Relief Administration. Records available: 1936-49. Apr. 4, 16.06; Oct. 3, 14.46.

U(C-1-2)15bbc 1. State claim 2152. R. M. Clarke. Records available: 1935-49. Flowing prior to measurements. Correction for 1947 water level: Oct. 14, 1947, +13.0. Apr. 4, 1949, +14.3; Oct. 3, +10.1.

U(C-1-2)27aaa 1. State claim 8169. Montwell Letter Day Saints Ward. Records available: 1935-49. Apr. 4, +11.1, flowing prior to measurement.

U(C-1-3)28dcd 1. D. H. Allred. Records available: 1939-49. Apr. 4, 7.47; Oct. 3, 6.64.

U(C-1-3)31cca 5. R. A. Lister. Records available: 1939-49. Apr. 4, 7.90; Oct. 3, 2.77.

U(C-1-4)14aad 1. State application 12748. U. S. Forest Service. Records available: 1939-49. Apr. 4, 4.37; Oct. 3, 2.82.

U(C-1-4)28dcc 1. State claim 8170. Drought Relief Administration. Records available: 1939-49. Apr. 4, 2.72; Oct. 3, 5.44.

U(C-1-5)13ada 3. State claim 8165. Drought Relief Administration. Records available: 1936-49. Apr. 4, 13.27; Oct. 3, 4.89.

U(C-2-1)15dda 1. State application 12977. R. Q. Warnock. Records available: 1939, 1942-45, 1947-49. Apr. 4, +33.5; Oct. 3, +33.9.

U(C-2-1)22bbb. State application 12440. E. H. Peterson. Records available: 1937-43, 1945-49. Apr. 4, +12.9; Oct. 3, +7.7, flowing prior to measurement.

U(C-2-1)22bbb 1. State claim 958. Stephen Wogac. Records available: 1935-43, 1945-47, 1949. Apr. 4, +14.3; Oct. 3, +8.6.

U(C-2-2)23bac 1. State claim 1658. City of Roosevelt. Records available: 1935-49. Apr. 4, 3.00.

U(C-2-3)33ccd 1. E. B. Thompson. Records available: 1939-49. Flowing prior to measurement. Apr. 4, +3.68; Oct. 3, +2.80.

U(C-3-3)8cdd 1. Henry Richins. Records available: 1936-49. Apr. 4, +11.6; Oct. 3, +8.0.

U(C-3-4)7cad 1. Knight Investment Co. Records available: 1936, 1939-40, 1942-49. Apr. 4, 98.97; June 2, 98.64; Oct. 3, 98.98.

U(C-3-4)21aaa 1. Knight Investment Co. Records available: 1936-49. Apr. 4, 112.10; Oct. 3, 118.41.

U(C-3-4)22bab 1. Knight Investment Co. Records available: 1936-49. Apr. 4, 160.35; Oct. 3, 160.60.

U(C-4-2)5bbb. Drought Relief Administration. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	2.94	Apr. 6	3.61	July 1	2.09	Oct. 1	2.08
15	2.93	15	3.62	15	2.09	15	2.04
Feb. 1	3.17	May 1	3.29	Aug. 1	2.52	Nov. 1	2.04
15	3.25	15	2.88	15	2.39	15	1.89
Mar. 1	3.56	June 1	2.34	Sept. 1	2.05	Dec. 1	2.13
15	3.56	15	2.09	15	2.10	15	2.20
Apr. 1	3.60						

U(C-4-3)4bdc 1. State application 12568. U. S. Bureau of Reclamation. Records available: 1939-48. Filled. No measurement made in 1949.

Garfield County

East Sevier Valley

(C-31-2)10cba 1. Gus Lambson. Records available: 1937-49. Apr. 3, 11.57; Dec. 10, 7.57.

(C-32-2)2dad 1. T. W. Roberts. Records available: 1937-48. Destroyed, measurements discontinued.

(C-34-2)22dab 1. State claim 8173. Widtsoe. Diameter 6 inches, depth 339 feet. Records available: 1947-49. Mar. 25, 1947, 172.57; Dec. 10, 1947, 176.80; July 21, 1948, 171.24; Dec. 10, 1948, 164.48; Dec. 9, 1949, 149.63.

(C-35-4)34 dca 1. State claim 5140. Charles and Will Proctor. Records available: 1938-49. Dec. 9, 6.36.

(C-36-3)7aac 1. Lillie Stead. Records available: 1938-49. Apr. 2, 4.45; Dec. 9, 6.01.

Garfield County

Upper Sevier Valley

(For other wells in this valley, see Piute, Sanpete, and Sevier Counties.)

(C-33-5)28bcd 1. State application 11739. Annie Wilcock. Records available: 1937-39. Apr. 3, 47.28; Dec. 9, 42.64.

(C-34-5)8abd 2. D. W. Woodard. Records available: 1935-49. Apr. 3, 17.87; Dec. 10, 13.73.

(C-36-5)28cbb. Horace Burrows. Diameter 48 inches, depth 21 feet. Records available: 1948-49. July 20, 1948, 16.18; Dec. 10, 1948, 19.32; Apr. 2, 1949, 16.68; Dec. 9, 1949, 20.01.

(C-36-5)29da. J. A. Yardley. Records available: 1935-48. Measurements discontinued.

Grand County

Colorado River Area

Courthouse Syncline

(D-22-19)27dbb 1. Frank Paxton. Records available: 1942-43, 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	44.26	Apr. 10	43.89	Aug. 1	44.03	Oct. 8	44.40
21	44.25	30	43.70	31	44.27	Nov. 3	44.44
Feb. 28	42.15	May 31	45.94	Sept. 30	44.44	Dec. 5	44.33
Mar. 31	43.98	June 30	43.70				

(D-24-20)22bac 1. State application 13068. U. S. Bureau of Land Management. Records available: 1942-44, 1946-49. Apr. 10, 11.26; Oct. 8, 12.29.

Grand County

Green River Desert

(D-22-24)29cbc 1. State application 13068. U. S. Bureau of Land Management. Records available: 1946-49.

Jan. 3	20.88	Apr. 30	18.15	Aug. 1	20.29	Oct. 4	21.20
31	20.69	May 31	18.45	31	21.18	31	20.32
Feb. 28	17.45	June 30	19.16	Oct. 2	21.30	Nov. 30	20.02
Mar. 31	16.80						

Grand County

Moab-Spanish Valley

(For other wells in this valley, see San Juan County.)

(D-25-21)28add 1. State application 13068. U. S. Bureau of Land Management. Records available: 1946-49.

Jan. 3	37.32	Apr. 10	37.30	Aug. 1	35.18	Oct. 8	36.70
31	37.21	30	36.72	31	35.78	Nov. 3	36.91
Feb. 28	37.45	May 31	35.93	Sept. 30	38.25	Dec. 5	37.08
Mar. 31	37.26	June 30	34.96				

(D-26-22)17dbb 2. Cleveland. Records available: 1942-43, 1946-49.
Adjacent windmill pumping during measurement. Oct. 6, 49.03.

Iron County - Cedar City Valley

Coal Creek District

(C-35-11)21dbd 1. State claim 1222. D. C. Urie. Records available: 1939-49. Apr. 18, 24.49.

Water level at noon, from recorder charts

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	23.47	23.16	23.50	24.48	24.35	24.10	23.77
2	22.46	23.43	23.18	23.52	24.51	24.33	24.10	23.73
3	22.56	23.42	23.18	23.53	24.52	24.33	24.08	23.74
4	22.73	23.39	23.20	23.56	24.56	24.30	24.06	23.73
5	22.81	23.34	23.23	23.57	24.59	24.28	24.06	23.68
6	22.88	23.29	23.26	.....	24.57	24.26	24.04	23.67
7	22.95	23.18	23.29	.....	24.58	24.28	23.99	23.65
8	22.99	23.15	23.29	23.66	24.55	.....	23.97	23.66
9	22.95	23.16	.....	23.69	24.50	.....	23.97	23.62
10	23.20	23.07	.....	23.74	24.50	.....	23.95	23.56
11	23.35	22.97	23.35	23.79	24.53	24.30	24.04	23.68
12	23.49	22.90	23.41	23.81	24.55	24.26	24.04	23.71
13	23.62	22.93	23.45	23.85	24.50	24.27	24.00	23.68
14	23.67	22.97	23.48	23.89	24.48	24.27	23.95	23.67
15	23.83	22.95	23.52	23.94	24.50	24.25	.....	23.60
16	.....	22.85	23.53	23.98	24.48	24.21	.....	23.56
17	24.08	22.77	23.53	24.02	24.50	24.20	23.95	23.58
18	24.14	22.77	23.54	24.05	.....	24.17	23.92	23.58
19	24.19	22.79	23.57	24.10	24.49	24.18	23.89	23.52
20	24.16	22.80	23.56	24.14	24.48	24.21	23.89	23.59
21	24.15	22.78	23.52	24.15	24.50	24.22	23.89	23.60
22	24.08	22.81	23.46	24.17	24.49	24.19	23.88	23.60
23	24.02	22.84	23.46	24.20	24.48	24.18	23.86	23.54
24	23.75	22.90	23.44	24.23	24.46	24.18	23.86	23.50
25	23.65	.....	23.41	24.25	24.43	24.15	23.82	23.56
26	23.59	.....	23.39	24.24	24.47	24.14	23.80	23.53
27	23.64	.....	23.42	24.30	24.41	24.14	23.79	23.53
28	23.63	.....	23.48	24.34	24.37	24.14	23.79	23.50
29	23.63	23.00	23.47	24.35	24.35	24.10	23.80	23.47
30	23.62	23.09	23.48	24.38	24.36	24.13	23.75	23.48
31	23.52		23.50	24.43		24.10		23.46

(C-35-11)21dec 1. State claim 11599. Wilford Fife. Records available: 1931, 1935-49. Apr. 18, 28.06; Dec. 7, 26.41.

(C-35-11)27acc 1. State claim 382. Fernleigh Gardner. Records available: 1931, 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 18	38.82	June 30	35.49	Sept. 30	a46.82	Nov. 29	37.22
30	38.32	July 29	a45.48	Oct. 31	38.33	Dec. 7	36.96
May 31	38.25	Aug. 31	a48.10				

a Pumping.

(C-35-11)33aac 1. State claim 5126. Cottonwood Pump & Irrigation Co. Records available: 1930, 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 18	61.52	June 30	a79.02	Sept. 30	a86.38	Nov. 29	a85.82
30	61.00	July 29	a87.80	Oct. 31	a86.22	Dec. 7	61.71
May 31	60.65	Aug. 31	a87.92				

a Pumping.

(C-36-11)8aab 1. State claim 13494. Leonard Hargrave. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 2	50.80	May 31	51.33	Aug. 31	58.36	Nov. 29	51.92
18	a52.50	June 30	51.91	Sept. 30	56.78	Dec. 7	51.26
30	51.32	July 29	56.72	Oct. 31	53.62		

a Pumping recently.

(C-36-11)18aba 2. State claim 17383. Jacob Smith. Records available: 1936-49. Apr. 22, 21.25.

Iron County

Enoch District

(C-34-10)31cbc 1. M. S. Jones. Records available: 1938-49. Apr. 18, 0.20; Dec. 7, 1.71.

(C-35-10)18cbb 1. Richard Williams. Records available: 1937-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 18	47.62	June 30	61.22	Sept. 30	72.90	Nov. 29	51.08
30	51.90	July 29	64.97	Oct. 31	63.28	Dec. 7	50.07
May 31	60.02	Aug. 31	67.04				

(C-35-11)1cdc 1. State claim 17278. Ray Grimshaw. Records available: 1937-49. Apr. 18, 1.60; Dec. 7, 3.10.

(C-35-11)14dab 1. State claim 14000. David Murie. Records available: 1937-49.

Apr. 18	2.71	June 30	18.27	Sept. 30	3.29	Nov. 29	2.20
30	3.14	Aug. 31	15.93	Oct. 31	2.02	Dec. 7	2.06
May 31	16.26						

Iron County

Hamilton Fort District

(C-36-12)26cbb 1. State claim 13747. Cox & Thorley. Records available: 1938-46, 1949. Dec. 8, 0.05.

(C-37-12)1ldbc 1. Oliver Berkholder. Records available: 1938-49. Dec. 8, 8.54.

Iron County

Iron Springs District

(C-35-11)31acd 1. State claim 13498. Heber Jensen. Records available: 1930, 1935-49.

Apr. 22	22.08	June 30	25.04	Sept. 30	a63.63	Nov. 29	22.81
30	21.98	July 29	a71.33	Oct. 31	27.06	Dec. 7	22.32
May 31	23.91	Aug. 31	a70.37				

a Pumping.

(C-35-12)34dcd 1. State claim 4873. R. J. and W. M. Shay. Records available: 1936-49. Apr. 22, 15.52; Dec. 7, 16.44.

(C-36-12)1aaa 2. State claim 13995. M. J. McFarland. Records available: 1931, 1936-49. Apr. 22, 8.80; Dec. 7, 10.97.

(C-36-12)12dba 1. State claim 14511. Branch Agricultural College. Records available: 1936-49.

Apr. 2	13.56	June 30	a42.30	Sept. 30	a52.32	Nov. 29	14.38
30	13.32	July 29	a40.73	Oct. 31	19.56	Dec. 7	13.83
May 31	a41.68	Aug. 31	19.79				

a Pumping.

(C-36-12)14bbd 1. G. H. Pratt. Records available: 1936-49. Dec. 7, 6.06.

Iron County

Kanarraville District

(C-37-12)23acb 1. State claim 13010. Federal Land Bank. Records available: 1935-49. Dec. 8, 53.87.

(C-37-12)34abb 1. State claims 1646 and 8184. Kanarra Field & Reservoir Co. Records available: 1935-49. Dec. 8, 36.51.

(C-38-12)3becb 1. State claim 12845. Ford & Williams. Records available: 1938-49. Dec. 8, 66.38.

Iron County

Midvalley District

(C-34-11)29bad 1. E. E. Williams. Records available: 1937-49. Apr. 18, 24.42; Dec. 7, 24.61.

(C-34-11)36cbc 2. State claim 10820. George Grimshaw. Records available: 1937-49. Apr. 18, 19.04; Dec. 7, 19.86.

(C-35-11)4dda 1. State claim 5121. Federal Land Bank. Records available: 1937-49. Apr. 18, 2.62; Dec. 7, 2.94.

(C-35-11)8cdd 1. State claim 13703. Charles Corry. Records available: 1937-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 2	11.59	June 30	20.03	Sept. 30	15.32	Nov. 29	12.30
30	13.16	July 29	22.54	Oct. 31	13.10	Dec. 7	12.03
May 31	19.73	Aug. 31	18.60				

(C-35-11)15aac 1. State claim 1220. H. D. Haight. Records available: 1937-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 14	4.10	June 30	4.92	Sept. 30	6.32	Nov. 29	6.54
30	3.38	July 29	4.82	Oct. 31	6.32	Dec. 7	6.28
May 31	2.17	Aug. 31	5.93				

Iron County

Queatchupah District

(C-36-12)20ddc 1. State claim 13516. E. L., H. D., and L. M. Jones. Records available: 1940-49. Dec. 7, 1.57.

(C-36-12)28ccc 1. A. P. Spilsbury. Records available: 1938-49. Flowing prior to measurement. Dec. 7, +7.7.

(C-37-12)9baa 1. State claim 16350. Platt Watson. Records available: 1938-49. Flowing prior to measurement. Dec. 7, +2.47.

Iron County

Rush Lake District

(C-33-11)30ddd 1. State claim 6005. G. P. Stapley. Records available: 1938-49. Apr. 18, 34.94; Dec. 7, 35.62.

(C-34-10)6ccc 1. State claim 11213. Public land. Records available: 1938-49. Apr. 18, 9.28; Dec. 10, 10.64.

(C-34-11)9cdc 1. D. C. Evans. Records available: 1938-49. Apr. 18, 21.85; Dec. 7, 22.22.

Iron County

Escalante Valley

(For other wells in this valley see Beaver, Millard, and Washington Counties.)

(C-31-12)9cbc 1. Alta Bonner. Records available: 1939-45, 1948-49. July 15, 1948, 60.31; Dec. 4, 1948, 60.07; Apr. 23, 1949, 60.20.

- (C-31-12)17cad 1. Alta Bonner. Records available: 1939-45, 1948-49. July 15, 1948, 44.75; Dec. 4, 1948, 44.05; Apr. 23, 1949, 44.25.
- (C-31-12)19ccd 1. State claim 20091. Owner unknown. Records available: 1939-49. Apr. 23, 47.93.
- (C-31-13)1a 1. State claim 6486. Public land. Records available: 1938-49. Apr. 23, 27.50.
- (C-31-13)4odd 1. Pearl Boeck. Records available: 1938-49. Dec. 7, 24.58.
- (C-31-13)33ccc 1. Lemont Lowe. Records available: 1938-45, 1947-49. Apr. 23, 33.80.
- (C-32-12)6cbb 1. Geo. A. Lowe. Records available: 1940-45, 1948-49. July 14, 1948, 60.14; Dec. 4, 1948, 61.20; Apr. 23, 1949, 60.30.
- (C-32-14)28bbb 1. State claim 17227. Joseph Dyson. Records available: 1937-49. Apr. 20, 2.60.
- (C-33-13)3d. Rebecca Bullock. Records available: 1941-43, 1945-47, 1949. Apr. 22, 64.69.
- (C-33-15)12aaa 1. State of Utah. Records available: 1939-43, 1945-49. Apr. 20, 15.82; July 10, 15.69; Sept. 8, 15.70; Dec. 8, 15.81.
- (C-33-15)13cbb 1. State claim 17615. Iron County. Records available: 1939-45, 1949. Apr. 20, 12.73; July 10, 11.91; Sept. 21, 12.94; Dec. 8, 12.61.
- (C-33-15)19bcc 1. Robins & Maguire. Records available: 1937-43, 1945-49. Apr. 19, 72.80; Sept. 21, 72.71.
- (C-33-15)25bbb 1. Owner unknown. Records available: 1939-45, 1949. Apr. 20, 6.30; July 10, 6.09; Sept. 21, 6.65; Dec. 8, 7.86.
- (C-33-15)31cbb 1. Jesse Carlson. Records available: 1936-49. Apr. 18, 25.60; Sept. 21, 25.30; July 10, 25.22; Dec. 8, 25.32.
- (C-33-15)33deb 1. State claim 13492. Arlie Fourman. Records available: 1937-45, 1949. Apr. 20, 8.25; Sept. 21, 8.30; Dec. 8, 8.30.
- (C-33-15)34ddd 1. U. S. Geol. Survey. Records available: 1939-42, 1949. July 9, 7.61; Sept. 21, 7.81; Dec. 8, 7.96.
- (C-33-15)36ccc 1. U. S. Geol. Survey. Records available: 1939-42, 1949. July 9, 5.75; Sept. 21, 6.2; Dec. 8, 6.20.
- (C-33-16)10ccc 1. Aram Boghession. Records available: 1937, 1946-49. July 11, 91.30.
- (C-33-16)19ddd 1. Clarence Lynd. Records available: 1935-49. Apr. 19, 66.14; July 11, 66.69.
- (C-33-16)22ded 1. State claim 17566. C. R. Burns. Unused well, diameter 36 to 12 inches, depth 58.0 feet. Records available: 1949. Apr. 19, 40.60; July 11, 40.50; Sept. 21, 40.72.
- (C-33-17)29deb 1. Frank Webster. Records available: 1935-43, 1945-49. July 8, 107.22.
- (C-34-14)31ccc 1. U. S. Geol. Survey. Records available: 1939-43, 1945-49. Apr. 19, 12.85; Sept. 22, 13.80; Dec. 8, 13.50.
- (C-34-15)16ccc 1. John McGarry. Records available: 1939-43, 1949. Apr. 20, 3.17.

(C-34-15)16ccc 1-- Continued.

Water level at noon, from recorder charts						
Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	4.42	4.60	4.63	4.56
2	....	....	4.42	4.61	4.63	4.56
3	....	....	4.43	4.62	4.63	4.54
4	3.42	....	4.43	4.62	4.62	4.56
5	3.44	....	4.45	4.61	4.62	4.54
6	3.47	....	4.47	4.61	4.62	4.53
7	3.50	....	4.48	4.59	4.54	4.52
8	3.52	....	4.48	4.59	4.52	4.51
9	3.55	....	4.45	4.60	4.52	....
10	3.56	....	4.43	4.63	4.51	....
11	3.57	....	4.45	4.64	4.57	....
12	3.59	....	4.48	4.64	4.61	....
13	3.61	....	4.48	4.64	4.61	....
14	3.63	....	4.51	4.64	4.60	....
15	3.64	....	4.52	4.64	4.58	....
16	3.66	4.20	4.52	4.66	4.59	....
17	3.67	4.22	4.54	4.71	4.59	....
18	3.68	4.25	4.56	4.72	4.59	....
19	3.72	4.25	4.57	4.68	4.57	....
20	3.73	4.27	4.57	4.60	4.57	....
21	3.76	4.27	4.58	4.62	4.58	....
22	3.77	4.29	4.58	4.64	4.57	....
23	3.80	4.29	4.58	4.63	4.58	....
24	3.82	4.30	4.57	4.64	4.58	....
25	3.83	4.32	4.56	4.64	4.58	....
26	3.84	4.34	4.58	4.63	4.56	....
27	3.86	4.35	4.54	4.63	4.55	....
28	3.87	4.36	4.58	4.62	4.54	....
29	3.93	4.38	4.59	4.62	4.54	....
30	....	4.39	4.60	4.63	4.54	....
31	....	4.40		4.63		....

(C-34-15)16ccc 2. U. S. Geol. Survey. Records available: 1939-43, 1949. Apr. 20, 4.85; July 10, 5.30; Aug. 16, 5.79; Sept. 18, 6.22; Dec. 8, 6.65.

(C-34-15)27daa 2. John McGarry. Records available: 1939-43, 1949. July 9, 7.95; Sept. 21, 8.9; Dec. 8, 8.95.

(C-34-16)2bcc 1. State application 16236. C. R. Burns. Irrigation well, diameter 16 inches, depth 240 feet. Records available: 1949. Apr. 19, 15.21; Sept. 17, 15.28.

(C-34-16)7aab 2. State claim 17296. J. M. Robinson. Records available: 1937, 1939-44, 1949. Sept. 17, 16.54.

(C-34-16)9cbc 1. Augustus Lott. Records available: 1937-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 19	7.60	June 30	7.30	Sept. 1	7.90	Oct. 31	8.00
May 31	7.30	July 29	7.80	Sept. 17	7.83	Nov. 30	7.98

(C-34-16)15ccc 2. Inland Investment Co. Records available: 1939-43, 1949. July 10, 6.72; Aug. 16, 7.20; Sept. 18, 7.64; Dec. 8, 7.98.

(C-34-16)17dcc 2. Owner unknown. Records available: 1937-45, 1949. Apr. 20, 5.00; Sept. 17, 7.28; Dec. 8, 6.76.

(C-34-16)18aac 1. State claim 16944. Chas. E. Aye. Records available: 1937, 1939-45, 1949. Sept. 17, 9.66.

(C-34-16)21dcc 2. Public land. Records available: 1937-49.

Date	Water level	Date	Water level	Date	Water level
Dec. 13, 1946	8.96	June 1, 1948	8.84	Nov. 30, 1948	9.33
Mar. 21, 1947	8.48	July 1	8.96	Dec. 7	9.42
Sept. 11	8.80	15	9.01	Apr. 19, 1949	8.98
Dec. 8	9.00	31	8.15	July 10	8.65
Mar. 12, 1948	8.91	Aug. 31	9.00	Aug. 17	8.89
31	8.90	Sept. 30	9.10	Sept. 17	9.00
Apr. 30	8.81	Oct. 30	9.30	Dec. 8	9.13

(C-34-16)27bcc 2. Public land. Records available: 1937, 1941-45, 1949. Apr. 19, 9.19; Sept. 21, 10.06.

(C-34-16)28bcc 2. Fred Fisher. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level
June 26, 1947	10.05	Dec. 7, 1948	10.76	July 29, 1949	10.08
Sept. 11	10.22	Apr. 19, 1949	10.12	Aug. 17	10.40
Dec. 8	10.32	May 31	10.00	Sept. 17	10.60
Mar. 12, 1948	10.10	July 11	10.08	Dec. 8	10.57
July 15	10.32				

(C-34-16)33cdc 2. Utah Land Security. Records available: 1939-45, 1948-49.

Date	Water level	Date	Water level	Date	Water level
Dec. 7, 1948	13.45	July 29, 1949	13.20	Oct. 31, 1949	14.03
Apr. 19, 1949	12.77	Aug. 17	13.07	Nov. 30	13.83
May 31	12.58	Sept. 1	14.20	Dec. 8	13.70
June 30	12.45	21	13.66		

(C-34-16)34bcc 2. John McGarry. Records available: 1937, 1941-45, 1949. Apr. 19, 10.81; Sept. 21, 12.24.

(C-34-17)1ldab 1. Freda Spooner. Records available: 1937-45, 1949, Apr. 20, 21.21; Sept. 10, 21.61.

(C-34-17)9ddd 1. William Haigh. Records available: 1937-49. Apr. 20, 30.52; July 11, 30.46.

(C-34-17)10bbc 1. Wm. B. Prout. Records available: 1939-45, 1949. Apr. 20, 32.67.

(C-34-17)24cbb 1. State claim 6835. Marvin Hughes. Records available: 1937-45, 1949. Sept. 10, 16.69; Dec. 9, 15.77.

(C-35-12)18ddd 2. State claim 11258. Columbia Steel Co. Records available: 1935-49. Apr. 19, 11.00; Aug. 25, 12.30; Dec. 8, 12.09.

(C-35-15)3dcc 1. State claim 3790. E. J. Graff. Formerly R. D. Clarke. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 19	11.30	July 6	16.78	Sept. 1	15.50	Nov. 30	13.30
May 31	12.00	29	15.00	21	14.82	Dec. 8	12.65
June 30	15.80	Aug. 18	20.50	Oct. 31	13.00		

(C-35-15)3dec 2. State claim 3788. E. J. Graff. Formerly R. D. Clarke. Records available: 1936-49. Apr. 19, 10.60; July 6, 36.56, pumping; Aug. 18, 37.80, pumping; Sept. 21, 15.45; Dec. 8, 12.01.

(C-35-15)4dec 2. Iron County. Records available: 1937, 1939-45, 1949. Apr. 19, 12.17; Aug. 18, 11.85; Sept. 21, 12.14; Dec. 8, 11.87.

(C-35-15)6cdd 1. Frank Bridel. Records available: 1936-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 19	11.64	July 29	11.90	Sept. 21	13.31	Nov. 30	13.20
May 31	11.48	Aug. 18	12.79	Oct. 31	13.30	Dec. 8	13.16
June 30	11.50	Sept. 1	13.20				

(C-35-15)11bbb 1. Marvel Del Viechio. Records available: 1937-39, 1945-47, 1949. Aug. 18, 9.09; Sept. 21, 11.65; Dec. 8, 13.42.

(C-35-15)16ddd 1. State application 12838. Kumen Jones. Irrigation well, diameter 16 inches, depth 315 feet. Records available: 1949. July 6, 25.86; Aug. 18, 26.70; Sept. 13, 25.72; Dec. 8, 24.37.

(C-35-15)20bcd 1. Public land. Records available: 1937-39, 1945-49. Apr. 21, 23.00; Aug. 18, 23.85; Sept. 22, 23.82.

(C-35-15)22dcd 1. State application 16703. Kumen Gardner. Irrigation well, diameter 14 inches, depth 257 feet. Records available: 1949. Apr. 21, 31.24; July 6, 34.41; Aug. 18, 34.80; Sept. 21, 34.00; Dec. 8, 32.58.

(C-35-15)23ccc 1. K. S. Gardner. State claim 11602. Records available: 1941-43, 1949. Inside casing: July 6, 24.01; Sept. 21, 28.96; Dec. 8, 29.20. Outside casing: Aug. 17, 25.48; Sept. 21, 26.60; Dec. 8, 28.00.

(C-35-15)28bdc 1. E. J. Graff. Irrigation well, diameter 14 inches, depth 180 feet. Records available: 1949. Apr. 21, 39.46; Sept. 21, 37.15; Dec. 8, 38.62.

(C-35-15)30acc 2. Hugh Ash. Records available: 1936-49. Apr. 21, 28.16; Aug. 18, 28.40; Sept. 22, 28.56.

(C-35-16)3bcd 1. State claim 3792. C. G. Clarke. Records available: 1937-49. Apr. 19, 16.42; July 5, 16.65; Sept. 21, 17.90; Dec. 8, 17.45.

(C-35-16)3dec 1. State application 17349. Garry Page. Stock and domestic well, diameter 4 inches. Records available: 1949. July 5, 17.15; Aug. 16, 18.11; Sept. 21, 18.28; Dec. 8, 17.82.

(C-35-16)6ccc 2. Emily Jones. Records available: 1937-39, 1949. July 9, 22.22; Sept. 9, 23.50; Dec. 9, 23.06.

(C-35-16)7bcc 1. State application a-2086. H. L. Austin. Irrigation well, diameter 12 inches, depth 100 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Mar. 21, 1947	19.28	Aug. 31, 1948	25.40	June 30, 1949	22.90
Dec. 8	20.70	Sept. 30	25.00	July 29	b29.50
Mar. 12, 1948	20.70	Oct. 30	24.50	Aug. 20	b30.65
31	20.82	Nov. 30	24.50	Sept. 1	b29.80
Apr. 30	20.38	Dec. 9	21.80	Oct. 31	22.70
June 1	a26.59	Apr. 20, 1949	20.70	Nov. 30	22.17
July 1	26.39	May 31	a28.40	Dec. 9	22.08
31	26.40				

a Pump off 10 minutes.

b Pumping.

(C-35-16)10acb 1. State claim 10338. E. G. Thomas. Records available: 1937-39, 1949. July 5, 26.32; Aug. 16, 19.64; Sept. 21, 20.00; Dec. 8, 20.11.

(C-35-16)14ddc 1. Jasper White. Irrigation well, diameter 14 inches. Records available: 1949-49. Dec. 8, 1948, 21.50; Apr. 21, 1949, 21.05; July 1, 21.10; Aug. 17, 21.85; Sept. 22, 22.05; Dec. 10, 20.63.

(C-35-16)15abb 1. Iron County school district. Records available: 1937, 1949. July 5, 20.72; Aug. 16, 21.85; Sept. 21, 21.95; Dec. 10, 21.15.

(C-35-16)16bbc 1. State application 16835. Earl Lewis. Irrigation well, diameter 14 inches, depth 174 feet. Records available: 1947, 1949. Sept. 11, 1947, 19.68; July 3, 1949, 21.20; July 15, 1949, 36.40, pumping; Aug. 16, 22.40; Sept. 22, 21.71; Dec. 10, 21.15.

(C-35-16)17bad 1. State claim 2230. M. Vicerra. Records available: 1937-42, 1949. Apr. 21, 17.37; Sept. 22, 19.35; Dec. 10, 18.74.

(C-35-16)18cdc 2. State claim 20389. John C. Bosshardt. Published incorrectly as 18cdc 4 from 1937 to 1945. Records available: 1937-45, 1949. Aug. 18, 30.30; Dec. 10, 24.93.

(C-35-16)20dec 1. State claim 11630. Eva Hard. Records available: 1937-40, 1942, 1949. Apr. 21, 24.25.

Water level at noon, from recorder charts

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.46	26.05	26.47	26.49	26.34	26.32
2	25.50	26.11	26.49	26.48	26.33	26.32
3	25.53	26.05	26.52	26.48	26.33	26.32
4	25.44	26.13	26.47	26.47	26.33	26.32
5	25.53	26.14	26.40	26.47	26.33	26.32
6	25.57	26.19	26.44	26.46	26.33	26.32
7	25.56	26.09	26.49	26.46	26.33	26.32
8	25.61	26.17	26.43	26.46	26.32	26.32
9	25.64	26.20	26.45	26.46	26.32	26.32
10	25.66	26.23	26.39	26.46	26.32	26.32
11	25.68	26.24	26.39	26.43	26.32	.....
12	25.71	26.27	26.44	26.42	26.32	.....
13	25.76	26.29	26.46	26.40	26.32	.....
14	25.83	26.34	26.46	26.39	26.32	.....
15	25.84	26.36	26.49	26.38	26.32	.....
16	25.86	26.40	26.48	26.37	26.32	.....
17	25.86	26.37	26.49	26.37	26.32	.....
18	25.81	26.41	26.49	26.37	26.32	.....
19	25.86	26.43	26.50	26.37	26.32	.....
20	25.90	26.45	26.51	26.37	26.32	.....
21	25.93	26.44	26.50	26.37	26.32	.....
22	25.94	26.44	26.50	26.37	26.32	.....
23	25.88	26.41	26.49	26.37	26.33	.....
24	25.97	26.43	26.49	26.35	26.33	.....
25	26.00	26.40	26.49	26.34	26.33	.....
26	26.03	26.45	26.49	26.34	26.33	.....
27	26.05	26.44	26.49	26.34	26.32	.....
28	26.06	26.36	26.48	26.34	26.32	.....
29	26.07	26.46	26.48	26.34	26.32	.....
30	26.08	26.46	26.49	26.34	26.32	.....
31	26.10	26.47		26.34		.....

(C-35-16)22add 1. State claim 10337. C. and S. Inatomi. Records available: 1937-49. July 1, 26.19; July 1, 32.10, after pumping 900 g.p.m. for 30 minutes; Aug. 18, 34.70, pumping; Sept. 22, 26.82; Dec. 10, 25.12.

(C-35-16)22bba 1. State claim 17725. Public land. Records available: 1937, 1939-42, 1947-49.

Date	Water level	Date	Water level	Date	Water level
Sept. 11, 1947	22.84	Oct. 30, 1948	25.40	July 29, 1949	24.50
Mar. 12, 1948	22.30	Nov. 30	24.90	Aug. 17	26.23
Apr. 30	22.23	Dec. 7	24.12	Sept. 1	25.80
June 1	22.25	Apr. 21, 1949	23.34	22	25.45
July 1	23.30	May 31	23.75	Oct. 31	24.90
31	23.49	June 30	24.38	Nov. 30	24.50
Aug. 31	24.90	July 2	24.10	Dec. 10	24.53
Sept. 30	25.27				

(C-35-16)28bcc 1. State application 15771. Bruno Biasi. Irrigation well, diameter 18 inches, depth 200 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Dec. 8, 1948	27.45	July 1, 1949	a30.90	Sept. 22, 1949	31.00
Apr. 22, 1949	28.00	1	b30.33	Oct. 31	30.30
May 31	a31.00	Aug. 16	c40.90	Nov. 30	30.30
June 30	31.20	Sept. 1	33.00	Dec. 10	29.54

a Pump off 10 minutes.

b Pump off 1 hour.

c Pumping.

(C-35-16)31abc 1. State application a-2109. C. E. Mitchell. Irrigation well, diameter 16 inches, depth 150 feet. Records available: 1948-49. Dec. 8, 1948, 37.00; Apr. 21, 1949, 36.36; July 29, 39.10; July 1, 44.21, pumping; Aug. 18, 40.95; Aug. 19, 44.40, pumping; Sept. 22, 39.73; Dec. 9, 38.10.

(C-35-16)32ded 1. State application 16831. John McGarry. Irrigation and domestic well, diameter 16 inches, depth 452 feet. Records available: 1949. July 4, 41.86; July 4, 51.70, pumping; Aug. 21, 43.53; Sept. 23, 52.40, pumping; Sept. 24, 42.51; Dec. 11, 40.69.

(C-35-17)1bcc 1. State application 15654. H. C. Gribble. Irrigation well, diameter 14 inches, depth 130 feet. Records available: 1949. July 7, 27.80; Aug. 20, 27.70; Sept. 22, 28.42; Dec. 9, 28.45.

(C-35-17)3bbb 1. State claim 8432. L. E. and H. M. Sevy. Records available: 1936-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 20	46.94	July 11	47.24	Sept. 1	47.70	Nov. 30	47.10
May 31	46.40	29	47.30	22	47.49	Dec. 9	47.34
June 30	47.15	Aug. 20	47.58	Oct. 31	47.30		

(C-35-17)3ccc 1. State application 17133. Milt Sevy. Irrigation well, diameter 14 inches, depth 240 feet. Records available: 1949. Apr. 20, 46.64; July 11, 47.73; Aug. 20, 50.60; Sept. 22, 47.71; Dec. 9, 47.25.

(C-35-17)4dcc 1. State application 17286. McFarland Bros. Irrigation well, diameter 14 inches, depth 207 feet. Records available: 1949. Apr. 20, 55.03; July 11, 64.60, pumping; Aug. 20, 64.00, pumping; Sept. 22, 56.10; Dec. 9, 55.60.

(C-35-17)8cbb 1. State claim 11561. W. W. Adams. Records available: 1937-38, 1941-45, 1949. Apr. 20, 86.20; July 8, 86.60; Aug. 20, 86.10; Dec. 9, 85.94.

(C-35-17)13bdc 1. State claim 14228. Austin Moyle. Records available: 1937-42, 1949. Aug. 20, 34.72; Aug. 23, 34.58; Sept. 22, 34.61.

(C-35-17)13ccc. State application a-2077. Henry Moyle. Irrigation well, diameter 16 inches, depth 200 feet. Records available: 1949. July 7, 34.20; Aug. 20, 35.70; Sept. 22, 36.36; Dec. 9, 33.44.

(C-35-17)22bcc 2. State application 2-1946. P. L. Morris. Irrigation, stock, and domestic well, diameter 16 inches, depth 163 feet. Records available: 1949. Apr. 21, 52.70; July 8, 53.30; July 8, 61.70, pumping; Sept. 12, 53.70; Dec. 9, 53.60.

(C-35-17)23acb. State application 14749. Henry Moyle. Irrigation well, diameter 12 inches, depth 125 feet. Records available: 1949. July 7, 38.15; Sept. 22, 39.96; Dec. 9, 37.45.

(C-35-17)25cdd 1. State claim 19069. Henry Brenn. Records available: 1935-49.

Apr. 21	38.70	July 29	40.30	Sept. 24	40.48	Nov. 30	40.57
May 31	39.10	Sept. 1	41.10	Oct. 31	40.75	Dec. 9	40.12
June 30	39.80						

(C-35-17)36dcc 1. State application 16425. Marion Crosier. Irrigation well, diameter 16 inches, depth 200 feet. Records available: 1948-49. Dec. 8, 1948, 50.50; Apr. 21, 1949, 49.73; July 4, 51.50; Aug. 21, 52.75; Sept. 23, 52.60; Dec. 11, 51.70.

(C-36-15)4cdd 1. State application a-2057. Leo Knell. Irrigation well, diameter 18 inches, depth 245 feet. Records available: 1949. July 3, 129.40; Sept. 13, 105.90; Sept. 14, 106.07; Dec. 8, 104.20.

(C-36-15)8bba 1. R. F. Jones. Records available: 1941-47, 1949. Apr. 21, 86.78; Sept. 14, 86.90; Dec. 11, 86.52.

(C-36-15)19ccc 1. State application a-2101 and a-2085. Lonzo Christensen. Irrigation and stock well, diameter 16 inches. Records available: 1947-49.

(C-36-15)19ccc 1 -- Continued.

Date	Water level	Date	Water level	Date	Water level
Sept. 14, 1947	84.80	July 31, 1948	89.53	July 29, 1949	83.00
Mar. 12, 1948	75.30	Aug. 31	90.40	Sept. 1	82.20
31	79.69	Apr. 22, 1949	80.48	18	84.03
Apr. 30	79.80	May 31	81.15	Oct. 31	89.30
June 1	a88.90	June 30	81.40	Nov. 30	89.24
July 1	a89.40				

a Pump off 10 minutes.

(C-36-16)3ada 1. State application 14709. Coons Estate. Unused well, diameter 12 inches, depth 115 feet. Records available: 1949. Apr. 22, 35.28.

Water level at noon, from recorder charts

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	35.85	36.13	36.33	36.46	36.52
2	.....	35.86	36.13	36.33	36.46	36.52
3	35.55	35.86	36.14	36.34	36.46	36.53
4	35.57	35.87	36.14	36.34	36.47	36.52
5	35.58	35.88	36.15	36.34	36.47	36.52
6	35.59	35.90	36.16	36.35	36.47	36.52
7	35.60	35.91	36.17	36.35	36.47	36.52
8	35.61	35.92	36.18	36.36	36.46	36.53
9	35.63	35.93	36.18	36.36	36.47	36.52
10	35.64	35.94	36.18	36.37	36.47	36.51
11	35.65	35.95	36.19	36.37	36.49	.....
12	35.66	35.96	36.20	36.37	36.50	.....
13	35.67	35.97	36.21	36.38	36.49	.....
14	35.67	35.98	36.22	36.39	36.49	.....
15	35.68	35.99	36.23	36.39	36.49	.....
16	35.69	36.00	36.24	36.39	36.49	.....
17	35.70	36.01	36.24	36.40	36.49	.....
18	35.71	36.02	36.25	36.41	36.50	.....
19	35.72	36.03	36.26	36.41	36.50	.....
20	35.73	36.03	36.26	36.41	36.50	.....
21	35.74	36.04	36.27	36.42	36.51	.....
22	35.75	36.05	36.28	36.42	36.51	.....
23	35.76	36.06	36.28	36.43	36.51	.....
24	35.77	36.06	36.29	36.43	36.51	.....
25	35.77	36.07	36.29	36.44	36.51	.....
26	35.79	36.07	36.30	36.44	36.51	.....
27	35.81	36.08	36.31	36.44	36.51	.....
28	35.82	36.09	36.31	36.44	36.52	.....
29	35.82	36.10	36.31	36.44	36.52	.....
30	35.84	36.11	36.32	36.44	36.52	.....
31	35.85	36.12		36.45		.....

(C-36-16)4a 2. State applications 16699 and a-2078. Vern Fralley. Irrigation well, diameter 16 inches. Records available: 1949. Apr. 21, 48.67; July 12, 51.00; July 14, 60.00, pumping; Sept. 16, 51.51; Dec. 11, 50.30

(C-36-16)5a2. Public land. Records available: 1941-47. Measurement discontinued.

(C-36-16)5b 1. State application 15147 and a-1832. Orlas Alger. Irrigation, stock, and domestic well, diameter 12 inches, depth 150 feet. Records available: 1949. July 12, 65.30, pumping; Aug. 21, 58.00; Sept. 24, 57.45; Dec. 11, 56.11.

(C-36-16)9bcd 1. State application 16253. Wilson Scott. Irrigation, stock, and domestic well, diameter 14 inches, depth 272 feet. Records available: 1948-49. Dec. 8, 1948, 51.40.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 21	51.30	July 29	b59.00	Sept. 24	53.95	Nov. 30	53.26
May 30	a52.10	Aug. 22	b59.20	Oct. 31	53.55	Dec. 11	53.11
June 30	b58.80	Sept. 1	c59.48				

a Pump off 10 minutes.

b Pumping.

c Pumping recently.

(C-36-16)10bdd. State application 16042. B. M. and N. N. Barlow. Irrigation well, diameter 14 inches, depth 275 feet. Records available: 1949. Apr. 21, 48.72; Sept. 24, 51.30; Dec. 11, 50.60.

(C-36-16)16dda 1. C. J. Erickson. Records available: 1937-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 22	61.34	July 29	62.30	Sept. 24	63.15	Nov. 30	63.28
May 30	61.30	Sept. 1	63.80	Oct. 31	63.25	Dec. 11	63.25
June 30	62.89						

(C-36-16)19abb 1. State application 15511. T. W. Jones. Records available: 1947-49.

Apr. 22	79.45	July 16	a92.30	Aug. 22	84.89	Oct. 31	83.00
May 30	84.00	29	83.28	Sept. 1	83.20	Nov. 30	83.10
June 30	85.00	Aug. 22	a95.10	24	83.59	Dec. 11	82.50

a Pumping.

(C-36-16)19caa 1. J. A. Eldredge. Records available: 1941-42, 1944-49.

Apr. 22	83.70	July 29	88.69	Sept. 1	88.70	Oct. 31	88.40
May 30	86.30	Aug. 22	88.82	24	88.36	Nov. 30	88.25
July 16	88.00						

(C-36-16)27dcd 1. State claim 10283. Ivins Investment Co. Records available: 1945-49.

Apr. 22	127.42	July 29	128.39	Sept. 15	128.65	Nov. 30	129.07
May 30	127.50	Sept. 1	128.59	Oct. 31	129.20	Dec. 11	129.20
June 30	127.60						

(C-36-16)29daa 1. State application 16189. Weyl-Zuckerman Co. Records available: 1945-49.

Apr. 22	90.30	July 29	95.5	Sept. 8	b108.60	Nov. 30	92.09
May 30	a94.10	Sept. 1	98.0	Oct. 31	92.17	Dec. 11	92.80
June 30	b103.5						

a Pump off for 10 minutes.

b Pumping.

(C-36-16)31bdd 1. W. H. Leigh. Records available: 1941-49. Apr. 22, 118.92; Sept. 8, 116.20; Dec. 11, 109.95.

(C-36-16)31ccc 1. State application 16153. Leland Huntsman. Irrigation well, diameter 14 inches, depth 222 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Sept. 12, 1947	114.92	July 31, 1948	120.69	Apr. 22, 1949	116.44
Mar. 12, 1948	111.75	Aug. 31	120.90	May 30	a120.00
31	111.75	Sept. 30	121.00	June 30	118.20
Apr. 30	a114.10	Oct. 30	117.80	Sept. 9	122.97
June 1	a119.25	Nov. 30	120.85	30	121.40
July 1	120.70	Dec. 8	116.75	Dec. 13	118.00

a Pump off 10 minutes.

(C-36-16)32ddd 1. J. C. Bosshardt. Records available: 1941-42, 1945-49. Apr. 22, 132.65; Aug. 17, 135.60; Sept. 8, 136.10; Sept. 24, 136.42; Dec. 13, 136.95.

(C-36-17)36dbb 1. State application 16338. Albert Holt. Unused well, diameter 14 inches, depth 158 feet. Records available: 1949. July 17, 121.15.

(C-36-17)36dbb 1 -- Continued.

Water level at noon, from recorder charts

Day	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	122.68	123.00	122.55	122.12
2	.....	122.71	122.98	122.54	122.09
3	.....	122.74	122.96	122.52	122.10
4	.....	122.77	122.93	122.50	122.06
5	.....	122.81	122.91	122.51	122.06
6	.....	122.84	122.87	122.47	122.03
7	.....	122.85	122.90	122.43	122.02
8	.....	122.81	122.87	122.48	122.03
9	.....	122.82	122.88	122.48	.....
10	.....	122.85	122.84	122.42	.....
11	.....	122.88	122.84	122.43	.....
12	.....	122.91	122.80	122.41	.....
13	.....	122.91	122.81	122.38	.....
14	.....	122.95	122.79	122.37	.....
15	.....	122.95	122.76	122.36	.....
16	122.18	122.96	122.75	122.36	.....
17	122.21	122.98	122.73	122.34	.....
18	122.24	123.00	122.73	122.32	.....
19	122.27	123.00	122.74	122.29	.....
20	122.29	123.02	122.70	122.29	.....
21	122.33	123.03	122.70	122.27	.....
22	122.37	123.04	122.66	122.26	.....
23	122.42	123.05	122.67	122.26	.....
24	122.44	123.04	122.66	122.23	.....
25	122.47	123.04	122.63	122.20	.....
26	122.51	123.06	122.62	122.19	.....
27	122.53	123.05	122.62	122.17	.....
28	122.57	123.03	122.59	122.17	.....
29	122.59	123.02	122.58	122.15	.....
30	122.63	123.00	122.58	122.13	.....
31	122.65		122.56		.....

Iron County - Parowan Valley

Buckhorn District

(C-32-8)1ada 1. Iron County. Records available: 1939-49. Apr. 1, 48.64; Dec. 6, 48.18.

(C-32-8)34aad 3. State claim 18168. H. W. Lunt Roadside Park. Records available: 1946-48. No measurement made in 1949.

(C-32-8)35bcb 1. State claim 5683. H. N. Edwards. Records available: 1935-49. Flowing prior to measurement. Apr. 1, +7.7; Dec. 6, +8.4.

Iron County

Little Salt Lake District

(C-33-9)28abd 1. State claim 17259. John Dolorinski. Records available: 1938-46. Measurement discontinued.

(C-33-9)32ccd 2. State claim 17335. Alfred Wilcox. Records available: 1938-48. No measurement made in 1949.

(C-33-9)34cbd 2. State claim 5694. Mary Marsden. Records available: 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	20.40	Apr. 24	19.57	Aug. 28	a59.73	Nov. 27	23.66
Feb. 27	19.98	May 29	a44.12	Sept. 25	a44.20	Dec. 6	22.07
Mar. 27	19.45	June 26	a52.80	Oct. 31	a33.53	25	20.29
Apr. 18	19.09	July 31	a60.14				

a Nearby wells pumping.

(C-34-9)6bcd 1. State claim 13506. G. D. Hyatt. Records available: 1938-49. Apr. 18, 4.87; Dec. 7, 5.27.

(C-34-9)8bdd 1. State claim 4868. P. H. Gurr. Records available: 1938-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	17.57	Apr. 24	15.10	Aug. 28	13.84	Nov. 27	16.00
Feb. 27	17.21	May 29	14.90	Sept. 25	14.70	Dec. 6	16.08
Mar. 27	16.80	June 26	14.07	Oct. 31	15.87	25	15.47
Apr. 18	14.87	July 31	14.27				

Iron County

Paragonah District

(C-33-8)28bbb 1. State claim 15133. State of Utah. Records available: 1940-49. Apr. 18, 10.14; Dec. 6, 10.56.

(C-34-8)5bca 1. Drought Relief Administration. Records available: 1935-49.

Jan. 30	20.09	Apr. 24	16.03	Aug. 28	14.05	Nov. 27	14.78
Feb. 27	19.18	May 29	14.85	Sept. 25	14.44	Dec. 7	15.04
Mar. 27	17.85	June 26	13.45	Oct. 31	14.35	25	15.45
Apr. 1	17.58						

(C-33-9)24aba 1. State claim 10202. A. J. Decker. Records available: 1938-49. Apr. 18, +20.2; Dec. 6, +16.1.

(C-33-9)34dcd 1. State claim 6750 and State application 1426. Federal Land Bank. Records available: 1935-49. Apr. 18, 0.70; Dec. 6, +0.28.

(C-33-9)35ddd 1. State claim 13812. State of Utah. Records available: 1937-49.

Jan. 30	37.59	Apr. 24	38.43	Aug. 28	a47.55	Nov. 27	35.56
Feb. 27	36.73	May 29	a46.96	Sept. 25	a46.66	Dec. 6	36.15
Mar. 27	36.10	June 26	a46.76	Oct. 31	a46.04	25	34.70
Apr. 18	36.55	July 31	a50.95				

a Pumping.

(C-33-9)36dcd 1. State claim 494. H. L. Adams. Records available: 1933-49. Apr. 18, 40.20; Dec. 6, 34.77.

(C-34-9)10bdd 1. State claim 8801. Federal Land Bank. Records available:

Jan. 30	50.35	Apr. 24	47.17	Aug. 28	a58.30	Nov. 27	46.14
Feb. 27	48.96	May 29	a56.93	Sept. 25	47.50	Dec. 6	45.88
Mar. 27	47.85	June 26	a56.85	Oct. 31	47.50	25	45.49
Apr. 18	47.20	July 31	a59.20				

a Pumping.

(C-34-9)16cdd 1. State claim 5818. Federal Land Bank. Records available: 1938-49.

Jan. 30	25.30	Apr. 24	23.15	Aug. 28	19.68	Nov. 27	20.15
Feb. 27	25.40	May 29	21.88	Sept. 25	20.23	Dec. 7	20.27
Mar. 27	25.65	June 26	20.18	Oct. 30	20.74	25	20.15
Apr. 7	23.90	July 31	19.38				

Iron County

Summit District

(C-34-10)24abc 1. State application 12115. R. J. Green. Records available: 1938-49. Dec. 7, 52.62.

Juab County - Juab Valley

Chicken Creek District

(C-15-1)4ddd 1. C. H. Johnson. Flowing prior to measurement. Records available: 1938-49. Apr. 4, +5.18; Dec. 5, +4.98.

(C-15-1)12aba 1. State claim 10223. R. C. Mangleson. Records available: 1935-49. Apr. 4, 53.30; Dec. 5, 53.55.

Juab County

Salt Creek District

(C-12-1)36dca 1. State claim 2227. Orson Cazier. Records available: 1935-49.

Water level at noon, from recorder charts

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 4	19.61	May 21	19.38	Aug. 6	19.01	Aug. 22	20.04
May 6	18.86	22	19.35	7	18.98	23	20.11
7	18.91	23	19.32	8	19.04	24	20.17
8	18.96	July 18	17.39	9	19.14	25	20.23
9	19.01	19	17.50	10	19.26	26	20.29
10	19.09	20	17.60	11	19.35	27	20.32
11	19.17	21	17.68	12	19.43	28	20.36
12	18.95	22	17.75	13	19.50	29	20.42
13	18.91	23	17.85	14	19.56	30	20.50
14	18.98	24	17.93	15	19.62	31	20.57
15	19.07	25	17.99	16	19.67	Sept. 1	20.83
16	19.27	Aug. 1	18.65	17	19.74	2	20.84
17	19.26	2	18.75	18	19.82	3	20.84
18	19.39	3	18.80	19	19.81	4	20.96
19	18.43	4	18.89	20	19.86	Dec. 5	24.99
20	19.37	5	18.87	21	19.93		

(D-11-1)9bbb 4. State claim 3099. J. L. and H. J. Fowkes. Records available: 1935-49. Apr. 4, +12.2; Dec. 13, +11.7.

(D-11-1)31abc 1. Loren Keyte. Records available: 1936-39, 1941-49. Flowing prior to measurement. Apr. 4, +2.92; Dec. 13, +2.27.

(D-13-1)6cbc 1. State claim 8188. Nephi Irrigation Co. Records available: 1935-49. Apr. 4, 24.09; Dec. 5, 24.70.

(D-14-1)6baa 1. State claim 2730. C. H. Garrett. Records available: 1935-49. Apr. 4, 189.01; Dec. 5, 178.32.

Juab County

Snake Valley

(For other wells in this valley see Millard County.)

(C-11-16)6ccc. J. H. Guilmette. Records available: 1938-49. Oct. 17, 23.04.

(C-11-17)1bdc 1. State claim 8190. Drought Relief Administration. Records available: 1938-49. Oct. 17, 2.27.

(C-13-18)14dcc 1. Will Parker. Records available: 1938-48. No measurement made in 1949.

(C-13-18)23aab 2. Charles Nielson. Records available: 1939-49. Oct. 17, 6.31.

Millard County

Escalante Valley

(For other wells in this valley see Beaver, Iron, and Washington Counties.)

(C-24-10)22aca 1. U. S. Bureau of Land Management. Records available: 1941-49. Apr. 24, 10.79; June 28, 12.10; Aug. 15, 14.24; Dec. 6, 13.45.

(C-24-10)22acb 1. U. S. Bureau of Land Management. Records available: 1941-49. Apr. 24, 7.42; June 28, 8.54; Aug. 15, 10.24; Dec. 6, 10.25.

(C-25-10)9dba 1. E. C. Hiltbrand. Records available: 1941-48. No measurement made in 1949.

(C-25-10)26caa 1. State of Utah. Records available: 1941-49. Apr. 24, 16.44; Dec. 6, 16.50.

Millard County - Pavant Valley

Pavant District

(C-19-4)31bcc 1. State claim 4263. Union Pacific Railroad. Records available: 1936-49. Mar. 29, 6.38; Dec. 5, 5.26.

(C-19-5)4dda 1. State claim 16405. Lawrence Clark. Records available: 1936-49. Feb. 24, 24.52; Mar. 29, 24.47; Dec. 5, 23.87.

(C-20-5)13dad 1. C. H. Day. Records available: 1937-49. Mar. 29, 38.59; Dec. 5, 37.67.

(C-20-5)22bcc 1. State claim 7671. Arnold Lesin. Records available: 1936-49. Flowing prior to measurement. Dec. 5, +11.9.

Millard County

Flowell District

(C-21-5)9cdc 1. State claim 6221. John Carling. Records available: 1943-48. No measurement made in 1949.

(C-21-5)21aba 1. State of Utah. Records available: 1929, 1935-49.

Water level at noon, from recorder charts

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1	0.11	7.30	10.07	11.05	10.98	11.51	10.77
2	2.10	7.39	9.53	10.91	10.97	11.53	10.76
3	2.20	7.65	9.52	10.57	10.98	....	10.79
4	2.65	7.76	9.60	10.35	11.30	....	10.78
5	2.85	7.84	9.60	10.79	11.11	....	10.72
6	2.95	7.88	9.62	10.47	11.53	11.53	10.75
7	8.05	9.65	10.48	11.09	11.57	10.72
8	7.95	9.68	10.48	11.05	11.58	10.75
9	9.78	10.49	11.05	11.56	10.50
10	9.82	10.49	11.07	11.55	10.15
11	9.80	10.49	11.10	11.59	10.05
12	9.83	10.57	11.13	11.67	....
13	9.82	10.64	11.13	....	....
14	9.83	11.10	11.14	....	7.86
15	9.89	11.12	11.16	11.60	7.57
16	8.53	....	11.00	11.17	11.31	7.44
17	5.10	8.68	10.08	....	11.17	11.37	7.35
18	5.15	8.67	10.10	11.27	11.18	11.36	7.31
19	5.26	8.60	10.14	10.84	11.12	11.21	7.24
20	5.55	8.62	10.16	10.80	11.60	11.19	7.23
21	5.71	8.57	10.35	11.16	11.30	11.23	7.17
22	5.77	8.24	10.43	11.25	11.28	10.95	....
23	5.89	....	10.53	10.89	11.61	10.89	....
24	+1.96	....	6.34	8.89	....	10.87	11.69	10.88	....
25	6.18	8.98	10.71	10.88	11.36	10.88	....
26	6.27	9.35	10.75	10.86	11.34	10.86	....
27	6.47	9.33	10.70	10.88	11.36	10.71	....
28	6.48	9.33	10.66	10.93	....	10.67	....
29	6.68	9.41	10.54	11.26	11.48	10.71	....
30	+0.03	6.95	9.47	10.37	....	11.51	10.73	....
3105	....	....	....	10.97	11.52	....	....

(C-21-5)34baa 1. State claim 17381. Frank Sweeting. Records available: 1942-49. Mar. 30, 25.71; Apr. 17, 28.10; July 17, 33.60; Dec. 6, 32.03.

Millard County

Hatton District

(C-22-5)28bcc 1. State claim 7675. H. N. Bushnell. Records available: 1943-49. Mar. 30, 10.07; Dec. 6, 13.13.

(C-22-5)28dbd 1. State claim 16860. Charles Swallow. Records available: 1943-49. Feb. 25, 29.35; Mar. 30, 29.53; July 21, 30.30; Dec. 6, 31.17.

(C-22-5)29cda 1. State claim 11976. O. E. Beckstrand. Records available: 1943, 1945-49. Mar. 30, 1.48; Dec. 6, 6.18.

(C-22-5)33cdd 1. State application 13367. L. A. Kimball. Records available: 1943-49. Dec. 6, 50.02.

(C-23-5)6daa 1. State claim 8201. Hatton Well Co. Records available: 1943-49. Mar. 30, 38.02; Dec. 6, 40.91.

(C-23-6)1cad 1. State application 12538. Waldo George. Records available: 1943-48. Destroyed, measurements discontinued.

Millard County

Kanosh District

(C-23-6)8bdb 1. State claim 16582. H. F. and C. H. Watts. Records available: 1943-49. Dec. 6, 25.31.

(C-23-6)19abb 1. Owner unknown. Records available: 1943-49. Dec. 6, 50.22.

(C-23-6)29bas 1. State claim 6581. Owner unknown. Records available: 1943-47, 1949. Dec. 6, 63.47.

(C-24-7)25. Frank Paxton. Records available: 1940-49. Dec. 6, 164.58.

Millard County

Meadow District

(C-22-5)9dbc 1. State claim 2232. R. Sweeting. Records available: 1943-48. No measurement made in 1949.

(C-22-5)17acc 1. State claim 3296. William Blake. Records available: 1935-49. Dec. 6, +34.3, flowing prior to measurement.

Millard County

Sevier Desert

(C-15-4)20dec 1. Spencer Nielson. Records available: 1935-49. Dec. 5, 119.22.

(C-15-5)1aaa 1. I. P. Hinckley. Records available: 1936-49. Mar. 28, 97.66; Apr. 24, 97.90; Aug. 15, 97.13; Dec. 5, 97.24.

(C-15-7)17dad 1. I. H. Losee. Records available: 1937-49. Flowing prior to measurements. Mar. 29, +2.78; Dec. 5, +2.80.

(C-15-8)23bba 1. State claim 12279. C. D. Ashby. Records available: 1938-48. No measurement made in 1949.

(C-16-7)4abb 1. L. N. Hinckley. Records available: 1935-49. Mar. 29, +7.26; Dec. 5, +8.40.

114 WATER LEVELS AND ARTESIAN PRESSURE, 1949, NORTHWESTERN STATES

(C-16-7)7ccb 1. Millard County. Records available: 1938-49. Mar. 29, 1.08; Dec. 6, 1.42.

(C-16-7)21acd 1. Martin Tanner. Records available: 1938-49. Mar. 29, 10.67; Dec. 5, 10.85.

(C-16-8)3add 2. Parley Probst. Records available: 1945-49. Flowing prior to measurement. Mar. 29, +5.55; Dec. 6, +5.0.

(C-16-8)15ddd 3. State claim 12335. Frank Foot. Records available: 1936-49. Mar. 29, 0.22; Dec. 5, 0.25.

(C-16-8)21ddd 1. State claim 768. War Relocation Authority. Records available: 1942-49. Flowing prior to measurement. Mar. 29, +2.72; Dec. 5, +3.05.

(C-16-8)32baa. War Relocation Authority. Records available: 1942-49. Dec. 5, 4.22.

(C-17-6)7dbb 2. Edward M. Dalton. Records available: 1936-49. Mar. 28, +1.03; Dec. 5, +0.48.

(C-17-6)33dcc 1. State claim 10288. Duluth Land Co. Records available: 1935-49. Mar. 29, +10.3; Dec. 6, +8.7.

(C-17-7)20cbb 1. State claim 12287. W. J. Webb. Records available: 1936-49. Flowing prior to measurement. Mar. 29, +5.9; Dec. 6, +5.5.

(C-17-7)30aaa 1. J. G. Parry. Records available: 1935-49. Flowing prior to measurement. Mar. 29, +3.03; Dec. 6, +2.35.

(C-18-7)5aaa 2. State claim 7624. S. A. Webb. Records available: 1935-49. Mar. 29, +6.0; Dec. 6, +5.75.

Millard County

Snake Valley

(For other wells in this valley see Juab County.)

(C-18-19)20dad 1. Mrs. Ward Robinson. Records available: 1937-49. Oct. 18, 23.81.

(C-18-19)20ddd 1. State claim 7420. Louise Robinson. Records available: 1937-49. Oct. 18, 25.42.

(C-20-19)7aab. G. S. Quayte. Records available: 1936-37, 1939-46, 1949. Oct. 18, +7.9, flowing prior to measurement.

(C-20-19)7bbd. Marcus Sorenson. Records available: 1936-46, 1949. Oct. 18, +4.2.

(C-22-19)6b. Cecil Rowley. Records available: 1942-49. Oct. 18, 61.04.

(C-23-19)9cdb 1. Thomas Dearden. Records available: 1936-48. No measurement made in 1949.

Morgan County

Morgan Valley

(A-3-2)24cba 1. State claim 12405. Hyrum Adams. Records available: 1936-40, 1942-49. Jan. 12, 16.56; Mar. 29, 13.25; Dec. 6, 16.94.

(A-4-2)8ccd 1. State claim 12133. L. H. Kobabe. Records available: 1940-49. Jan. 12, 20.17; Mar. 29, 17.71; Dec. 6, 19.32.

(A-4-2)15ccc. State claim 6594. Jake Pentz. Records available: 1936-49. Jan 12, 21.90; Mar. 29, 21.70; Dec. 6, 22.71.

(A-4-2)17dbd 1. Heber Anderson Estate. Records available: 1936-48. No measurement made in 1949.

(A-4-2)26cc. State application 11666. J. C. Little. Records available: 1936-49. Jan. 12, 10.80; Mar. 29, 9.84; Dec. 6, 11.07.

(A-4-2)28baa 1. State claim 9247. Morgan County school district. Records available: 1936-49. Mar. 29, 22.42.

(A-4-2)35cdd 1. State claim 11785. Albert Wiggins. Records available: 1936-49. Jan. 12, 23.06; Mar. 29, 18.15; Dec. 6, 19.67.

(A-4-3)31bcc. Morgan County. Records available: 1937-49. Jan. 12, 24.10; Mar. 29, 21.85; Dec. 6, 24.84.

(A-4-3)31cab 1. State claim 12410. Como Springs Resort Co. Records available: 1937-49. Jan. 12, 1.91; Mar. 29, 1.99; Dec. 6, 1.95.

(A-4-4)30aac 2. State claim 5670. J. A. Millyard. Records available: 1940-49. Jan. 12, 10.25; Mar. 29, 10.02; Dec. 6, 10.51.

(A-5-1)27db. E. R. France. Records available: 1936-49. Mar. 29, 1.30; Dec. 6, 1.22.

Piute County

Grass Valley

(For other wells in this valley see Sevier County.)

(C-27-1)27abc 2. State claim 2905. H. B. Crandall. Records available: 1937-49. Flowing prior to measurement. Apr. 3, +3.85; Dec. 10, +4.53.

(C-30-2)33a. Jessie Savage. Records available: 1938-49. Apr. 3, 11.27; Dec. 10, 13.24.

Piute County

Upper Sevier Valley

(For other wells in this valley see Garfield County.)

(C-30-3)15bba 1. C. P. Jessen. Records available: 1935-49. Apr. 3, 23.76; Dec. 10, 19.81.

(C-30-4)25bcc 1. State claim 8210. Drought Relief Administration. Records available: 1938-49. Apr. 3, 18.29; Dec. 10, 18.33.

Rich County

Bear Lake Valley

(A-13-5)10bbb 1. Thomas Hodges. Records available: 1937-49. Oct. 17, 12.94.

(A-13-5)10bbb 2. Thomas Hodges. Records available: 1937-49. Oct. 17, 15.18.

(A-13-5)21ad. Drought Relief Administration. Records available: 1936-48. No measurement made in 1949.

(A-13-5)22bd. Willis Bros. Records available: 1936-49. Nov. 3, 18.40.

(A-13-5)22da. Max Green. Records available: 1936-49. Nov. 3, 13.52.

(A-13-5)25db. Willis Bros. Records available: 1936-49. Nov. 3, 5.14.

(A-13-6)30bb. Rich County. Records available: 1936-49. Flowing prior to measurement. Nov. 3, +7.08.

(A-14-5)21bd. Thomas Hodges. Records available: 1936-48. No measurement made in 1949.

(A-14-5)21bda. J. W. Gibbons. Records available: 1936-49. Oct. 17, 13.99.

(A-14-5)21bdb. Alex Johnson. Records available: 1936-49. Oct. 17, 17.92.

(A-14-5)21cd. C. W. Pope. Records available: 1936-49. Oct. 17, 3.89.

Rich County

Upper Bear River Valley

(A-9-7)9bdc 1. State application 16725. Asael Longhurst. Stock and domestic well, diameter 6 inches. Records available: 1949. Oct. 19, 22.14.

(A-9-7)9cdc 1. State application 16733. James Stuart. Stock and domestic well, diameter 6 inches, depth 57 feet. Records available: 1948-49. Oct. 19, 1948, 29.82; Oct. 17, 1949, 28.06.

(A-9-8)17ac. State claim 6837. S. Francis & Sons Co. Records available: 1938-49. Oct. 17, 5.45.

(A-10-7)17abb 1. State application 19400. Fern Kennedy. Stock well, diameter 6 inches, depth 56 feet. Records available: 1948-49. Oct. 20, 1948, 27.49; Oct. 17, 1949, 25.87.

(A-10-7)17ddc. Earl Stuart. Unused well, diameter 6 inches, depth 50 feet. Records available: 1947-49. Oct. 27, 1947, 24.22; Oct. 19, 1948, 26.08; Oct. 17, 1949, 24.72.

(A-10-7)20aaa 1. State claim 1886. Joseph Hatch. Records available: 1937-49. Oct. 17, 10.49.

(A-11-7)9cd 1. F. H. Jackson. Records available: 1936-49. Oct. 17, 9.52.

(A-11-7)9cd 2. F. H. Jackson. Records available: 1936-49. Oct. 17, 9.38.

(A-11-7)21bc. Loren Jackson. Records available: 1937-49. Oct. 17, 5.67.

(A-12-7)26bb 1. William Hoffman. Records available: 1936-49. Oct. 17, 7.98.

(A-12-7)26bb 2. William Hoffman. Records available: 1936-49. Oct. 17, 7.83.

Salt Lake County

Jordan Valley

(B-1-1)6cca 1. State claim 747. Rudy Gun Club. Records available: 1931-49. Flowing prior to measurement. Dec. 5, +19.4.

(B-1-1)26ddc 2. L. T. Farnsworth. Records available: 1937-49. Flowing prior to measurements. Mar. 18, +5.33; Dec. 5, +5.4.

(B-1-1)33cda 1. State claim 8867. Salt Lake City Corp. Records available: 1935-49. Measurements by Salt Lake City Corp. Mar. 8, 17.4; May 7, 17.7; Aug. 2, 16.8; Aug. 22, 16.2; Dec. 7, 18.5.

(B-1-1)36abc 1. Utah Oil Co. Records available: 1931-49. Measurements by Salt Lake City Corp. June 11, 12.75; Aug. 2, 15.28; Aug. 4, 16.30; Aug. 22, 18.00; Dec. 7, 18.20.

(B-1-2)36baa 1. E. J. Jeremy. Records available: 1931-33, 1941-49. Flowing prior to measurements. Mar. 18, +15.0; Dec. 5, +14.1.

(C-1-1)22bda 1. State claim 2199. William Gedge. Records available: 1931, 1935-49. Mar. 18, +11.5; Dec. 28, +10.8.

(C-1-1)33abb 1. W. D. Hill. Records available: 1931, 1935-49. Mar. 18, +18.2; Dec. 28, +20.2.

(C-1-1)5bbb 1. State claim 13403. Morton Salt Co. Records available: 1931, 1935-49. Mar. 18, +25.5. Measurement discontinued.

(C-1-2)19dad 1. State claim 5828. Utah Copper Co. Records available: 1931, 1935-48. No measurement made in 1949.

(C-1-2)22cbb 1. F. E. Fowler. Records available: 1931-32, 1934-49. Flowing prior to measurement. Mar. 18, +14.7; Dec. 28, +16.2.

(C-2-1)1bab 2. State claim 4058. C. S. Walters. Records available: 1931, 1935-49. Measurements by Salt Lake City Corp. Mar. 8, +18.9; May 7, +17.3; June 20, +14.2; July 30, +12.2; Sept. 24, +14.5; Dec. 7, +18.7.

(C-2-1)10bad 1. E. B. Lindsay. Records available: 1931, 1935-49. Mar. 18, 11.03; Dec. 28, 5.69.

(C-2-1)22bd. W. A. Diamond. Records available: 1931, 1935-49. Measurements by Salt Lake City Corp. Mar. 8, 70.70; May 13, 72.20; June 20, 69.45; Aug. 4, 66.10; Sept. 24, 67.60; Oct. 15, 64.70; Dec. 23, 66.90.

(C-2-1)24adc 1. State claim 16012. J. D. Blain. Records available: 1931, 1935-49. Mar. 18, 21.12; Dec. 28, 19.88.

(C-2-1)24ccc 2. J. R. Smith. Records available: 1931, 1935-49. Mar. 18, 0.11; Dec. 28, 1.01.

(C-3-1)25aa. Sproul Bros. Records available: 1931, 1935-48. Measurements discontinued.

(C-3-1)27cdd 1. J. R. Dansie and others. Records available: 1931, 1935-49. Mar. 18, 17.23; Dec. 28, 8.02.

(D-1-1)5aad 1. Salt Lake City Corp. Records available: 1936-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	101.71	.....	107.25	102.48	100.94	100.60
2	101.74	107.77	106.60	102.45	100.94	100.58
3	101.56	108.02	106.44	102.43	100.95	100.58
4	101.53	.....	106.15	102.46	101.05	100.58
5	101.53	.....	105.75	102.36	101.05	100.61
6	100.55	.....	105.61	102.30	101.07	100.63
7	100.38	.....	105.26	102.20	101.09	100.57
8	100.16	.....	105.13	102.15	100.96	100.51
9	100.17	110.44	104.92	102.12	100.91	100.52
10	100.21	110.61	104.70	102.01	100.85	100.56
11	100.26	110.70	104.45	101.88	100.92	100.55
12	100.24	110.97	104.38	101.78	100.95	100.55
13	99.88	111.29	104.28	101.63	100.96	100.54
14	99.87	111.45	104.10	101.50	100.98	100.64
15	99.84	111.37	103.92	101.45	100.91	100.60
16	99.97	111.84	103.77	101.29	100.87	100.60
17	100.01	111.96	103.77	101.29	100.85	100.60
18	99.86	112.10	103.65	101.23	100.88	100.43
19	99.83	112.25	103.48	101.19	100.95	100.25
20	100.07	112.40	103.30	101.23	100.90	100.20
21	100.05	112.57	103.31	101.28	100.96	100.29
22	99.98	112.40	103.73	101.23	100.96	100.28
23	99.91	110.85	103.00	101.14	100.96	100.27
24	100.03	109.90	103.01	100.94	100.96	100.34
25	100.15	109.25	102.97	100.85	100.97	100.35
26	100.15	108.70	102.94	100.90	100.95	100.34
27	.....	108.17	102.80	100.98	100.92	100.36
28	.....	107.61	102.71	100.94	100.79	100.36
29	.....		102.66	100.84	100.68	100.38
30	.....		102.63	100.88	100.61	100.44
31	.....		102.56		100.62	

(D-1-1)5aad 1--Continued.

Water level at noon from recorder charts

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	100.46	104.25	112.25	111.13	103.11	100.87
2	100.44	104.92	111.74	110.39	102.99	100.83
3	100.40	105.80	110.71	109.74	102.93	100.80
4	100.40	106.35	109.62	.....	.....	100.82
5	.....	.....	108.87	108.11	.....	100.64
6	100.05	.....	109.15	107.60	.....	100.64
7	101.33	.....	.....	107.17	.....	100.57
8	102.05	.....	110.91	106.82	.....	100.52
9	103.21	.....	111.33	106.62	103.53	100.45
10	104.05	107.53	110.20	106.49	103.66	100.33
11	105.87	.....	109.28	105.70	103.68	100.37
12	105.63	.....	108.72	.....	103.64	100.59
13	106.22	.....	108.14	105.70	103.50	100.61
14	106.97	.....	107.82	105.52	103.40	100.56
15	105.75	.....	107.65	105.20	103.35	100.39
16	105.00	.....	109.01	104.92	103.34	100.22
17	104.35	110.90	110.01	104.70	103.34	100.20
18	103.76	111.27	110.62	104.69	103.25	100.20
19	103.27	111.56	112.04	104.54	103.18	100.32
20	102.84	111.79	.....	104.52	103.12	100.17
21	104.50	111.98	112.04	104.42	103.10	100.28
22	104.12	111.98	112.34	104.34	103.04	100.20
23	103.72	112.15	112.62	104.14	101.21	.....
24	103.40	.....	112.88	104.01	101.20	.....
25	103.14	109.69	112.99	103.87	101.13	.....
26	102.92	108.89	113.22	103.70	101.05	.....
27	102.47	.....	113.40	103.48	101.03	.....
28	102.64	110.84	113.60	103.41	100.99	.....
29	103.93	111.28	113.69	103.28	100.99	.....
30	104.88	112.00	112.27	103.20	100.99	.....
31	104.53	112.00	.....	.....	.....	.....

(D-1-1)6ccd 1. Royal Laundry Co. Records available: 1934-49.
Measurement by Salt Lake City Corp. Sept. 16, 21.45.

(D-1-1)7abd 6. Salt Lake City Corp. Records available: 1931, 1935-49.
Measurements by Salt Lake City Corporation. Mar. 8, +6.85; May 7, +5.60;
July 29, +5.10; Aug. 22, +5.10; Oct. 1, +5.20; Dec. 27, +5.45.

(D-1-1)9aca 1. State claim 4876. Salt Lake City Corp. Records available: 1934-49. Jan. 5, 140.33; Jan. 7, 141.18; Jan. 12, 140.13; Jan. 19, 140.13; Jan. 26, 140.12; Feb. 2, 140.17; Feb. 9, 140.08; Feb. 15, 139.77; Feb. 23, 139.04.

Water level at noon, from recorder charts

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	138.42	.....	.....	134.65	.....	.....	136.08	137.15	137.72	138.09
2	138.22	.....	.....	134.66	.....	.....	136.14	137.10	137.73	138.23
3	138.15	.....	.....	134.59	.....	135.03	136.16	137.20	137.78	138.20
4	138.01	.....	134.96	134.57	.....	.....	136.18	137.15	137.83	138.30
5	137.98	.....	134.97	134.60	.....	.....	136.25	137.15	137.85	138.24
6	137.88	136.32	134.88	134.57	134.48	.....	136.31	137.16	137.77	138.18
7	137.70	.....	134.85	134.53	.....	.....	136.37	137.17	137.78	138.13
8	137.55	.....	134.80	134.55	.....	.....	136.37	137.33	137.82	138.27
9	.....	.....	.....	134.58	.....	.....	136.36	137.42	137.86	138.30
10	137.48	.....	.....	134.54	.....	135.57	136.39	137.43	138.12	138.14
11	137.34	.....	134.77	134.57	.....	.....	136.43	137.40	138.10	138.22
12	137.39	.....	134.72	134.50	.....	.....	136.65	.....	138.05	138.57
13	137.37	.....	134.78	134.49	134.53	.....	136.56	137.41	138.02	138.41
14	137.20	.....	134.83	134.53	.....	.....	136.59	137.53	138.07	138.39
15	137.05	.....	134.77	134.42	.....	.....	136.58	137.56	138.09	138.50
16	137.03	.....	134.85	134.26	.....	.....	136.57	.....	138.11	138.27
17	.....	.....	134.80	134.48	.....	.....	136.73	.....	138.09	138.23
18	.....	.....	134.81	134.44	.....	.....	136.76	.....	138.09	138.30
19	.....	135.69	134.85	134.45	.....	.....	136.72	137.53	138.11	138.48

(D-1-1)9aca 1--Continued..

Water level at noon, from recorder charts

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
20	135.72	134.90	.....	.....	.....	.....	137.63	138.09	138.27
21	135.57	134.88	.....	.....	.....	136.90	137.71	138.07	138.47
22	134.84	.....	.....	.....	136.91	137.69	138.12	138.50
23	136.50	.....	134.84	.....	.....	.....	136.92	137.70	138.12	138.43
24	134.82	134.33	.....	135.85	136.90	137.72	138.14	138.44
25	134.75	.....	.....	.....	136.90	137.74	138.12	138.47
26	134.62	.....	.....	.....	137.04	137.68	138.20	138.50
27	135.20	134.57	.....	134.85	.....	137.05	137.72	138.25	138.48
28	135.11	134.52	.....	.....	.....	137.04	137.78	138.12	138.44
29	135.13	134.54	134.44	.....	.....	137.05	137.80	138.16	138.53
30	136.38	.....	134.87	.....	.....	136.00	137.20	137.82	138.24	.....
31	136.09	.....	137.74	.....	.....

(D-1-1)16caa 1. State claim 4847. Salt Lake City Corp. Municipal well, diameter 20 inches, depth 502 feet. Weekly measurements, Sept. 7, 1934, to June 20, 1938. Recording gage installed June 20, 1938. Records available: 1934-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	58.46	58.88	59.29	59.23	57.21	56.89	56.12	55.43	54.98	55.17	55.33	.....
2	58.48	58.89	59.30	59.23	57.20	56.86	56.09	55.41	54.97	55.18	55.34	55.73
3	58.52	58.89	59.31	59.23	57.19	56.83	56.07	55.38	54.97	55.21	55.35	55.75
4	58.58	58.91	59.32	59.21	57.19	56.82	56.03	55.36	54.96	55.21	55.36	55.77
5	58.60	58.94	59.34	59.17	57.19	56.80	56.00	55.34	54.96	55.21	55.37	55.79
6	58.60	58.95	59.35	59.11	57.19	56.79	56.00	55.32	54.99	55.22	55.37	55.82
7	58.60	58.97	59.35	59.03	57.18	56.77	55.97	55.30	55.00	55.23	55.38	55.84
8	58.61	58.98	59.37	58.94	57.18	56.76	55.95	55.28	54.98	55.24	55.36	55.87
9	58.61	59.00	59.38	58.84	57.18	56.74	55.93	55.26	54.97	55.25	55.36	55.90
10	58.63	59.01	59.38	58.74	57.18	56.72	55.90	55.26	54.97	55.26	55.36	.....
11	58.64	59.02	59.38	58.65	57.19	56.69	55.88	55.27	55.00	55.28	55.43	.....
12	58.64	59.03	59.39	58.53	57.19	56.66	55.86	55.27	55.00	55.30	55.45	.....
13	58.65	59.05	59.40	58.43	57.19	56.64	55.85	55.25	55.01	55.31	55.45	.....
14	58.65	59.07	59.40	58.33	57.18	56.62	55.82	55.24	55.02	55.31	55.45	.....
15	58.65	59.09	59.39	58.25	57.18	56.59	55.80	55.22	55.02	55.31	55.45	56.06
16	58.66	59.11	59.39	58.16	57.18	56.50	55.77	55.20	55.02	55.31	55.48	56.07
17	58.67	59.13	59.38	58.07	57.17	56.42	55.75	55.18	55.06	55.30	55.50	56.10
18	58.68	59.14	59.36	57.98	57.17	56.35	55.72	55.15	55.08	55.31	55.51	56.12
19	58.69	59.15	59.35	57.90	57.17	56.33	55.69	55.14	55.08	55.32	55.51	56.13
20	58.69	59.16	59.34	57.80	57.17	56.32	55.68	55.13	55.08	55.33	55.52	56.17
21	58.69	59.18	59.33	57.82	57.14	56.29	55.67	55.12	55.10	55.35	55.54	56.20
22	58.69	59.18	59.31	57.73	57.08	56.27	55.64	55.12	55.11	55.35	55.56	.....
23	58.70	59.20	59.30	57.67	57.04	56.25	55.62	55.11	55.11	55.35	55.57	56.26
24	58.71	59.21	59.30	57.60	57.03	56.20	55.60	55.09	55.11	55.35	55.58	56.28
25	58.73	59.22	59.28	57.54	57.01	56.18	55.58	55.06	55.12	55.34	55.58	56.33
26	58.77	59.24	59.26	57.47	56.99	56.17	55.46	55.05	55.15	55.32	55.59	56.34
27	58.81	59.26	59.25	57.39	56.96	56.17	55.48	55.04	55.16	55.30	55.61	56.36
28	58.83	59.28	59.25	57.27	56.93	56.14	55.51	55.02	55.14	55.30	55.61	56.38
29	58.84	.....	59.24	57.23	56.92	56.14	55.49	55.01	55.15	55.30	55.64	56.40
30	58.85	.....	59.24	57.22	56.90	56.14	55.47	55.00	55.15	55.33	55.66	56.43
31	58.87	.....	59.24	.....	56.90	.....	55.45	54.98	.....	.....	.....	56.45

(D-1-1)19bba 1. State claim 13468. Salt Lake County Hospital. Records available: 1934-49. Measurements by Salt Lake City Corp. Mar. 8, +14.4; May 7, +11.6; June 23, +8.8; July 29, +7.0; Aug. 23, +8.7; Dec. 7, +14.7.

(D-1-1)20cdc 4. Louis Lund. Records available: 1932, 1935-49. Measurements by Salt Lake City Corp. Mar. 8, +3.75; May 7, +2.83; June 23, +2.10; Aug. 2, +1.90; Sept. 24, +2.00; Dec. 24, +3.83.

(D-1-1)21acc 1. State claim 33. Utah State Prison. Records available: 1931, 1935-49. Measurements by Salt Lake City Corp. Mar. 8, 74.90; May 12, 72.12; July 15, 70.02; Aug. 25, 71.77; Sept. 23, 73.29; Dec. 27, 74.30.

(D-1-1)30bbc 9. L. W. Amodt. Records available: 1931, 1935-49. Measurements by Salt Lake City Corp. Jan. 7, +10.4.

(D-1-1)31caa 2. State claim 4120. William Sorenson. Records available: 1931, 1935-49. Measurements by Salt Lake City Corp. Mar. 8, +13.5; May 7, +13.2; July 30, +6.9; Aug. 31, +7.6; Sept. 24, +9.3; Dec. 9, +14.0.

(D-2-1)4dbd 4. Eugene Templeman. Records available: 1931, 1935-49. Measurements by Salt Lake City Corp.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	+1.30	May 7	+0.20	June 30	+2.30	Sept. 29	+3.20
Feb. 5	+ .90	May 11	.20	July 21	+4.15	Oct. 15	+3.80
10	+ .85	May 19	+ .85	28	+4.20	31	+3.85
23	+ .83	31	+1.55	Aug. 5	+4.30	Dec. 2	+3.40
Mar. 31	+ .30	June 11	+1.90	Aug. 15	+4.50	9	+3.25
Apr. 8	+ .25	22	+2.30	25	+4.55	24	+2.28
27	+ .67						

(D-2-1)5aaa 1. State claim 6685. M. L. Davis. Records available: 1931, 1937-49. Measurements by Salt Lake City Corp. Mar. 8, +0.13; May 7, +0.70; July 30, 1.65; Aug. 25, 0.60; Sept. 29, 0.87; Dec. 2, 0.60.

(D-2-1)8bbb 1. State claim 218. A. B. and T. F. Hogge. Records available: 1931, 1935-49. Measurements by Salt Lake City Corp. Mar. 8, 4.17; May 7, +0.25; May 21, +4.20; June 21, 3.01; July 21, 5.30; Dec. 2, +0.40.

(D-2-1)15acc 1. M. A. Keyser. Records available: 1934-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	68.97	71.21	72.30	72.71	68.63	62.21	59.17	58.57	60.58	62.24	64.10	66.75
2	69.00	71.22	72.35	72.71	68.34	62.05	59.13	58.57	60.61	62.23	64.26	66.86
3	69.17	71.26	72.40	72.73	68.18	61.76	59.00	58.57	60.63	62.27	64.31	66.91
4	.....	71.38	72.41	72.77	68.07	61.44	58.85	58.55	60.67	62.29	64.39	66.88
5	69.35	71.50	72.46	72.62	67.87	61.29	58.76	58.58	60.75	62.34	64.49	66.95
6	69.35	71.50	72.68	72.50	67.55	61.15	58.72	58.69	.....	62.38	64.56	66.96
7	69.15	71.45	72.49	72.36	67.23	60.71	58.78	58.71	61.10	62.38	64.54	66.96
8	69.06	.....	72.64	72.30	66.95	60.71	58.80	58.72	61.13	62.51	64.57	67.07
9	69.19	71.87	72.80	72.33	66.77	60.68	58.82	58.76	61.15	62.54	64.67	67.04
10	69.36	71.79	72.71	72.27	66.65	60.53	58.70	58.92	61.12	62.64	64.79	67.04
11	69.49	71.44	72.61	72.00	66.47	60.37	58.60	59.00	61.10	62.72	65.14	67.53
12	69.60	71.67	72.70	71.81	66.23	60.22	58.60	59.08	61.29	62.71	.....	67.75
13	69.60	72.02	72.82	71.80	66.06	60.05	58.61	59.12	61.23	62.75	.....	67.76
14	69.66	72.02	72.77	71.78	65.73	60.05	58.58	59.20	61.20	62.82	.....	67.76
15	69.79	71.91	72.67	71.68	65.53	59.84	58.53	59.27	61.18	62.82	.....	67.62
16	.....	72.10	72.63	71.43	65.28	59.64	58.51	59.39	61.26	62.77	65.50	67.54
17	.....	72.00	72.76	71.23	65.11	59.74	58.47	59.48	61.54	62.74	65.69	67.61
18	.....	71.96	72.77	71.13	65.04	59.69	58.38	59.55	61.58	62.89	65.75	67.82
19	.....	71.95	72.61	71.04	64.83	59.59	58.39	59.66	61.52	62.99	65.79	67.85
20	70.10	71.96	72.64	71.00	64.62	59.52	58.55	59.79	.....	63.12	65.97	68.13
21	70.17	72.14	72.78	70.87	64.49	59.51	58.62	59.87	61.77	63.36	66.11	68.28
22	70.16	72.08	72.59	70.62	64.23	59.47	58.60	59.92	61.80	63.42	66.21	68.33
23	.....	72.03	72.58	70.38	61.04	59.39	58.52	59.95	61.84	63.42	66.23	68.28
24	.....	72.05	72.73	70.17	63.86	59.28	58.47	59.95	61.86	63.44	66.29	68.16
25	.....	72.04	72.75	70.02	63.64	59.23	58.42	59.95	61.93	63.45	66.31	68.51
26	70.99	72.07	72.77	69.87	63.37	59.14	58.41	60.01	62.14	63.50	66.29	68.47
27	71.02	72.12	72.74	69.68	63.14	59.13	58.41	60.11	62.22	63.62	66.36	68.54
28	71.20	72.13	72.70	69.31	62.89	59.09	58.52	60.16	62.24	63.76	66.32	68.63
29	71.28		72.74	69.00	62.70	59.09	58.55	60.25	62.30	63.81	66.69	.....
30	71.08		72.80	68.90	62.58	59.17	58.56	60.31	62.29	64.00	66.74	.....
31	71.15		72.78		62.39		58.57	60.47		64.06		.....

(D-3-1)5cdd 1. Sam Jones. Records available: 1936-49: Mar. 18, 7.83; Dec. 28, 6.80.

San Juan County - San Juan River Area

Moab-Spanish Valley

(For other wells in this valley see Grand County.)

(D-27-22)2dda 1. State application 13070. U. S. Bureau of Land Management. Records available: 1946-49. No measurement made in 1949.

San Juan County

Church Rock Syncline

(D-28-22)1caa 1. State application 14265. State Road Commission. Records available: 1946-49. Apr. 8, 19.13; Oct. 6, 19.74.

(D-28-23)19dcc 1. State application 13070. U. S. Bureau of Land Management. Records available: 1946-49. Apr. 8, 280.22; Oct. 6, 284.75.

(D-29-23)33dbb 1. State application 13070. U. S. Bureau of Land Management. Records available: 1946-49. Apr. 8, 30.13; Oct. 6, 30.23.

(D-30-23)10add 1. State claim 8429. State Road Commission. Records available: 1946-49. Apr. 8, 29.65; Oct. 6, 30.51.

(D-30-24)35bac 1. State claim 8538. Molybdenum Corp. Records available: 1946-49. Oct. 8, 191.84.

(D-31-23)23add 1. State claim 8254. U. S. Bureau of Land Management. Records available: 1946-49. Apr. 8, 101.16; Oct. 6, 101.02.

San Juan County

LaSal Valley

(D-29-24)18bab 1. State claim 89. Joseph Redd. Records available: 1946-49. Oct. 6, 16.05.

San Juan County

Sage Plain

(D-32-23)36dcc . Frank Redd. Records available: 1942-43, 1946-49. Apr. 8, 44.51; Oct. 6, 38.67.

(D-33-24)26bdc 1. State claim 8236. H. L. Hansen. Records available: 1946-49. Apr. 9, 83.70; Oct. 6, 82.44.

(D-34-24)25aad 1. State application 16754. C. A. Frost. Records available: 1946-49. Oct. 6, 175.81.

(D-34-26)4dad 1. State claim 8249. State Land Board. Records available: 1946-49. Apr. 9, 41.63; Oct. 6, 44.20.

(D-34-26)6ccb 1. State application 16702. W. C. Huffman. Records available: 1946-49. Oct. 6, 70.95.

(D-34-26)30ccb 1. State claim 8243. Clement Johnson. Records available: 1946-49. Oct. 6, 3.49.

(D-36-21)7. U. S. Bureau of Indian Affairs. Records available: 1946-48. No measurement made in 1949.

(D-36-22)27ddb 1. M. F. Lyman. Records available: 1942-49.

122 WATER LEVELS AND ARTESIAN PRESSURE, 1949, NORTHWESTERN STATES

(D-36-22)27ddb 1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	19.87	Apr. 6	16.99	July 1	15.15	Sept. 30	16.36
12	19.68	9	16.85	8	14.05	Oct. 7	16.39
19	19.48	23	17.11	15	14.90	14	16.81
26	19.29	29	15.77	22	14.83	22	16.91
Feb. 2	19.00	May 7	16.44	29	14.93	28	16.95
9	19.32	14	16.22	Aug. 5	15.03	Nov. 4	16.98
16	19.20	22	16.00	12	15.12	18	17.29
24	18.72	25	16.12	19	16.08	25	17.27
Mar. 2	18.41	June 1	15.65	26	15.45	Dec. 2	17.16
9	18.14	8	16.18	Sept. 2	15.54	9	17.01
16	17.61	15	15.48	9	15.87	16	17.12
23	17.04	17	15.31	16	16.04	23	17.41
30	17.17	24	14.84	23	16.31	30	17.51

(D-36-22)27ddb 2. M. F. Lyman. Records available: 1942-49.

Water level at noon, from recorder charts

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	52.21	52.07	52.23	51.96	51.73	.....	51.68	51.38
2	.....	52.28	52.12	52.16	51.94	51.66	.....	51.72	51.38
3	.....	52.19	52.00	52.00	51.91	51.62	.....	51.71	51.37
4	.....	52.16	52.10	51.94	51.90	51.62	.....	51.68	51.54
5	.....	52.26	52.17	51.94	51.90	51.68	.....	51.67	51.33
6	.....	52.26	52.13	52.02	51.86	51.70	.....	51.64	51.17
7	.....	52.27	52.09	52.01	51.77	51.84	50.99	51.37	51.12
8	.....	52.24	52.08	52.03	51.71	51.82	51.07	51.09	51.10
9	.....	52.19	52.17	52.08	.....	51.77	51.19	51.14	50.94
10	52.99	52.21	52.17	51.91	.....	51.64	51.30	51.02	50.31
11	52.87	52.17	52.10	51.94	.....	51.60	51.53	51.32	50.93
12	52.60	52.26	.....	51.98	.....	51.72	51.50	51.65	51.31
13	52.50	52.23	.....	51.95	51.87	51.66	51.45	51.68	51.35
14	52.51	52.14	.....	51.94	51.88	.....	51.90	51.55	51.40
15	52.71	52.01	.....	51.97	51.81	.....	51.90	51.45	51.40
16	52.56	51.98	.....	51.93	51.84	51.66	51.77	51.62	50.94
17	52.51	51.93	52.08	51.94	.....	51.63	51.71	51.74	51.10
18	52.42	52.13	.....	51.83	.....	51.80	51.62	51.68	51.14
19	52.35	52.23	.....	51.86	51.78	.....	51.36	51.53	50.92
20	52.36	52.14	.....	51.83	51.74	.....	51.52	51.46	50.86
21	52.53	52.18	.....	51.84	51.77	.....	51.69	51.59	51.08
22	52.54	.....	.....	51.90	51.80	.....	.....	51.49	51.42
23	52.57	52.30	.....	51.94	51.80	.....	51.67	51.50	51.37
24	52.47	52.35	.....	51.91	.....	.....	51.77	51.49	.....
25	52.39	52.25	51.94	51.87	.....	51.50	51.70	51.46	.....
26	52.40	52.16	51.90	51.78	51.73	51.61	51.66	51.31	.....
27	52.45	52.09	52.00	51.83	51.76	51.66	51.65	51.22	.....
28	52.39	51.99	51.98	51.90	51.72	51.63	51.68	51.31	.....
29	52.00	51.94	51.99	51.94	51.71	51.47	51.52	51.39	.....
30	52.03	52.11	52.12	52.00	51.71	.....	51.62	51.30	52.04
31	.....	52.07	.....	52.00	51.66	.....	51.76	.....	.....

(D-37-22)10ddc 1. State application 16124. U. S. Bureau of Land Management. Records available: 1946-49. Apr. 9, 87.14; Oct. 7, 87.25.

(D-40-22)29bcc 1. F. A. Nielson. Records available: 1942-43, 1946-49. Apr. 9, 8.07; Oct. 7, 7.58.

(D-42-19)7dda 2. Norman Nevills. Mexican Hat. Diameter 12 inches, depth 20 feet. Records available: 1947-49. Oct. 17, 1947, 5.84; Oct. 8, 1948, 7.95; Apr. 9, 1949, 7.10; Oct. 7, 1949, 8.61.

Sanpete County

Central Sevier Valley

(For other wells in this valley see Garfield, Piute, and Sevier Counties.)

(C-19-1)23bcc 1. State claim 1457. C. H. Beal. Records available: 1935-49. Apr. 4, 31.37; Dec. 13, 29.79.

(C-19-1)25cd 2. W. J. Wintch and R. P. Dyreng. Records available: 1935-49. Flowing prior to measurement. Dec. 13, +0.95.

(D-20-1)5bd. Federal Land Bank. Records available: 1939-49. Apr. 4, 23.59; Dec. 13, 19.33.

(D-20-1)20aaa 1. State claim 6356. Federal Land Bank. Records available: 1935-49. Apr. 4, 30.31; Dec. 13, 31.75.

(D-14-2)13aa. Ernest Hansen. Records available: 1935-49. Flowing prior to measurement. Apr. 4, +18.2; Dec. 13, +18.0.

(D-14-3)33bcc 1. State claim 3708. Joseph Cloward. Records available: 1935-49. Flowing prior to measurement. Dec. 13, +5.2.

(D-15-3)8cda 3. State claim 13671. William Prestwick. Records available: 1937-49. Flowing prior to measurements. Apr. 4, +3.15; Dec. 13, +2.98.

(D-15-3)28aba 1. State claim 2100. Isaac Reynolds. Records available: 1937-49. Flowing prior to measurements. Apr. 4, +2.17; Dec. 13, +2.07.

(D-15-4)4dda 1. State claim 3606. Twin Creek Irrigation Co. Records available: 1935-49. Apr. 4, 26.53; Dec. 13, 19.70.

Sanpete County

Sanpete Valley

(D-15-4)6ada 1. State claims 3741 and 8279. W. H. Brinton. Records available: 1937-49. Apr. 4, 4.77; May 5, 5.00; Dec. 13, 4.93.

(D-15-4)29bac 1. State claim 8276. Drought Relief Administration. Records available: 1935-49. Apr. 4, 7.80; May 5, 6.66; Dec. 13, 3.08.

(D-16-3)4aaa 1. State claim 2252. J. F. Bagnall. Records available: 1935-49. Flowing prior to measurements. Apr. 4, +7.0; Dec. 13, +6.2.

(D-16-3)14dca 1. State claim 65. Chris Larsen. Records available: 1938-49. Apr. 4, 11.26; Dec. 13, 11.62.

(D-16-3)15aca 1. State claim 8492. Federal Land Bank. Records available: 1937-49. Dec. 13, 28.96.

(D-16-3)15adc 1. State application 12588. E. L. Davidson. Records available: 1938-49. Dec. 13, 48.97.

(D-16-3)32ddc 2. State claim 11676. George Beal. Records available: 1935-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	+15.3	....	+13.9	+13.4	+14.9	+18.3	+18.6	+18.2	+18.7	....	+17.8
2	+15.5	15.1	....	....	....	14.8	18.8	18.7	18.2	18.7	....	17.8
3	15.4	15.2	....	....	....	15.1	....	18.7	18.4	19.2	....	....
4	15.2	14.7	+14.5	14.0	....	15.2	....	18.7	....	18.8	+17.9	17.7
5	15.4	15.2	14.3	13.8	....	15.1	....	18.8	17.7	18.8	18.0	17.6
6	15.5	14.7	14.3	13.8	....	15.3	18.6	18.7	17.4	18.7	18.1	17.5
7	....	15.1	14.4	13.8	13.2	....	17.5	19.0	17.7	18.2	18.1	17.5
8	....	13.3	14.4	13.6	13.5	....	16.8	19.3	18.4	18.1	17.8	17.6
9	....	14.4	14.5	13.6	13.5	....	16.1	18.8	18.4	18.0	17.8	17.4
10	....	14.7	14.2	13.7	13.5	16.3	16.6	17.4	18.6	18.0	17.6	17.8
11	16.0	14.8	14.2	13.8	13.4	16.2	16.9	16.6	18.7	....	....	17.4
12	15.8	14.8	14.3	13.7	13.3	16.6	16.8	16.8	18.4	....	....	17.4
13	15.0	14.6	14.3	13.6	13.4	16.8	15.9	17.1	....	18.8	....	17.1
14	15.3	14.3	14.3	13.7	13.6	16.9	17.5	18.0	....	18.7	17.7	17.1
15	15.7	13.7	14.3	13.5	....	17.4	17.6	....	....	18.6	16.9	17.2
16	14.7	15.0	14.2	13.5	....	17.3	17.7	....	19.4	18.6	17.9	17.2

(D-16-3)32ddc 2--Continued.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
17	14.7	14.9	14.2	13.6	13.4	17.5	17.9	....	19.3	18.6	....	....
18	14.7	14.7	14.2	13.7	13.6	....	17.7	18.3	19.5	18.4	....	....
19	14.3	....	14.1	13.7	13.5	....	17.2	18.9	19.4	18.0	....	....
20	15.5	14.7	....	13.6	13.6	....	17.1	19.1	19.2	18.1	....	17.0
21	....	14.6	....	13.5	13.8	....	17.0	19.3	19.1	18.2	....	16.7
22	....	14.7	....	....	14.0	18.1	17.8	19.0	....	18.2	....	17.2
23	....	14.6	14.0	....	14.2	18.5	17.1	19.3	....	18.3	....	17.1
24	....	14.6	13.9	13.4	14.4	18.6	....	19.3	....	18.7	....	17.6
25	15.4	14.4	14.0	13.5	14.5	18.7	17.3	18.5	....	18.4	17.9	17.6
26	15.2	14.4	13.8	13.5	....	18.8	17.2	19.0	18.9	18.3	18.1	17.2
27	15.1	14.5	14.0	13.4	....	18.8	18.2	18.7	18.8	18.3	18.1	17.6
28	14.7	....	14.2	13.4	....	19.0	18.9	18.8	18.7	18.1	18.0	....
29	14.7	....	13.8	13.4	14.5	19.1	18.1	19.1	18.6	18.0	18.0	....
30	15.3	....	13.8	13.3	14.6	17.9	17.1	19.2	18.7	18.1	....	....
31	14.7	....	13.8	....	14.6	....	18.5	18.5	....	....	....	....

(D-16-3)33ccb 1. State claim 7333. Chris Olsen. Records available: 1935-49. Apr. 4, 2.98; Dec. 13, 2.99.

(D-17-2)1bca 2. State claim 11528. G. A. Anderson. Records available: 1938-49. Flowing prior to measurement. Apr. 4, +7.6; Dec. 13, +7.5.

(D-17-2)36cbd 1. G. B. Cox. Records available: 1935-49. Apr. 4, 1.65.

(D-17-3)4bcc 1. State application 11763. R. A. Olsen and others. Records available: 1936-47. Measurement discontinued.

(D-17-3)6dba 1. State claim 11431. Niels Christensen. Records available: 1935-49. Flowing prior to measurements. Apr. 4, +4.52; Dec. 13, +5.0.

(D-17-3)9cbd 1. State claims 4446 and 8260. S. E. Christensen. Records available: 1935-49. Apr. 4, 34.30; Dec. 13, 28.26.

(D-17-3)17adb 1. State claim 8261. Drought Relief Administration. Records available: 1938-49. Apr. 4, 44.01; Dec. 13, 39.25.

(D-17-3)30dbd 1. State claim 2696. Ernest Monk. Records available: 1938-49. Flowing prior to measurements. Apr. 4, +10.8; Dec. 13, +11.8.

(D-18-2)1da. L. H. Hougaard. Records available: 1935-49. Apr. 4, 77.59; Dec. 13, 69.72.

(D-18-2)12bab 1. State claim 13390. City of Manti. Records available: 1935-49. Apr. 4, 78.89; Dec. 13, 78.24.

(D-19-2)17aad 1. State claim 13462. W. G. Frischknecht. Records available: 1935-49. Apr. 4, 6.51; Dec. 13, 3.81.

(D-19-2)32aac 1. State claim 11881. Mayfield Irrigation Co. Records available: 1935-49. Apr. 4, 36.80.

Sevier County

Central Sevier Valley

(For other wells in this valley see Garfield, Piute, and Sanpete Counties.)

(C-21-1)13bda 1. State claim 5817. Federal Land Bank. Records available: 1935-49. Flowing prior to measurements. Apr. 4, +6.3; Dec. 13, +6.5.

(C-21-1)27aad 1. State claim 8407. E. A. Thorsen. Records available: 1935-49. Apr. 4, 4.45; Dec. 12, 5.13, pumping.

(C-22-1)8bbd 1. Max Curtis. Records available: 1936-49. Apr. 4, 29.67; Dec. 12, 29.22.

(C-23-2)15bdd 3. State claim 1989. Sevier school district. Records available: 1936-49. Apr. 3, +8.3; Dec. 11, +8.1.

(C-23-2)15ccc 6. Martha Avery. Records available: 1937-49. Apr. 4, +5.5; Dec. 11, +6.9.

(C-23-2)15dcb 4. State claim 1969. F. M. Jackson. Records available: 1936-49. Flowing prior to measurements. Apr. 3, +7.8; Dec. 11, +9.0.

(C-23-2)19dab 1. State claim 8447. William Hallows. Records available: 1935-49. Flowing prior to measurements. Apr. 3, +18.4; Dec. 12, +19.0.

(C-23-2)26cdb 1. State claim 323. N. C. Johnson. Records available: 1935-49. Apr. 3, +5.6; Dec. 11, +7.0.

(C-23-2)31dcb 2. State claim 3302. Pacific National Life Insurance Co. Records available: 1935-49. Apr. 3, +7.9; Dec. 11, +9.3. Flowing prior to measurements.

(C-25-3)3bbd 1. Luther Winget. Records available: 1936-49. Apr. 3, 13.75; Dec. 11, 8.71.

(C-25-4)2db. R. W. Pinney. Records available: 1939-49. Dec. 11, 47.17.

Sevier County

Grass Valley

(C-26-1)23ddb 1. State claim 12620. A. E. DeLange. Records available: 1936-49. Flowing prior to measurement. Dec. 10, +13.3.

(C-26-1)25acc 1. State claim 3159. A. R. Brown. Records available: 1935-49. Flowing prior to measurement. Dec. 10, +17.0.

(D-25-1)31cba 1. Charles Burr. Records available: 1936-48. No measurement made in 1949.

Summit County

Weber Canyon

(A-3-4)4. Thomas Overd. Records available: 1938-46. Measurement discontinued.

Summit County

Kimball Valley

(D-1-4)31dc. Owner unknown. Records available: 1941-47, 1949. Dec. 6, 1.10.

(D-1-5)4cd. Joe Bean. Records available: 1938-48. Measurement discontinued.

(D-1-5)4ca. Martin Larsen. Stock and domestic well, diameter 48 inches, depth 19 feet. Records available: 1949. Apr. 4, 12.00; Dec. 6, 14.04.

Summit County

Rhodes Valley

(D-1-6)19dad 1. State claim 3699. A. W. Frazier. Records available: 1938-49. Jan. 12, 13.98; Apr. 4, 12.00; Dec. 6, 12.67.

(D-2-6)5dbb. Burton Peterson. Records available: 1938-49. Jan. 12, 8.32; Apr. 4, 7.20; Dec. 6, 8.13.

(D-2-6)8aaa. State claim 12248. Ed Rockhill. Records available: 1938-49. Jan. 12, 14.35; Apr. 4, 12.08; Dec. 6, 9.97.

(D-2-6)20ccc. State claim 12231. A. H. Padfield. Records available: 1938-49. Jan. 12, 4.44; Apr. 4, 2.79; Dec. 6, 3.88.

(D-2-6)28ccc 1. Lillian McNeil. Records available: 1938-47, 1949. Jan 12, 26.37; Apr. 4, 21.50; Dec. 6, 26.46.

Tooele County

Rush Valley

(C-5-5)2bc. Alma Young. Records available: 1935-49. Mar. 14, 23.54; Dec. 13, 23.76.

(C-5-5)30ccb 1. State claim 8286. Willard Sager. Records available: 1938-49. Mar. 14, 11.62.

(C-5-5)31dbd 1. Owner unknown. Records available: 1941-49. Mar. 14, 20.78; Dec. 13, 19.99.

(C-5-5)32add 1. Stookey Bros. Records available: 1941-49. Mar. 14, 24.88; Dec. 13, 25.85.

(C-5-5)32adb 1. Stookey Bros. Records available: 1944-49. Mar. 14, 0.88; Dec. 13, 2.72.

(C-8-5)20dc. W. Snyder. Records available: 1941-49. Mar. 14, 7.32; Dec. 14, 7.37.

(C-8-5)30ccc 1. State claim 1573. H. I. Yates. Records available: 1941-49. Mar. 14, 5.63; Dec. 14, 8.05.

(C-8-5)31add 1. D. J. Fredrickson. Records available: 1941-49. Dec. 14, 19.76.

(C-8-6)23cd. Owner unknown. Records available: 1941-47. No measurement made in 1949.

(C-9-5)6bca 1. State claim 8285. Drought Relief Administration. Records available: 1936-49. Dec. 14, 19.15.

Tooele County - Tooele Valley

Burmester District

(C-2-4)16aad 2. State claim 14209. Utah Wool Pulling Co. Records available: 1940-49. Mar. 14, 5.36; Dec. 28, 5.13.

(C-2-4)17dad 1. E. J. Jeremy. Records available: 1935-49. Flowing prior to measurements. Mar. 14, +24.7; Dec. 28, +24.5.

(C-2-5)5acc 3. A. Searle. Records available: 1940-42, 1944-49. Mar. 15, 0.54; Dec. 27, 1.21.

(C-2-5)25aab 1. State of Utah. Records available: 1935-47, 1949. Flowing prior to measurement. Mar. 15, +11.8; Dec. 28, +11.8.

(C-2-5)27ccd 3. State claim 17008. Edwin Cassity. Records available: 1940-49. Mar. 14, 0.00.

(C-2-6)23cbb 1. State claim 16776. C. H. Worthington. Records available: 1941-48. No measurement made in 1949.

Tooele CountyErda District

(C-2-4)27ccb 1. State claim 902. V. J. Crocheron. Records available: 1940-42, 1944-45, 1948-49. Flowing prior to measurement. Mar. 14, +9.3; Dec. 27, +8.9.

(C-2-4)31dca 1. State claim 15160. State of Utah. Records available: 1937; 1939-48. No measurement made in 1949.

(C-2-4)33abb 2. State claim 806. L. T. Liddell. Records available: 1930, 1935-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	+14.58	Apr. 9	+15.67	July 10	+10.83	Oct. 9	+12.10
8	14.71	17	15.81	16	10.33	16	12.25
15	14.77	24	15.79	23	11.08	22	13.37
22	14.96	30	14.77	31	11.52	30	13.42
29	14.96	May 7	13.71	Aug. 7	11.67	Nov. 5	14.21
Feb. 5	15.02	15	12.94	14	10.50	13	14.42
14	15.25	21	13.12	21	10.21	20	14.59
19	15.08	29	13.42	29	10.77	28	14.65
26	15.27	June 5	14.25	Sept. 4	10.37	Dec. 3	15.04
Mar. 5	15.35	13	13.10	12	10.37	12	15.17
12	15.42	18	11.79	17	11.02	19	15.25
20	15.54	25	10.48	24	11.14	24	15.29
26	15.48	July 2	10.27	Oct. 2	11.33	31	15.29
Apr. 3	15.56						

(C-2-4)33abb 4. State claim 808. L. T. Liddell. Records available: 1935-41, 1943-49.

Jan. 1	+15.66	Apr. 9	+16.83	July 10	+10.77	Oct. 9	+13.39
8	15.81	17	16.60	16	11.02	16	13.43
15	15.93	24	16.68	23	11.06	22	14.04
22	15.99	30	15.60	31	11.62	30	14.19
29	15.89	May 7	14.62	Aug. 7	12.60	Nov. 5	15.27
Feb. 5	16.14	15	13.52	15	11.66	13	15.43
14	16.10	21	14.10	21	11.60	20	15.49
19	16.19	29	14.39	29	12.27	28	15.55
26	16.25	June 5	14.66	Sept. 4	11.87	Dec. 3	15.47
Mar. 5	16.35	13	14.31	12	11.97	12	15.85
12	16.43	18	12.68	17	12.43	19	15.99
20	16.58	25	11.64	24	12.52	24	16.06
26	16.60	July 2	11.60	Oct. 2	12.81	31	15.93
Apr. 3	16.43						

(C-2-4)33add 1. State claim 899. Ida L. Clegg. Records available: 1937-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.67	32.23	31.97	31.52	31.55	31.91	33.48	33.36	33.66	33.50	32.57	31.97
2	32.69	32.20	31.92	31.52	31.54	31.92	33.50	33.34	33.65	33.46	32.54	31.91
3	32.75	32.16	31.92	31.56	31.58	31.91	33.44	33.32	33.72	33.48	32.50	31.94
4	....	32.17	31.89	31.60	31.61	31.89	33.44	33.32	33.82	33.45	32.46	31.83
5	....	32.22	31.89	31.54	31.73	31.91	33.46	33.35	33.86	33.40	32.45	31.75
6	....	32.19	31.94	31.51	31.85	31.91	33.47	33.38	33.89	33.39	32.38	31.72
7	....	32.15	31.84	31.44	31.88	31.90	33.50	33.38	33.92	33.31	32.33	31.68
8	32.62	32.29	31.85	31.45	31.84	31.93	33.52	33.38	33.92	33.27	32.30	31.67
9	32.60	32.26	31.85	31.55	31.86	32.17	33.55	33.43	33.88	33.25	32.26	31.58
10	32.63	32.17	31.82	31.52	31.90	32.20	33.48	33.60	33.87	33.26	32.23	31.50
11	32.63	32.02	31.74	31.47	32.10	32.19	33.50	33.62	33.89	33.28	32.37	31.67
12	32.57	32.17	31.82	31.38	32.16	32.23	33.53	33.63	33.98	33.23	32.35	31.80
13	32.51	32.17	31.90	31.45	32.24	32.29	33.57	33.67	33.94	33.25	32.32	31.70
14	32.52	32.11	31.82	31.47	32.25	32.56	33.58	33.70	33.94	....	32.25	31.65
15	32.52	32.07	31.78	31.44	32.19	32.72	33.49	33.72	33.92	....	32.23	31.58

(C-2-4)33add 1--Continued.

Water level at noon, from recorder charts												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	32.59	32.17	31.73	31.40	32.16	32.77	33.44	33.66	33.74	33.15	32.22	31.51
17	32.52	32.12	31.80	31.39	32.17	32.89	33.44	33.60	33.74	33.10	32.20	31.53
18	32.49	32.06	31.76	31.35	32.23	32.82	33.39	33.65	33.73	33.15	32.17	31.54
19	32.40	32.05	31.69	31.37	32.25	32.94	33.44	33.77	33.67	33.10	32.13	31.48
20	32.44	32.05	31.71	31.43	32.26	33.07	33.46	33.78	33.64	32.98	32.15	31.58
21	32.36	32.12	31.75	31.44	32.22	33.14	33.45	33.86	33.66	32.94	32.13	31.59
22	32.30	32.07	31.64	31.43	32.09	33.20	33.40	33.90	33.62	32.90	32.12	31.59
23	32.30	.....	31.62	31.37	32.00	33.22	33.54	33.89	33.58	32.88	32.08	31.51
24	32.35	.....	31.69	31.36	31.98	33.25	33.45	33.93	33.54	32.86	32.09	31.49
25	32.38	.....	31.67	31.38	31.93	33.30	33.47	33.94	33.53	32.82	32.01	31.59
26	32.30	31.97	31.70	31.43	31.89	33.32	33.38	33.91	33.58	32.79	31.98	31.54
27	32.27	31.96	31.61	31.55	31.85	33.40	33.48	33.90	33.58	32.77	31.97	31.52
28	32.33	31.92	31.59	31.54	31.82	33.35	33.46	33.73	33.54	32.76	31.99	31.50
29	32.30	.....	31.58	31.55	31.85	33.38	33.50	33.72	33.54	32.73	32.02	31.43
30	32.26	.....	31.59	31.58	31.88	33.42	33.41	33.72	33.49	32.74	31.96	31.45
31	32.26	.....	31.57	.....	31.87	.....	33.39	33.69	.....	32.67	.....	31.44

(C-2-4)33bcb 2. State claim 16796. Franklin Whitehouse. Records available: 1941-42, 1944-48. No measurement made in 1949.

Tooele CountyGrantsville District

(C-2-5)19dcc 1. G. L. Sutton. Records available: 1937-49. Flowing prior to measurement. Mar. 15, +4.5; Dec. 27, +4.1.

(C-2-5)31bbd 3. State claim 17112. Tony Castagno. Records available: 1937-49. Mar. 15, +17.3; Dec. 27, +17.8.

(C-2-6)36bac 1. State application 12189. J. R. Clark. Records available: 1940-49. Mar. 15, 20.39; Dec. 27, 19.85.

(C-2-6)36cdd 1. E. C. Walk. Records available: 1936, 1940-49.

Water level at noon, from recorder charts												
Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1	78.46	78.09	77.04	75.65	75.45	76.23	77.01	77.46	.....	.....
2	78.44	78.08	76.96	75.60	75.46	76.26	77.03	77.47	77.78	77.75	
3	78.44	78.08	76.91	75.54	75.45	76.26	.....	77.51	77.78	77.77	
4	78.42	78.09	76.87	75.49	75.45	76.30	.....	77.49	77.78	77.77	
5	78.40	78.05	76.82	75.47	75.46	76.31	.....	77.49	77.78	77.76	
6	78.33	78.03	76.75	75.44	75.50	76.34	.....	77.50	77.77	77.77	
7	78.37	77.99	76.70	75.41	.....	76.36	.....	77.53	77.75	77.77	
8	77.99	76.62	75.41	75.52	76.39	.....	77.56	77.75	77.80	
9	77.98	76.57	75.42	75.55	76.41	.....	77.56	77.72	77.76	
10	77.94	76.53	75.41	75.55	76.44	.....	77.60	77.73	77.76	
11	77.92	76.48	75.39	75.57	76.46	77.12	77.60	77.83	77.86	
12	77.84	76.42	75.39	75.60	.....	77.18	77.60	77.83	77.87	
13	77.83	76.39	75.38	75.61	76.51	77.18	77.63	77.82	77.88	
14	77.84	76.32	75.40	75.65	76.52	77.19	77.63	77.81	77.88	
15	78.25	77.80	76.28	75.34	.....	76.53	77.20	77.61	77.84	77.87	
16	78.25	77.78	76.23	75.26	75.75	76.58	77.21	77.63	77.82	.....
17	78.25	77.73	76.20	75.35	75.79	76.61	77.28	77.61	77.83	77.94	
18	78.24	77.69	76.18	75.29	75.81	76.64	77.30	77.66	77.84	77.96	
19	78.18	77.64	76.13	75.29	75.85	76.69	77.30	77.65	77.84	77.96	
20	78.22	77.64	76.11	75.31	75.91	76.72	77.33	77.68	77.86	78.02	
21	78.20	77.60	76.07	75.30	75.92	76.75	77.35	77.70	77.87	78.04	
22	78.16	77.56	76.03	75.30	75.96	76.79	77.36	77.69	77.88	78.04	
23	78.17	77.50	76.00	75.29	75.98	76.82	77.36	.....	77.86	78.04	
24	78.48	77.18	77.44	75.98	75.28	76.02	76.86	77.35	77.69	77.90	
25	78.49	78.17	77.40	75.94	75.31	76.07	76.89	77.35	77.68	77.89	
26	78.48	78.18	77.37	75.89	75.30	76.09	76.92	77.40	77.68	77.86	
27	78.47	78.16	77.30	75.84	75.37	76.12	76.92	77.40	77.70	77.84	
28	78.46	78.15	77.21	75.79	75.34	76.16	16.95	77.39	77.69	77.86	
29	77.18	75.75	75.40	.....	76.17	76.98	77.42	77.71	77.84	
30	78.12	77.12	75.73	75.45	.....	76.99	77.43	77.74	.....
31	78.10	.....	75.68	.....	76.22	77.01	.....	.....	77.83	

(C-3-5)5bbb 1. State claim 15330. R. W. Brown. Records available: 1942-49. Flowing prior to measurement. Mar. 15, +1.37; Dec. 27, +0.59.

(C-3-5)6dda 1. State claim 9952. Federal Land Bank. Records available: 1940-49. Mar. 15, 50.32; Dec. 27, 53.27.

Tooele County

Lake Point District

(C-2-4)1bcc 1. Jesse Long. Records available: 1940-49. Mar. 14, 33.22; Dec. 28, 32.90.

(C-2-4)2aba 1. State application 11962. B. N. Griffith. Records available: 1936-49. Mar. 14, +8.1; Dec. 28, +9.0.

(C-2-4)3dcc 1. Nick Soter. Records available: 1941-47, 1949. Mar. 14, 3.28; Dec. 28, 3.23.

Tooele County

Marshall District

(C-2-5)34add 1. State application 13537. B. H. Woodward. Records available: 1941-49. Flowing prior to measurement. Mar. 14, +12.3; Dec. 14, +11.2.

(C-2-5)36caa 1. State claim 13692. J. A. and S. W. Smith. Records available: 1937-49. Mar. 14, 31.31; Dec. 14, 31.98.

Uintah County

Uinta Basin

(For other wells in this basin see Duchesne County.)

U(B-1-1)2caa 2. Ralph Redfoot. Records available: 1936-49. Apr. 4, 28.54.

U(D-1-1)14bbc 1. State claim 1868. George Hackford. Records available: 1935-49. Apr. 4, 6.45; Oct. 3, 13.25.

U(D-1-1)23abb 1. Albert Daniels. Records available: 1935-46, 1949. Apr. 5, 14.04; Oct. 3, 11.47.

(D-3-21)17cda 1. State claim 6641. M. M. Bingham. Records available: 1935-49. Flowing prior to measurement. Oct. 4, +6.37.

(D-4-21)2bdc 1. Gibson Ranch Co. Records available: 1939-46, 1948-49. Feb. 1, 8.86; Apr. 6, 8.33; June 16, 4.73; July 1, 5.69; Oct. 4, 7.36.

(D-4-21)8cdc 1. Delbert Horrocks. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	10.06	June 16	3.74	Aug. 2	3.09	Oct. 4	4.58
Feb. 1	11.49	July 1	2.33	Sept. 1	4.23	Nov. 9	4.22
June 1	2.20	19	2.81				

(D-4-21)9bcb 1. State application 16824. Lena McCarty. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	10.34	June 1	3.79	Aug. 2	5.54	Oct. 4	10.05
Feb. 1	10.55	16	3.72	Sept. 1	8.22	Nov. 9	10.07
May 2	6.99	July 19	4.59				

(D-4-21)10bbb 2. State application 17176. Marion Hall. Records available: 1948. Measurement discontinued.

130 WATER LEVELS AND ARTESIAN PRESSURE, 1949, NORTHWESTERN STATES

(D-4-21)12acc 1. Lonzo McCarl. Records available: 1939-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	12.80	Apr. 5	15.18	June 16	5.75	Sept. 1	5.57
Feb. 1	13.97	May 3	15.46	July 19	3.73	Oct. 4	6.30
Mar. 3	14.87	June 1	7.44	Aug. 2	4.07	Nov. 9	8.65

(D-4-21)12bcc 3. George Swett. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	4.64	Apr. 4	3.36	June 16	3.29	Sept. 1	4.16
Feb. 1	4.68	May 3	3.00	July 19	3.42	Oct. 4	4.07
Mar. 3	4.16	June 1	2.08	Aug. 2	3.42	Nov. 9	4.35

(D-4-21)13cdd 1. Latter Day Saints Elders Farm. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	8.35	June 1	5.60	July 19	5.91	Oct. 4	5.30
Apr. 5	6.85	16	6.06	Aug. 2	5.67	Nov. 9	7.10
May 3	8.05	July 2	7.00	Sept. 1	7.07		

(D-4-21)15bbb 1. Dorr Finican. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	5.36	June 16	3.91	Aug. 2	5.53	Oct. 4	8.28
Feb. 1	5.71	July 1	4.40	Sept. 1	7.48	Nov. 9	4.89
June 1	3.58	19	4.25				

(D-4-21)15daa 1. Arvel Allred. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	8.68	June 16	5.38	July 19	5.13	Sept. 1	5.98
Feb. 1	8.62	July 1	5.49	Aug. 2	6.20	Nov. 9	5.54
June 1	5.15						

(D-4-21)16bba 1. Wm. Schaefermeyer. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 3	20.42	June 1	10.09	July 19	11.47	Oct. 4	17.37
Apr. 5	19.45	16	11.58	Aug. 2	12.80	Nov. 9	17.85
May 2	18.43	July 1	12.28	Sept. 1	15.66		

(D-4-21)21dcd 1. Clifford Howe. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	9.19	Apr. 6	9.77	June 16	5.75	Sept. 1	7.41
Feb. 1	9.49	May 3	10.01	July 19	6.61	Oct. 4	7.83
Mar. 3	9.72	June 1	5.91	Aug. 2	7.46	Nov. 9	7.93

(D-4-21)22aba 1. State application 17965. Joseph K. Carroll. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	6.84	May 3	5.48	July 1	3.96	Sept. 1	5.91
Feb. 1	7.13	June 1	4.02	19	4.17	Oct. 4	5.50
Mar. 3	7.12	16	4.30	Aug. 2	4.82	Nov. 9	4.19
Apr. 5	4.85						

(D-4-21)22ddb 1. State claim 9906. A. T. Johnson. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	9.63	Apr. 6	6.15	July 19	5.14	Oct. 4	6.70
Feb. 1	9.70	May 3	6.18	Aug. 2	7.53	Nov. 9	5.64
Mar. 3	9.45						

(D-4-2)23dbb 2. State application 16752. Ella Preas. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	10.06	May 3	8.73	July 2	7.65	Sept. 1	9.05
Feb. 1	10.04	June 1	8.07	19	7.87	Oct. 4	9.60
Mar. 3	9.38	16	8.00	Aug. 1	8.27	Nov. 9	9.18
Apr. 6	9.15						

(D-4-21)24aad 1. H. R. Hazelbush. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 3	9.40	June 16	8.12	Aug. 2	9.37	Nov. 9	11.01
June 1	6.73	July 19	8.31	Oct. 4	9.15		

(D-4-21)24ddd 1. State application 18382. Merrill Goodrich. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	3.59	Apr. 5	2.87	June 16	2.79	Sept. 1	6.36
Feb. 1	3.73	May 3	4.66	July 19	4.36	Oct. 4	5.46
Mar. 2	3.21	31	3.33	Aug. 1	5.68	Nov. 9	2.64

(D-4-21)25bba 1. Aubra Hodgkinson. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	3.22	May 3	3.11	June 30	3.28	Sept. 1	4.13
Mar. 3	3.66	June 1	2.30	July 19	3.24	Oct. 4	4.31
Apr. 6	3.23	16	2.65	Aug. 1	3.95	Nov. 9	3.19

(D-4-21)25daa 1. Glen S. Knight. Records available: 1948-49.

Jan. 5	4.86	Apr. 6	4.00	June 16	2.87	Sept. 1	3.69
Feb. 1	5.23	May 3	3.65	30	2.91	Oct. 4	3.78
Mar. 2	4.89	31	2.34	Aug. 1	3.34	Nov. 9	3.45

(D-4-21)27aba 1. State application 16799. E. J. Westwood. Records available: 1948-49.

Jan. 5	5.99	May 3	4.13	July 1	4.86	Sept. 1	5.77
Feb. 1	6.01	June 1	3.92	19	4.97	Oct. 4	5.54
Mar. 3	5.86	16	4.87	Aug. 2	5.30	Nov. 9	5.42
Apr. 6	5.58						

(D-4-21)27daa 1. John Watkins. Records available: 1948-49.

Jan. 5	10.24	May 3	8.84	June 30	4.63	Sept. 1	7.86
Feb. 2	10.55	31	5.24	July 19	4.52	Oct. 4	8.49
Mar. 3	10.97	June 16	5.95	Aug. 1	6.27	Nov. 9	7.65
Apr. 5	9.62						

(D-4-21)34ddd 1. State application 17775. Owen Nelson. Records available: 1948-49.

Jan. 5	14.37	May 3	10.67	June 30	9.52	Sept. 1	14.28
Feb. 2	14.61	31	8.65	July 19	11.03	Oct. 4	13.03
Mar. 3	15.34	June 16	9.33	Aug. 1	12.46	Nov. 9	10.69
Apr. 5	12.70						

(D-4-21)36aab 1. State application 18168. Don B. Weeks. Records available: 1948-49.

Jan. 5	5.25	Apr. 6	4.11	June 16	2.08	Sept. 1	4.40
Feb. 1	5.52	May 3	5.61	30	2.07	Oct. 4	4.03
Mar. 3	5.90	31	2.84	Aug. 1	3.67	Nov. 9	1.64

(D-4-22)31bcc 1. Mabel Merrill. Records available: 1948-49.

Jan. 5	6.76	May 31	2.92	July 19	1.87	Oct. 4	4.98
Apr. 6	4.45	June 16	2.24	Aug. 1	4.27	Nov. 9	3.15
May 3	4.20	30	2.35	Sept. 1	4.55		

(D-4-22)32ded 1. Standard Oil of California. Records available: 1948-49.

Jan. 5	3.74	May 3	3.58	June 30	3.56	Sept. 1	3.35
Feb. 1	3.62	31	3.48	July 19	3.27	Oct. 4	2.99
Apr. 6	3.83	June 16	3.34	Aug. 1	3.37	Nov. 9	2.76

(D-5-21)ladd 1. Standard Oil of California. Records available: 1948-49. Apr. 6, 55.72. Measurement discontinued.

(D-5-21)2dc b 1. State application 18686. George C. Davis. Records available: 1948-49.

Jan. 5	11.90	Apr. 5	9.05	June 30	8.33	Sept. 1	9.47
Feb. 1	12.07	May 3	5.57	July 19	8.10	Oct. 4	9.77
Mar. 2	11.87	31	5.04	Aug. 1	8.54	Nov. 9	11.46

(D-5-22)5cbc 1. C. H. Gomm. Records available: 1948-49.

Mar. 2	28.77	June 16	20.33	Aug. 1	21.42	Oct. 4	24.37
Apr. 6	28.58	30	18.30	Sept. 1	22.52	Nov. 9	25.50
May 31	24.74	July 19	20.03				

(D-5-22)6abb 1. Owner unknown. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 6	2.40	June 16	0.66	Aug. 1	2.37	Oct. 4	1.88
May 3	3.55	30	.73	Sept. 1	2.65	Nov. 9	.63
31	a+ .20	July 19	1.71				

a Irrigating adjacent field.

(D-5-22)6bab 1. Merrill Goodrich. Records available: 1948-49.

Jan. 5	7.74	May 3	5.98	Aug. 1	2.84	Oct. 4	5.75
Feb. 1	8.62	July 19	2.32	Sept. 1	3.46	Nov. 9	3.23
Apr. 6	5.56						

(D-5-22)6bab 2. Merrill Goodrich. Irrigation well, diameter 3 inches, depth 42 feet. Records available: 1949.

May 3	10.40	June 30	7.53	Aug. 1	8.61	Oct. 4	11.85
June 1	6.88	July 19	7.11	Sept. 1	8.59	Nov. 9	8.49
16	6.14						

(D-5-22)7bdc 1. State application 16709. Elijah Jackson. Records available: 1948-49.

Jan. 5	12.25	May 3	11.49	Aug. 1	7.64	Oct. 4	9.07
Feb. 2	12.44	31	3.33	Sept. 1	9.37	Nov. 9	8.22
Apr. 6	11.94	July 19	6.12				

Utah County

Cedar Valley

(C-6-2)29cac 1. Marsh Williams. Records available: 1943-49. Flowing prior to measurement. Mar. 15, +3.9; Dec. 15, +4.3.

Utah County

Goshen Valley

(C-10-1)2aad 1. State claim 5206. Albert Morgan. Records available: 1938-49. Mar. 28, 12.91; Dec. 5, 12.75.

(D-9-1)29cdc 1. John Fellman. Records available: 1938-49. Mar. 28 27.09; Dec. 5, 25.30.

Utah County - Utah Lake Valley

North Utah Basin

(C-5-1)2daa 3. State claims 10922, 10923, and 10924. O. J. Roberts. Records available: 1940-49. Mar. 16, 10.62; Dec. 15, 11.33.

(D-5-1)8aaa 1. State claim 11095. Lehi Irrigation Co. Records available: 1940-49. Mar. 15, 28.34; Dec. 15, 26.35.

(D-5-1)9ccc 3. State claim 16332. E. N. Webb. Records available: 1935-49. Mar. 15, +10.4; Dec. 15, +10.8.

(D-5-1)9ddb 1. State claim 11083. City of Lehi. Records available: 1936-49. Mar. 15, 11.51.

(D-5-1)14adb 1. State claim 8371. Drought Relief Administration. Records available: 1937-49.

(D-5-1)14adb 1--Continued.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	53.33	.....	53.28	53.22	53.73	54.02	51.07	51.63	52.19	52.30	52.24	51.33
2	53.25	.....	53.27	53.31	53.69	53.85	50.98	51.70	52.15	52.39	52.28	51.19
3	53.51	.....	53.49	53.77	53.50	50.86	51.77	52.01	52.41	52.24	.....	.....
4	53.72	.....	53.07	53.69	53.88	53.31	50.79	51.72	51.96	52.55	52.19	.....
5	53.86	.....	52.67	53.67	53.89	53.02	50.79	51.81	52.03	52.23	52.16	.....
6	.....	.....	52.73	53.61	54.02	52.73	50.93	51.87	52.23	52.24	52.10	51.03
7	53.57	53.20	52.84	53.50	54.05	.....	51.04	51.89	52.39	52.13	51.87	50.92
8	53.26	.....	52.75	.....	54.17	52.35	51.10	51.78	52.39	52.18	51.67	50.94
9	53.34	.....	.....	53.67	54.24	52.30	51.04	51.73	52.41	52.70	51.64	50.97
10	53.51	.....	.....	53.69	54.38	52.18	50.99	51.82	52.15	52.24	51.56	50.85
11	53.64	.....	52.51	53.64	54.53	51.86	51.00	51.83	52.03	52.43	51.92	51.05
12	53.53	.....	.....	53.40	54.57	51.76	51.03	51.92	52.23	52.22	52.07	51.24
13	53.59	.....	.....	53.50	54.57	51.78	51.12	51.89	52.21	52.21	51.99	.....
14	53.44	.....	.....	53.61	54.52	51.79	50.99	51.90	.....	52.25	51.81	.....
15	53.43	.....	.....	53.73	54.46	51.57	50.95	51.92	52.16	52.21	51.69	51.10
16	52.77	.....	.....	53.69	54.44	51.58	50.81	52.11	52.27	52.03	51.74	50.86
17	53.73	.....	53.22	53.65	54.40	51.63	50.97	.....	52.43	51.92	51.76	50.91
18	53.63	.....	53.24	53.55	54.46	51.71	51.01	.....	52.52	51.94	51.65	50.82
19	53.45	.....	53.08	53.59	54.53	51.59	51.04	.....	52.51	51.94	51.47	50.49
20	.....	.....	52.84	53.67	54.38	51.65	51.10	.....	52.40	.....	51.46	50.87
21	53.47	.....	53.14	53.73	54.37	51.79	51.23	.....	52.42	52.24	51.48	51.32
22	.....	.....	53.05	53.66	54.31	51.78	51.21	.....	52.45	52.26	51.34	.....
23	.....	53.34	52.80	.....	54.30	51.60	51.20	.....	52.40	52.20	51.40	51.23
24	.....	53.26	52.99	53.57	54.37	51.44	51.35	.....	52.25	52.24	51.39	50.96
25	.....	53.23	53.18	53.59	54.38	51.38	51.41	51.90	52.21	52.17	51.32	51.36
26	54.10	53.30	53.20	53.81	54.31	51.27	51.38	51.82	52.35	52.12	51.18	51.25
27	.....	53.24	53.22	53.83	54.34	51.40	.....	51.80	52.36	52.13	51.17	51.35
28	.....	53.15	53.06	53.67	54.22	51.24	51.54	51.82	52.34	52.24	51.17	51.35
29	.....	.....	53.02	53.48	54.10	51.16	51.74	52.00	52.35	52.12	51.37	51.22
30	.....	.....	53.21	53.69	54.22	51.20	51.83	52.09	52.33	52.31	51.19	51.20
31	.....	.....	53.22	.....	54.09	.....	51.79	52.28	.....	52.33	.....	51.27

(D-5-1)15bca 1. State claim 5061. Eugene Briggs. Records available: 1935-47, 1949. Mar. 17, +37.4; Dec. 15, +39.1.

(D-5-1)17adc 12. State claim 11174. H. C. Comer. Records available: 1936-49. Mar. 15, +35.1; Dec. 15, +35.9.

(D-5-1)17add 5. State claim 3628. M. S. Lott. Records available: 1935-49. Mar. 15, +26.7.

(D-5-1)20aba 1. State claim 6860. Jacob Cox. Records available: 1935-36, 1938-49. Mar. 17, +54.4; Dec. 15, +54.9.

(D-5-1)20aba 2. State claim 6861. Jacob C. Cox. Records available: 1935-49.

Water level at noon, from recorder charts

Day	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.
1	+33.5	+34.7	+35.3	+27.8	+27.7	+16.8	+16.3	+16.9	+21.9	....
2	33.5	34.5	35.4	27.7	27.8	17.4	16.3	16.7	21.4	....
3	33.8	34.7	35.2	26.8	27.9	16.8	16.5	16.8	21.4	....
4	34.0	34.8	34.9	26.7	28.0	16.2	16.5	17.3	22.4	+33.0
5	34.0	34.7	35.1	26.6	27.8	15.6	16.0	17.4	22.8	32.8
6	33.9	34.7	34.8	25.7	27.7	15.7	15.5	18.0	22.2	32.9
7	33.7	34.9	34.7	24.8	27.9	15.6	15.4	18.5	22.1	32.7
8	34.1	35.0	34.7	24.3	27.4	15.9	15.7	17.7	23.2	32.7
9	34.0	34.8	34.6	23.7	25.6	15.9	15.6	19.4	23.4	33.0
10	33.9	34.9	34.5	23.8	25.1	15.8	15.4	19.6	23.5	33.1
11	33.8	35.1	34.4	22.9	24.5	16.1	15.3	....	24.6	33.0
12	33.9	35.1	32.7	21.1	23.9	15.9	15.4	....	....	32.9
13	33.9	34.9	32.0	20.3	23.9	15.8	15.1	....	....	32.9
14	....	35.1	31.1	19.6	23.8	15.9	14.8	....	....	32.9
15	....	35.3	30.2	19.3	23.3	15.9	14.9	....	....	33.0

(D-5-1)20aba 2--Continued.

Water level at noon, from recorder charts										
Day	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.
16	35.2	29.8	19.1	21.9	15.9	15.0	....	....	....
17	34.9	29.7	21.5	21.6	15.8	15.3	....	....	....
18	34.9	29.7	23.7	21.4	16.4	15.0	....	....	....
19	34.9	29.7	24.8	21.2	16.7	14.8	....	....	....
20	34.6	29.7	25.4	21.1	16.6	14.5	....	....	....
21	34.9	29.7	26.1	20.7	16.7	14.4	....	....	....
22	35.1	29.7	27.0	19.9	16.3	14.3	....	....	....
23	35.0	29.7	27.5	19.2	16.1	14.5	....	....	....
24	35.0	29.7	28.5	18.3	16.2	15.8	....	....	32.8
25	35.2	29.7	27.7	18.5	16.3	17.8	....	....	33.0
26	35.1	29.7	27.5	17.1	16.4	19.1	....	....	32.8
27	35.0	29.7	27.8	17.2	16.5	19.1	....	....	32.9
28	35.0	28.3	27.2	17.0	16.3	18.5	20.2	....	32.8
29	35.2	28.1	26.8	16.7	16.3	18.0	....	....	32.7
30	35.4	27.8	26.8	17.0	16.1	17.9	20.8	....	32.6
31	35.3		26.9		15.9	17.0		....	32.5

(D-5-1)23dab 3. State claim 17054. City of American Fork. Records available: 1940-49. Flowing prior to measurements. Mar. 17, +25.8; Dec. 15, +26.0.

(D-5-2)18dcd 2. A. C. Christensen. Records available: 1940-49. Flowing prior to measurements. Mar. 17, +4.35; Dec. 15, +4.23.

(D-5-2)29dba 4. State claim 13150. Mark Richens. Records available: 1935-49. Flowing prior to measurements. Mar. 15, +18.2; Dec. 15, +19.1.

(D-6-2)3bdd 1. State claim 1651. Pioneer Pumping Co. Records available: 1937-47. No measurement made in 1949.

(D-6-2)10add 1. State claim 3123. City of Orem. Records available: 1940-49. Mar. 17, 42.33; Dec. 15, 41.51.

(D-6-2)16cbc 1. Frank Burningham. Records available: 1938-44, 1946-45. Flowing prior to measurement. Mar. 15, +3.64; Dec. 15, +4.60.

(D-6-2)18add 2. State application 11747. J. L. Larson. Records available: 1938-49. Mar. 17, +22.0; Dec. 15, +21.1.

(D-6-2)24dbd 1. Isaac Boyce. Records available: 1938-49. Mar. 17, 122.15; Dec. 16, 121.33.

(D-6-2)28bad 1. State claim 2087. Henry Williamson. Records available: 1935-49. Mar. 17, +15.3; Dec. 15, +15.2.

(D-7-2)12bcb 1. State claim 105. Provo City Corporation. Records available: 1935-48. No measurement made in 1949.

Utah County

South Utah Basin

(D-7-2)35ccd 1. Angus Hales. Records available: 1937-49. Flowing prior to measurement. Mar. 17, +6.8; Dec. 16, +6.5.

(D-7-2)36ccc 2. H. H. Spatford. Records available: 1938-49. Flowing prior to measurement. Mar. 17, +17.2; Dec. 16, +17.1.

(D-7-3)32bcc 1. State claim 8345. Drought Relief Administration. Records available: 1937-49. Mar. 17, +53.7; Dec. 16, +53.8.

(D-7-3)33baa 6. State claim 7006. A. W. Finley. Records available: 1936-49. Flowing prior to measurement. Mar. 17, +9.6; Dec. 16, +11.1.

(D-8-1)13aaa 1. State claim 14076. R. G. Francis. Records available: 1936-49. Flowing prior to measurement. Mar. 17, +16.3; Dec. 16, +15.9.

(D-8-1)25ccb 1. State claim 11790. F. S. Hiatt. Records available: 1938-49. Flowing prior to measurement. Mar. 17, +14.8; Dec. 16, +15.1

(D-8-2)4cba 2. State claim 10844. Mary Barney. Records available: 1937-49. Flowing prior to measurement. Mar. 17, +34.5; Dec. 16, +35.1.

(D-8-2)7ddd 1. State claim 10762. A. H. Beers. Records available: 1938-49. Flowing prior to measurement. Mar. 17, +18.1; Dec. 16, +17.4.

(D-8-2)23dbd 1. State claim 13201. Utah-Idaho Sugar Co. Records available: 1936-47. Measurement discontinued.

(D-8-2)29add 1. State application 11860. Reed Reynolds. Records available: 1940-49. Flowing prior to measurement. Mar. 17, +11.1; Dec. 16, +10.7.

(D-8-3)4cad 1. State application 11830. Springville Canning Co. Records available: 1935-49. Flowing prior to measurement. Mar. 17, +23.5; Dec. 16, +26.5.

(D-9-1)1cbc 2. State claim 8344. Drought Relief Administration. Records available: 1940-49. Mar. 17, 1.45; Dec. 16, 2.14.

(D-9-1)25add 1. State claim 8524. Federal Land Bank. Records available: 1938-42, 1946-49. Mar. 11, 1946, +6.2; Dec. 17, +6.1; Apr. 7, 1947, +4.8; Dec. 19, +8.0; Mar. 30, 1948, +5.2; Mar. 17, 1949, +4.8.

(D-9-2)5ddc 2. State claim 1139. Payson City Corp. Records available: 1935-49. Mar. 17, +15.3; Dec. 16, +16.9.

(D-9-2)1laaa 1. State claim 3364. Salt Lake & Utah Railroad Corp. Records available: 1935-49. Mar. 17, +43.7; Dec. 16, +43.3.

(D-9-2)18bcd 1. State claim 8357. Drought Relief Administration. Records available: 1940-49. Mar. 17, 4.63.

Wasatch County

Heber Valley

(D-2-5)20cc. Lee Bros. Records available: 1936-49. Measurement by Provo River Water Commissioner except on Jan. 12, June 23, and Dec. 6.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	27.25	May 5	24.56	July 4	25.90	Nov. 7	29.00
Mar. 4	25.30	June 2	25.80	Aug. 5	26.90	Dec. 2	27.10
Apr. 4	25.24	23	26.13	Sept. 29	26.94	6	27.24

(D-2-5)31ada 1. State claim 11234. Harry Morris. Records available: 1936-49. Measurement by Provo River Water Commissioner except on Jan. 12, Apr. 4, and Dec. 6.

Jan. 12	6.95	Apr. 4	4.54	July 4	3.05	Dec. 2	7.30
Feb. 1	6.00	May 5	7.14	Aug. 5	10.90	6	7.55
Mar. 4	5.20	June 2	1.10	Sept. 29	3.55		

(D-3-4)35bbc 1. State claims 8379 and 11260. Drought Relief Administration. Records available: 1938-49. Jan. 12, 3.30; Apr. 4, 2.30; Dec. 6, 3.51.

(D-3-5)29cac 1. Miles Clyde. Records available: 1936-49. Jan. 12, 8.38; Apr. 4, 6.99; June 24, 0.80; Dec. 6, 8.25

(D-4-4)12aaa 1. Hartley Carlisle. Records available: 1940-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	45.07	47.88	49.01	47.33	45.23	25.55	11.44	14.22	19.55	24.28	32.55	36.89
2	45.10	47.97	49.03	47.10	44.27	25.13	12.38	14.42	19.88	23.92	32.77	37.02
3	45.17	47.94	49.13	46.94	42.93	24.95	12.88	14.32	20.17	24.42	32.97	37.18
4	45.19	48.02	49.32	46.92	41.55	24.46	13.03	13.93	19.86	24.62	33.19	37.38
5	45.23	48.09	49.60	46.97	40.10	22.59	13.25	14.28	19.95	24.80	33.46	37.64
6	45.28	.....	.....	47.25	38.54	20.57	13.34	14.51	20.27	24.97	33.69	37.93
7	45.33	.....	.....	47.48	37.75	19.18	13.58	15.05	20.55	25.07	33.92	38.19
8	45.39	.....	.....	47.69	37.26	17.55	13.70	15.54	20.81	25.18	34.10	38.42
9	.....	48.45	.....	48.00	37.56	16.93	13.89	15.02	20.97	25.32	34.20	38.57
10	.....	.....	50.61	48.28	37.58	16.54	14.06	16.03	21.17	25.44	34.29	38.70
11	.....	.....	50.76	48.26	37.25	15.48	13.98	16.29	21.54	25.66	34.33	38.89
12	.....	.....	50.90	48.37	36.55	15.37	13.83	16.48	21.92	26.15	34.52	39.08
13	45.97	.....	51.03	48.51	35.83	15.50	13.39	16.67	22.23	26.49	34.79	39.24
14	46.03	.....	51.16	48.45	35.03	16.40	13.29	16.87	22.50	26.97	34.97	39.41
15	46.11	.....	51.27	48.17	34.12	16.13	13.37	16.83	22.81	27.35	35.14	39.55
16	46.22	48.90	51.33	48.11	33.02	15.75	12.92	16.62	23.08	27.75	35.30	39.70
17	46.33	48.72	51.35	48.54	32.77	15.25	12.67	16.57	23.29	28.16	35.33	39.88
18	46.43	48.47	51.26	48.27	32.21	15.47	12.77	16.07	23.53	28.53	35.49	40.06
19	46.51	48.51	51.05	48.17	31.35	15.59	12.69	16.16	23.67	28.90	35.69	40.16
20	46.63	48.83	50.62	47.54	30.81	15.14	13.56	15.98	23.76	29.32	35.94	40.37
21	46.72	49.09	50.20	47.46	29.40	15.00	14.15	16.04	23.82	29.67	36.03	40.57
22	46.81	48.83	49.78	47.58	28.20	14.71	14.53	16.27	23.93	29.97	36.21	40.80
23	46.90	48.52	49.36	47.50	27.07	14.15	14.81	16.51	24.04	30.28	36.20	41.02
24	.....	48.37	49.07	47.00	26.47	13.28	15.06	16.62	24.23	30.57	36.23	41.22
25	.....	48.33	48.89	46.24	26.23	11.98	15.18	17.37	24.32	30.85	36.31	41.43
26	.....	48.37	48.75	46.50	25.10	11.04	15.27	17.87	24.47	31.11	36.35	41.62
27	47.42	48.46	48.49	46.80	25.57	11.22	15.23	18.15	24.67	31.34	36.43	41.82
28	47.52	48.83	48.20	46.76	25.93	10.98	15.08	18.48	24.57	31.60	36.53	42.01
29	47.62	.....	47.97	46.51	26.10	11.16	14.94	18.73	24.73	31.84	36.65	42.21
30	47.71	.....	47.80	45.99	26.03	10.78	14.72	18.94	25.00	32.09	36.76	42.35
31	47.77	.....	47.63	.....	25.70	.....	14.23	19.24	.....	32.33	.....	42.56

(D-4-4)14abb 1. Charlotte Brown. Records available: 1915-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.03	.....	19.19	15.98	13.95	3.26	2.57	6.53	9.72	13.01	15.57	16.74
2	18.05	18.70	19.20	16.20	14.22	3.14	2.63	6.82	8.76	12.98	15.63	16.77
3	18.07	.....	19.23	16.43	14.50	3.17	2.25	6.69	9.32	12.96	15.68	16.78
4	18.08	.....	19.23	16.63	14.58	2.83	2.22	6.10	9.77	12.98	15.74	16.81
5	18.09	.....	19.22	16.82	13.54	3.12	2.14	6.36	9.27	13.05	.....	16.83
6	18.15	.....	19.23	16.98	13.47	2.35	2.13	6.62	9.24	13.22	.....	16.86
7	18.16	.....	19.21	17.13	13.28	2.68	2.56	6.70	8.47	13.33	.....	16.87
8	18.19	.....	19.22	17.24	13.34	2.44	2.72	6.47	9.84	13.42	.....	16.89
9	18.23	18.90	19.20	17.37	13.23	2.87	1.93	6.89	10.61	13.46	.....	16.92
10	18.16	18.93	19.21	17.44	.....	2.88	1.34	7.18	11.27	13.52	16.03	16.93
11	18.20	18.94	19.18	17.47	10.16	2.88	2.39	7.35	11.70	13.62	16.03	16.94
12	18.23	18.96	19.16	17.38	10.50	2.47	2.69	7.53	11.87	13.78	16.03	16.94
13	18.37	18.97	19.10	17.31	10.68	3.01	3.00	7.66	12.12	13.91	16.03	16.95
14	.....	18.99	19.02	17.27	10.61	3.17	3.10	7.85	12.32	14.06	16.03	16.98
15	.....	19.01	18.90	17.19	10.46	2.90	2.61	7.92	12.42	14.14	16.03	17.03
16	.....	19.02	18.72	17.12	9.99	2.92	3.42	9.97	12.48	14.22	16.07	17.07
17	.....	19.06	18.50	17.02	9.98	3.08	3.25	7.73	12.53	14.31	16.11	17.10
18	.....	19.08	18.07	17.01	9.45	3.04	2.90	7.61	12.60	14.41	16.14	17.15
19	18.50	19.10	17.60	16.97	9.07	1.43	3.58	8.24	12.67	14.48	16.18	17.17
20	18.52	19.12	17.02	16.92	7.32	2.26	4.09	8.63	12.74	14.57	16.23	17.19
21	18.54	19.13	16.24	16.91	6.77	2.31	4.47	8.88	12.79	14.68	16.30	17.20
22	18.57	19.14	15.22	16.78	6.69	1.93	4.76	9.16	12.84	14.77	16.35	.....
23	18.59	19.15	14.68	16.89	6.53	2.11	5.04	9.39	12.90	14.85	16.40	.....
24	18.60	19.15	14.58	16.93	6.48	2.29	5.08	9.31	12.92	14.93	16.45	.....
25	18.63	19.15	14.64	16.96	6.43	1.87	4.76	8.97	12.92	15.01	16.52	.....
26	18.64	19.17	14.81	16.89	5.91	1.90	5.02	9.18	12.98	15.08	16.58	.....
27	18.70	19.17	14.96	15.38	5.74	2.52	5.24	9.18	13.04	15.18	16.63	.....
28	.....	19.17	15.13	15.81	5.62	2.81	5.45	9.29	13.04	15.27	16.68	.....
29	.....	.....	15.32	12.80	5.34	.....	5.22	9.61	13.12	15.36	16.71	17.19
30	.....	.....	15.54	13.88	6.66	2.29	5.93	9.79	13.07	15.43	16.71	17.19
31	.....	.....	15.78	.....	3.00	.....	6.22	9.75	.....	15.50	.....	17.20

(D-4-4)14ccc 1. D. R. A. Charleston. Records available: 1935-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	Aug.	Sept.	Oct.	Nov.	Dec.
1	+0.83	0.03	0.76	+0.65	+3.72	.....	+7.27	+4.97	+4.30	+3.43
2	+ .80	.03	.83	+ .68	+3.89	.....	+7.12	+4.96	+4.25	+3.43
3	+ .70	.06	.85	+ .67	+4.00	.....	+7.01	+4.93	+4.20	+3.37
4	+ .63	.10	.85	+ .67	+4.16	.....	+6.88	+4.94	+4.17	+3.36
5	+ .56	.12	.85	+ .73	+4.31	.....	+6.62	+4.99	+4.13	+3.38
6	+ .53	.15	.88	+ .78	+4.52	.....	+6.48	+4.98	+4.09	+3.36
7	+ .58	.12	.83	.....	+4.62	.....	+6.38	+5.01	+4.09	+3.34
8	+ .46	...	.84	.....	+4.99	.....	+6.28	+5.02	+4.06	+3.30
9	+ .51	...	.87	.....	+5.23	.....	+6.22	+5.05	+4.02	+3.31
10	+ .47	.23	.86	.....	+5.53	.....	+6.13	+5.07	+4.05	+3.33
11	+ .39	.13	.83	.....	+5.90	.....	+6.03	+5.04	+4.03	+3.17
12	+ .40	.19	.82	.....	+6.27	.....	+5.92	+5.08	+4.05	+3.07
13	+ .41	.30	.84	+1.19	+6.69	.....	+5.88	+5.06	+4.06	+3.06
14	+ .38	.29	.85	+1.19	+7.10	.....	+5.88	+5.02	+4.05	+3.04
15	+ .33	.28	.80	+1.26	+7.33	.....	+5.91	+5.01	+4.02	+3.07
16	+ .24	.34	.74	+1.40	+7.74	.....	+5.93	+4.99	+3.97	+3.08
17	+ .24	.43	.73	+1.57	+8.11	.....	+5.84	+4.97	+3.95	+3.02
18	+ .22	.44	.62	+1.71	+8.38	.....	+5.57	+4.94	+3.95	+3.02
19	+ .22	.47	.46	+1.83	.....	.....	+5.55	+4.92	+3.94	+3.04
20	+ .22	.51	.33	+1.94	.....	+8.40	+5.52	+4.88	+3.89	+2.95
21	+ .18	.58	.24	+2.04	.....	+8.13	+5.45	+4.83	+3.83	+2.89
22	+ .20	.58	.03	+2.17	.....	+8.01	+5.38	+4.79	+3.76	+2.87
23	+ .21	.60	+1.11	+2.37	.....	+7.90	+5.33	+4.77	+3.72	+2.87
24	.....	.63	+1.14	+2.56	.....	+7.83	+5.30	+4.72	+3.68	+2.86
25	.....	.67	+1.26	+2.69	.....	+7.76	+5.27	+4.65	+3.66	+2.74
26	.....	.72	+1.32	+2.84	.....	+7.70	+5.20	+4.65	+3.63	+2.75
27	+ .06	.75	+1.44	+2.95	.....	+7.65	+5.15	+4.58	+3.59	+2.69
28	.02	.76	+1.51	+3.12	.....	+7.57	+5.10	+4.51	+3.54	+2.66
29	.05		+1.55	+3.35	.....	+7.47	+5.05	+4.48	+3.46	+2.62
30	.02		+1.57	+3.51	.....	+7.42	+5.01	+4.39	+3.48	+2.63
31	.02		+1.60					+4.34		+2.59

Washington County

Escalante Valley

(For other wells in this valley see Beaver, Iron, and Millard Counties.)

(C-37-16)6ccc 1. State applications a-2298. LeRoy Adams. Irrigation well, diameter 14 inches, depth 200 feet. Records available: 1945, 1947-49.

Date	Water level	Date	Water level	Date	Water level
Aug. 25, 1945	79.80	Dec. 8, 1948	93.35	Aug. 27, 1949	all 14.75
Sept. 14, 1947	83.22	Apr. 22, 1949	90.75	Sept. 30	91.80
Dec. 8	81.57	July 12	al 09.80	Dec. 13	86.51
Mar. 12, 1948	82.32				

a Pumping.

(C-37-17)1ccc 1. State application 15465. Heber Truman. Irrigation well, diameter 16 inches, depth 438 feet. Records available: 1945, 1947-49.

May 4, 1945	41.80	July 31, 1948	57.20	June 30, 1949	51.80
Mar. 21, 1947	37.50	Aug. 31	59.30	July 29	56.70
Sept. 12	43.90	Sept. 30	59.70	Aug. 23	53.88
Dec. 8	45.06	Oct. 30	59.60	Sept. 1	54.00
Mar. 11, 1948	47.00	Nov. 30	59.59	22	53.49
Apr. 30	a55.20	Dec. 7	57.60	Oct. 31	52.10
June 1	53.20	Apr. 22, 1949	48.20	Nov. 30	51.50
July 1	a55.73	May 31	57.00	Dec. 11	51.42

a Pump off 10 minutes prior to measurement.

(C-37-17)12cbc 1. Charles Sides. Records available: 1941-49. Apr. 22, 25.95; July 14, 36.50; Aug. 23, 40.4, pumping; Sept. 23, 31.03; Dec. 13, 30.45.

(C-37-17)14adc 1. J. C. Bosshardt. 1941-49. Apr. 22, 38.86; Aug. 23, 35.78; Sept. 24, 38.00.

(C-37-17)16cbb 1. State application 14146. J. W. Holt. Records available: 1941-48. No measurement made in 1949.

Washington County

Virgin River Valley

(C-41-13)7dba 1. Clair Sterling. Irrigation well, diameter 12 inches, depth 98 feet. Records available: 1947-49. Mar. 24, 1947, 5.82; Dec. 9, 1947, 2.84; Mar. 15, 1948, 3.41; July 17, 1948, 2.50; Dec. 9, 1948, 4.96; Apr. 2, 1949, 3.17; Dec. 8, 2.83.

(C-42-11)3ac. Drought Relief Administration. Records available: 1934-49. Apr. 2, 18.63; Dec. 9, 18.69.

(C-42-16)17adb 2. Gates Service Station. Irrigation domestic well, diameter 6 inches, depth 60 feet. Records available: 1948-49. Mar. 15, 1948, 8.12; Dec. 9, 1948, 8.50; Apr. 2, 1949, 8.06; Dec. 8, 1949, 8.40.

(C-42-16)22cba 1. State application 18001. Clyde Graff. Irrigation well, diameter 16 inches, depth 92 feet. Records available: 1947-49. Mar. 24, 1947, 21.11; Dec. 9, 1947, 21.16; Mar. 15, 1948, 20.84; Dec. 9, 1948, 21.62; Apr. 2, 1949, 21.33; Dec. 8, 1949, 20.29.

Wayne County

Fremont Valley

(D-27-2)25bd. State claim 7164. S. E. Tanner. Records available: 1936-49. Flowing prior to measurement. Dec. 10, +10.8.

(D-28-2)21dbb 1. State application 13875. Hyrum DeLeeuw. Stock and domestic well, diameter 6 inches, depth 97 feet. Records available: 1948-49. Dec. 11, 1948, 70.15; Dec. 10, 1949, 69.44.

(D-28-4)36cdb 1. V. A. Lee. Records available: 1936-49. Dec. 10, 14.59.

(D-29-4)6bbd 1. State application 19179. Reed Maxfield. Stock and domestic well, diameter 6 inches, depth 91 feet. Records available: 1948-49. Dec. 11, 1948, 17.57; Dec. 10, 1949, 17.48.

(D-29-4)15cbd 1. W. P. Coleman. Records available: 1936-48. No measurement made in 1949.

Weber County

East Shore Area

(For other wells in this area see Davis and Box Elder Counties.)

(B-5-1)5daa 1. Ogden City. Records available: 1943-49. Feb. 28, 73.75; May 6, 72.63; Nov. 30, 73.26; Dec. 20, 73.18.

(B-5-2)1ddd 1. Ogden City Corp. Records available: 1945-48. Measurement discontinued.

(B-5-2)1ddd 2. State application 16483. Ogden City Corp. Records available: 1946-49. Dec. 20, 147.60.

(B-5-2)4aaa 2. State claim 5523. Florian Prevedel. Records available: 1944-49.

(B-5-2)4aaa 2--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 16	+3.92	Apr. 18	+3.9	May 20	+4.7	June 21	+4.5
25	+4.0	24	+4.3	June 4	+4.4	28	+4.2
Apr. 2	+3.9	29	+4.4	15	+4.4	July 3	+3.9
10	+4.1	May 8	+4.41				

(B-5-2)4add 1. State claim 715. James R. Rawson. Records available: 1945-49. Flowing prior to measurement. Mar. 16, +2.55; Dec. 19, +2.64.

(B-5-2)4cdd 1. State application 11889. Donas Ward. Records available: 1936-49. Flowing prior to measurement. Mar. 16, +34.2; May 6, +33.2; June 24, +32.7; July 29, +31.5; Aug. 25, +30.2; Sept. 30, +32.0; Dec. 19, +33.4.

(B-5-2)6bdd 1. J. Virgil Stoddard. Records available: 1944-49. Flowing prior to measurement. Mar. 16, +19.0; May 6, +19.0; Dec. 19, +17.7.

(B-5-2)9baa. State application 14996. Lawrence Mayberry. Records available: 1945-49. Flowing prior to measurement.

Mar. 16	+19.0	June 24	+20.0	Aug. 25	+17.9	Oct. 31	+17.5
May 6	+20.0	July 29	+19.3	Sept. 30	+18.0	Dec. 19	+17.8

(B-5-2)9baa 1. State claim 15032. Kanesville Latter Day Saints Ward. Records available: 1944-49. Destroyed, measurement discontinued after Aug. 25. Mar. 16, +4.0, flowing prior to measurement; May 6, +4.65, flowing prior to measurement; June 24, +4.61; July 29, +1.50; Aug. 25, +0.07.

(B-5-3)13ddc 1. State claim 1298. J. D. Hooper. Records available: 1937-49. Mar. 16, +33.4; Dec. 19, +33.5.

(B-5-3)15dda 1. State application 11790. T. W. Read. Records available: 1936-49. Flowing prior to measurement. Mar. 16, +43.1; Dec. 19, +43.6.

(B-6-1)4ada 1. State claim 17890. A. M. Gardner. Records available: 1943-49. Flowing prior to measurement. Mar. 17, +12.1; Dec. 20, +15.6.

(B-6-1)6caa 1. State claim 595. Martin Harris. Records available: 1943-49. Mar. 17, +45.8; July 29, +47.8; Dec. 20, +49.6.

(B-6-1)8acb 1. L. W. Winkler and Carl Nielson. Records available: 1938-49. Mar. 17, 4.76; May 6, 4.02; Dec. 20, 4.47.

(B-6-1)8bdd 16. State claim 5438. S. T. Bybee. Records available: 1937-49. Mar. 17, +9.0; May 6, +10.3; July 29, +7.30. Flowing prior to measurement.

(B-6-1)21add 1. State claim 8389. Drought Relief Administration. Records available: 1938-49. Mar. 16, 47.80; July 29, 47.57; Dec. 20, 47.27.

(B-6-1)29abb 1. State application 13003. Becker Products Co. Records available: 1943-49.

Water level at noon, from recorder charts

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+15.4	+17.2	+17.1	+17.2	+15.7	+14.8	+12.7	+14.1	+15.5	+15.9
2	15.4	17.5	17.2	17.2	15.8	14.2	12.6	14.3	15.5	15.9
3	15.4	17.9	17.1	17.2	15.9	14.2	12.1	14.7	15.5	15.9
4	15.4	18.0	17.0	17.3	16.1	14.0	12.7	14.7	15.4	16.0
5	15.4	18.0	17.0	17.7	16.3	14.3	13.1	14.7	15.5	16.2
6	15.4	18.1	16.9	17.8	16.4	14.2	13.0	14.7	15.6	16.1
7	15.5	18.2	17.1	17.5	16.1	....	12.7	14.7	15.8	16.1
8	15.6	18.1	17.1	16.9	15.8	....	12.3	14.7	15.8	16.1
9	15.6	18.1	17.1	16.2	15.8	14.0	12.5	14.7	15.7	16.1
10	15.7	18.2	17.0	15.9	16.1	13.8	12.8	14.8	15.8	16.1

(B-6-1)29abb 1--Continued.

Water level at noon, from recorder charts

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	15.7	18.3	16.7	16.6	16.0	13.7	13.1	14.7	15.7	15.9
12	15.7	17.3	16.7	17.0	15.6	13.6	....	14.8	15.7	15.9
13	15.7	16.7	16.8	17.1	15.1	13.7	13.4	14.9	15.8	15.9
14	15.7	16.6	16.9	17.1	15.0	14.1	13.7	14.8	15.9	15.9
15	15.8	16.6	16.9	16.3	14.9	14.0	13.3	14.9	15.8	15.9
16	15.8	16.7	16.9	16.1	15.3	13.8	13.8	15.1	15.7	16.1
17	15.6	16.8	17.3	15.9	15.9	13.7	14.0	15.3	15.8	16.0
18	15.7	16.8	17.3	16.0	15.8	13.1	13.8	15.3	15.7	16.0
19	15.8	16.7	17.4	16.3	....	12.8	....	15.2	15.8	16.0
20	15.8	16.7	17.4	16.4	....	12.5	13.8	15.3	15.9	15.9
21	15.7	16.7	17.5	16.9	....	13.0	13.8	15.2	15.9	16.0
22	15.8	16.7	17.8	16.8	....	13.7	13.9	15.3	15.9	15.8
23	15.9	16.9	17.5	16.5	....	13.9	14.0	15.4	15.8	15.9
24	15.9	17.0	17.5	16.1	....	13.6	14.1	15.5	15.9	15.9
25	15.9	16.9	17.5	15.9	....	13.7	14.0	15.3	16.0	15.7
26	15.9	17.0	17.6	16.1	15.7	13.3	....	15.2	16.0	16.0
27	15.9	17.0	17.7	16.3	15.2	13.5	14.1	15.3	16.1	15.9
28	15.9	17.1	17.8	16.4	14.9	13.7	14.2	15.3	16.1	15.8
29	16.0	17.0	17.9	16.0	15.0	13.8	14.1	15.4	15.9	15.9
30	16.5	17.0	18.0	15.8	14.9	13.8	14.1	15.5	15.9	15.8
31	16.7		17.3		14.8	13.0		15.6		15.8

(B-6-1)29ccc. Ogden Union Railroad & Depot Co. Records available: 1943-49.

Water level at noon, from recorder charts

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	+14.5	+15.3	....	....	+14.4	+12.8	+11.6	+13.4	+14.4	+14.7
2	14.6	15.4	....	....	14.4	12.3	11.2	13.7	14.8	15.0
3	14.6	15.4	....	....	14.7	12.0	11.1	13.6	13.8	15.1
4	14.5	15.4	....	....	14.9	11.9	12.1	13.7	13.8	15.2
5	14.6	15.5	....	....	15.0	11.8	12.5	13.6	14.2	15.3
6	14.5	15.6	....	....	15.0	13.2	12.6	13.6	14.5	15.2
7	14.6	15.6	....	....	14.7	13.6	12.2	13.5	14.4	15.0
8	14.8	....	....	....	14.7	13.7	11.5	13.6	14.3	14.6
9	14.8	....	....	....	14.7	13.4	11.6	13.8	14.4	15.0
10	14.7	....	+15.0	....	14.7	13.1	11.9	13.6	14.5	15.0
11	15.0	....	14.9	....	14.4	12.8	12.5	13.7	14.3	14.7
12	14.8	....	14.7	....	15.1	12.7	12.4	13.7	14.6	14.4
13	14.8	....	....	....	15.1	12.8	12.5	13.5	14.8	14.7
14	14.8	....	....	....	15.3	13.4	12.7	13.6	14.5	14.7
15	15.1	....	....	....	15.3	13.2	12.8	13.8	14.5	14.6
16	15.2	....	....	....	15.4	12.9	12.7	14.2	14.5	14.6
17	14.9	....	....	....	15.5	12.7	12.5	14.0	14.3	14.9
18	15.0	....	....	....	15.7	11.9	12.9	14.0	14.4	14.8
19	15.1	....	....	....	13.6	11.6	12.9	13.9	15.0	14.7
20	15.0	....	....	....	13.3	11.4	13.0	13.7	15.0	14.8
21	15.0	....	....	....	13.3	12.0	13.0	13.7	14.8	14.6
22	15.1	....	....	....	13.4	12.1	13.2	14.2	14.8	14.5
23	15.0	....	....	....	13.6	12.0	13.0	14.2	14.8	14.7
24	14.8	....	....	+14.7	13.9	12.3	13.3	14.1	14.9	14.8
25	15.1	....	....	14.9	13.8	12.4	13.5	14.3	15.0	14.4
26	15.1	....	....	14.9	13.6	12.6	13.3	14.2	15.3	14.4
27	15.0	....	....	15.1	13.2	12.7	13.4	14.1	15.4	14.6
28	15.1	....	....	15.2	12.9	13.2	13.3	14.2	15.1	14.6
29	15.2	....	....	15.3	12.6	13.1	13.3	14.5	15.1	14.5
30	15.3	....	....	14.8	12.5	13.0	13.2	14.6	14.9	14.6
31	15.2	....	....		12.9	12.0		14.3		14.6

(B-6-1)30caa 1. State claim 1030. California Packing Corp. Records available: 1943-49.

Water level at noon, from recorder charts

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.28	30.17	30.11	29.60	29.44	28.88	29.05	30.73	31.47	31.79	30.54	29.89
2	30.22	30.15	30.09	29.55	29.38	28.88	29.09	30.76	31.48	31.79	30.52	29.85
3	30.28	30.12	30.07	29.64	29.35	28.87	29.13	30.78	31.52	31.78	30.48	29.86
4	30.32	30.12	30.04	29.67	29.35	28.86	29.18	30.80	31.55	31.77	30.44	29.86
5	.....	30.05	30.02	29.65	29.36	28.87	29.21	30.85	31.57	31.70	30.43	29.79
6	.....	30.05	30.04	29.63	29.37	28.86	29.23	30.93	31.59	31.72	30.41	29.78
7	30.30	29.95	29.97	29.57	29.32	28.85	29.27	30.97	31.62	31.66	30.31	29.76
8	.....	30.01	29.94	29.56	29.30	28.84	29.33	30.99	31.63	31.67	30.24	29.74
9	.....	30.21	29.95	29.61	29.31	28.85	29.44	30.99	31.63	31.67	30.19	29.72
10	.....	30.21	29.91	29.62	29.31	28.86	29.48	31.03	31.63	31.65	30.12	29.61
11	.....	30.08	29.86	29.60	.....	28.87	29.50	31.06	31.65	31.69	30.17	29.68
12	.....	30.11	29.90	29.53	.....	28.86	29.53	31.13	31.73	31.67	30.22	29.78
13	.....	30.21	29.92	29.54	.....	28.85	29.60	31.16	31.74	31.60	30.20	29.80
14	30.25	30.19	29.91	29.58	29.43	28.90	29.74	31.18	31.74	31.58	30.15	29.81
15	30.26	30.14	29.87	29.64	29.36	28.90	29.84	31.24	31.73	31.48	30.11	29.77
16	30.34	30.21	29.82	29.58	29.28	28.86	29.90	31.29	31.71	31.40	30.11	29.69
17	30.32	30.20	29.86	29.60	29.12	28.92	29.98	31.31	31.78	31.30	30.10	29.68
18	30.31	30.18	29.85	29.57	29.10	28.91	30.00	31.33	31.83	31.19	30.07	29.66
19	30.26	30.15	29.74	29.59	29.06	28.91	30.05	31.37	31.82	31.11	30.04	29.60
20	30.23	30.16	29.79	29.56	28.96	28.93	30.10	31.43	31.80	31.08	31.03	29.65
21	30.21	30.18	29.78	29.58	28.94	28.93	30.16	31.45	31.82	31.05	30.02	29.70
22	30.16	30.18	29.67	29.58	28.92	28.93	30.19	31.44	31.81	31.02	30.00	29.74
23	30.10	30.15	29.55	29.57	28.93	38.91	30.28	31.44	31.77	30.96	29.99	29.72
24	30.17	30.12	29.57	29.56	28.95	28.91	30.32	31.43	31.78	30.92	29.99	29.62
25	30.22	30.12	29.55	29.53	28.94	28.92	30.38	31.41	31.78	30.85	29.97	29.72
26	30.20	30.13	29.60	29.53	28.92	28.91	30.39	31.42	31.82	30.80	29.92	29.70
27	30.19	30.12	29.58	29.53	28.92	28.94	30.40	31.42	31.84	30.77	29.91	29.72
28	30.22	30.09	29.54	.....	28.91	28.93	30.45	31.41	31.83	30.76	29.90	27.73
29	30.22	.....	29.53	.....	28.89	28.94	30.53	31.44	31.79	30.63	29.93	29.71
30	30.19	.....	29.56	.....	28.93	29.01	30.59	31.45	31.79	30.64	29.88	29.70
31	30.18	.....	29.58	.....	28.92	.....	30.68	31.45	.....	30.60	.....	29.72

(B-6-1)30bcb 2. American Packing & Provision Co. Records available: 1937-49. Mar. 16, +7.4.

(B-6-2)8abd 1. State claim 2471. West Weber Cemetery. Records available: 1937-49. Dec. 19, +15.8, flowing prior to measurement.

(B-6-2)1lldad 1. State claim 5613. Jerome Wheeler. Records available: 1937-49. Flowing prior to measurement. Mar. 17, +22.6; June 29, +23.4; Sept. 30, 23.2.

(B-6-2)12aab 3. State application 13028. Weber County school district. Records available: 1943-49. Mar. 17, +13.6.

(B-6-2)22dcd 1. Francis Patterson. Records available: 1937-49. Mar. 16, +0.05; May 6, +0.47; Dec. 19, +0.50.

(B-6-2)25ccc 1. State claim 15111. G. E. Stratford. Records available: 1937-48. Measurement discontinued.

(B-6-2)26ada 1. State claim 1196. Amalgamated Sugar Co. Records available: 1936-49. Mar. 16, +10.1.

(B-6-3)26bbb 1. State claim 7505. Mrs. F. G. Kelley. Records available: 1935-49. Mar. 16, +25.7; Dec. 19, +27.0.

(B-7-1)32ada 1. State claim 14931. Joseph Folkman. Records available: 1935-49. Apr. 17, +14.6; Dec. 20, +12.2.

(B-7-1)33baa 5. State claim 16832. J. P. Spackman. Records available: 1943-49. Mar. 17, +17.4; May 6, +18.4; Dec. 20, +27.9.

(B-7-2)21dc. Annie Maw. Records available: 1936-49. Flowing prior to measurement. Mar. 17, +3.32; Dec. 19, +3.20.

(B-7-2)32aca 1. State application 15170. Dean Baker. Records available: 1945-49. Flowing prior to measurements. Mar. 17, +34.6; May 6, +35.3; Dec. 19, +36.8.

(B-7-2)32dab 1. State claim 15095. Marie Olsen. Records available: 1937-49. Mar. 17, +32.7; Dec. 19, +32.1.

(B-7-2)36cdd 1. State application 14082. J. D. Brown. Records available: 1943-49. Flowing prior to measurement. Mar. 17, 37.7; May 6, 34.2; July 29, 32.2; Sept. 30, 37.5; Dec. 20, 37.8.

(B-7-3)35daa 1. State claim 5489. Neal Wayment. Records available: 1936-49. Flowing prior to measurement. Mar. 17, +10.0; Dec. 19, +9.9.

Weber County

Ogden Valley

(A-6-1)11dc. U. S. Bureau of Reclamation. Records available: 1936-49. Oct. 31, 28.74.

Water level at noon, from recorder charts

Day	Mar.	Apr.	May	June	July	Aug.	Nov.	Dec.
1	.....	31.78	18.04	12.01	23.09	24.82	28.78	27.86
2	.....	32.22	17.25	12.20	23.60	25.12	28.77	27.66
3	.....	32.44	16.71	12.12	.....	25.27	28.73	26.76
4	.....	32.65	16.73	12.05	.....	25.43	28.70	26.57
5	.....	33.98	.....	12.00	16.23	25.59	28.68	26.44
6	.....	33.94	.....	11.98	15.84	27.16	28.66	26.47
7	.....	33.70	.....	11.96	20.63	27.53	28.63	26.49
8	.....	33.35	15.14	13.93	21.88	27.74	28.59	26.49
9	.....	32.27	15.05	16.01	.....	.....	28.59	26.65
10	.....	31.27	15.87	16.36	.....	.....	28.59	26.72
11	.....	30.67	15.95	16.46	.....	.....	28.44	26.72
12	.....	29.43	15.96	16.41	22.05	.....	28.44	26.74
13	.....	28.93	16.06	15.36	22.39	.....	28.44	26.77
14	.....	28.47	16.30	15.37	22.58	.....	28.40	27.33
15	.....	28.03	14.69	16.39	.....	.....	28.35	28.03
16	.....	27.64	13.61	18.42	.....	.....	28.35	28.31
17	.....	27.20	13.49	20.70	.....	.....	28.35	28.48
18	.....	28.68	13.28	21.43	.....	.....	28.35	28.62
19	.....	28.58	13.20	.....	21.30	.....	30.21	28.73
20	.....	28.37	13.11	.....	21.41	.....	30.59	.....
21	.....	28.35	12.27	15.40	21.55	.....	30.73	.....
22	31.22	28.34	11.27	16.20	21.70	.....	30.78	.....
23	30.80	28.32	11.30	18.59	21.88	.....	30.82	.....
24	30.59	28.22	11.22	19.09	22.03	.....	30.82	.....
25	30.61	27.38	11.10	19.33	22.15	.....	30.82	.....
26	30.70	19.45	11.03	19.00	22.22	.....	30.84	.....
27	30.84	19.18	11.23	.....	22.35	.....	29.43	.....
28	30.92	19.60	11.90	15.55	22.53	.....	29.04	.....
29	31.12	20.64	12.11	18.71	22.71	.....	28.94	.....
30	31.25	20.11	12.18	22.04	24.20	.....	28.90	.....
31	31.36	.....	12.16	.....	24.64	.....	.....	.....

(A-6-1)12aa 1. City of Ogden. Records available: 1936-49. Jan. 1, 5.48; Jan. 2, 5.45.

Water level at noon, from recorder charts

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.62	+3.34	+8.59	+6.99	+2.26	2.16	3.40	1.84	1.63
2	2.62	+4.07	.....	.....	+2.10	2.39	3.14	1.84	1.57
3	2.64	+4.52	.....	.....	+1.95	2.55	2.96	1.83	1.45
4	2.75	+5.00	.....	.....	+1.80	2.64	2.80	1.80	1.44
5	2.63	+5.50	.....	+6.61	+1.65	2.71	2.66	1.79	1.35
6	2.67	.....	.....	+6.67	+1.40	2.78	2.66	1.73	1.35
7	2.57	.....	+8.89	+6.26	+1.14	....	2.66	1.68	1.37

(A-6-1)12aa 1--Continued.

Water level at noon, from recorder charts

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
8	....	2.45	.....	+8.67	+5.78	+ .95	....	2.76	1.63	1.38
9	....	2.34	.....	+8.36	+5.50	+ .85	....	2.92	1.61	1.37
10	....	2.19	+7.23	+8.08	+5.47	+ .75	....	2.84	1.58	1.31
11	....	2.03	+7.40	.....	+5.52	+ .61	....	2.76	1.57	1.32
12	....	1.82	+7.47	.....	+5.27	+ .49	....	2.71	1.56	1.33
13	....	1.76	+7.58	.....	+5.08	+ .35	....	2.42	1.54	1.50
14	....	1.68	+7.41	+8.15	+4.91	+ .21	....	2.19	1.51	1.53
15	5.37	1.62	+7.45	+8.07	+4.88	+ .03	....	2.13	1.46	1.56
16	5.22	1.51	+7.74	+7.90	+4.88	.17	....	2.16	1.49	1.59
17	5.74	1.43	+8.16	+7.72	+4.76	.31	....	2.13	1.49	1.65
18	4.97	1.46	+8.38	+7.61	+4.61	.59	....	2.04	1.49	1.62
19	4.86	1.56	+8.43	.....	+4.44	.83	....	2.07	1.56	1.64
20	4.26	1.44	.....	.....	+4.32	1.07	4.00	2.08	1.70	1.90
21	3.94	1.16	.....	+7.90	+4.15	1.23	4.07	1.99	1.78	1.92
22	3.74	.92	.....	+7.98	+4.01	1.30	4.12	1.95	1.80	2.02
23	3.28	.13	.....	+7.73	.....	2.40	4.14	1.87	1.84	2.02
24	3.74	+ .53	+8.44	+7.47	.....	1.21	4.14	1.84	1.84	2.03
25	3.04	+1.02	+8.52	+7.34	.....	.91	4.14	1.82	1.86	2.05
26	2.96	+1.36	+8.62	+7.23	+3.38	.86	4.14	1.82	1.86	2.10
27	2.85	+1.58	+8.68	+7.45	+3.23	.89	4.17	1.80	1.76	....
28	2.75	+1.76	+8.69	+7.55	+3.17	.97	4.15	1.81	1.67	....
29	2.65	+2.07	+8.62	+7.19	+2.94	1.09	4.12	1.81	1.69	....
30	2.66	+2.60	+8.53	+7.07	+2.73	1.47	3.87	1.83	1.65	....
31	2.64		+8.49		+2.48	1.88		1.83		....

WASHINGTON

By F. A. Watkins, Jr.

SCOPE OF WATER-LEVEL PROGRAM

The program of measurements of water levels in observation wells in Washington, and also in wells observed in connection with the several projects involved in a general inventory of the water resources of the State, was continued in cooperation with the State Department of Conservation and Development and, in the Columbia Basin area, with the United States Bureau of Reclamation. Field work was begun in Clark, Grant, and Kitsap Counties and a preliminary investigation of ground-water resources was made in Skagit County. Work was continued in Walla Walla County and a ground-water report on western Whatcom County was completed.

About 1,080 measurements were made in 104 wells. One recording gage and 13 nonrecording gages were maintained throughout the year.

FLUCTUATIONS OF WATER LEVELS

The first of the two following tables shows seasonal distribution of precipitation at two representative stations in the State for 50 years of record, by average for each month in inches and the ratio of the average monthly to the average annual, in percent; also the ratio of monthly rainfall in 1948-49 to the average annual rainfall. Records at the Olympia station are given to represent western Washington and the Waterville station for eastern Washington. The second table shows precipitation in inches for the water year ending September 30, 1949, at 13 representative stations in the State; and also the ratio of the 1948-49 rainfall to a 50-year average (1891-1940) for each of these stations, in percent. Precipitation ranged from 74.3 percent of normal at Walla Walla to 106.3 percent at Port Angeles. The above information was obtained from records of the U. S. Weather Bureau.

TABLE I

	Rainfall at Olympia			Rainfall at Waterville		
	50-year average		1948-49	50-year average		1948-49
Month	Inches	Percent	Percent	Inches	Percent	Percent
Oct.	4.32	8.2	7.8	0.73	6.6	5.6
Nov.	8.47	16.1	17.8	1.43	12.9	13.4
Dec.	9.37	17.8	22.3	1.72	15.6	24.4
Jan.	7.98	15.2	4.1	1.45	13.1	4.1
Feb.	6.40	12.2	23.1	1.20	10.9	12.1
Mar.	5.12	9.7	7.2	.79	7.2	12.0
	41.66	79.2	82.3	7.32	66.3	71.6
Apr.	3.39	6.4	2.7	.69	6.2	.9
May	2.38	4.5	4.1	.85	7.7	2.0
June	1.58	3.0	2.2	.83	7.5	1.6
July	.62	1.2	.7	.40	3.6	.0
Aug.	.64	1.2	1.6	.38	3.4	.4
Sept.	2.35	4.5	2.8	.58	5.3	6.8
	10.96	20.8	14.1	3.73	33.7	11.7
The year	52.62	100.0	96.4	11.05	100.0	83.3

TABLE II

Province	Station	County	Precipitation (inches)	Percent of 50-year average (1891-1940)
Northern Coast Ranges	Port Angeles	Clallam	26.88	106.3
	Aberdeen	Grays Harbor	70.38	84.1
Puget-Willamette Trough	Olga	San Juan	27.08	91.8
	Seattle	King	29.22	89.4
	Vancouver	Clark	35.22	96.1
	Olympia	Thurston	50.77	96.4
Columbia Plateau	Ellensburg	Kittitas	7.58	84.6
	Waterville	Douglas	9.21	83.3
	Kennewick	Benton	5.48	79.1
	Walla Walla	Walla Walla	11.97	74.3
Northern Rocky Mountains	Lakeside	Chelan	8.63	81.1
	Colville	Stevens	15.24	89.7
	Spokane	Spokane	14.78	97.4

For the purpose of this report the four ground-water provinces listed in Table II are divided into subprovinces according to climate, topography, and the occurrence of ground water. In the Puget Sound subprovince, in the northwestern part of the State, ground-water levels in the Tacoma area were slightly higher in September 1949 than in September 1948. The Tacoma area consists of plains of glacial origin. Its productive bodies of ground water occur in tongues of sand and gravel in the alluvium of the valleys and in the glacial drift on the interstream uplands. Ground-water levels in Snohomish County were also lower in September 1949 than in September 1948. Wells in sub-till sands and gravel were, on the average, 0.28 foot lower. Well 31/5-10J3 with confined water in sub-till sand showed a decline of 2.02 feet. Well 30/5-22A1 in outwash sand and gravel was 3.02 feet lower in November 1949 than in September 1948.

Nearly all the Columbia Plateau is underlain by volcanic rocks, largely the Yakima basalt, in which continental sedimentary rocks are intercalated. In these rocks water-bearing zones differ greatly in thickness, permeability, and extent. Large parts of the plains are veneered by fluvioglacial gravel, which commonly is very permeable but in which the saturated zone in general is thin but in places is thick enough to yield several hundred or even a few thousand gallons of water a minute. The wells in the Columbia Basin are listed under Adams, Franklin, and Grant Counties. Water levels in three wells, nos. 9/29-25D1, 19/26-34D1, and 19/28-22G1, in sand and gravel showed an average decline of 0.73 foot, and water levels in four wells, nos. 19/31-19B1, 20/26-18R1, 21/28-34A1, and 22/27-30P1, in the deeper basalt, showed an average rise of 0.37 foot over year-end levels of 1948.

In the Palouse subprovince in the southeastern part of the State, measurements were made in seven wells in Whitman County. Water levels in two shallow water-table wells, nos. 14/45-11N2 and 15/46-20K1, in December 1949 showed a rise of 0.09 foot over October 1948. In the one artesian well, no. 14/45-5B1, in Pullman for which comparable records are available, the December 1949 level is 2.25 feet below the October 1948 measurement, while the artesian well, no. 18/43-35P1, at Steptoe showed a decline of 3.60 feet.

In the Spokane Valley in the Northern Rocky Mountains province, the gravel yields large volumes of water to wells that extend below the water table only a few feet. Water levels in five wells in the area of effluent ground water that sustains the low flow of the Spokane River averaged 0.06 foot above the year-end levels of 1948, and in three wells in the upstream area where the river is influent, there was a rise of 0.66 foot.

WELL-NUMBERING SYSTEM

Observation wells are listed by counties and by townships within the county. For example, in the number 20/2-13J1, the figures preceding the hyphen indicate the township and range (T.20 N., R. 2E.). The figures following the hyphen indicate the section (sec. 13), and the letter indicates the 40-acre subdivision of the section. Within each 40-acre tract the wells are numbered serially, as indicated by the final digit of the number. Thus, well 13J1 is the first well to be listed in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13. All townships in Washington are referred to and lie north of the Willamette base line; the ranges refer to the Willamette meridian. The letter W is added after the digit indicating the range in the numbers of wells that lie west of this meridian (8/2W-28D3).

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Adams County

Columbia Basin

16/29-35R1. Kathryn D. Tate. Water in basalt. Records available: 1940-49. Mar. 9, 278.72; June 26, 277.92.

19/31-19B1. Barbara Dormaier. Water in basalt. Records available: 1939-49. Mar. 10, 134.30; June 26, 184.38; Nov. 17, 184.36.

Benton County

Yakima Basin

9/27-19G1. Paul Root. Water in gravel. Records available: 1940-49. Mar. 9, 13.88; June 21, 12.35.

8/29-1D1. Garber Dairy. Water in sand and gravel. Records available: 1948-49. Mar. 9, 67.48; June 21, 63.04; Nov. 16, 63.48.

8/30-9E1. E. Dague. Water in sand and gravel. Records available: 1948-49. Mar. 9, 23.60; June 21, 20.65; Nov. 16, 20.34.

Chelan County

Wenatchee Basin

23/19-4E2. City of Cashmere natatorium well. Water in sand and gravel in terrace deposit of Wenatchee River. Records available: 1945-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	14.52	Apr. 5	14.61	July 5	15.79	Oct. 5	16.86
10	14.20	10	14.22	10	15.85	10	17.33
15	13.20	15	14.04	15	15.89	15	16.47
20	14.50	20	13.95	20	15.98	20	17.00
25	16.91	25	14.05	25	15.82	25	17.03
31	16.61	30	14.08	31	15.83	31	17.10
Feb. 5	18.20	May 5	14.29	Aug. 5	15.58	Nov. 5	17.15
10	18.67	10	14.06	10	15.79	10	17.13
15	18.80	15	14.45	15	15.95	15	17.15
20	15.50	20	14.50	20	16.17	20	17.44
25	15.99	25	14.78	25	16.31	25	17.58
28	15.95	31	15.34	31	16.10	30	17.52
Mar. 5	15.08	June 5	15.13	Sept. 5	16.37	Dec. 5	17.62
10	13.92	10	14.95	10	16.59	10	17.78
12	14.07	15	15.02	15	16.94	15	17.82
15	14.38	20	15.20	20	16.78	20	17.97
20	14.45	25	15.32	25	16.64	25	18.00
25	14.06	27	15.54	30	16.86	31	17.94
31	14.52	30	15.83				

Douglas County

Columbia Plateau

25/22-22C1. City of Waterville. Water in basalt. Records available: 1945-49. Mar. 10, 2.66; June 26, 8.47.

Franklin County

Columbia Basin

9/29-25D1. E. T. Lindar. Dug domestic well in gravel of terrace deposit, diameter 60 inches, depth 45 feet. Records available: 1940-49. Mar. 9, 36.75; June 21, 31.08; Nov. 16, 34.61.

11/30-11B1. Northern Pacific Railway Co. Water in glacial-outwash gravel. Records available: 1940-49. Mar. 10, 114.08; June 21, 115.40; Nov. 17, 113.38.

13/30-26G2. M. M. Poe. Water in glacial-outwash gravel. Records available: 1940-49. Mar. 10, 27.98; June 21, 29.05, nearby well pumping 400 gallons a minute; Nov. 17, 27.94, pump off 2 minutes.

13/34-4G1. City of Kahlotus. Water in gravel deposit in Washtucna Coulee. Records available: 1938-49. Mar. 10, 51.90, pumping; June 21, 52.44, pumping; Nov. 17, 51.19.

Grant County

Columbia Basin

18/30-34M1. Andrew and Adeline Cruden. Records available: 1943-49. Mar. 10, 103.90; June 26, 103.44.

19/26-34D1. F. H. Bordwell. Water in sand. Records available: 1939-49. Mar. 12, 92.55; June 25, 92.50; Sept. 21, 93.18.

19/27-16N1. M. R. Steele. Water in glacial-outwash gravel. Records available: 1942-49. Mar. 12, 70.08; June 25, 67.29.

19/28-15L1. Mattson & Reisner. Water in fluvio-glacial deposits. Records available: 1939-49. Mar. 12, 58.28; June 25, 60.86.

19/28-22G1. Max G. Belnap. In town of Moses Lake. Dug unused well in glacial-outwash gravel. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	24.20	Mar. 5	23.75	Apr. 23	23.45	June 20	24.04
9	24.22	12	24.43	May 2	23.59	26	24.10
15	24.26	14	24.46	9	23.65	July 26	24.61
22	24.27	20	24.34	16	23.72	Aug. 22	24.97
29	24.25	26	24.34	23	23.76	29	25.06
Feb. 5	24.27	Apr. 2	24.30	30	23.72	Sept. 6	25.09
13	24.32	9	23.92	June 6	23.82	13	25.12
21	24.50	16	23.60	13	23.92	20	25.12
26	24.57						

20/26-18R1. D. J. Miles. Records available: 1939-49. Mar. 10, 162.76; June 25, 162.73; Sept. 13, 162.85.

20/28-15F1. Grant County. Dug and drilled unused domestic well in glacial-outwash gravel and basalt. Records available: 1939-49. Mar. 12, 6.49; June 26, 9.85; July 27, 11.57; Nov. 9, 16.82.

21/26-3H1. Sivert Andersen. Water in basalt. Records available: 1939-49. June 25, 138.85; Oct. 4, 141.66.

21/28-34A1. Arabella E. Bunnell. Water in basalt. Records available: 1939-49. June 26, 94.40; Oct. 10, 94.37.

22/27-30P1. Woodsie G. Smith. Drilled unused irrigation well in basalt. Records available: 1939-49. Mar. 10, 48.93; June 25, 70.6 -, pump operating and leaking back; Oct. 12, 49.30.

22/28-6R1. Chas. A. Kennedy. Dug domestic well in glacial-outwash gravel. Records available: 1939-49. June 25, 148.52, pumping.

22/30-18M1. Chris Larsen. Water in glacial-outwash gravel. Records available: 1939-49. Mar. 10, 16.54; June 25, 17.15.

King County

Puget Trough

26/6-13N1. Jacob DeBoer. Water in sand of fluvioglacial deposits.
Records available: 1941-49. Mar. 4, 39.90; Sept. 8, 39.63; Dec. 27, 39.67.

Kitsap County

Puget Trough

23/1-2C2. W. A. Hiersch. Water in sand in fluvioglacial deposits of an extensive rolling upland. Records available: 1932-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 2	50.50	Aug. 3	49.35	Nov. 16	51.27	Dec. 2	51.79
May 21	47.75	Sept. 7	49.93	23	51.39		

Kittitas County

Yakima River Subprovince

20/15-25Q1. Mr. Ackerslund. Water in alluvium of flood plain. Records available: 1946-49. Mar. 12, 3.18; June 27, 7.77.

Lewis County

Cowlitz Basin

11/1W-5H1. Mrs. Joseph Sommer. Water in sand in terrace deposit.
Records available: 1942-49. Mar. 1, 37.91; Sept. 6, 41.82; Dec. 26, 37.97.

Lincoln County

Columbia Plateau

21/38-24G2. Clifford Daweritz. Water in gravel bar in scabland channel in Cow Creek Valley. Records available: 1946-49. Mar. 23, 6.25; June 22, 12.97.

25/37-14M1. Charles Straub, Sr. Water in basalt. Records available: 1941-49. Mar. 22, 16.30; June 22, 14.25.

26/34-10N1. Mr. Maquette. Water in alluvium. Records available: 1946-49. Mar. 22, 2.33; June 22, 5.76.

Okanogan County

Okanogan Valley

34/26-26Q1. City of Omak well 1. Water in gravel. Records available: 1939-49.

Jan. 4	11.65	Apr. 2	13.41	July 2	12.55	Oct. 1	13.85
8	11.97	9	13.32	9	12.61	8	13.81
15	12.25	16	12.75	16	12.69	15	13.75
22	12.30	23	10.50	23	13.21	22	13.75
29	12.35	30	9.45	30	13.48	29	13.75
Feb. 5	12.25	May 7	10.89	Aug. 6	13.71	Nov. 5	13.70
13	12.47	16	5.10	13	13.69	14	13.65
19	12.53	22	6.65	20	13.85	19	13.50
26	12.67	29	7.51	27	13.87	26	12.96
Mar. 5	13.09	June 4	8.05	Sept. 4	13.96	Dec. 3	12.20
11	13.32	11	9.06	10	13.93	10	12.80
12	13.32	18	10.71	17	13.85	17	12.18
19	13.30	25	11.50	24	13.71	25	11.70
26	13.27	27	11.52				

34/26-28A1. Charles Byrd. water in gravel. Records available: 1933-49. Mar. 11, 33.27; June 27, 38.94, pumping; Nov. 19, 32.16.

34/26-28F1. Samuel Peterson. Water in terrace gravel deposits. Records available: 1939-49. Mar. 11, 14.08; June 27, 15.32, pumping; Nov. 19, 12.46.

34/26-35R1. City of Omak well 4. Water in coarse alluvial deposits. Records available: 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	25.00	Apr. 2	26.58	July 2	24.48	Oct. 1	27.09
8	25.25	9	27.00	10	24.40	8	26.96
15	25.35	17	27.10	16	25.84	15	27.12
22	25.20	23	26.67	24	25.81	22	26.60
30	25.40	May 1	26.00	30	26.45	29	26.58
Feb. 5	25.45	7	25.90	Aug. 6	26.85	Nov. 5	26.56
12	25.69	15	23.64	14	26.60	14	26.55
19	25.64	21	21.70	20	26.90	20	26.44
26	25.94	28	21.82	27	26.87	27	26.32
Mar. 5	26.07	June 4	22.36	Sept. 4	27.09	Dec. 3	25.43
11	26.13	11	22.86	10	27.37	11	25.17
12	26.08	18	23.11	17	27.05	17	25.52
19	26.20	25	23.92	24	27.11	25	25.10
26	26.36						

36/26-13K1. Victor Lesamiz. Water in fluvioglacial gravel. Records available: 1942-49. Mar. 11, +0.15; June 27, 29.45; Nov. 19, 29.29.

40/27-21K1. American Legion, Oroville Chapter, Post 84. Just north of Oroville, about 100 feet east and 150 feet north of fence corner at southeastern corner of old County fairgrounds, in pump house. Dug well, diameter 48 inches, depth 20.8 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Apr. 15, 1947	18.83	Dec. 15, 1947	18.28	Mar. 29, 1949	19.69
May 6	18.72	31	18.30	Apr. 13	19.55
13	18.23	Aug. 24, 1948	15.48	26	20.02
21	18.65	Sept. 10	16.45	May 11	19.21
June 5	16.32	27	16.50	June 4	17.50
24	17.18	Oct. 20	16.79	27	17.12
July 14	16.69	Nov. 4	17.39	Sept. 1	16.55
23	16.67	16	18.08	14	16.70
Aug. 12	16.58	Dec. 6	18.34	26	15.99
27	16.29	Jan. 5, 1949	18.64	Oct. 10	17.28
Oct. 14	16.21	20	18.96	18	17.23
Nov. 4	17.19	Feb. 2	19.16	Nov. 9	17.90
20	17.82	21	19.35	21	18.18
Dec. 2	18.03	Mar. 11	19.45		

40/27-27N1. Williams-Zosel Lumber Co. In Oroville, 0.65 mile southeast along First Ave. from intersection of First Ave. and Main St., under square frame pump house. Dug well in sand and gravel, diameter 36 inches, depth 11.5 feet. Land-surface datum is about 920 feet above sea level. Records available: 1946-49.

40/27-27N1--Continued.

Date	Water level	Date	Water level	Date	Water level
Aug. 21, 1946	7.40	Sept. 29, 1947	7.52	Jan. 25, 1949	7.52
Sept. 12	6.46	Oct. 14	7.68	Feb. 25	7.52
Oct. 3	7.27	30	7.88	Mar. 7	7.35
16	7.08	Nov. 4	7.78	15	7.65
Nov. 1	7.16	20	7.92	31	7.76
Dec. 2	6.88	Dec. 2	7.95	Apr. 5	7.76
Feb. 1, 1947	6.81	15	7.92	10	7.57
18	6.08	31	7.97	15	7.52
27	6.35	Jan. 14, 1948	8.46	20	7.42
Apr. 4	8.18	31	8.41	25	7.24
10	8.10	Feb. 15	8.65	30	7.17
15	8.19	24	8.44	May 5	7.05
20	7.92	29	9.36	10	7.01
26	7.75	Mar. 2	9.58	15	5.59
28	7.70	7	8.62	20	4.46
30	8.40	15	8.21	25	4.83
May 3	8.93	31	8.15	31	5.45
6	7.85	Apr. 5	7.99	June 5	5.90
10	7.37	11	8.09	10	6.09
13	7.14	15	8.07	15	6.26
21	7.25	20	7.95	20	6.46
26	7.25	25	7.87	25	6.64
30	6.97	30	7.68	30	6.87
June 5	6.88	May 5	7.45	July 5	6.95
10	6.74	10	7.43	10	7.07
17	6.83	15	7.44	15	7.20
24	7.25	Aug. 14	6.62	20	7.28
30	7.26	31	6.54	25	7.35
July 5	7.49	Sept. 15	6.71	31	7.35
10	7.52	30	6.81	Aug. 15	7.41
14	7.94	Oct. 15	8.86	31	7.51
20	7.70	31	7.06	Sept. 15	7.73
23	7.77	Nov. 15	7.09	27	7.61
30	7.68	30	7.13	Oct. 18	7.70
Aug. 12	8.67	Dec. 15	7.21	Nov. 9	7.25
27	7.55	31	7.36	19	7.60
Sept. 15	7.59	Jan. 15, 1949	7.50	21	7.68

40/27-28A1. City of Oroville. About 480 feet north of Third Ave. and 240 feet east of Main St. Drilled well in sand and gravel, diameter 8 inches, depth 60 feet. Land-surface datum is about 918 feet above sea level. Records available: 1946-49.

Aug. 21, 1946	4.75	Aug. 27, 1947	4.75	Jan. 5, 1949	5.14
Sept. 12	4.28	Oct. 14	4.89	20	5.32
Oct. 3	4.05	30	5.24	Feb. 2	5.43
16	4.08	Nov. 4	5.25	21	5.59
Nov. 1	4.12	20	5.64	Mar. 11	5.74
Dec. 2	4.03	Dec. 2	5.81	29	6.11
Feb. 1, 1947	4.08	15	5.97	Apr. 13	6.11
18	6.07	31	6.12	21	5.64
27	6.44	Jan. 14, 1948	6.36	May 11	5.07
Apr. 4	6.37	Apr. 11	6.83	June 4	3.18
15	5.63	Aug. 14	3.99	27	4.38
May 6	5.67	23	3.75	Sept. 1	5.50
13	4.98	Sept. 10	3.50	14	6.05
21	4.73	27	3.96	26	6.35
26	4.54	Oct. 20	4.17	Oct. 10	5.52
June 5	4.24	28	5.33	18	5.94
24	4.24	Nov. 4	4.46	Nov. 9	5.74
July 14	4.97	10	4.90	19	5.50
23	5.10	Dec. 6	5.15	21	5.95
Aug. 12	5.03				

40/27-28G1. City of Oroville well 1. water in gravel of valley alluvium. Records available: 1939-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	17.02	Feb. 28	17.19	May 6	16.58	Aug. 15	17.21
17	17.02	Mar. 11	17.28	11	16.32	Sept. 26	17.51
26	17.16	29	17.65	June 4	14.21	Nov. 9	17.45
Feb. 4	17.19	Apr. 13	17.62	16	15.00	21	17.56
19	17.32	26	16.95	27	15.60		

40/27-28G2. N. E. Petry. In Oroville, about 100 feet south of Central Ave. and 80 feet west of Chelan St., in basement of house. Dug well in gravel, diameter 20 inches, depth 4 feet below basement floor. Land-surface datum is about 920 feet above sea level. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level
Dec. 28, 1946	9.25	May 3, 1947	9.54	June 25, 1947	8.34
Feb. 7, 1947	9.67	4	9.44	28	8.34
22	9.70	5	9.34	July 5	8.64
Mar. 15	9.81	6	9.09	7	8.69
Apr. 4	9.72	7	9.04	10	8.84
8	9.90	8	8.94	17	9.14
13	9.50	9	8.84	22	9.24
16	9.85	10	8.74	23	10.36
17	9.84	11	8.64	Aug. 12	9.32
18	9.83	12	8.59	22	9.22
19	9.82	13	8.49	Sept. 5	9.24
20	9.80	14	8.42	Oct. 30	9.39
21	9.72	15	8.34	Jan. 14, 1948	10.00
22	9.65	16	8.34	Mar. 11, 1949	9.21
23	9.55	17	8.29	Apr. 20	10.14
24	9.49	18	8.24	May 27	7.97
25	9.49	19	8.24	28	7.77
26	9.44	20	8.24	29	7.44
27	9.42	21	8.27	30	6.84
28	9.42	24	8.24	31	6.34
29	9.42	26	9.26	June 1	5.94
30	9.34	June 3	8.04	2	5.20
May 1	9.44	9	7.84	3	4.90
2	9.54	14	7.84	27	7.92

40/27-33B1. Mr. Christiansen. In Oroville, about 250 feet south of Cherry St. and 125 feet west of Spokane Ave. Dug well in sand and gravel, diameter 60 inches, depth 13.8 feet. Land-surface datum is about 920 feet above sea level. Records available: 1946-49.

Aug. 21, 1946	10.88	Aug. 27, 1947	11.35	Nov. 16, 1948	10.30
Sept. 12	11.02	Oct. 14	11.04	Dec. 6	10.41
Oct. 3	10.76	30	10.92	Jan. 5, 1949	10.28
16	10.75	Nov. 4	10.89	20	10.38
Nov. 1	10.54	20	11.12	Feb. 2	10.33
Dec. 2	10.61	Dec. 2	11.21	21	10.51
Feb. 1, 1947	10.38	15	11.26	Mar. 11	10.52
18	11.17	31	11.33	29	10.88
27	11.50	Jan. 14, 1948	11.42	Apr. 13	10.71
Apr. 4	11.40	Mar. 17	11.84	26	9.90
15	10.94	Apr. 11	11.93	May 11	8.73
May 6	9.66	26	11.21	June 4	7.03
13	8.98	June 19	4.41	27	8.64
21	9.06	Aug. 14	9.27	Sept. 1	10.81
26	9.01	23	9.07	14	11.25
June 5	8.48	Sept. 10	9.72	26	11.10
24	9.28	27	9.80	Oct. 10	11.16
July 14	10.57	Oct. 20	9.96	18	11.00
23	11.05	28	9.86	Nov. 9	10.85
Aug. 12	11.16	Nov. 4	10.11	21	10.88

Pierce CountyPuget Trough

17/2-16Q3. Roy Gonia. Water-table well. Records available: 1943-49. Mar. 1, 28.67; Sept. 7, 43.82; Dec. 26, 34.58.

17/2-16Q4. James Gonia. Artesian well. Records available: 1943-49. Mar. 1, 7.55; Sept. 6, 8.39; Dec. 26, 9.40.

18/2-34N1. Frank Betchard. Water-table well along Muck Creek. Records available: 1945-49. Mar. 1, 3.86; Sept. 6, 10.18; Dec. 26, 6.37.

19/2-10F1. Lakewood Water District. Records available: 1940-49. Jan. 2, 43.70; Mar. 2, 42.22; Aug. 22, 47.49; Sept. 7, 47.65; Sept. 9, 48.23; Dec. 27, 46.64.

19/3-3Q1. D. Stuart, tenant. Water-table well. Records available: 1940-49. Mar. 3, 147.59; Sept. 7, 148.60; Dec. 27, 150.84.

19/4-7A1. Ada Lilja. Perched water table in Vashon till. Records available: 1940-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	18.85	Apr. 4	19.23	July 11	31.90	Oct. 11	34.72
10	19.43	11	20.10	18	32.42	17	34.80
18	20.13	18	21.13	25	32.84	24	34.92
24	21.60	25	22.72	Aug. 1	33.14	31	34.81
31	22.66	May 2	23.44	8	33.44	Nov. 7	34.96
Feb. 7	23.52	9	24.25	15	33.70	14	34.67
14	22.47	16	24.84	22	33.92	21	34.86
22	15.54	22	25.63	29	34.13	29	34.81
28	14.54	30	26.52	Sept. 5	34.23	Dec. 7	29.25
Mar. 1	15.12	June 6	27.49	7	34.26	12	28.02
7	17.06	13	28.51	12	34.35	19	27.52
14	18.55	20	29.42	19	34.46	26	25.40
21	18.92	27	30.28	26	34.54	27	24.53
28	19.00	July 4	31.17	Oct. 3	34.63		

20/2-10F1. C. L. Stout. Records available: 1941-49.

Mar. 2	99.99	May 15	99.35	June 2	101.56	June 26	101.40
Apr. 17	99.65	21	99.25	4	101.55	Sept. 29	101.20

20/2-13H1. City of Tacoma well 4A. Records available: 1930, 1932, 1934-49.

Feb. 2	13.40	Mar. 30	13.13	Aug. 29	14.61	Dec. 14	15.24
Mar. 2	13.30	June 29	14.81	Nov. 1	15.82		

20/2-13J1. City of Tacoma well 6A. Records available: 1939-49. Mar. 3, 33.26; Mar. 29, 33.11; Aug. 29, 35.08; Nov. 1, 36.12; Dec. 8, 36.52.

20/3-18D1. City of Tacoma well 2A. Records available: 1930-49. Feb. 2, 26.25; Mar. 3, 25.92; Aug. 29, 28.84; Nov. 1, 31.23; Dec. 14, 28.38.

20/3-19P1. City of Tacoma well 1A. Records available: 1930-49. Feb. 2, 29.92; Mar. 3, 29.37; Mar. 30, 29.50; July 1, 31.09; Aug. 29, 32.29; Nov. 1, 33.08.

154 WATER LEVELS AND ARTESIAN PRESSURE, 1949, NORTHWESTERN STATES

20/3-19P4. City of Tacoma well 11. Records available: 1907-9, 1925-31, 1937-40, 1944-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	32.36	Apr. 15	a33.03	July 17	a35.22	Oct. 15	a34.59
5	32.53	17	32.78	20	a34.00	20	34.25
8	32.53	21	a35.02	25	33.87	25	34.20
21	32.52	25	a33.16	29	33.93	27	34.20
25	32.76	30	33.08	Aug. 3	33.46	Nov. 1	a35.81
31	32.77	May 5	a34.45	8	a35.71	5	a34.51
Feb. 1	32.80	8	33.20	10	a34.32	10	34.27
5	32.89	22	a35.40	15	33.98	15	34.05
10	32.72	25	a34.51	20	34.05	20	33.99
15	32.73	31	34.00	25	a35.59	24	33.94
Mar. 2	32.15	June 5	33.98	31	34.15	26	a35.22
5	32.23	10	a35.46	Sept. 5	34.01	Dec. 3	a35.57
10	a32.56	15	34.20	10	34.13	5	a34.62
15	32.18	20	34.00	15	34.01	10	34.18
20	32.22	24	33.95	20	34.18	15	33.98
25	32.18	July 2	33.89	25	34.00	20	34.03
31	32.22	5	33.79	30	34.16	25	33.84
Apr. 5	32.24	10	33.90	Oct. 5	34.13	31	a35.93
10	32.28	13	33.90	9	34.00		

a Adjacent well pumped recently.

20/3-30C2. City of Tacoma well 5. Records available: 1908-9, 1925-31, 1937-49.

Feb. 2	35.89	July 6	37.22	Sept. 30	37.53	Nov. 29	a105.69
Mar. 2	35.42	28	37.20	Oct. 31	41.22	Dec. 29	a102.88
July 1	37.24	Aug. 30	37.39				

a Adjacent wells being pumped.

20/3-30C4. City of Tacoma well 8A. Records available: 1939-49.

Feb. 2, 35.69; Mar. 30, 35.13; July 1, 36.88; Aug. 29, 36.96; Nov. 1, 39.62.

20/3-30L5. City of Tacoma well 7A. Records available: 1939-49.

Feb. 2	20.15	Mar. 30	20.73	Aug. 29	20.99	Dec. 14	21.02
Mar. 3	19.42	July 1	21.00	Nov. 1	21.99		

20/3-30N1. City of Tacoma well 3A. Records available: 1931-49.

Feb. 2	37.51	Mar. 30	37.11	Aug. 29	38.74	Dec. 14	39.11
Mar. 3	36.90	July 1	38.65	Nov. 1	40.31		

20/3-32D2. John Erdahl. Water-table well below Vashon till. Records available: 1940-49. Mar. 2, 60.55.

20/3-35G1. I. S. Broxson. Water-table well below Vashon till. Records available: 1940-49.

Jan. 2	180.04	Apr. 4	179.31	July 3	179.33	Oct. 2	179.80
9	179.98	10	179.26	10	179.55	10	179.91
18	179.85	14	179.16	17	179.32	16	179.93
23	179.83	20	179.16	24	179.43	23	180.00
29	179.73	24	179.14	31	179.52	30	179.99
Feb. 6	179.64	May 1	179.09	Aug. 8	179.52	Nov. 6	180.09
13	179.68	9	179.11	15	179.56	13	180.08
21	179.58	15	179.10	22	179.63	20	180.11
27	179.56	22	179.11	29	179.66	27	180.14
Mar. 1	179.74	29	179.12	Sept. 6	179.74	Dec. 4	180.39
8	179.64	June 5	179.04	7	180.33	11	180.45
13	179.56	12	179.19	11	179.76	18	180.47
20	179.50	19	179.50	18	179.79	25	180.51
27	179.45	27	179.26	25	179.81	27	180.52

20/4-36H2. Frank Chervenka. Records available: 1938-49. Mar. 1, 4.16; Dec. 27, 5.36.

Snohomish County

Puget Sound Subprovince

27/4-30A2. Don Schaffer. Water in Pleistocene sand(pre-Vashon). Records available: 1945-49. Mar. 2, 138.76; Apr. 7, 138.24; Sept. 7, 137.43; Nov. 18, 137.77; Dec. 28, 137.80.

28/4-13H1. A. H. Dorr. Water in sand and gravel interbed in Vashon till. Records available: 1945-49. Mar. 3, 3.94; Apr. 7, 5.45; Sept. 7, 9.52; Nov. 18, 6.96; Dec. 28, 5.14.

29/5-2F1. L. Falkner. Water in Pleistocene till (pre-Vashon). Records available: 1944-49. Mar. 3, 109.60; Sept. 8, 110.43; Dec. 28, 110.90.

30/5-22A1. G. Torie. Water in Vashon outwash sand and gravel. Records available: 1944-49. Mar. 4, 16.61; Apr. 7, 17.40; Nov. 18, 23.99; Dec. 28, 18.89.

31/5-10J3. J. W. Monigar. Water in Pleistocene sand (pre-Vashon). Records available: 1945-49. Mar. 2, 23.68; Sept. 8, 27.89; Dec. 28, 28.09.

32/4-5Q1. Elmer Norgaard. Water-table well in sub-till sand and gravel. Records available: 1946-49. Mar. 4, 127.92; Sept. 8, 128.27; Nov. 18, 133.93; Dec. 28, 127.95.

Spokane County

Columbia Plateau

24/41-10A1. Delbert Kramer. Water in basalt. Records available: 1942-49. June 22, 32.64; Dec. 30, 34.06.

25/41-36R1. J. D. Stark. Dug and drilled stock and irrigation well in basalt. Records available: 1942-49. Mar. 23, 17.90; June 22, 21.99, pumping; Dec. 30, 23.70.

25/42-13B1. Washington Water Power Co. well 90. Empire Cold Storage Co. Water in fluvioglacial gravel in Spokane Valley. Records available: 1930-49. Mar. 22, 190.24; May 4, 179.95; June 24, 183.89; July 28, 187.90; Aug. 30, 185.75; Dec. 6, 189.50.

25/42-14L1. Riverside Park Cemetery Association. Dug well in gravel of fluvioglacial outwash. Records available: 1941-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	96.60	Mar. 23	92.49	June 23	90.30	Oct. 8	98.04
6	96.54	31	91.61	30	91.61	15	97.86
10	96.58	Apr. 5	91.49	July 5	92.05	19	97.85
15	96.48	12	91.24	16	94.06	24	98.04
20	96.54	16	90.75	20	94.46	31	98.16
24	96.66	21	90.09	25	94.72	Nov. 2	98.10
31	96.91	23	90.67	30	95.37	7	97.91
Feb. 5	97.13	29	88.60	Aug. 5	95.83	10	97.79
11	97.33	May 4	87.65	10	96.00	14	97.58
16	97.31	10	87.14	15	96.02	19	97.30
19	97.21	14	86.92	19	96.47	25	97.11
26	96.61	20	85.62	24	96.62	30	96.94
28	96.19	23	85.06	29	96.83	Dec. 2	96.72
Mar. 3	95.58	31	85.31	Sept. 3	97.25	7	96.34
10	94.34	June 4	85.83	9	97.63	12	96.32
15	93.66	10	86.88	14	97.57	27	96.31
19	93.21	15	87.88	17	97.62	30	96.32
22	92.67	22	91.51	Oct. 3	98.07	31	96.32

25/43-11G3. City of Spokane Water Division well 3. Water in tongue of fluvioglacial gravel. Records available: 1938-49.

25/43-11G3--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	25.83	Mar. 14	22.11	Aug. 22	28.80	Oct. 23	27.44
10	25.81	21	21.44	29	28.19	30	26.70
17	25.52	June 24	26.79	Sept. 5	27.92	Nov. 7	25.72
24	25.43	July 4	28.95	12	27.89	14	26.98
31	28.09	11	28.40	19	27.93	21	24.80
Feb. 7	28.00	18	29.60	26	28.07	28	24.54
14	26.28	25	28.83	Oct. 2	28.46	Dec. 5	26.49
21	27.43	Aug. 1	29.78	9	27.90	12	25.73
28	22.81	8	28.63	16	28.60	19	26.65
Mar. 7	22.13	15	28.92				

25/43-11G6. City of Spokane Water Division "gage well" 1. Water in fluvioglacial gravel in Spokane Valley. Records available: 1926-49. June 24, 56.92.

25/43-11K1. City of Spokane Water Division "gage well" 2. Water in fluvioglacial gravel. Records available: 1929-49. Mar. 21, 62.70; June 22, 66.62; Dec. 29, 66.40.

25/43-14K1. Washington Water Power Co. well 3. Ohio Match Co. Water in fluvioglacial gravel. Records available: 1920-49.

Mar. 21	43.50	June 22	45.34	Aug. 30	48.24	Dec. 29	46.89
May 4	36.63	July 28	47.60	Dec. 7	46.47		

25/43-17D1. Washington Water Power Co. well 88. New Method Laundry. Water in fluvioglacial gravel. Records available: 1928-49.

Mar. 22	46.11	June 24	a46.73	Aug. 30	48.76	Dec. 29	a48.80
May 4	41.98	July 28	a48.33	Dec. 7	48.03		

a Pumping.

25/44-2B1. Washington Water Power Co. well 49. Trentwood Irrigation District. Water in fluvioglacial gravel. Records available: 1928-49.

Mar. 21	94.95	June 22	93.50	Aug. 30	a98.89	Dec. 30	100.08
May 4	a89.50	Aug. 1	a93.30	Dec. 5	99.00		

a Pumping.

25/44-15E1. Washington Water Power Co. well 15. Modern Electric Water Co. well 5. Water in fluvioglacial gravel. Records available: 1914-49.

Jan. 8	135.11	Jan. 29	135.91	Feb. 19	135.98	Aug. 30	135.16
15	135.22	Feb. 5	136.40	26	134.24	Dec. 5	133.75
22	135.58	12	136.52	May 4	128.58		

25/44-19D1. Washington Water Power Co. well 5. Edgecliff Sanitarium. Water in fluvioglacial gravel. Records available: 1920, 1928-49.

Mar. 21	a75.43	June 22	a75.39	Aug. 30	a78.97	Dec. 29	78.83
May 4	69.49	July 28	a78.11	Dec. 5	78.70		

a Pumping.

25/44-21J1. Washington Water Power Co. well 17. Modern Electric Water Co. well 3. Water in fluvioglacial gravel. Records available: 1912-14, 1920, 1926-49. May 4, 92.07; June 24, 100.79, pumping; July 28, 104.04, pumping; Aug. 30, 99.09; Dec. 5, 100.76; Dec. 31, 100.54.

25/44-22N1. Modern Electric Water Co. well 7. Dug irrigation and public-supply well in fluvioglacial gravel. Records available: 1942-49.

Jan. 5	143.18	Jan. 26	143.57	Feb. 9	143.92	Feb. 23	143.47
12	143.29	Feb. 2	143.80	16	144.03	June 24	135.19
19	143.14						

25/44-23D1. Washington Water Power Co. well "L.A.L." E. E. Gooding. Water in fluvioglacial gravel. Records available: 1931-49. Mar. 21, 85.21; June 24, 84.79; Dec. 29, 88.65.

25/45-10C1. Washington Water Power Co. well 41. Mrs. George Clark. Water in fluvioglacial gravel. Records available: 1928-49. Mar. 21, 55.20; June 24, 51.43; Dec. 29, 59.46.

25/45-16C1. Washington Water Power Co. well 38. Inland Empire Paper Co. Water in fluvioglacial gravel. Records available: 1920, 1929-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	103.18	Apr. 3	98.26	Aug. 7	99.56	Oct. 23	103.38
9	103.22	10	97.76	14	99.93	30	103.56
16	103.33	17	96.39	21	100.34	Nov. 6	103.60
23	103.41	24	95.60	28	100.63	13	103.47
30	103.77	May 4	93.37	30	100.81	20	103.31
Feb. 6	103.77	June 24	95.20	Sept. 4	101.03	27	103.15
13	103.79	July 3	96.84	11	101.34	Dec. 4	102.64
20	103.81	10	97.59	18	101.65	5	102.13
27	102.17	17	98.17	25	102.32	11	102.23
Mar. 6	101.32	24	98.82	Oct. 2	102.67	18	102.21
13	99.72	28	99.22	9	102.75	25	102.16
21	99.57	31	99.33	16	102.87	29	102.34
27	98.63						

25/45-18A1. Washington Water Power Co. well 40. Records available: 1928-48. Measurements discontinued.

26/43-7Q1. C. E. Marr. 3.5 miles north of Spokane. Dug unused irrigation well in fluvioglacial gravel. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 22	75.90	June 24	75.09	Aug. 30	74.60	Dec. 29	76.32
May 4	75.08	July 28	74.35	Dec. 7	76.03		

26/43-16D1. Permanente Metals Corp. test well. Water in fluvioglacial gravel. Records available: 1943-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	160.46	Apr. 13	160.70	June 29	159.50	Oct. 26	160.39
12	160.42	20	160.51	July 6	159.45	Nov. 2	160.44
19	160.54	27	160.55	13	159.41	9	160.43
26	160.51	May 4	160.55	20	159.43	16	160.60
Feb. 23	160.65	11	160.60	27	159.42	23	160.64
Mar. 2	160.62	18	160.48	Sept. 7	159.95	30	160.76
9	160.80	25	160.40	14	159.95	Dec. 7	160.76
16	160.86	June 1	160.00	21	160.10	14	160.90
22	160.85	8	159.99	28	160.20	21	160.91
23	160.85	15	159.68	Oct. 5	160.16	28	160.90
30	160.80	22	159.60	12	160.35	29	160.85
Apr. 6	160.76	24	159.51	19	160.37		

26/43-19A1. Washington Water Power Co. well "C. H." Whitworth Water District No. 2. Water in fluvioglacial gravel. Records available: 1930-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 22	136.42	July 20	136.52	Sept. 1	137.72	Nov. 14	136.70
May 4	135.35	25	136.58	10	137.90	25	136.75
June 24	136.17	28	136.68	24	136.71	Dec. 7	136.77
July 5	136.20	Aug. 10	137.12	28	136.77	24	136.80
10	136.35	20	137.40	Nov. 13	137.33	29	136.99
15	136.42	30	137.67				

26/43-34P1. Washington Water Power Co. well 80. Great Northern Railway Co. Water in fluvioglacial gravel. Records available: 1928-49. Mar. 22, 175.62, pumping; June 25, 173.0.

26/44-32R1. Washington Water Power Co. well 46. Hutton Settlement. Water in fluvioglacial gravel. Records available: 1928-49. May 4, 91.45; June 24, 92.39; July 28, 95.65; Aug. 30, 97.48; Dec. 6, 99.64.

Thurston County

Puget Trough

15/3W-13D1. J. T. Hagerty. Water-table well in outwash gravels. Records available: 1947-49. Mar. 1, 16.17; Sept. 6, 32.26; Dec. 26, 25.98.

16/1W-19G1. Town of Tenino. Water in gravel in fluvioglacial deposits. Records available: 1941-49. Mar. 1, 4.44; Sept. 6, 10.20; Dec. 26, 5.11.

16/2W-29E1. E. J. Poore. (Formerly owned by U. S. Army.) Water-table well. Records available: 1947-49. Mar. 1, 14.45; Dec. 26, 24.34.

16/3W-29N1. Chas. F. Norrie. Water-table well. Records available: 1947-49. Mar. 1, 33.26; Sept. 6, 40.95; Dec. 26, 38.19.

Walla Walla County

Walla Walla River Basin

6/35-16B1. Claude Winn. Water in alluvial deposits. Records available: 1933-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 3	3.54	May 20	3.61	Sept. 10	4.18	Nov. 28	3.52
Apr. 18	3.84	July 7	9.28	Oct. 14	3.30		

Whatcom County

Puget Trough

39/2E-25R1. J. W. Elsbree. Water-table well in sub-till sand and gravel. Records available: 1946-49. Mar. 3, 57.26; Sept. 8, 57.89.

40/1-4J1. City of Blaine. Water in fluvioglacial deposits. Records available: 1938-49. Mar. 3, 67.97; Apr. 7, 67.44; Dec. 28, 68.87.

40/3-15E1. City of Lynden. Water-table well. Records available: 1947-49. Mar. 3, 12.55; Apr. 8, 12.86; Sept. 8, 15.11, Dec. 28, 14.29.

41/1-31Q1. City of Blaine. Water in glacial deposits. Records available: 1939-42, 1946-49. Mar. 3, +20.00; Sept. 8, +20.5; Dec. 28, +20.75.

Whitman County

Palouse River Basin

14/45-4N1. Emory Crawford. Artesian well in basalt. Records available: 1932-49. Dec. 30, 51.35.

14/45-5B1. Washington State College well 1. Artesian well in basalt. Records available: 1935-49. Mar. 20, 33.03; Dec. 30, 36.18, adjacent well pumping.

14/45-5D2. Standard Lumber Co. Artesian well in basalt. Records available: 1933-49. Dec. 30, 8.52.

14/45-11N2. U. S. Geol. Survey. Water-table well. Records available: 1937-49. Dec. 30, 4.60.

15/46-20K1. J. D. Carson. Water-table well. Records available: 1935-49. Dec. 30, 6.35.

18/41-1B1. Inland Empire Milling Co. Records available: 1945-49. Mar. 20, 2.35; Dec. 30, 2.37.

18/43-35P1. G. H. Noe. Artesian well in basalt. Records available: 1940-49. Mar. 20, 5.10; May 7, 8.42; Dec. 30, 12.88.

WYOMING

By R. T. Littleton

PROGRAM OF WORK

The observation-well program in Wyoming was continued in 1949 in cooperation with the State Engineer and the city of Cheyenne and also as a part of the Missouri Basin program. Measurements of water levels were made in 107 wells. Field work was completed in ground-water investigations in the Gillette area, Laramie Basin, Glendo area, and the Horse-Bear Creek area. Ground-water studies of Goshen County and the Riverton irrigation project were continued.

At the beginning of 1949, 116 wells were being measured, mainly in the Cheyenne and Egbert-Pine Bluffs-Carpenter areas. During 1949 measurements were discontinued in 80 wells and measurements were begun in 71 new wells. The addition of new wells provided more extensive water-level observations in the State. Included were groups of observation wells established as a part of the ground-water studies of the Missouri Basin program.

WELL-NUMBERING SYSTEM

Wells are numbered according to their location within the land subdivisions in the State. With the exception of the Wind River Indian Reservation, Wyoming was surveyed from the sixth principal meridian and base line and lies in the northwest quadrant. The Wind River Indian Reservation lies in Fremont and Hot Springs Counties and was surveyed from the Wind River meridian and base line. The numbers of wells within the Wind River Indian Reservation are preceded by a capital letter which designates the quadrant. The first segment of a well number indicates the township, the second the range, and the third the section. The letters following indicate the location of the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section, and the third the quarter-quarter-quarter section or 10 acre-tract. The letters are assigned in a counterclockwise direction beginning in the northeast quarter of the section.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Albany CountyLaramie Basin

14-74-6dac. Monolith Portland Midwest Co. Drilled unused well in alluvium, diameter 4 inches, depth 54.5 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
June 14, 1948	4.74	May 3, 1949	5.19	Sept. 22, 1949	5.10
Aug. 2	5.35	June 21	4.01	Nov. 15	5.70
Dec. 14	5.46	July 8	5.59		

14-75-17aac. Ray Moeller. Domestic and stock dug well, in terrace deposits, diameter 48 inches, depth 7.5 feet. Records available: 1948-49.

July 8, 1948	3.78	May 3, 1949	5.31	Sept. 22, 1949	5.87
Aug. 2	5.26	June 21	3.43	Nov. 15	5.93
Dec. 14	6.71	July 8	2.90		

14-75-29adb. Oda Mason. Dug unused well in alluvium, diameter 60 inches, depth 10 feet. Records available: 1948-49.

July 13, 1948	4.52	May 3, 1949	4.71	Sept. 22, 1949	5.28
Aug. 2	4.89	June 21	3.42	Nov. 15	5.64
Dec. 14	4.64	July 8	4.12		

14-76-4aab. Elwood Hanson. Drilled unused well in terrace deposits, diameter 6 inches. Records available: 1948-49.

July 7, 1948	5.27	May 3, 1949	5.04	Sept. 22, 1949	5.76
Aug. 2	5.94	June 21	3.48	Nov. 15	5.26
Dec. 14	6.28	July 8	4.16		

14-77-25dcd. Mr. Embree. Drilled stock well in terrace deposits, diameter 8 inches, depth 75 feet. Records available: 1948-49.

July 7, 1948	27.38	May 3, 1949	31.09	July 8, 1949	29.47
Aug. 2	27.07	June 21	29.47	Nov. 15	26.07
Dec. 14	26.88				

15-74-1aaa. Maurice Laycock. Dug stock well in alluvium, diameter 24 inches. Records available: 1948-49. June 24, 1948, 3.58; Dec. 14, 6.04; May 3, 1949, 4.94; June 21, 3.55; July 8, 3.54; Sept. 22, 4.95; Nov. 15, 4.67.

16-76-11bbc. Owner unknown. Drilled stock well in alluvium, diameter 8 inches. Records available: 1948-49. July 16, 1948, 0.60; Aug. 2, 2.93; Dec. 14, 2.51; May 3, 1949, 1.00; July 8, 0.63; Sept. 22, 4.44.

16-76-18dbb. Dr. Markley. Drilled unused well in alluvium, diameter 6 inches. Records available: 1948-49.

July 16, 1948	4.60	May 3, 1949	4.27	Sept. 22, 1949	5.74
Aug. 2	5.52	June 21	.29	Nov. 15	3.92
Dec. 14	5.53	July 8	.00		

17-75-34cdd. Ralph May. Dug unused well in alluvium, diameter 48 inches, depth 8 feet. Records available: 1948-49.

July 26, 1948	4.67	June 21, 1949	0.87	Sept. 22, 1949	6.12
Dec. 14	6.42	July 8	3.61	Nov. 15	5.57
May 3, 1949	3.09				

Big Horn CountyPaintrock area

49-90-1daal. Owner unknown. In Hyattville, on east side of street, southeast of store and Conoco station. Dug unused well in alluvium, diameter 48 inches, depth 14 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Sept. 14, 1947	6.86	Nov. 27, 1948	8.54	June 29, 1949	3.00
Oct. 17	8.00	Dec. 17	8.64	July 29	6.84
Nov. 21	8.83	Jan. 21, 1949	8.63	Aug. 29	7.90
July 26, 1948	5.71	Feb. 25	8.89	Sept. 26	7.75
Aug. 21	6.29	Apr. 4	9.11	Oct. 27	8.25
Sept. 25	7.45	28	8.45	Nov. 29	8.72
Nov. 3	8.54	May 26	6.68	Dec. 29	8.89

50-92-3lbbal. Manderson Hotel (Johnson). In town of Manderson, 10 feet north of hotel. Drilled unused well in Fort Union formation, diameter 5 inches, depth 47.7 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Sept. 12, 1947	9.02	Nov. 27, 1948	10.21	June 29, 1949	9.78
Oct. 17	8.98	Dec. 17	10.87	July 29	10.06
Nov. 21	9.05	Jan. 21, 1949	9.70	Aug. 29	10.31
July 26, 1948	8.88	Feb. 25	9.81	Sept. 26	9.90
Aug. 21	9.24	Apr. 4	9.75	Oct. 27	9.98
Sept. 25	10.20	28	9.77	Nov. 29	10.00
Nov. 3	9.31	May 26	9.86	Dec. 29	10.14

Campbell County

50-72-20add. State of Wyoming. In borrow ditch on west side of U. S. Highway 14-16. Observation well in lenticular sandstones in Wasatch formation, diameter 3 inches, depth 320 feet. Records available: 1949. June 9, 77.26; Aug. 23, 77.25; Sept. 21, 77.16; Oct. 14, 77.90; Nov. 16, 77.20; Dec. 29, 77.68.

Crook County

54-64-7bc. S. J. Brimmer. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 3	14.85	July 15	14.89	Sept. 20	15.37	Nov. 16	15.35
Mar. 3	14.35	Aug. 23	15.28	Oct. 14	15.40	Dec. 14	15.37
Apr. 28	14.50						

Fremont CountyRiverton Area

A-1-2-3da. E. M. Gorum. Drilled well in Wind River formation, diameter 8 inches, depth 41 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Aug. 17, 1948	8.45	Apr. 5, 1949	8.67	Aug. 27, 1949	7.70
Dec. 3	8.55	27	8.51	Sept. 23	7.56
Jan. 19, 1949	7.70	June 3	8.17	Oct. 28	7.98
Feb. 10	7.31	July 1	7.75	Nov. 29	8.25
Mar. 9	7.73	Aug. 2	7.46	Dec. 29	7.91

A-1-2-4ad. LeClair Ditch Co. Dug well in alluvium, diameter 36 inches, depth 18.5 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Aug. 17, 1948	8.72	Apr. 5	12.60	Aug. 27, 1949	8.04
Dec. 3	12.30	27	13.11	Sept. 23	10.22
Jan. 19, 1949	12.53	June 3	9.05	Oct. 28	11.22
Feb. 10	12.61	July 1	10.14	Nov. 29	11.99
Mar. 9	12.77	Aug. 2	6.70	Dec. 29	12.48

A-1-2-11a1. J. D. Deardoff. Dug unused well in alluvium, diameter 18 inches, depth 9.5 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Aug. 17, 1948	7.57	June 3, 1949	8.41	Sept. 23, 1949	7.02
Dec. 3	8.30	July 1	7.96	Oct. 28	7.44
Jan. 19, 1949	7.98	Aug. 2	7.59	Nov. 29	7.84
Apr. 5	8.70	27	6.73	Dec. 29	8.00
27	8.32				

A-1-3-7ad2. H. M. Johnson. Drilled unused well, depth 77 feet. Records available: 1948-49.

Aug. 16, 1948	12.05	Apr. 5, 1949	20.17	Aug. 27, 1949	10.39
Dec. 3	16.20	27	20.56	Sept. 23	12.50
Jan. 19, 1949	18.13	May 27	20.01	Oct. 28	14.48
Feb. 8	18.94	July 1	16.52	Nov. 29	15.94
Mar. 8	19.83	Aug. 2	12.40	Dec. 29	17.00

A-1-3-16cc. Vern Adams. Drilled well in Wind River formation, diameter 6 inches, depth 103 feet. Records available: 1948-49.

Aug. 11, 1948	21.42	Apr. 5, 1949	21.89	Aug. 27, 1949	20.18
Dec. 3	19.88	27	22.59	Sept. 23	18.25
Jan. 19, 1949	20.93	May 27	22.87	Oct. 28	18.41
Feb. 8	21.30	July 1	22.34	Nov. 29	19.20
Mar. 8	21.66	Aug. 2	21.45	Dec. 29	19.74

A-1-3-27ad. Elmer Farrans. Dug unused well in alluvium, diameter 22 inches, depth 15.1 feet. Records available: 1948-49.

Aug. 10, 1948	8.85	Apr. 5, 1949	9.93	Sept. 23, 1949	8.67
Dec. 3	8.87	27	10.38	Oct. 28	7.15
Jan. 19, 1949	9.26	May 27	9.79	Nov. 29	8.05
Feb. 8	9.56	July 1	10.80	Dec. 29	7.92
Mar. 8	9.74	Aug. 2	8.10		

A-1-4-12bb. Delfelder Hall. Drilled unused well, diameter 4 inches, depth 39.8 feet. Records available: 1948-49.

July 15, 1948	6.51	Feb. 8, 1949	10.02	July 1, 1949	7.38
Aug. 8	6.62	Mar. 7	10.43	Aug. 1	6.63
Sept. 23	6.14	Apr. 5	10.69	25	5.94
Nov. 10	7.80	25	10.60	Sept. 22	6.12
Dec. 1	8.28	May 27	8.34	Oct. 28	7.30
Jan. 11, 1949	9.33				

A-1-4-15ddl. Pete Belin. Drilled unused well in alluvium, diameter 4 inches, depth 36 feet. Records available: 1948-49.

Nov. 17, 1948	5.32	Apr. 5, 1949	5.97	Aug. 25, 1949	5.12
Dec. 1	5.52	25	5.93	Sept. 22	5.14
Jan. 11, 1949	5.99	May 27	5.22	Oct. 24	5.09
Feb. 8	6.41	July 1	5.39	Nov. 28	5.40
Mar. 7	6.20	Aug. 1	5.09		

A-1-4-17ddl. C. E. Barnes. Drilled well in alluvium, depth 24.5 feet. Records available: 1949. July 7, 6.19; Aug. 1, 5.58; Aug. 25, 4.98; Sept. 22, 5.09; Oct. 28, 7.11; Nov. 28, 8.41.

A-1-4-28bal. Leslie Major. Dug unused well in alluvium, depth 24 feet. Records available: 1949. July 8, 13.50; Aug. 1, 12.55; Aug. 25, 10.25; Sept. 22, 10.76; Oct. 28, 12.71; Nov. 28, 14.13.

A-1-4-29bd2. City of Riverton. Drilled unused well, in Wind River formation, depth 578 feet. Records available: 1949. July 13, 192.67; Aug. 1, 193.63; Aug. 25, 187.10; Sept. 22, 194.40; Oct. 28, 203.97; Nov. 28, 191.93; Dec. 30, 181.65.

A-1-4-32ad. Charles Bryant. Dug well in alluvium, diameter 12 inches, depth 11.6 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Aug. 10, 1948	1.98	Apr. 5, 1949	4.39	Aug. 27, 1949	2.00
Dec. 3	3.00	27	5.02	Sept. 23	.94
Jan. 19, 1949	5.41	May 27	3.07	Oct. 28	1.84
Feb. 8	6.22	July 1	1.32	Nov. 29	2.61
Mar. 8	5.41	Aug. 2	.90	Dec. 29	3.95

A-1-4-35ad. Benito Carrasco. Dug unused well in alluvium, diameter 48 inches, depth 10 feet. Records available: 1948-49.

Nov. 17, 1948	6.90	Apr. 25, 1949	8.07	Aug. 25, 1949	8.82
Dec. 1	7.84	May 27	8.41	Sept. 22	8.55
Mar. 7, 1949	8.36	July 1	8.60	Oct. 28	8.22
Apr. 5	8.22	29	8.77	Nov. 28	8.00

A-2-2-4dc. Lester Russell. Drilled well, diameter 4 inches, depth 40 feet. Records available: 1948-49.

Sept. 20, 1948	6.17	June 3, 1949	8.25	Sept. 23	7.90
Dec. 3	6.57	July 5	7.78	Oct. 31	7.67
Apr. 6, 1949	6.60	Aug. 2	8.61	Nov. 29	7.74
26	6.97	27	8.27	Dec. 29	7.84

A-2-2-7ad. C. K. Durant. Drilled unused well, diameter 4 inches, depth 42.5 feet. Records available: 1948-49.

Sept. 21, 1948	11.20	Apr. 6, 1949	22.28	Aug. 27, 1949	11.31
Dec. 3	13.90	26	23.48	Sept. 23	10.62
Jan. 14, 1949	17.39	June 3	21.00	Oct. 31	12.39
Feb. 10	18.77	July 5	16.97	Nov. 29	14.44
Mar. 8	20.33	Aug. 2	13.96	Dec. 29	16.28

A-2-2-10dd. F. C. Hoffman. Dug unused well in alluvium, diameter 5 inches, depth 15 feet. Records available: 1948-49.

Sept. 29, 1948	3.88	Apr. 26, 1949	4.26	Sept. 23, 1949	3.84
Dec. 3	4.75	June 3	4.72	Oct. 31	4.28
Jan. 14, 1949	5.77	July 5	3.32	Nov. 29	4.77
Mar. 8	5.59	Aug. 2	3.32	Dec. 29	5.34
Apr. 6	4.44	27	3.05		

Goshen County

19-61-2ccd. City of LaGrange. Drilled well in alluvium, diameter 4.5 inches, depth 30 feet. Records available: 1943, 1949.

May 10, 1943	15.99	June 4, 1949	14.41	Sept. 29, 1949	14.95
July 27	14.44	July 6	14.57	Oct. 31	14.42
Apr. 1, 1949	13.77	27	14.97	Nov. 29	16.01
May 3	14.63	Aug. 30	16.02	Dec. 29	17.19

19-61-4cdd. Hugh Stemler. Drilled irrigation well in alluvium, diameter 48 inches, depth 33 feet. Records available: 1943, 1948-49.

Apr. 16, 1943	6.37	May 3, 1949	5.99	Oct. 31, 1949	5.55
Nov. 5, 1948	7.39	June 4	4.07	Nov. 29	6.17
29	7.47	July 27	8.47	Dec. 29	7.00
Apr. 1, 1949	7.40	Sept. 29	6.41		

19-62-2add. Edward Krohn. Drilled unused well in Brule formation, diameter 3.5 inches, depth 92 feet. Records available: 1943, 1949.

Date	Water level	Date	Water level	Date	Water level
May 3, 1943	58.58	July 6, 1949	57.53	Oct. 31, 1949	57.66
Apr. 1, 1949	57.42	27	57.67	Nov. 29	57.71
May 3	57.53	Aug. 30	57.77	Dec. 29	57.68
June 4	57.46	Sept. 30	57.76		

19-62-26dba. F. E. Jones. Drilled stock well in Brule formation, diameter 5 inches, depth 42 feet. Records available: 1948-49.

Nov. 21, 1948	27.34	June 4, 1949	23.46	Sept. 29, 1949	24.95
Apr. 1, 1949	22.54	July 26	23.86	Oct. 29	25.72
May 3	23.14	Aug. 30	24.65		

20-61-27ddc. Curtis Templin. Drilled unused stock well in alluvium, diameter 6 inches, depth 86 feet. Records available: 1943, 1949.

June 16, 1943	28.72	June 4, 1949	30.53	Sept. 29, 1949	29.23
July 27	28.57	July 6	29.86	Oct. 31	30.00
Apr. 1, 1949	31.36	27	29.55	Nov. 29	29.18
May 3	31.00	Aug. 30	29.15	Dec. 29	28.82

24-60-19bad. Frank Graham. Drilled irrigation well in alluvium, diameter 18 inches, depth 32 feet. Records available: 1948-49.

Oct. 20, 1948	12.88	June 3, 1949	13.25	Sept. 30	12.77
Nov. 20	13.30	July 7	12.07	Oct. 31	13.06
Dec. 10	13.42	26	11.34	Nov. 29	13.45
Mar. 30, 1949	13.64	Aug. 31	11.32	Dec. 29	13.65
May 2	13.90				

24-60-27cdd. Edgar Ginter. Stock and domestic well in alluvium, diameter 6 inches, depth 73 feet. Records available: 1948-49.

Oct. 19, 1948	13.52	June 3, 1949	21.89	Sept. 30, 1949	12.50
Nov. 20	15.73	July 7	20.93	Oct. 31	14.37
Dec. 10	16.75	26	17.31	Nov. 29	15.83
Mar. 30, 1949	20.56	Aug. 31	13.56	Dec. 29	17.23
May 2	21.35				

24-60-33bb. Raymond Lively. Dug irrigation well in alluvium, diameter 22 inches, depth 11 feet. Records available: 1948-49.

Oct. 19, 1948	5.99	May 2, 1949	6.52	Aug. 31, 1949	5.34
Nov. 20	5.69	June 3	5.90	Sept. 30	5.77
Dec. 10	6.02	July 7	5.27	Oct. 31	6.10
Mar. 30, 1949	6.40				

24-61-6add. University of Wyoming. Drilled irrigation well in alluvium, diameter 18 inches, depth 93 feet. Records available: 1948-49.

Oct. 14, 1948	21.14	June 3, 1949	22.49	Sept. 30, 1949	18.93
Nov. 9	22.20	July 6	20.86	Oct. 31	20.37
Dec. 10	22.79	29	20.04	Nov. 29	22.06
Mar. 31, 1949	23.62	Aug. 30	18.81	Dec. 29	22.68
May 2	23.92				

24-61-10cdc. St. Joseph's Orphanage. Dug irrigation well in alluvium, diameter 90 inches, depth 36 feet. Records available: 1948-49.

Oct. 19, 1948	19.59	Mar. 31, 1949	20.63	Oct. 31, 1949	19.25
Nov. 20	19.89	May 3	20.80	Nov. 29	19.88
Dec. 10	20.03	June 3	20.27	Dec. 29	20.46

24-61-13bcc. John Failes. Drilled irrigation well in alluvium, diameter 5 inches, depth 27 feet. Records available: 1948-49.

Oct. 21, 1948	12.67	July 7, 1949	12.06	Sept. 30, 1949	11.78
Nov. 20	13.10	26	11.55	Oct. 31	12.52
Dec. 10	13.31	Aug. 31	10.68	Nov. 29	13.15
May 2, 1949	13.87				

24-61-15cdb. Yellowstone Potato Co. Dug industrial well in alluvium, diameter 22 inches, depth 38 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Oct. 25, 1948	10.33	June 4, 1949	10.23	Sept. 29, 1949	9.70
Dec. 10	10.73	July 6	9.25	Oct. 31	11.81
Mar. 31, 1949	11.05	27	9.03	Nov. 28	12.23
May 10	11.03	Aug. 31	8.98	Dec. 29	11.51

25-61-28dbc. M. W. Berry. Drilled irrigation well in terrace gravel, diameter 24 inches, depth 108 feet. Records available: 1943, 1948-49.

May 5, 1943	49.39	May 2, 1949	48.34	Sept. 29, 1949	38.90
Oct. 19, 1948	38.72	June 3	47.14	Oct. 31	39.11
Nov. 20	40.51	July 26	47.08	Nov. 29	40.44
Dec. 10	40.47	Aug. 30	45.42	Dec. 29	42.13

25-62-4ccd. L. R. Brewer. Domestic well in alluvium, depth 39 feet. Records available: 1948-49.

Oct. 12, 1948	13.40	May 2, 1949	23.77	Aug. 30, 1949	15.92
Nov. 9	15.77	June 3	22.45	Sept. 30	12.15
Dec. 8	16.55	July 6	20.87	Oct. 31	13.73
Mar. 31, 1949	23.30	27	19.49	Nov. 29	15.78

25-62-19aac. L. C. Stround. Irrigation well in alluvium, diameter 18 inches, depth 83 feet. Records available: 1948-49.

Oct. 11, 1948	19.45	June 3, 1949	24.61	Sept. 30, 1949	19.12
Nov. 9	20.73	July 6	22.74	Oct. 31	20.62
Dec. 8	21.91	27	21.74	Nov. 29	21.76
Mar. 31, 1949	24.82	Aug. 30	19.98	Dec. 29	22.74
May 2	25.35				

25-62-36cad. W. W. Weckwerth. Driven irrigation well in alluvium, diameter 1.5 inches, depth 10 feet. Records available: 1948-49.

Nov. 10, 1948	5.95	June 3, 1949	6.72	Sept. 30, 1949	4.95
Dec. 10	6.21	July 6	5.06	Oct. 31	5.55
Mar. 31, 1949	6.57	27	4.53	Nov. 29	6.24
May 2	7.37	Aug. 30	6.26	Dec. 29	6.59

25-63-9ccb. Emery Bright. Drilled irrigation well in alluvium, diameter 24 inches, depth 61 feet. Records available: 1943, 1948-49.

Aug. 6, 1943	19.65	June 3, 1949	23.34	Sept. 30, 1949	19.36
Nov. 9, 1948	21.29	July 6	21.23	Oct. 31	20.91
Dec. 8	22.15	27	20.57	Nov. 29	21.67
Mar. 31, 1949	23.34	Aug. 30	19.54	Dec. 29	22.20
May 2	23.58				

25-63-22aab. Greenwald Estate. Drilled irrigation well in alluvium, diameter 18 inches, depth 60 feet. Records available: 1948-49.

Oct. 27, 1948	17.48	June 3, 1949	19.48	Sept. 30, 1949	15.78
Nov. 9	17.62	July 6	17.75	Oct. 31	14.24
Dec. 8	18.53	27	16.67	Nov. 29	18.31
Mar. 31, 1949	19.74	Aug. 30	15.64	Dec. 29	18.90
May 2	19.92				

26-62-14baa. Arthur Damerai. Drilled irrigation well, in alluvium, diameter 18 inches, depth 62 feet. Records available: 1948-49.

Oct. 12, 1948	12.87	June 3, 1949	12.42	Sept. 30, 1949	12.63
Nov. 9	12.67	July 6	13.24	Oct. 31	12.63
Dec. 8	13.63	27	12.33	Nov. 29	12.58
Mar. 31, 1949	12.38	Aug. 30	12.61	Dec. 29	12.52
May 2	12.32				

26-63-32dac. Joseph Spikner. Drilled irrigation well in alluvium, diameter 18 inches, depth 80 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Oct. 11, 1948	19.20	Mar. 31, 1949	24.07	Sept. 30, 1949	19.05
Nov. 9	20.84	May 2	24.18	Oct. 31	20.33
Dec. 8	22.16	June 3	23.01	Dec. 29	22.44

26-64-8cdb. W. H. McDonald. Dug irrigation well in alluvium, diameter 24 inches, depth 45 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Nov. 9, 1948	22.44	July 6, 1949	19.64	Oct. 31, 1949	23.47
Mar. 31, 1949	25.71	27	17.98	Nov. 28	24.41
May 2	22.69	Aug. 30	17.48	Dec. 29	24.72
June 3	21.14	Sept. 30	20.38		

26-64-22ada. Standard Service Station. Drilled domestic well in alluvium, diameter 5 inches, depth 32 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Oct. 7, 1948	10.33	May 2, 1949	17.25	Aug. 30, 1949	9.04
Nov. 9	13.93	June 3	14.48	Sept. 30	10.17
Dec. 8	15.96	July 6	12.50	Oct. 31	13.10
Mar. 31, 1949	18.95	27	11.73		

26-64-29ada. National Park Service. Records available: 1942-43, 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 27	18.68	July 22	18.45	Sept. 30	18.10	Nov. 29	18.57
June 30	16.47	Aug. 24	17.78	Oct. 31	17.85	Dec. 29	18.79

26-64-29aaa. National Park Service. Drilled domestic well in alluvium, diameter 18 inches, depth 28.8 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
July 13, 1948	15.67	Apr. 27, 1949	16.67	Sept. 30, 1949	15.81
Aug. 11	14.34	June 30	14.30	Oct. 2	15.99
Sept. 24	15.71	July 27	14.57	Nov. 29	17.10
Oct. 21	16.32	Aug. 24	14.68	Dec. 29	16.60
Dec. 14	16.78				

26-65-11acc. U. S. Bureau of Reclamation. Drilled domestic well in alluvium, diameter 6 inches, depth 28 feet. Records available: 1948-49.

Date	Water level	Date	Water level	Date	Water level
Oct. 1, 1948	8.71	May 2, 1949	6.62	Sept. 30, 1949	7.73
Nov. 9	10.70	June 3	5.35	Oct. 31	10.10
Dec. 8	11.21	July 6	5.15	Nov. 28	10.76
Mar. 31, 1949	11.44	Aug. 30	6.15	Dec. 29	11.10

Hot Springs County

Owl Creek area

A-9-1-36ccc. D. B. Whetstone. Drilled unused well in alluvium, diameter 28 inches, depth 21 feet. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level
Apr. 26, 1946	7.40	June 30, 1947	6.58	Jan. 21, 1949	8.06
May 17	7.39	July 30	7.52	Feb. 25	8.09
June 26	6.76	Aug. 28	8.18	Apr. 4	7.88
July 29	8.08	Sept. 26	7.82	28	7.15
Sept. 10	8.14	Oct. 28	7.20	May 26	7.10
Oct. 15	6.74	Nov. 19	7.47	June 30	7.19
Nov. 7	7.59	July 21, 1948	7.07	July 30	7.73
Dec. 6	7.91	Aug. 22	8.14	Aug. 30	7.90
Jan. 15, 1947	8.15	Sept. 26	7.82	Sept. 27	7.74
Feb. 6	8.20	Nov. 4	6.74	Oct. 28	7.57
Mar. 12	8.24	28	7.71	Nov. 30	7.43
Apr. 15	7.84	Dec. 17	7.93	Dec. 28	7.87
May 13	6.50				

43-96-14bda. Leonard Thorton. Drilled unused well, diameter 6 inches, depth 44 feet. Records available: 1946-49.

Date	Water level	Date	Water level	Date	Water level
Apr. 23, 1946	26.83	June 30, 1947	15.86	Jan. 21, 1949	26.00
May 20	24.19	July 30	15.53	Feb. 25	26.99
June 29	20.80	Aug. 28	17.94	Apr. 4	27.55
July 29	18.82	Sept. 26	20.19	28	27.61
Sept. 10	22.78	Oct. 28	22.15	May 26	26.94
Oct. 15	24.09	Nov. 19	22.45	June 30	22.64
Nov. 11	25.22	July 21, 1948	20.60	July 30	21.10
Dec. 6	25.76	Aug. 22	20.74	Aug. 30	22.95
Jan. 10, 1947	26.55	Sept. 26	22.19	Sept. 27	24.26
Feb. 6	27.25	Nov. 4	23.79	Oct. 28	25.19
Mar. 12	27.94	28	24.72	Nov. 30	26.32
Apr. 15	28.16	Dec. 17	25.08	Dec. 28	27.23
May 16	26.57				

Laramie County

Cheyenne area

13-68-3bba. City of Cheyenne. Records available: 1944-49. Oct. 6, 80.19; Nov. 3, 80.49; Nov. 30, 79.89.

13-68-4aad. City of Cheyenne. Records available: 1944-49. Sept. 1 77.09; Oct. 6, 76.91; Nov. 3, 77.02; Nov. 30, 77.27.

13-68-4acd. City of Cheyenne. Records available: 1944-49. Oct. 6, 100.84; Nov. 3, 101.06; Nov. 30, 100.62.

No measurement made in 1949 in wells 13-68-4cbd and 13-68-4dcc.

13-68-13cc. James Morton. Records available: 1942-49. Feb. 1, 43.34; Mar. 17, 43.22; Aug. 1, 43.84.

13-68-14bbb. City of Cheyenne. Records available: 1945-49. Oct. 5, 85.23.

13-68-14cbd. City of Cheyenne. Records available: 1945-49. Mar. 17, 47.11; Sept. 13, 46.03; Oct. 5, 45.63; Nov. 2, 45.96; Nov. 30, 45.78.

14-67-36ccc. Curtis Vaughn. Records available: 1941-49. Mar. 7, 42.22.

14-68-14cb. City of Cheyenne. Records available: 1941-48. No measurement made in 1949.

Measurement discontinued in wells 14-68-17dcd, 14-68-20abc, and 14-68-20bab.

14-68-20bbb. City of Cheyenne. Records available: 1941-49. Aug. 1, 7.06; Sept. 1, 7.03.

14-68-23ddc. City of Cheyenne. Records available: 1940-47, 1949. Sept. 4, 56.59; Oct. 6, 56.86; Nov. 3, 56.39; Nov. 30, 56.04.

14-68-23ddd. City of Cheyenne. Records available: 1941-48. Measurement discontinued.

14-68-25dda. City of Cheyenne. Records available: 1941-49. Sept. 14, 35.40; Oct. 5, 34.84; Nov. 3, 34.70; Nov. 30, 36.53.

14-68-26cbcl. City of Cheyenne. Records available: 1940-49. Oct. 6, 29.17.

14-68-27dcc. City of Cheyenne. Records available: 1940-49. Sept. 14, 48.29; Oct. 6, 47.34; Nov. 3, 46.53; Nov. 30, 45.80.

14-68-33abc. City of Cheyenne. Drilled municipal well in gravel of Ogallala formation, diameter 8 to 10 inches, depth 230 feet. Records available: 1947-49.

Date	Water level	Date	Water level	Date	Water level
Feb. 14, 1947	126.22	Sept. 10, 1947	127.33	Sept. 14, 1949	128.20
Apr. 7	124.99	Nov. 4	123.58	Oct. 6	124.99
28	122.44	Feb. 18, 1948	126.89	Nov. 3	126.20
June 24	121.32	Oct. 26	132.58		

14-68-33dcc. City of Cheyenne. Records available: 1945-48. No measurement made in 1949.

14-68-34aab. City of Cheyenne. Records available: 1940-49. Sept. 14, 36.49; Oct. 6, 35.55; Nov. 3, 34.84; Nov. 30, 34.12.

No measurement made in 1949 in wells 14-68-34dbd and 14-68-34ddd.

14-68-35cac. City of Cheyenne. Records available: 1945-49. Oct. 5, 75.82; Nov. 3, 75.84; Nov. 30, 75.36.

14-68-35cdd. City of Cheyenne. Records available: 1945-48. Measurement discontinued.

14-68-36ac. City of Cheyenne. Records available: 1941-49. Aug. 1, 23.91; Sept. 1, 24.70; Sept. 14, 22.88; Oct. 5, 22.50; Nov. 3, 22.56; Nov. 30, 22.00.

14-68-36adb. City of Cheyenne. Records available: 1941-49. Sept. 1, 28.12; Sept. 14, 25.99; Oct. 5, 24.72; Nov. 3, 24.17; Nov. 30, 22.64.

14-68-36bc. City of Cheyenne. Records available: 1941-49. Feb. 1, 34.63; Aug. 1, 34.47; Sept. 14, 33.67; Oct. 5, 33.29; Nov. 3, 33.26; Nov. 30, 32.71.

Laramie County

Egbert-Pine Bluffs-Carpenter area

12-60-5ccd. W. T. Young. Records available: 1942-48. Measurement discontinued.

12-61-3abb. Harry Anderson. Records available: 1945-49. Apr. 12, 31.80; July 1, 31.76; Aug. 2, 31.24; Sept. 2, 31.23; Oct. 7, 31.12; Nov. 2, 31.20; Nov. 28, 31.24.

12-62-9aba. D. A. Bunnell. Records available: 1942-48. Measurement discontinued.

12-63-3baa. Roy L. Gasurant. Records available: 1942-49. Apr. 12, 43.51; July 1, 43.30; Aug. 2, 43.12; Sept. 2, 42.98; Oct. 7, 42.72; Nov. 2, 42.74; Nov. 28, 42.78.

Measurement discontinued in wells 12-63-12da and 13-60-8cb.

13-60-31aa. W. T. Young, Jr. Records available: 1940-49. Apr. 12, 36.86; July 1, 37.62; Aug. 2, 43.62; Sept. 2, 43.55; Oct. 7, 38.22; Nov. 2, 37.75; Nov. 28, 37.30.

Measurement discontinued in wells 13-60-31ddd, 13-61-3dc, 13-61-18bc, 13-61-24aa, 13-61-34cb, 13-62-21ccc, 13-62-34ccd, 13-63-8acc, 13-63-22bba, 13-63-26ca, and 14-60-3daa.

14-60-5bcc. C. C. Gross. Records available: 1943-49. June 16, 23.83; Aug. 1, 35.11; Sept. 2, 33.37; Oct. 7, 33.66; Nov. 2, 31.09; Nov. 28, 31.30.

Measurement discontinued in wells 14-60-8bcc, 14-60-8cbc, 14-60-10dcc, and 14-60-11bbb.

14-60-11bcc1. J. R. Wilkinson Estate. Records available: 1943-49. Feb. 3, 16.40; Apr. 11, 13.16; June 16, 14.98; Aug. 2, 17.07; Sept. 2, 17.05; Nov. 2, 16.50; Nov. 23, 16.54.

Measurement discontinued in wells 14-60-11cbc and 14-60-14bbc.

14-60-28bb. Herbert Campbell. Records available: 1940-49. Apr. 8, 24.90; Oct. 7, 27.48; Nov. 2, 26.37; Nov. 28, 26.20.

Measurements discontinued in wells 14-60-29bbc, 14-61-2ca, 14-61-7ccc, 14-61-14ab, 14-61-16bbb, 14-61-18bbc, and 14-61-29bb.

14-62-24ad. Union Pacific Railroad. Records available: 1940-49. Apr. 8, 31.26; July 1, 29.11; Aug. 1, 31.14; Sept. 2, 29.42; Oct. 7, 29.97; Nov. 2, 30.11; Nov. 28, 29.86.

14-62-24daa. Fred Shuetz. Records available: 1943-48. Measurement discontinued.

15-60-29bbc. W. T. Young. Records available: 1945-49. Apr. 11, 57.75; June 16, 58.39; Oct. 7, 59.08; Nov. 2, 59.90; Nov. 28, 59.51.

Measurements discontinued in wells 15-60-30cb, 15-60-31add, and 15-60-34bc.

Horse-Bear Creek Area

18-67-28cac. Ernest Nimmo. Dug domestic well, in alluvium, diameter 72 inches, depth 49.8 feet. Records available: 1949. Sept. 1, 8.90; Oct. 27, 7.22; Nov. 16, 11.07; Dec. 9, 11.21.

Natrona County

29-86-19cc. James Grieves. (Dumbell Ranch). Records available: 1942-43, 1946-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 7	9.36	June 6	6.97	Aug. 4	8.57	Nov. 17	8.37
May 6	8.82	9	6.59	Sept. 15	5.89	Dec. 7	8.74
26	7.91	July 14	7.63	Oct. 6	7.37		

29-87-33ca. State of Wyoming. Records available: 1942-43, 1946-49.

Mar. 7	6.10	June 9	4.47	Aug. 4	5.45	Oct. 6	6.02
May 6	5.32	July 5	4.37	Sept. 4	5.10	Nov. 17	6.25
26	4.07	14	4.73	15	6.13	Dec. 7	6.24
June 6	3.56						

Platte County

Wheatland Flats

23-68-7bcb. Alex Stugart. Dug unused well in terrace deposits, diameter 48 inches, depth 11 feet. Records available: 1948-49. Aug. 25, 1948, 4.46; Oct. 13, 3.85; Dec. 7, 3.96; Apr. 29, 1949, 3.82; July 22, 3.20; Sept. 16, 3.21; Nov. 16, 3.08.

23-68-10ddd. School district. Drilled unused well in terrace deposits, diameter 5 inches. Records available: 1948-49. Oct. 1, 1948, 16.23; Mar. 3, 1949, 18.55; Apr. 28, 19.04; July 22, 12.38; Sept. 16, 13.74; Nov. 16, 16.41.

23-68-18ccc. K. V. Howe. Dug unused well in terrace deposits, diameter 48 inches, depth 40 feet. Records available: 1948-49. Aug. 23, 1948, 13.51; Oct. 13, 19.01; Dec. 7, 22.94; Mar. 3, 1949, 28.47; Apr. 28, 28.52; July 22, 16.20; Sept. 16, 16.01; Nov. 16, 21.36.

24-68-6abb. Owner unknown. Dug unused well, diameter 36 inches. Records available: 1948-49. Sept. 13, 1948, 1.77; Oct. 14, 2.23; Dec. 7, 3.23; Apr. 28, 1949, 5.09; July 22, 1.81; Sept. 16, 1.83; Nov. 16, 2.10.

24-68-11cdd. A. F. Bowen. Dug unused well in terrace deposits, diameter 36 inches. Records available: 1948-49. Aug. 31, 1948, 1.19; Oct. 14, 1.10; Dec. 7, 1.57; Mar. 4, 1949, 1.79; Apr. 28, 2.20; July 22, 0.90; Sept. 16, 0.96; Nov. 16, 1.20.

24-68-19dcc. Owner unknown. Drilled stock well in terrace deposits, diameter 6 inches. Records available: 1948-49. Sept. 14, 1948, 3.18; Oct. 14, 3.16; Dec. 7, 6.02; Mar. 4, 1949, 9.45; Apr. 28, 11.90; July 22, 10.89; Nov. 16, 5.87.

25-67-27ccc. Lester Cobb. Drilled stock well in Tertiary sediments, diameter 6 inches, depth 150 feet. Records available: 1948-49. Sept. 8, 1948, 83.62; Oct. 14, 83.06; Dec. 8, 84.35; Mar. 4, 1949, 87.25.

25-67-31ccc. E. T. Hall. Dug and drilled domestic well in terrace deposits, diameter 36 inches, depth 28 feet. Records available: 1948-49. Sept. 4, 1948, 12.34; Oct. 14, 13.70; Dec. 8, 16.99; Mar. 4, 1949, 19.04; Apr. 29, 20.61; July 22, 10.03; Sept. 16, 10.02; Nov. 16, 15.45.

25-68-33dcd. Lester Pitts. Dug unused well in terrace deposits, diameter 24 inches, depth 8 feet. Records available: 1948-49. Sept. 4, 1948, 1.94; Oct. 14, 1.54; Dec. 8, 1.16; Mar. 4, 1949, 0.91; Apr. 29, 1.14; July 22, 0.02; Sept. 16, 0.35; Nov. 16, 0.00.

Platte County

Glendo area

27-68-20dcb. Steven Willadsen. Drilled unused well in alluvium, diameter 6 inches. Records available: 1948-49. Nov. 2, 1948, 15.72; July 25, 1959, 8.50; Sept. 13, 12.19; Oct. 27, 14.51; Nov. 16, 13.66; Dec. 9, 13.19.

27-68-30acc. M. L. Coleman. Drilled irrigation well in alluvium, diameter 4 inches, depth 22 feet. Records available: 1948-49. Nov. 3, 1948, 10.24; July 26, 1949, 7.15; Sept. 13, 8.73; Oct. 27, 9.49; Nov. 16, 9.78; Dec. 9, 9.92.

28-68-27abb. D. W. Brown. Drilled unused well in Brule formation, diameter 6 inches, depth 58 feet. Records available: 1949. July 30, 29.62; Sept. 16, 31.18; Oct. 27, 25.05; Nov. 16, 24.89; Dec. 9, 28.32.

28-68-27abc. D. W. Brown. Dug domestic and irrigation well in alluvium, 48 by 60 inches square, depth 12 feet. Records available: 1949. Aug. 30, 5.62; Sept. 16, 8.76, pumping; Oct. 27, 3.57; Nov. 16, 3.05; Dec. 9, 3.26.

29-68-21bbb. Clark Coleman. Drilled stock well in Brule formation, diameter 6 inches, depth 94 feet. Records available: 1948-49. Nov. 4, 1948, 35.16; Aug. 23, 1949, 31.17; Sept. 15, 28.52; Oct. 27, 33.15; Nov. 16, 33.15; Dec. 9, 30.90.

29-68-21dad. Hauf Bros. Drilled domestic well in alluvium, diameter 6 inches, depth 58 feet. Records available: 1948-49. Nov. 5, 1948, 8.23; Aug. 23, 1949, 9.53; Sept. 15, 9.29; Oct. 27, 5.94; Nov. 16, 9.28; Dec. 9, 9.11.

Sublette County

35-111-8db. Robert Albert. Records available: 1942-49.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	28.72	Apr. 11	29.44	Sept. 11	24.05	Nov. 16	26.68
Feb. 17	29.00	July 12	24.94	Oct. 13	24.45	Dec. 15	27.52
Mar. 30	29.51	Aug. 11	22.56				