Water Levels and Artesian Pressures in Observation Wells in the United States in 1952

Part 5. Northwestern States

Prepared under the direction of A. N. SAYRE, *Chief, Ground Water Branch*

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PREFACE

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

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WATER LEVELS AND ARTESIAN PRESSURES IN OBSERVATION WELLS IN THE UNITED STATES IN 1952

Part 5. NORTHWESTERN

Introduction

By A. N. Sayre

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 for each year were published in a single volume--1935, 777; 1936, 817; 1937, 840; 1938, 845; 1939, 886. Since 1940 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-Supply Papers from 1940 through 1952.

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
1950	1165	1166	1167	1168	1169	1170
1951	1191	1192	1193	1194	1195	1196
1952	1221	1222	1223	1224	1225	1226

The objectives of the observation-well program are to provide a day-to-day evaluation of available ground-water supplies, to facilitate the prediction of trends in ground-water levels that will indicate the probable status of important ground-water supplies in the future, to delineate present or potential areas of detrimentally high or low ground-water levels, to aid in the prediction of the base flow of streams, to determine the several forces that act on a ground-water body, and to demonstrate the interplay of those forces in the ground-water regimen, to furnish information for use in basic research, and to provide long-term continuous records of fluctuations of water levels in representative wells. These selected records serve as a framework to which many short-term records collected during an intensive investigation may be related.

Water levels in wells are seldom stationary but move up or down a fraction of an inch or many feet within a short time. Water-table wells may be influenced by direct recharge from precipitation, withdrawals from wells or springs, evapotranspiration by vegetation, evaporation from the soil, and by changes in atmospheric pressure. Artesian wells are influenced over large areas by changes in the rate of pumping from other wells, changes in atmospheric pressure, earthquakes, ocean tides, earth tides, and by recharge from precipitation, although the recharge may not be noticeable immediately. When accurate comparisons of water levels are made it is desirable to apply corrections for these influences, several of which may be compensating or additive depending upon the conditions at those particular times.

Water-level measurements are given in feet with reference to land-surface datum or sea-level datum. Land-surface datum is a precise datum plane that is approximately at land surface at each well. Mean sea level (msl) is the datum plane on which the national network of precise levels is based. When some measurements in a table are above and others are below the plane of reference, a plus (+) or minus (-) sign is placed immediately preceding the first entry in each column. Readings between minus signs are below the plane of reference and those between plus signs are above the plane of reference.

For the most part, discussions of precipitation in this report are based on data furnished by the United States Weather Bureau.

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.

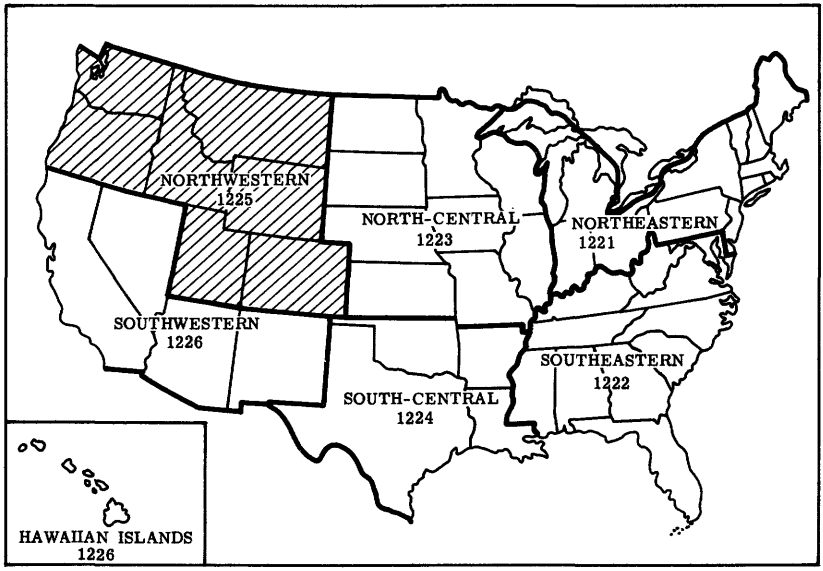

Figure 1.--Outline map of the United States showing areas included in each of the six water-supply papers on water levels and artesian pressures in observation wells in 1952. The shaded area indicates the States included in this volume.

Penn Livingston had general charge of the nation-wide observation-well program; Verda M. Dougherty edited the reports; and Rodney Hart and Marie H. Adler edited the illustrations. This volume was typed by Jean B. Evans.

COLORADO

By V. M. Burtis

Scope of Water-Level Program

The observation-well program in Colorado was continued in 1952 in cooperation with the Colorado Water Conservation Board and the Colorado Agricultural Experiment Station. In 1952, measurements were made in 214 wells, 3 of which were equipped with recording gages. Water levels in 126 wells were measured by W. E. Code of the Agricultural Experiment Station. (See figs. 2-9 for location of observation wells.)

Precipitation

Precipitation in Colorado was above normal in January, March, August, and November, and was about normal during April and May. The precipitation during the remainder of the year was below normal. The extended drought of the southwest continued to affect parts of southeastern Colorado where some areas received less precipitation than in any of the drought years of the 1930's. Precipitation in parts of Baca County was about 7 inches which is less than 50 percent of normal.

Interpretation of Water-Level Fluctuations

Water levels in the most heavily pumped areas of the State have declined below the 10-year normal, except in the South Platte Valley between Denver and Kersey. In the main stem of the South Platte and in its major tributaries where surface water is applied for irrigation, the water levels have changed very little from last year. In the tributary valleys where little or no surface water is applied and where pumping was heavy, the water levels continued to decline at a serious rate. In the Kiowa-Bijou area in Morgan County and the Gary area in Beaver Creek valley south of Brush, the water table is approaching a critical stage.

Water levels in the Arkansas Basin remained about the same as last year even though precipitation in the basin was below normal. There were slight to moderate declines and rises along the main stem, slight declines in Huerfano County, and slight rises in Baca County.

Water levels in San Luis Valley rose abruptly because of the above-average runoff in 1952 after having reached new lows in 1951. The rise was as much as 9 feet in some areas north of Monte Vista. In an area of 283 square miles north of Monte Vista the rise of water level caused a gain in ground-water storage amounting to 135,000 acre-feet.

Well-Numbering System

Wells are numbered in accordance with the Bureau of Land Management system of land subdivision. The first letter of a well number gives the quadrant of the meridian and base-line system, beginning in the northeast quadrant (A) and proceeding counterclockwise. All wells in Colorado lie in the northwest (B) and southwest (C) quadrants of the sixth principal meridian and fortieth parallel base-line system. The first numeral of a well number indicates the township, the second the range, and the third the section. The lower-case letters a, b, c, and d following the section number locate the well within the section. The first letter denotes the quarter section, the second letter the quarter-quarter section, and the third letter the quarter-quarter-quarter section.

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Adams County

C-1-60-4ccc. W. L. Freeman. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 86 feet. Land-surface datum is 4,800.9 feet above msl. Highest water level 18.00 below lsd, Nov. 29, 1940; lowest 28.05 below lsd, Oct. 16, 1952. Records available: 1940-52. Apr. 4, 25.89; Oct. 16, 28.05.

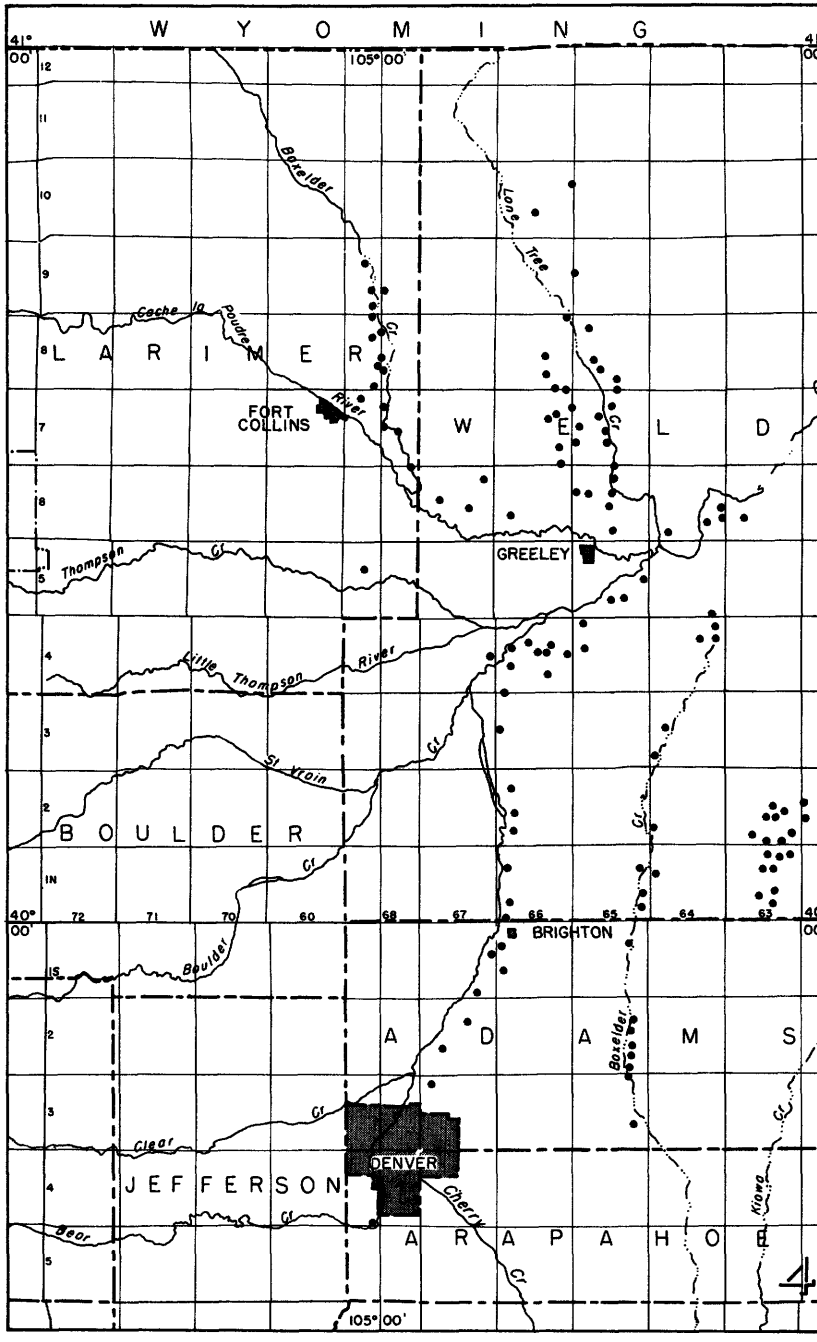

Figure 2. --Location of observation wells in Adams, Arapahoe, Larimer, and Weld Counties, Colo., 1952.

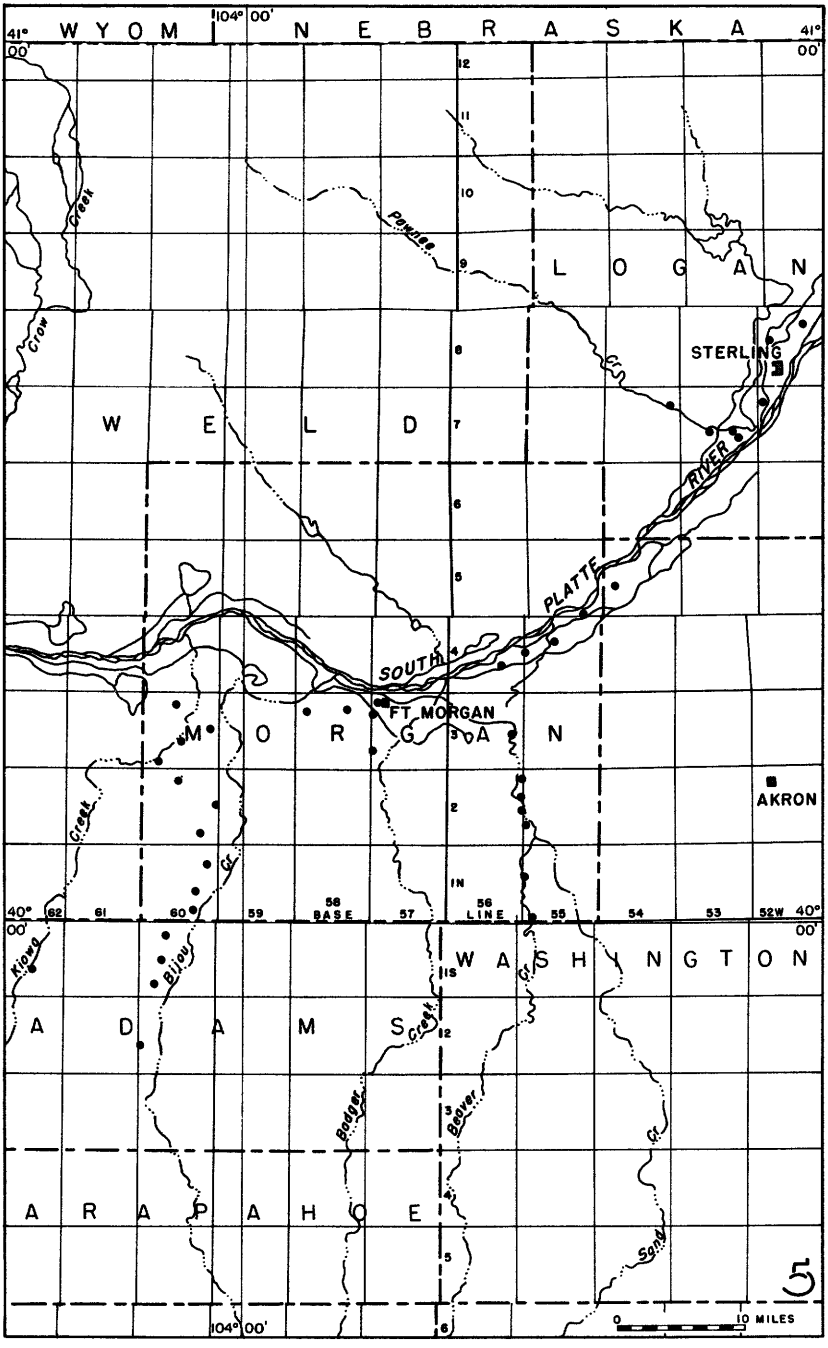

Figure 3.--Location of observation wells in Adams, Logan, Morgan, and Washington Counties, Colo., 1952.

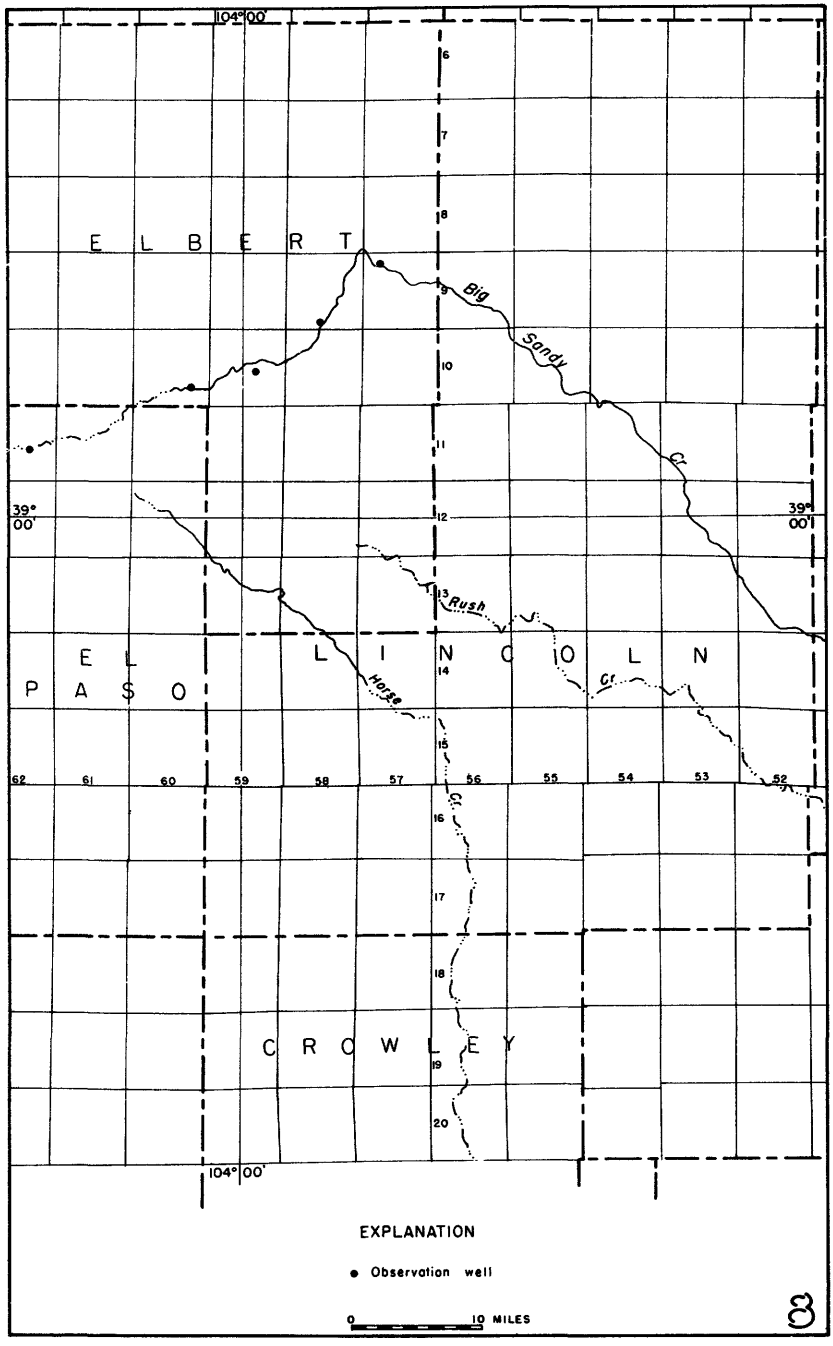

Figure 4. --Location of observation wells in Elbert and El Paso Counties, Colo., 1952.

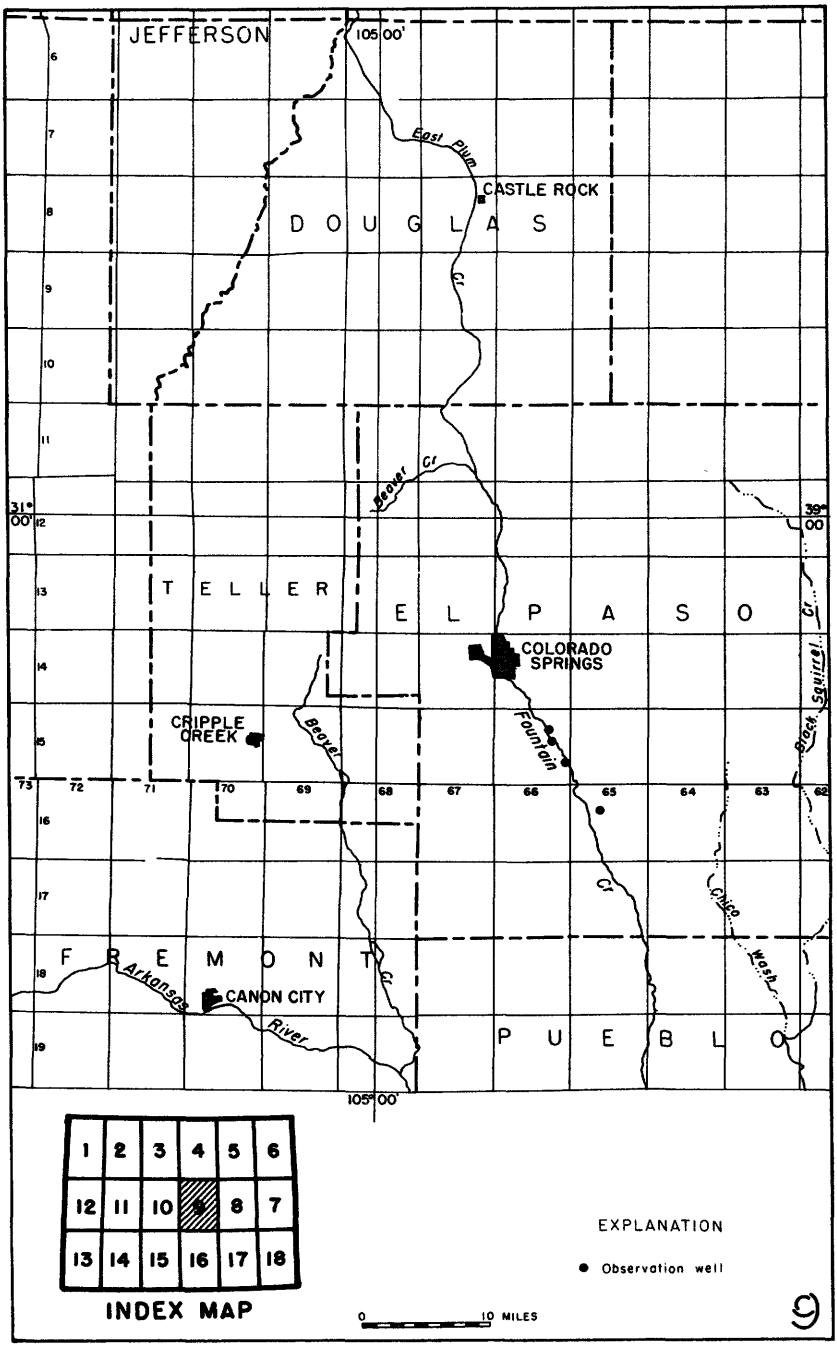

Figure 5. --Location of observation wells in El Paso County, Colo., 1952.

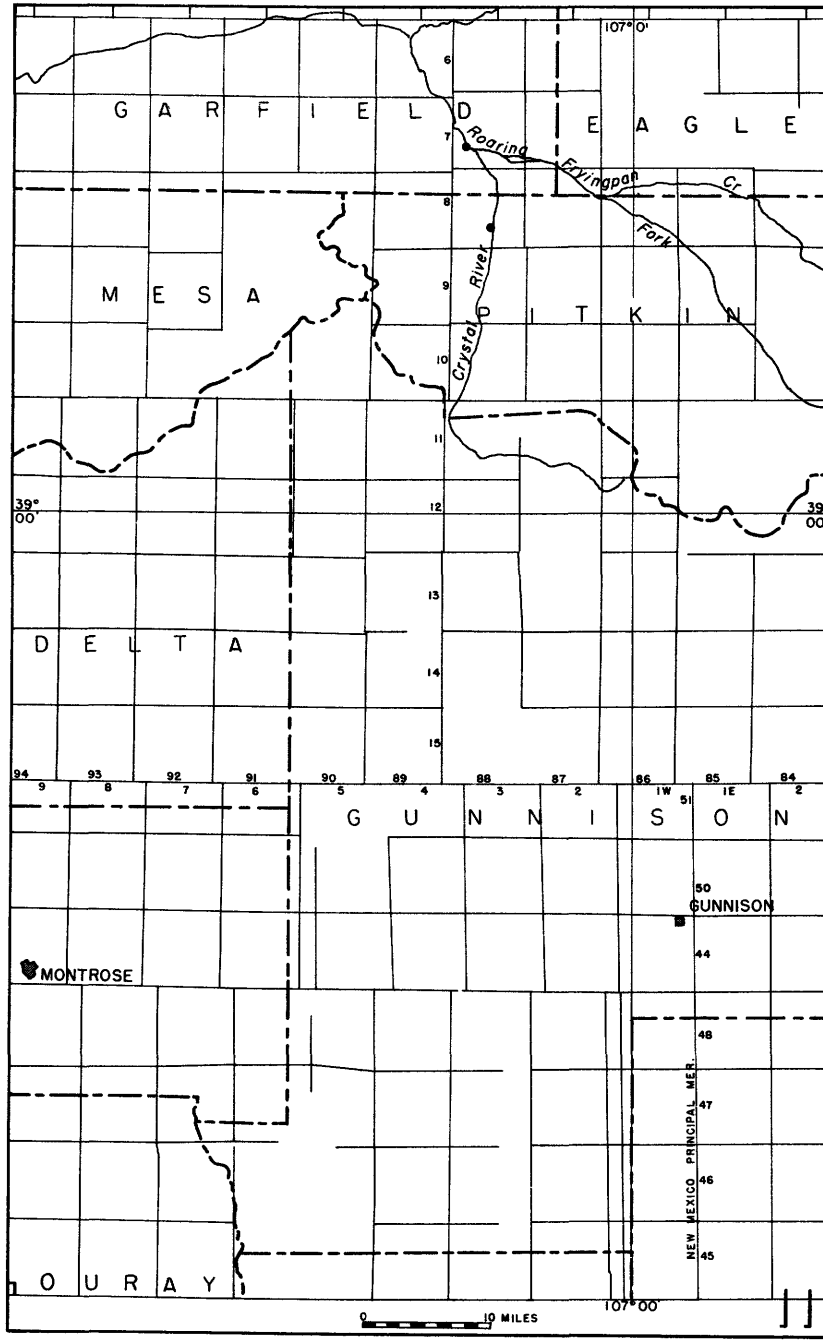

Figure 6. --Location of observation wells in Garfield and Pitkin Counties, Colo., 1952.

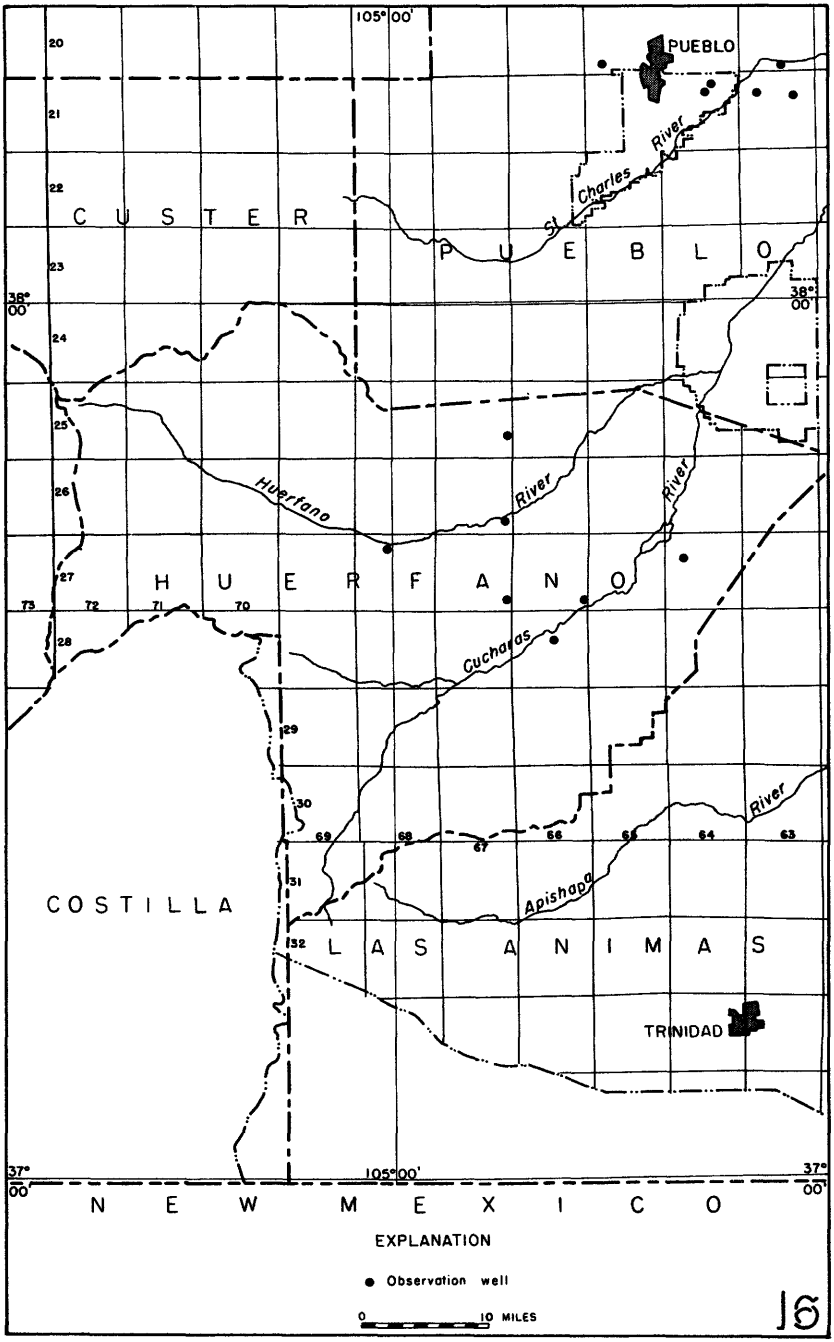

Figure 7.--Location of observation wells in Huerfano and Pueblo Counties, Colo., 1952.

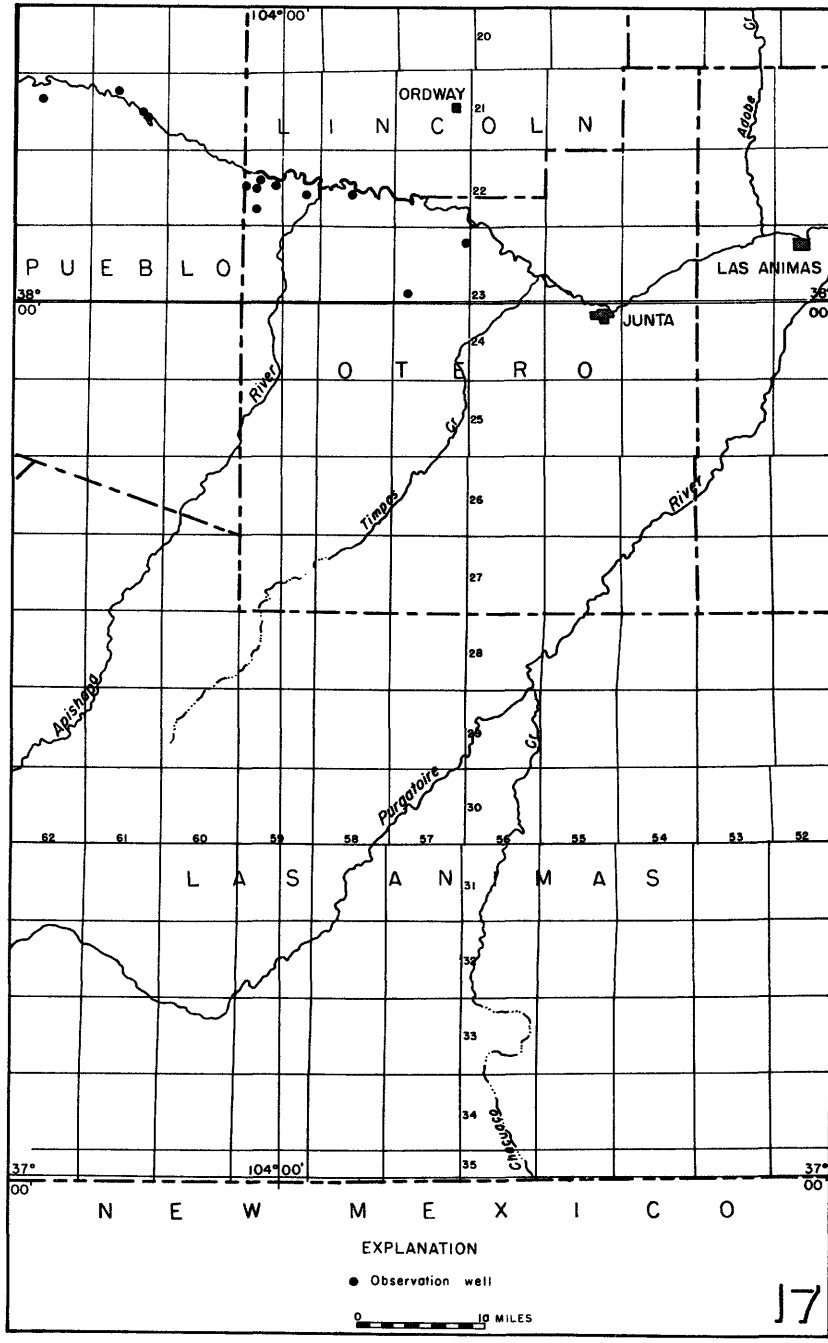

Figure 8.--Location of observation wells in Otero and Pueblo Counties, Colo., 1952.

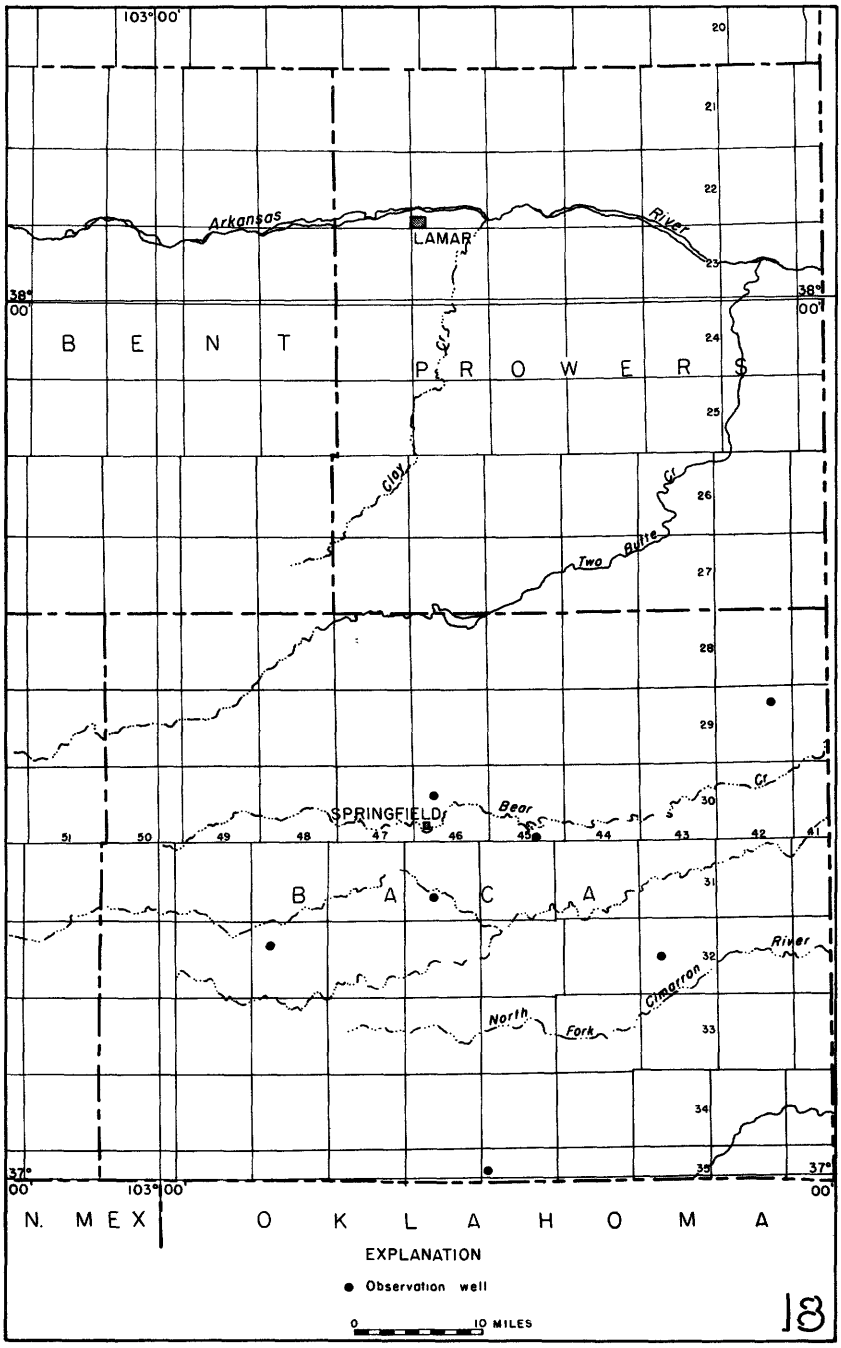

Figure 9.--Location of observation wells in Baca County, Colo., 1952.

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C-60-17dcc. Carl Sanden. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 87 feet. Land-surface datum is 4,830.8 feet above msl. Highest water level 25.09 below lsd, Nov. 19, 1942; lowest 39.40 below lsd, Oct. 16, 1952. Records available: 1942-52. Apr. 4, 31.34; Oct. 16, 39.40.

C-1-60-29cbd. J. D. Singleton. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 87 feet. Land-surface datum is 4,867.4 feet above msl. Highest water level 29.42 below lsd, Nov. 18, 1943; lowest 37.90 below lsd, Oct. 16, 1952. Records available: 1934, 1941-52. Apr. 4, 32.80; Oct. 16, 37.90.

C-1-62-22dac. Charles B. Nordloh. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 82 feet. Highest water level 44.21 below lsd, Nov. 25, 1949; lowest 47.08 below lsd, Oct. 30, 1946. Records available: 1946-52. Nov. 6, 46.71.

C-1-62-34cd. John H. Nordloh. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 85 feet. Highest water level 33.22 below lsd, Oct. 30, 1946; lowest 45.52 below lsd, Nov. 6, 1952. Records available: 1946, 1948-49, 1951-52. Nov. 6, 45.52.

C-1-65-11cd. David Patton. Drilled irrigation water-table well in alluvium, diameter 30 inches, depth 42 feet. Highest water level 12.70 below lsd, Nov. 16, 1948; lowest 16.82 below lsd, Nov. 6, 1952. Records available: 1947-52. Apr. 17, 16.20; Nov. 6, 16.82.

C-1-66-7cc. C. Hose. Dug irrigation water-table well in alluvium, diameter 5 feet, depth 28 feet. Highest water level 15.90 below lsd, Sept. 17, 1930; lowest 22.67 below lsd, May 8, 1941. Records available: 1929-52. Apr. 17, 21.12; Nov. 6, 17.90.

C-1-66-19dc. A. B. Perry. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 44 feet. Highest water level 26.35 below lsd, Nov. 9, 1949; lowest 34.82 below lsd, May 1, 1951. Records available: 1941-52. Apr. 17, 33.90; Nov. 6, 29.46.

C-1-67-13db. Edward Schnute. Dug irrigation water-table well in alluvium, diameter 8 feet, depth 32 feet. Highest water level 16.21 below lsd, Sept. 17, 1930; lowest 25.65 below lsd, May 8, 1941. Records available: 1929-52. Apr. 17, 23.13; Nov. 6, 18.25.

C-1-67-35cda. L. A. Ernst. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 36 feet. Highest water level 17.00 below lsd, Oct. 28, 1947; lowest 23.40 below lsd, May 8, 1941. Records available: 1941-52. Apr. 17, 22.14; Nov. 6, 19.62.

C-2-60-19bcc. Oscar Helgeson. Dug unused water-table well in alluvium, diameter 10 feet, depth 20 feet. Highest water level 14.50 below lsd, Sept. 4, 1930; lowest 18.93 below lsd, Feb. 7, 1949. Records available: 1930, 1940-50. No measurement made in 1952.

C-2-65-11dcd. Box Elder Farms. Drilled irrigation water-table well in alluvium, diameter 24 inches. Highest water level 26.99 below lsd, Nov. 16, 1948; lowest 29.59 below lsd, Nov. 6, 1952. Records available: 1938-52. Apr. 17, 28.57; Nov. 6, 29.59.

C-2-65-14dcb. Box Elder Farms. Drilled irrigation water-table well in alluvium, diameter 4 feet. Highest water level 12.70 below lsd, Nov. 16, 1948; lowest 15.33 below lsd, May 8, 1941. Records available: 1933-52. Apr. 17, 14.70.

C-2-65-23dab. Box Elder Farms. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 58 feet. Highest water level 13.79 below lsd, Apr. 21, 1949; lowest 19.33 below lsd, Nov. 6, 1952. Records available: 1933-52. Apr. 17, 16.98; Nov. 6, 19.33.

C-2-65-26dba. Box Elder Farms. Drilled irrigation water-table well in alluvium, diameter 24 inches. Highest water level 16.67 below lsd, Apr. 22, 1948; lowest 26.30 below lsd, Nov. 6, 1952. Records available: 1934, 1941-52. Apr. 17, 21.71; Nov. 6, 26.30.

C-2-65-35dbb. Box Elder Farms. Drilled irrigation water-table well in alluvium, diameter 4 feet. Highest water level 14.04 below lsd, May 13, 1942; lowest 24.59 below lsd, Nov. 6, 1952. Records available: 1933-52. Apr. 17, 19.50; Nov. 6, 24.59.

C-2-65-35dcd. Box Elder Farms. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 47 feet. Highest water level 12.04 below lsd, May 13, 1942; lowest 21.50 below lsd, Nov. 6, 1952. Records available: 1933-52. Apr. 17, 18.03; Nov. 6, 21.50.

C-2-67-10dcd. Cora Wall. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 41 feet. Highest water level 22.27 below lsd, Oct. 28, 1947; lowest 30.09 below lsd, May 1, 1951. Records available: 1937-52. Apr. 17, 29.20; Nov. 6, 24.48.

C-2-67-20dcd. Charles Fadden. Dug irrigation water-table well in alluvium, diameter 10 feet, depth 40 feet. Highest water level 22.95 below lsd, Oct. 28, 1947; lowest 25.90 below lsd, Nov. 28, 1950. Records available: 1936-52. Apr. 17, 25.35; Nov. 6, 25.03.

C-3-65-23ddd. Jeff Drohan. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 49 feet. Highest water level 14.20, Apr. 22, 1948; lowest 25.26 below lsd, Nov. 6, 1952. Records available: 1941-52. Apr. 17, 20.38; Nov. 6, 25.26.

C-3-67-6dd. H. L. Swanson. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 29 feet. Highest water level 16.80 below lsd, Apr. 22, 1948; lowest 22.43 below lsd, Sept. 15, 1941. Records available: 1941-52. Apr. 17, 18.18; Nov. 6, 18.74.

Arapahoe County

C-4-68-33cd. Frank Hornbuckle. Driven observation water-table well in alluvium, diameter $1\frac{1}{4}$ inches, depth 23 feet. Highest water level 4.60 below lsd, June 27, 1947; lowest 11.72 below lsd, Feb. 18, 1952. Records available: 1942-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	11.51	Mar. 3	11.64	July 2	9.58	Oct. 1	9.27
18	11.50	20	11.70	27	10.04	20	11.15
Feb. 4	11.67	Apr. 23	11.26	Aug. 5	9.30	Nov. 24	8.82
18	11.72	May 6	10.15	27	9.30	Dec. 31	8.54

Baca County

C-30-45-34ccc. C. J. Alfrey. Drilled stock water-table well in Dakota sandstone and Ogallala formation, diameter 6 inches, depth 137 feet. Land-surface datum is 4,188.4 feet above msl. Highest water level 86.43 below lsd, Dec. 30, 1952; lowest 88.28 below lsd, Sept. 7, 1947. Records available: 1947-52.

Jan. 16	86.80	Apr. 16	86.63	July 9	86.56	Oct. 17	86.73
Feb. 15	86.66	May 24	86.74	Aug. 11	86.60	Nov. 20	86.47
Mar. 14	86.74	June 20	86.68	Sept. 16	86.50	Dec. 30	86.43

C-30-46-17bc. Maud A. Rarex. Dug unused stock water-table well in alluvium, diameter 10 feet, depth 15 feet. Highest water level 8.73 below lsd, May 18, 1951; lowest 12.99 below lsd, Oct. 1, 1948. Records available: 1947-52.

Jan. 18	9.43	Apr. 18	9.38	July 9	10.36	Oct. 17	11.60
Feb. 15	9.32	May 24	9.35	Aug. 11	10.80	Nov. 20	11.24
Mar. 14	9.27	June 20	9.89	Sept. 17	11.32	Dec. 30	10.65

C-31-46-28bbc. Ethyl Taylor. Drilled unused water-table well in Dakota sandstone, diameter 6 inches, depth 163 feet. Land-surface datum is 4,439.9 feet above msl. Highest water level 132.34 below lsd, Mar. 16, 1951; lowest 134.18 below lsd, June 2, 1947. Records available: 1947-52. Jan. 18, 132.83; Feb. 15, 132.55; Mar. 14, 133.08; Apr. 18, 132.52. Measurement discontinued.

C-32-43-20aaa. H. F. Koelsch. Drilled unused artesian well in Dakota sandstone, diameter 6 inches, depth 171 feet. Land-surface datum is 3,927.3 feet above msl. Highest water level 84.58 below lsd, Apr. 18, 1952; lowest 86.58 below lsd, Aug. 16, 1949. Records available: 1947-52.

Jan. 18	84.94	Apr. 18	84.58	July 10	84.66	Oct. 17	85.01
Feb. 15	84.64	May 24	84.66	Aug. 11	84.86	Nov. 20	84.76
Mar. 14	85.02	June 20	84.65	Sept. 17	84.78	Dec. 31	84.66

C-32-48-8cbb. S. D. Huff. Drilled unused water-table well in Dakota sandstone, diameter 6 inches, depth 247 feet. Land-surface datum is 4,798.5 feet above msl. Highest water level 191.60 below lsd, Dec. 30, 1952; lowest 194.32 below lsd, Aug. 7, 1947. Records available: 1947-52.

Jan. 18	192.28	Apr. 18	191.92	July 9	191.87	Oct. 17	192.62
Feb. 15	192.17	May 24	192.17	Aug. 11	191.97	Nov. 19	192.00
Mar. 14	192.24	June 19	191.63	Sept. 17	191.83	Dec. 30	191.60

C-33-45-13dad. J. A. and M. W. Davis. Drilled unused water-table well in Dakota sandstone, diameter 6 inches, depth 186 feet. Land-surface datum is 4,150.8 feet above msl. Highest water level 75.55 below lsd, Dec. 31, 1952; lowest 80.09 below lsd, Dec. 21, 1947. Records available: 1947-52.

Jan. 18	76.10	Apr. 18	75.80	July 10	75.76	Oct. 17	75.85
Feb. 15	75.89	May 24	75.86	Aug. 11	75.80	Nov. 20	75.67
Mar. 14	76.02	June 20	75.70	Sept. 17	75.73	Dec. 31	75.55

C-35-45-7db. G. S. Shaw. Drilled unused artesian well in Purgatoire formation, diameter 6 inches, depth 231 feet. Land-surface datum is 4,098.2 feet above msl. Highest water level 166.85 below lsd, Jan. 18, 1952; lowest 170.00 below lsd, July 13, 1948. Records available: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	166.85	Apr. 18	167.52	July 10	167.60	Oct. 17	168.45
Feb. 15	167.15	May 24	167.65	Aug. 11	167.90	Nov. 20	168.60
Mar. 14	167.54	June 20	167.47	Sept. 17	168.02	Dec. 31	168.39

Elbert County

C-9-57-8abb. J. C. Mattson. Drilled unused water-table well in alluvium, diameter 6 inches, depth 28 feet. Highest water level 5.00 below lsd, July 2, 1947; lowest 7.14 below lsd, Aug. 14, 1952. Records available: 1945-52.

Jan. 16	6.02	Apr. 16	5.79	July 11	6.87	Oct. 15	7.04
Feb. 13	6.00	May 20	5.82	Aug. 14	7.14	Nov. 18	6.80
Mar. 12	5.97	June 18	6.48	Sept. 18	7.13		

C-9-58-34ccb. Heber Ellsworth. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 55 feet. Highest water level 10.48 below lsd, July 2, 1947; lowest 16.27 below lsd, July 12, 1950. Records available: 1945-52. Jan. 16, 12.56; Feb. 13, 12.58; Mar. 12, 12.54; Apr. 16, 12.37; May 20, 11.99; Oct. 15, 15.28; Nov. 18, 14.34.

C-10-59-22ab. William Groff. Drilled irrigation water-table well in alluvium, diameter 24 to 18 inches, depth 55 feet. Land-surface datum is 5,800.1 feet above msl. Highest water level 10.52 below lsd, May 3, 1947; lowest 13.47 below lsd, July 20, 1951. Records available: 1945-52.

Jan. 16	11.53	Apr. 16	11.30	July 11	12.84	Oct. 15	12.77
Feb. 13	11.46	May 20	11.23	Aug. 14	13.00	Nov. 18	12.60
Mar. 12	11.42						

C-10-60-26cd. Simla Cemetery. Drilled irrigation water-table well in alluvium, diameter 6 inches, depth 40 feet. Highest water level 23.30 below lsd, July 2, 1947; lowest 26.90 below lsd, Oct. 18, 1950. Records available: 1945-52.

Jan. 16	24.50	Apr. 16	24.20	July 11	24.98	Oct. 15	25.37
Feb. 13	24.40	May 20	24.18	Aug. 14	25.35	Nov. 18	25.22
Mar. 12	24.30	June 18	24.58	Sept. 19	25.26		

El Paso County

C-11-62-22ad. Anthony Eurich. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 44 feet. Land-surface datum is 6,364.8 feet above msl. Highest water level 5.49 below lsd, Aug. 9, 1947; lowest 8.48 below lsd, July 11, 1952. Records available: 1945-52.

Jan. 16	7.62	Apr. 16	7.76	July 11	8.48	Oct. 15	8.35
Feb. 13	7.63	May 20	7.53	Sept. 19	8.18	Nov. 18	8.13
Mar. 12	7.59	June 18	8.17				

C-15-66-11cbd. Venetucci Bros. Drilled irrigation water-table well in alluvium, depth 80 feet. Highest water level 36.57 below lsd, Nov. 4, 1948; lowest 39.20 below lsd, Apr. 7, 1952. Records available: 1944-52. Apr. 7, 39.20; Nov. 18, 38.64.

C-15-66-14abd-2. T. L. Bender. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 53 feet. Highest water level 23.50 below lsd, Apr. 5, 1950; lowest 24.39 below lsd, Nov. 18, 1952. Records available: 1948-52. Apr. 7, 24.34; Nov. 18, 24.39.

C-15-66-25aaa. W. E. Busch. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 43 feet. Highest water level 28.65 below lsd, Nov. 6, 1947; lowest 31.76 below lsd, Nov. 18, 1952. Records available: 1944-52. Apr. 7, 31.05; Nov. 18, 31.76.

C-16-65-16bb. L. F. Oldenstaadt. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 60 feet. Highest water level 27.47 below lsd, Nov. 16, 1947; lowest 39.34 below lsd, Nov. 15, 1951. Records available: 1944-51. No measurement made in 1952.

Garfield County

C-7-88-29ab. J. F. Smith. Dug domestic water-table well in terrace deposits, diameter 36 inches, depth 42 feet. Highest water level 22.31 below lsd, June 14, 1947; lowest 38.90 below lsd, Dec. 18, 1947. Records available: 1942-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	35.87	Apr. 13	35.61	July 13	27.51	Oct. 24	32.10
Feb. 17	35.97	May 14	32.58	Aug. 13	28.70	Nov. 11	33.03
Mar. 18	36.03	June 20	27.28	Sept. 18	30.59	Dec. 16	34.16

Huerfano County

C-25-67-25bcd. C. H. Money. Dug stock water-table well in alluvium, diameter 4 feet depth 26 feet. Highest water level 14.49 below lsd, July 8, 1952; lowest 16.20 below lsd, Oct.16, 1951. Records available: 1951-52.

Jan. 16	15.70	Apr. 16	15.72	July 8	14.49	Oct. 15	16.10
Feb. 13	15.73	May 22	15.28	Aug. 12	15.30	Nov. 18	15.97
Mar. 13	15.75	June 18	14.53	Sept. 18	16.14	Dec. 29	16.07

C-26-67-25cad. Eugene Ellis. Drilled stock water-table well in alluvium, diameter 7 inches, depth 22 feet. Highest water level 7.25 below lsd, Mar. 16, 1950; lowest 9.53 below lsd, Sept. 12, Oct. 16, 1951. Records available: 1950-52.

Feb. 13	8.54	May 22	8.03	Aug. 12	8.85	Nov. 18	8.68
Mar. 13	8.51	June 19	8.09	Sept. 18	9.13	Dec. 29	a8.30
Apr. 16	8.48	July 8	7.80	Oct. 16	9.04		

a Pumping.

C-27-66-36acc. Charles Corsentino. Drilled unused water-table well in alluvium, diameter 6 inches, depth 22 feet. Highest water level 13.53 below lsd, Aug. 12, 1952; lowest 19.33 below lsd, Feb. 14, 1952. Records available: 1950-52.

Jan. 16	19.23	Apr. 17	18.38	July 8	16.25	Oct. 16	15.95
Feb. 14	19.33	May 22	16.45	Aug. 12	13.53	Nov. 19	16.34
Mar. 13	18.81	June 18	16.13	Sept. 18	15.22	Dec. 29	16.94

C-27-67-36aca. Mr. Faris. Drilled stock water-table well in Trinidad sandstone, diameter 7 inches, depth 62 feet. Highest water level 44.15 below lsd, Feb. 7, 1950; lowest 47.10 below lsd, Mar. 13, 1952. Records available: 1950-52.

Jan. 16	46.57	Apr. 17	46.72	July 9	46.65	Oct. 16	46.87
Feb. 14	46.68	May 21	46.55	Aug. 12	46.87	Nov. 18	46.42
Mar. 13	47.10	June 19	46.64	Sept. 18	46.75	Dec. 29	a47.14

a Pumping.

C-27-68-4cbc. Mrs. Thorn. Dug domestic and stock water-table well in alluvium, diameter 36 inches, depth 28 feet. Highest water level 12.38 below lsd, July 9, 1952; lowest 22.80 below lsd, Jan. 8, 1951. Records available: 1950-52.

Jan. 10	20.00	Apr. 9	19.39	July 9	12.38	Sept. 22	16.20
22	19.76	May 5	17.05	22	13.25	Oct. 7	16.94
Feb. 6	19.80	21	14.24	Aug. 6	13.31	20	17.95
19	19.83	June 5	13.50	27	15.72	Nov. 13	19.60
Mar. 3	19.20	17	12.74	Sept. 8	16.45	Dec. 4	20.10

C-28-66-15bcc. Henry Meyer. Drilled unused water-table well in alluvium, diameter 6 inches, depth 67 feet. Highest water level 21.12 below lsd, Nov. 13, 1951; lowest 25.13 below lsd, July 19, 1951. Records available: 1950-52.

Jan. 16	24.67	Apr. 17	24.65	July 8	24.92	Oct. 16	24.86
Feb. 14	24.58	May 22	24.68	Aug. 12	24.87	Nov. 19	24.78
Mar. 13	24.59	June 19	24.82	Sept. 18	24.88	Dec. 29	24.80

C-29-67-19acb. Ewell Woodring. Drilled unused water-table well in sandstone, diameter 7 inches, depth 142 feet. Highest water level 34.54 below lsd, May 22, 1952; lowest 35.76 below lsd, Nov. 19, 1952. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	34.72	Apr. 16	34.65	July 8	35.05	Oct. 16	35.02
Feb. 14	34.63	May 22	34.54	Aug. 12	34.99	Nov. 19	35.76
Mar. 13	34.55	June 19	34.98	Sept. 18	34.97	Dec. 29	35.36

Larimer County

B-5-68-17abb. George Peak. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 24 feet. Highest water level 5.43 below lsd, Oct. 27, 1947; lowest 14.45 below lsd, Apr. 20, 1949. Records available: 1941-52. Apr. 16, 8.58; Nov. 5, 7.55.

B-6-68-1ba. M. J. Warner. Dug irrigation water-table well in alluvium, diameter 4 feet. Highest water level 9.19 below lsd, Oct. 4, 1943; lowest 12.74 below lsd, May 2, 1941. Records available: 1941-52. May 6, 11.53; Nov. 13, 10.75.

B-7-68-5cb. Milton E. Payne. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 76 feet. Highest water level 26.78 below lsd, Nov. 29, 1951; lowest 27.82 below lsd, May 1, 1950. Records available: 1950-52. Dec. 9, 27.64.

B-7-68-10cbb. Drake Estate. Drilled irrigation water-table well in alluvium, diameter 12 inches. Highest water level 2.66 below lsd, July 6, 1929; lowest 7.60 below lsd, May 21, 1938. Records available: 1929-30, 1932-52. May 5, 5.95; Dec. 9, 5.68.

B-7-68-22bbb. Ray Pitcher. Dug irrigation water-table well in alluvium, diameter 6 feet, depth 25 feet. Highest water level 1.58 below lsd, July 6, 1929; lowest 8.33 below lsd, Aug. 6, 1934. Records available: 1928-30, 1932-52. May 6, 5.86; Nov. 13, 5.52.

B-7-68-23cbb. W. A. Scott. Drilled unused water-table well in alluvium, diameter 4 feet. Highest water level 6.30 below lsd, Nov. 16, 1942; lowest 9.50 below lsd, May 2, 1941. Records available: 1941-52. May 6, 7.61; Nov. 13, 6.79.

B-8-68-4bba. A. Heckman. Drilled irrigation water-table well in alluvium, diameter 22 inches, depth 67 feet. Highest water level 16.30 below lsd, Nov. 24, 1944; lowest 31.96 below lsd, Nov. 30, 1950. Records available: 1943-52. May 5, 30.13; Dec. 9, 29.74.

B-8-68-10ebb. A. L. Bee. Dug irrigation water-table well in alluvium, diameter 11 feet, depth 28 feet. Highest water level 5.08 below lsd, July 6, 1929; lowest 23.97 below lsd, Nov. 30, 1950. Records available: 1929, 1932-52. May 5, 21.42; Dec. 9, 22.06.

B-8-68-16aa. R. E. Nutter. Drilled irrigation water-table well in alluvium, diameter 12 inches. Highest water level 15.30 below lsd, Sept. 18, 1929; lowest 28.42 below lsd, Dec. 9, 1952. Records available: 1929-30, 1932-52. May 5, 27.36; Dec. 9, 28.42.

B-8-68-22cbb1. J. E. Swansen. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 38 feet. Highest water level 12.60 below lsd, May 1, 1950; lowest 14.67 below lsd, Dec. 9, 1952. Records available: 1929-30, 1932-52. May 5, 12.44; Dec. 9, 14.67.

B-8-68-27cbb. A. L. Seamans. Dug irrigation water-table well in alluvium, diameter 8 feet, depth 32 feet. Highest water level 8.94 below lsd, July 6, 1929; lowest 15.18 below lsd, Nov. 30, 1950. Records available: 1929-52. May 5, 13.25; Dec. 9, 14.54.

B-8-68-28aab. F. L. Bartels. Drilled irrigation water-table well in alluvium, diameter 12 inches, depth 30 feet. Highest water level 2.98 below lsd, Sept. 18, 1929; lowest 11.75 below lsd, Nov. 30, 1950, Dec. 9, 1952. Records available: 1929-30, 1932-34, 1937-52. May 5, 9.64; Dec. 9, 11.75.

B-8-68-33ccc. F. C. Kluver. Drilled irrigation water-table well in alluvium, diameter 12 inches, depth 33 feet. Highest water level 11.60 below lsd, Sept. 18, 1929; lowest 15.88 below lsd, Oct. 5, 1934. Records available: 1929-30, 1932-52. May 5, 14.36; Dec. 9, 14.80.

B-9-68-17ab. Harlan Seaworth. Drilled irrigation water-table well in alluvium, diameter 20 inches, depth 92 feet. Highest water level 29.08 below lsd, May 9. 1944; lowest 53.10 below lsd, May 1, 1941. Records available: 1939-52. Dec. 9, 46.76.

B-9-68-27ba. John Wagner. Dug unused water-table well in alluvium, diameter 14 feet, depth 30 feet. Highest water level 24.14 below lsd, Dec. 9, 1952; lowest 28.40 below lsd, Apr. 17, 1951. Records available: 1949-52. May 5, 26.89; Dec. 9, 24.14.

B-9-68-28bbb. E. F. Meedel. Dug and drilled irrigation water-table well in alluvium, depth 42 feet. Highest water level 13.17 below lsd, Nov. 13, 1943; lowest 24.71 below lsd, May 1, 1941. Records available: 1938-52. Dec. 9, 23.79.

B-9-68-33bdc. J. Weisshaar. Dug irrigation water-table well in alluvium, diameter 10 feet, depth 35 feet. Highest water level 13.95 below lsd, Sept. 18, 1929; lowest 34.20 below lsd, Nov. 13, 1942. Records available: 1929-33, 1935-52. May 5, 32.13; Dec. 9, 31.50.

Logan County

B-7-53-21bcc. Hessler Bros. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 75 feet. Land-surface datum is 4,041.9 feet above msl. Highest water level 11.88 below lsd, July 8, 1949; lowest 17.15 below lsd, Aug. 28, 1947. Records available: 1943-52. Apr. 10, 14.11; Oct. 20, 14.64.

B-7-53-23bbb. William Nisson. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 102 feet. Land-surface datum is 4,012.0 feet above msl. Highest water level 24.35 below lsd, Oct. 14, 1949; lowest 33.60 below lsd, May 6, 1941. Records available: 1940-52. Apr. 9, 31.06; Oct. 20, 26.48.

B-7-53-26ab. Ben Fish. Drilled irrigation water-table well in alluvium, diameter 12 inches. Land-surface datum is 3,997.4 feet above msl. Highest water level 8.45 below lsd, Oct. 8, 1948, Aug. 10, 1949; lowest 10.62 below lsd, Apr. 3, 1951. Records available: 1928-29, 1935, 1940-52. Apr. 9, 9.97; Oct. 20, 9.23.

B-7-54-12bc. John Amen. Drilled irrigation water-table well in alluvium, diameter 12 inches, depth 40 feet. Land-surface datum is 4,102.8 feet above msl. Highest water level 11.11 below lsd, Apr. 12, 1950; lowest 14.97 below lsd, Oct. 6, 1952. Records available: 1950-52. Apr. 9, 12.69; Oct. 6, 14.97.

B-8-52-10acc. G. A. Henderson. Drilled irrigation water-table well in alluvium, diameter 12 inches, depth 90 feet. Land-surface datum is 3,904.0 feet above msl. Highest water level 2.30 below lsd, Apr. 28, 1929; lowest 5.84 below lsd, Apr. 10, 1952. Records available: 1929-30, 1935, 1940-52. Apr. 10, 5.84; Oct. 10, 5.35.

B-8-52-17cbb. Joseph Willson. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 72 feet. Land-surface datum is 3,984.9 feet above msl. Highest water level 15.91 below lsd, Oct. 8, 1948, Oct. 13, 1949; lowest 20.40 below lsd, May 6, 1941. Records available: 1940-52. Apr. 9, 19.77; Oct. 10, 16.64.

Morgan County

B-1-55-18bcc. R. H. Awmiller. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 68 feet. Land-surface datum is 4,396.3 feet above msl. Highest water level 33.16 below lsd, Apr. 17, 1942; lowest 47.94 below lsd, Oct. 3, 1952. Records available: 1940-52. Apr. 1, 42.66; Oct. 3, 47.94.

B-1-55-31dac. James Bolinger. Dug and drilled irrigation water-table well in alluvium, diameter 12 inches, depth 62 feet. Land-surface datum is 4,437.9 feet above msl. Highest water level 30.91 below lsd, Apr. 17, 1942; lowest 40.60 below lsd, Oct. 9, 1952. Records available: 1940-52. Apr. 1, 36.82; Oct. 9, 40.60.

B-1-56-1dc. Mrs. W. Shaw. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 70 feet. Highest water level 31.30 below lsd, Apr. 17, 1942; lowest 47.34 below lsd, Oct. 3, 1952. Records available: 1940-52. Apr. 1, 41.35; Oct. 3, 47.34.

B-1-60-12cc. Anna Hogan. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 116 feet. Land-surface datum is 4,711.3 feet above msl. Highest water level 30.16 below lsd, Apr. 30, 1947; lowest 47.55 below lsd, Oct. 21, 1952. Records available: 1946-52. Apr. 4, 38.29; Oct. 21, 47.55.

B-1-60-23bcc. Louis Westhoff. Drilled irrigation water-table well in alluvium, diameter 30 inches, depth 89 feet. Land-surface datum is 4,731.0 feet above msl. Highest water level 14.29 below lsd, Apr. 1, 1943; lowest 23.40 below lsd, Oct. 21, 1952. Records available: 1942-52. Apr. 4, 19.43; Oct. 21, 23.40.

B-1-60-27dd. Paul Wells. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 107 feet. Land-surface datum is 4,761.6 feet above msl. Highest water level 19.03 feet above lsd, Jan. 8, 1948; lowest 26.35 below lsd, Oct. 21, 1952. Records available: 1947-52. Apr. 4, 22.65; Oct. 21, 26.35.

B-2-55-30bc-1. Jacob Bickert. Drilled irrigation water-table well in alluvium, diameter 36 inches, depth 64 feet. Land-surface datum is 4,343.4 feet above msl. Highest water level 20.40 below lsd, Apr. 25, 1946; lowest 29.63 below lsd, Oct. 3, 1952. Records available: 1944-52. Apr. 1, 25.54; Oct. 3, 29.63.

B-2-56-13aa-2. J. L. Hunt. Dug and drilled irrigation water-table well in alluvium, diameter 18 inches. Land-surface datum is 4,308.3 feet above msl. Highest water level 8.89 below lsd, Feb. 6, 1950; lowest 17.45 below lsd, Oct. 9, 1952. Records available: 1949-52. Apr. 1, 11.90; Oct. 9, 17.45.

B-2-56-24dd-2. Max Peterson. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 58 feet. Land-surface datum is 4,331.5 feet above msl. Highest water level 18.68 below lsd, Apr. 11, 1949; lowest 25.24 below lsd, Oct. 3, 1952. Records available: 1949-52. Apr. 1, 21.80; Oct. 3, 25.24.

B-2-60-4ddd. William Reck. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 80 feet. Land-surface datum is 4,603.4 feet above msl. Highest water level 53.28 below lsd, May 1, 1944; lowest 62.44 below lsd, Oct. 21, 1952. Records available: 1944-52. Apr. 3, 59.32; Oct. 21, 62.44.

B-2-60-13dd. C. A. Bresnahan. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 185 feet. Land-surface datum is 4,633.6 feet above msl. Highest water level 44.47 below lsd, Apr. 25, 1940; lowest 61.02 below lsd, Oct. 21, 1952. Records available: 1940-52. Apr. 4, 53.88; Oct. 21, 61.02.

B-2-60-26dd. R. A. Baer. Drilled irrigation water-table well in alluvium, diameter 16 to 10 inches, depth 125 feet. Land-surface datum is 4,664.2 feet above msl. Highest water level 50.32 below lsd, May 7, 1941; lowest 74.45 below lsd, Oct. 21, 1952. Records available: 1940-52. Apr. 4, 66.85; Oct. 21, 74.45

B-3-56-7cb. Jacob Lenhardt. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 96 feet. Land-surface datum is 4,274.1 feet above msl. Highest water level 23.90 below lsd, Nov. 7, 1947; lowest 32.35 below lsd, May 7, 1941. Records available: 1940-51. No measurement made in 1952.

B-3-56-24bb. Charles Henry. Dug and drilled irrigation water-table well in alluvium, diameter 14 inches, depth 54 feet. Land-surface datum is 4,254.3 feet above msl. Highest water level 4.50 below lsd, Dec. 5, 1949; lowest 9.09 below lsd, Oct. 3, 1952. Records available: 1928-30, 1932-52. Apr. 1, 5.70; Oct. 3, 9.09.

B-3-57-6dc. City of Fort Morgan. Dug and drilled unused water-table well in alluvium, diameter 15 inches, depth 180 feet. Land-surface datum is 4,325.6 feet above msl. Highest water level 41.70 below lsd, Dec. 13, 20-28, 1943; lowest 48.19 below lsd, Sept. 1, 1951. Records available: 1940-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	46.14	46.30	46.54	.....	47.19	46.89	47.26	47.66	47.86	47.73	46.69	45.99
2	46.14	46.33	46.55	.....	47.19	47.00	47.26	47.72	47.86	47.68	46.66	45.98
3	46.12	46.34	46.54	.....	47.24	47.04	47.28	47.68	47.90	47.68	46.58	45.94
4	46.10	46.34	46.54	.....	47.24	47.03	47.26	47.71	47.93	47.65	46.57	45.95
5	46.11	46.34	46.55	.....	47.23	47.06	47.30	47.69	47.98	.....	46.54	45.94
6	46.12	46.34	46.56	.....	47.24	47.08	47.30	47.71	47.98	.....	46.51	45.93
7	46.12	46.35	46.57	.....	47.24	47.10	47.29	47.73	48.00	47.49	46.49	45.92
8	48.12	46.36	46.59	.....	47.21	47.10	47.29	47.74	47.99	47.45	46.47	45.92
9	46.13	.....	46.59	.....	47.14	47.11	47.33	47.76	48.02	47.44	46.42	45.91
10	46.14	.....	46.59	.....	47.11	47.12	47.35	47.75	48.03	47.41	46.38	45.90
11	46.12	46.40	.....	.....	47.12	47.14	47.38	47.76	48.04	47.37	46.34	45.89
12	46.13	46.39	46.61	.....	47.14	.....	47.40	47.79	48.06	47.35	46.32	45.89
13	46.14	46.41	46.62	.....	47.20	47.20	47.42	47.81	48.03	47.32	46.31	45.89
14	46.14	46.42	46.64	.....	47.19	47.21	47.41	47.83	47.98	47.29	46.29	45.89
15	46.14	46.42	46.64	.....	47.22	47.22	47.44	47.84	47.93	47.24	46.28	45.89
16	46.16	46.44	46.64	.....	47.19	48.21	47.45	47.87	47.96	47.20	46.26	.....
17	46.17	46.44	46.66	.....	47.09	47.21	47.50	47.90	47.95	47.18	46.21	45.90
18	46.17	46.45	46.66	.....	47.04	47.19	47.52	47.92	47.98	47.12	46.20	45.89
19	46.22	46.46	46.67	.....	46.99	.....	47.51	47.96	47.99	47.07	46.18	45.89
20	46.22	46.47	46.70	.....	46.96	47.19	47.48	.....	47.95	47.06	46.14	45.88
21	46.20	46.48	46.71	47.16	46.96	47.21	47.52	.....	47.91	47.05	46.14	45.89
22	46.23	46.48	46.70	47.13	46.91	47.19	47.55	47.91	47.89	47.01	46.14	45.89
23	46.23	46.50	46.71	47.12	46.86	47.22	47.59	47.93	47.90	46.95	46.11	45.90
24	46.22	46.51	46.72	47.09	46.86	47.24	47.59	47.92	47.88	46.91	46.09	45.90
25	46.24	46.52	46.72	47.14	46.84	47.26	47.61	47.86	47.87	46.88	46.06	45.89

B-3-57-6dc--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	46.27	46.51	46.72	47.18	46.82	47.23	47.61	47.87	47.86	46.86	46.04	45.89
27	46.27	46.50	46.73	47.21	46.81	47.26	47.61	47.95	47.85	46.82	46.03	45.88
28	46.27	46.53	46.74	47.22	46.80	47.22	47.59	47.93	47.81	46.81	46.03	.....
29	46.27	46.52	46.76	47.24	46.92	47.19	47.62	47.93	47.79	46.78	45.99	45.90
30	46.29		46.79	47.24	46.90	47.18	47.64	47.93	47.75	46.73	45.99	45.90
31	46.29		.....		46.91		47.66	47.90		46.70		45.89

B-3-57-7cc. Fred Kembel, Sr. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 146 feet. Land-surface datum is 4,340.1 feet above msl. Highest water level 44.15 below lsd, Nov. 19, 1942; lowest 53.58 below lsd, Aug. 3, 1949. Records available: 1939-52. Oct. 21, 53.55.

B-3-57-30bb. Hanna & Gelroth. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 121 feet. Land-surface datum is 4,345.5 feet above msl. Highest water level 10.60 below lsd, Oct. 24, 1949; lowest 18.51 below lsd, Nov. 6, 1941. Records available: 1940-51. No measurement made in 1952.

B-3-58-8cb. H. W. Clatworthy. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 146 feet. Land-surface datum is 4,407.8 feet above msl. Highest water level 47.08 below lsd, Oct. 14, 1949; lowest 56.28 below lsd, May 7, 1941. Records available: 1940-52. Apr. 7, 52.30; Oct. 21, 49.93.

B-3-58-11bc. Alix Stark. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 145 feet. Land-surface datum is 4,366.2 feet above msl. Highest water level 51.85 below lsd, Nov. 19, 1942; lowest 60.18 below lsd, Oct. 21, 1952. Records available: 1939-52. Apr. 4, 56.90; Oct. 21, 60.18.

B-3-60-4dc. Carl Bretheuer. Drilled irrigation water-table well in alluvium, diameter 18 inches. Land-surface datum is 5,335.3 feet above msl. Highest water level 64.25 below lsd, Jan. 14, 1949; lowest 71.60 below lsd, Oct. 9, 1952. Records available: 1948-52. Apr. 7, 65.29; Oct. 9, 71.60.

B-3-60-13cd. Kroh Bros. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 165 feet. Land-surface datum is 4,557.7 feet above msl. Highest water level 54.93 below lsd, Apr. 30, 1947; lowest 62.82 below lsd, Oct. 21, 1952. Records available: 1946-52. Apr. 4, 58.93; Oct. 21, 62.82.

B-3-60-22cc. B. A. Holden. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 120 feet. Land-surface datum is 4,568.4 feet above msl. Highest water level 53.79 below lsd, Apr. 30, 1947; lowest 63.59 below lsd, Oct. 21, 1952. Records available: 1936-52. Apr. 3, 57.50; Oct. 21, 63.59.

B-3-60-32cba. L. W. Elstun. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 84 feet. Land-surface datum is 4,599.5 feet above msl. Highest water level 39.76 below lsd, Nov. 19, 1942; lowest 44.69 below lsd, Oct. 24, 1952. Records available: 1940-52. Apr. 3, 44.10; Oct. 24, 44.69.

B-4-55-9dcc. Rudolph & Schooley. Dug and drilled irrigation water-table well in alluvium, diameter 14 inches, depth 88 feet. Land-surface datum is 4,175.2 feet above msl. Highest water level 14.75 below lsd, Oct. 19, 1949; lowest 19.22 below lsd, Nov. 28, 1940. Records available: 1930, 1932-52. Apr. 9, 17.40; Oct. 20, 17.40.

B-4-55-18cc. H. Baumgardner. Dug and drilled irrigation water-table well in alluvium, diameter 14 inches, depth 80 feet. Land-surface datum is 4,194.9 feet above msl. Highest water level 17.53 below lsd, Oct. 19, 1949; lowest 21.78 below lsd, May 6, 1941. Records available: 1939-50. No measurement made in 1952.

B-4-56-23dc. Hansen Bros. Drilled unused water-table well in alluvium, diameter 18 inches, depth 98 feet. Land-surface datum is 4,209.1 feet above msl. Highest water level 17.99 below lsd, Oct. 6, 1947; lowest 20.83 below lsd, Apr. 9, 1952. Records available: 1933-35, 1941-52. Apr. 9, 20.83; Oct. 15, 18.89.

B-4-60-34dc. M. J. Bauprez. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 220 feet. Land-surface datum is 4,519.6 feet above msl. Highest water level 67.16 below lsd, Apr. 26, 1946; lowest 78.55 below lsd, Dec. 9, 1950. Records available: 1946-50. No measurement made in 1952.

B-5-55-35dd. John Pabst. Dug and drilled irrigation water-table well in alluvium, diameter 18 inches, depth 89 feet. Land-surface datum is 4,143.8 feet above msl. Highest water level 16.35 below lsd, Oct. 19, 1949; lowest 20.60 below lsd, Nov. 8, 1940. Records available: 1935-40, 1943-52. Apr. 9, 19.94; Oct. 20, 18.46.

Otero County

C-22-58-21bd. C. Meyer. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 56 feet. Highest water level 26.25 below lsd, Aug. 1, 1928; lowest 34.33 below lsd Dec. 10, 1940. Records available: 1928-31, 1933-52. Apr. 11, 33.14; Nov. 18, 31.08.

C-22-59-17bd. W. H. Sauer. Dug irrigation water-table well in alluvium, diameter 5 feet, depth 25 feet. Highest water level 11.42 below lsd, Aug. 5, 1930; lowest 15.98 below lsd, May 5, 1935. Records available: 1930, 1933-51. No measurement made in 1952.

C-22-59-17ccc. M. Simpson. Dug and drilled irrigation water-table well in alluvium, diameter 15 inches, depth 29 feet. Highest water level 13.56 below lsd, Aug. 17, 1929; lowest 22.05 below lsd, Apr. 10, 1940. Records available: 1929-31, 1933-52. Apr 11, 19.99; Nov. 19, 18.70.

C-22-59-18ccc. M. C. Kesterson. Dug irrigation water-table well in alluvium, depth 35 feet. Highest water level 15.84 below lsd, Nov. 11, 1942; lowest 26.00 below lsd, Dec. 10, 1940. Records available: 1938-52. Apr. 11, 23.62; Nov. 19, 22.25.

C-22-59-24bc. H. I. Barnard. Dug and drilled irrigation water-table well in alluvium. Highest water level 18.18 below lsd, Nov. 7, 1945; lowest 24.20 below lsd, Apr. 10, 1940. Records available: 1934, 1937-52. Apr. 11, 22.56; Nov. 18, 20.81.

C-22-59-29cbb. M. Madson. Dug irrigation water-table well in alluvium, diameter 8 feet, depth 20 feet. Highest water level 9.40 below lsd, Nov. 11, 1942; lowest 15.08 below lsd, Dec.10, 1940. Records available: 1929-31, 1933-52. Apr. 11, 12.97 Nov. 19, 13.59.

C-23-57-12daa. American Crystal Sugar Co. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 27 feet. Highest water level 8.87 below lsd, Dec. 4, 1946; lowest 12.15 below lsd, Nov. 13, 1951. Records available: 1944-52. Apr. 11, 10.90; Nov. 18, 11.05.

C-23-57-32bdb. J. C. Vroman. Drilled irrigation water-table well in alluvium. Highest water level 9.95 below lsd, Nov. 29, 1949; lowest 12.58 below lsd, Nov. 13, 1951. Records available: 1944-52. Apr. 11, 11.20; Nov. 18, 11.65.

Pitkin County

C-8-88-27bc. R. O. Sewell. Dug domestic water-table well in alluvium, depth 37 feet. Highest water level 9.61 below lsd, June 20, 1952; lowest dry Jan. 13, 1950, Apr. 10, 1951, Jan. 17, Feb. 17, Mar. 18, 1952. Records available: 1942-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	(f)	Apr. 13	23.20	July 13	13.28	Oct. 24	13.55
Feb. 17	(f)	May 14	20.02	Aug. 12	20.07	Nov. 11	19.72
Mar. 18	(f)	June 20	9.61	Sept. 17	25.78	Dec. 16	29.71

f Dry.

Pueblo County

C-20-63-34bcd. Excelsior Ranch. Drilled irrigation water-table well in alluvium. Highest water level 10.57 below lsd, Mar. 30, 1948; lowest 12.58 below lsd, Nov. 9, 1950. Records available: 1943-51. No measurement made in 1952.

C-20-65-32bd. Colorado State Hospital. Driven observation water-table well in alluvium, diameter 1¼ inches, depth 14 feet. Highest water level 5.60 below lsd, July 24, 1949; lowest dry Feb. 26, 1952. Records available: 1949-52. Measurement discontinued after Oct. 21.

Jan. 2	7.70	Apr. 21	7.82	July 21	6.70	Sept. 20	7.12
19	7.93	May 23	7.91	Aug. 22	6.71	Oct. 21	7.26
Feb. 26	(f)	June 21	7.99				

f Dry.

C-21-61-9bb. J. A. Werme. Drilled irrigation water-table well in alluvium, diameter 22 inches, depth 40 feet. Highest water level 14.82 below lsd, Apr. 4, 1949; lowest 16.50 below lsd, Apr. 12, 1952. Records available: 1949, 1951-52. Apr. 12, 16.50.

C-21-61-23bbb-2. A. Grandbush. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 40 feet. Highest water level 14.65 below lsd, Mar. 30, 1948; lowest 19.54 below lsd, Oct. 16, 1934. Records available: 1929-49, 1951-52. Nov. 18, 18.53, pumped recently.

C-21-61-23db. Ralph Wright. Drilled irrigation water-table well in alluvium, diameter 20 inches, depth 38 feet. Highest water level 11.06 below lsd, Mar. 30, 1948; lowest 17.50 below lsd, May 2, 1935. Records available: 1929-30, 1932-33, 1935-52. Apr. 12, 11.75; Nov. 18, 12.88.

C-21-62-9cd-2. Bert Potestio. Drilled irrigation water-table well in alluvium. Highest water level 13.98 below lsd, Nov. 6, 1947; lowest 17.22 below lsd, Dec. 5, 1946. Records available: 1946-52. Apr. 11, 16.45; Nov. 19, 16.81.

C-21-63-8ca. J. T. McCorkle. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 49 feet. Highest water level 26.90 below lsd, Nov. 11, 1942; lowest 33.04 below lsd, Apr. 16, 1947. Records available: 1931, 1941-52. Apr. 11, 31.21; Nov. 19, 31.19.

C-21-63-11cdc. C. A. Wilcox. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 35 feet. Highest water level 16.94 below lsd, Nov. 2, 1944; lowest 22.35 below lsd, Apr. 16, 1947. Records available: 1944-52. Apr. 11, 19.80; Nov. 19, 20.09.

C-21-64-3dbd. Joseph Thomas. Drilled irrigation water-table well in alluvium, diameter 15 inches, depth 35 feet. Highest water level 12.20 below lsd, Nov. 11, 1942; lowest 22.08 below lsd, Oct. 18, 1934. Records available: 1934-52. Apr. 11, 17.98; Nov. 19, 17.82.

C-21-64-10bbc. Tony Morrello. Dug and drilled irrigation water-table well in alluvium, diameter 12 inches. Highest water level 8.87 below lsd, Nov. 2, 1944; lowest 12.70 below lsd, Apr. 16, 1947. Records available: 1941-52. Apr. 11, 10.70; Nov. 19, 11.29.

Washington County

B-5-54-20bcc. Mr. Palmer. Dug and drilled irrigation water-table well in alluvium, diameter 14 inches, depth 90 feet. Land-surface datum is 4,114.8 feet above msl. Highest water level 11.36 below lsd, May 31, 1949; lowest 18.67 below lsd, Nov. 8, 1940. Records available: 1940-52. Apr. 9, 15.70; Oct. 20, 14.72.

Weld County

B-1-63-2ccc. D. Trupp. Drilled unused water-table well in alluvium, diameter 20 inches, depth 96 feet. Highest water level 51.70 below lsd, May 1, 1950; lowest 67.59 below lsd, Aug. 23-25, 1946. Records available: 1944-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.85	59.21	58.72	56.35	58.07	57.60	.....	63.70	.....	65.55	63.78	.....
2	59.83	59.20	58.72	58.31	58.07	57.55	.....	63.84	.....	.....	63.76	.....
3	59.79	59.20	58.70	58.31	58.09	57.53	.....	63.95	.....	.....	63.70	.....
4	59.74	59.15	58.70	58.30	58.07	57.52	.....	64.05	65.65	.....	63.62	.....
5	59.77	59.15	58.68	58.30	58.06	57.49	60.45	64.13	65.75	.....	63.57	.....
6	59.73	59.14	58.68	58.29	58.05	57.43	60.61	.....	65.83	.....	63.55	.....
7	59.67	59.10	58.64	58.25	.....	57.40	60.79	.....	65.90	.....	63.45	.....
6	59.68	59.09	58.64	58.29	.....	57.38	60.97	.....	65.90	.....	63.40	.....
9	59.69	59.08	58.61	58.28	.....	57.30	61.00	.....	65.88	.....	63.38	.....
10	59.62	59.05	58.60	58.23	.....	57.26	61.22	64.60	65.88	.....	63.30	.....
11	59.60	59.03	58.58	58.19	57.92	57.22	61.42	64.63	65.89	.....	63.25	.....
12	59.59	59.00	56.55	.....	57.90	57.18	61.57	64.66	65.92	64.83	63.20	.....
13	59.56	59.00	.....	.....	57.88	57.15	61.53	.....	65.99	64.81	63.12	.....
14	59.57	59.00	.....	.....	57.86	57.63	61.55	.....	.....	64.78	63.10	.....
15	59.52	58.97	.....	.....	57.83	57.70	61.74	.....	.....	64.71	63.03	.....
16	59.49	58.95	.....	.....	57.83	57.72	61.92	.....	.....	64.65	63.00	.....
17	59.49	58.94	.....	58.20	57.85	57.56	62.10	.....	.....	64.60	62.94	.....
18	59.44	58.90	.....	56.20	57.83	.....	62.23	.....	.....	64.55	62.93	.....
19	59.48	56.92	.....	58.19	57.79	.....	62.35	.....	.....	64.50	62.88	.....
20	59.45	58.91	.....	58.19	57.77	.....	62.33	.....	.....	64.42	.....	.....
21	59.41	58.87	.....	58.19	57.75	.....	62.30	.....	66.44	64.38	.....	.....
22	59.40	58.85	.....	58.19	57.72	.....	62.42	.....	66.40	64.32	.....	.....
23	.....	58.84	.....	58.19	57.73	.....	62.57	.....	66.30	64.27	.....	.....
24	.....	58.67	.....	58.14	57.75	.....	62.70	.....	66.23	64.21	.....	.....
25	.....	58.85	.....	58.14	57.73	.....	62.82	.....	66.13	64.16	.....	.....

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	.....	58.80	.....	58.13	.....	.....	62.97	.....	66.02	64.11	.....	.....
27	59.33	58.79	.....	58.11	57.70	.....	62.94	.....	65.91	64.07	.....	.....
28	59.29	58.74	.....	58.10	57.68	.....	63.05	.....	65.82	64.00	.....	.....
29	59.25	58.77	.....	58.10	57.62	.....	63.22	.....	65.72	63.95	.....	.....
30	59.25		58.35	58.10	57.63	.....	63.38	.....	65.63	63.88	.....	.....
31	59.21		58.33		57.63		63.53	.....		63.82		.....

B-1-63-2dd. H. Scheid. Drilled domestic water-table well in alluvium, diameter 8 inches, depth 53 feet. Land-surface datum is 4,831.5 feet above msl. Highest water level 38.15 below lsd, Oct. 13, 1950; lowest 50.27 below lsd, May 15, 1942. Records available: 1942-51. No measurement made in 1952.

B-1-63-3cc. John Baumgardner. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 122 feet. Land-surface datum is 4,843.3 feet above msl. Highest water level 43.97 below lsd, Feb. 1, 1950; lowest 60.36 below lsd, May 14, 1942. Records available: 1942-52. Apr. 3, 50.20; Oct. 16, 56.15.

B-1-63-9dd. E. A. Custer. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 120 feet. Land-surface datum is 4,862.3 feet above msl. Highest water level 45.85 below lsd, Apr. 5, 1950; lowest 63.08 below lsd, May 14, 1942. Records available: 1942-52. Apr. 3, 54.51; Oct. 16, 58.66.

B-1-63-22ddc. J. J. Suppes. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 176 feet. Land-surface datum is 4,924.2 feet above msl. Highest water level 75.41 below lsd, June 4, 1948; lowest 97.22 below lsd, Nov. 4, 1941. Records available: 1940-52. Apr. 3, 84.93; Oct. 16, 88.10.

B-1-63-27dc. William Vogt. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 173 feet. Land-surface datum is 4,944.8 feet above msl. Highest wat er level 90.39 below lsd, May 16, 1949; lowest 105.10 below lsd, May 15, 1942. Records available: 1942-52. Apr. 3, 95.44; Oct. 16, 98.37.

B-1-63-28abb. Hudson Gardens Co. Drilled unused water-table well in alluvium, diameter 12 inches. Land-surface datum is 4,926.8 feet above msl. Highest wat er level 67.19 below lsd, June 4, 1948; lowest 84.81 below lsd, Apr. 25, 1944. Records available: 1942-52. Apr. 3, 76.40; Oct. 16, 75.95.

B-1-64-18bbd. Joseph DeBall. Dug and drilled irrigation water-table well in alluvium, diameter 12 inches, depth 36 feet. Highest water level 11.16 below lsd, Nov. 9, 1949; lowest 19.10 below lsd, Dec. 5, 1940. Records available: 1940-52. Apr. 17, 16.02; Nov. 6, 17.26.

B-1-65-12ccc. Joseph Wuertz. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 52 feet. Highest water level 10.95 below lsd, June 22, 1949; lowest 21.65 below lsd, Sept. 14, 1952. Records available: 1940-52.

Daily lowest water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.81	18.72	18.70	18.71	18.65	18.91	18.45	20.04	19.65	19.40	18.81	18.70
2	18.81	18.73	18.70	18.69	18.65	18.29	18.60	20.15	19.66	19.38	18.86	18.70
3	18.80	18.76	18.71	18.70	18.67	17.70	18.65	20.22	20.10	19.32	18.85	18.73
4	18.77	18.74	18.71	18.70	18.66	17.20	18.75	20.36	20.44	19.30	18.81	18.73
5	18.78	18.74	18.71	18.70	18.64	16.92	18.77	20.41	20.60	19.28	18.80	18.73
6	18.79	18.75	18.71	18.69	18.64	.....	18.72	20.41	20.60	19.25	18.80	18.70
7	18.77	18.72	18.71	18.67	18.63	.....	18.61	20.31	20.46	19.21	18.79	18.70
8	18.79	18.70	18.71	18.70	18.68	.....	18.85	19.98	20.74	19.19	18.80	18.70
9	18.80	18.72	18.71	18.71	18.69	.....	19.03	19.97	20.99	19.14	18.80	18.72
10	18.78	18.72	18.69	18.70	18.67	.....	19.21	19.86	21.03	19.11	18.80	18.72
11	18.74	18.72	18.69	18.65	18.65	.....	19.37	19.91	21.23	19.11	18.80	18.70
12	18.76	18.70	18.71	18.70	18.65	.....	19.52	20.04	21.43	19.10	18.79	18.71
13	18.75	18.72	18.71	18.70	18.65	.....	19.67	20.23	21.60	19.05	18.78	18.72
14	18.76	18.73	18.73	18.70	18.62	.....	19.77	20.43	21.65	19.05	18.75	18.72
15	18.75	18.73	18.75	18.69	18.62	15.81	19.87	20.60	21.48	19.04	18.75	18.69
16	18.73	18.73	18.73	18.69	18.67	15.80	19.90	20.68	21.04	18.99	18.76	18.69
17	18.74	18.71	18.70	18.70	18.69	15.64	19.54	20.71	20.68	19.00	18.76	18.69
18	18.74	18.70	18.70	18.66	18.69	15.57	19.47	20.71	20.41	18.99	18.77	18.69
19	18.75	18.72	18.69	18.66	18.65	15.56	19.57	20.76	20.24	18.99	18.76	18.69
20	18.76	18.72	18.70	18.67	18.53	16.35	19.65	20.76	20.13	18.94	18.75	18.71

B-1-65-12ccc--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	18.73	18.71	18.73	18.68	18.30	17.00	19.72	20.77	20.06	18.93	18.74	18.70
22	18.76	18.72	18.74	18.70	18.26	17.50	19.78	20.80	19.98	18.92	18.76	18.69
23	18.76	18.73	18.73	18.69	18.50	17.50	19.78	20.90	19.88	18.91	18.76	18.70
24	18.74	18.74	18.70	18.68	18.19	17.22	19.71	20.92	19.80	18.90	18.72	18.70
25	18.73	18.75	18.70	18.68	17.85	17.72	19.88	20.92	19.72	18.90	18.72	18.70
26	18.78	18.72	18.71	18.69	18.12	18.00	19.99	21.00	19.68	18.89	18.72	18.70
27	18.79	18.71	18.70	18.68	18.75	18.10	20.05	21.00	19.60	18.88	18.72	18.71
28	18.76	18.68	18.70	18.64	19.18	18.20	20.05	20.95	19.56	18.87	18.72	18.70
29	18.75	18.71	18.69	18.65	19.51	18.32	20.01	20.74	19.51	18.85	18.73	18.68
30	18.72		18.69	18.66	19.60	18.43	20.00	20.30	19.46	18.82	18.73	18.68
31	18.71		18.70		19.44		20.03	19.93		18.82		18.68

B-1-65-24cdc. Joseph Wuertz. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 60 feet. Highest water level 12.77 below lsd, Nov. 9, 1949; lowest 20.09 below lsd, Dec. 5, 1940. Records available: 1940-52. Apr. 17, 18.70; Nov. 6, 18.25.

B-1-65-25cd. Fred Haffner, Sr. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 69 feet. Highest water level 30.29 below lsd, Apr. 12, 1950; lowest 35.56 below lsd, Dec. 5, 1940. Records available: 1940-52. Apr. 17, 34.69; Nov. 6, 35.30.

B-1-66-7dd. W. A. Wallace. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 65 feet. Highest water level 14.33 below lsd, Nov. 3, 1944; lowest 22.00 below lsd, Apr. 23, 1946. Records available: 1937-52. Apr. 16, 19.96; Nov. 5, 15.38.

B-1-66-30ad. G. J. Mancini. Dug irrigation water-table well in alluvium, diameter 8 feet, depth 31 feet. Highest water level 10.29 below lsd, Oct. 12, 1933; lowest 17.93 below lsd, Apr. 16, 1952. Records available: 1929-52. Apr. 16, 17.93; Nov. 6, 13.14.

B-1-66-31dcd. Carl Caranci. Dug irrigation water-table well in alluvium, diameter 10 feet, depth 36 feet. Highest water level 14.90 below lsd, Sept. 6, 1929; lowest 20.80 below lsd, Oct. 27, 1939. Records available: 1929-52. Apr. 16, 19.77; Nov. 6, 17.97.

B-2-62-18cbc. Mrs. Sadie Knox. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 78 feet. Highest water level 17.90 below lsd, Apr. 23, 1936; lowest 27.32 below lsd, Oct. 16, 1952. Records available: 1936-43, 1945-52. Apr. 3, 25.65; Oct. 16, 27.32.

B-2-62-19cdc2. M. A. Shoeneman. Dug and drilled irrigation water-table well in alluvium, diameter 18 inches, depth 87 feet. Highest water level 35.21 below lsd, Apr. 23, 1948; lowest 40.62 below lsd, Oct. 16, 1952. Records available: 1947-52. Apr. 3, 37.20; Oct. 16, 40.62.

B-2-63-15dcd. Mrs. Sadie Knox. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 93 feet. Land-surface datum is 4,760.7 feet above msl. Highest water level 16.48 below lsd, June 16, 1949; lowest 28.48 below lsd, Oct. 5, 1948. Records available: 1941-52. Apr. 3, 20.90; Oct. 16, 24.93.

B-2-63-22cc. H. O. Milcap. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 87 feet. Land-surface datum is 4,783.8 feet above msl. Highest water level 28.56 below lsd, Apr. 5, 1950; lowest 39.43 below lsd, Oct. 16, 1952. Records available: 1942-52. Apr. 3, 32.78; Oct. 16, 39.43.

B-2-63-22dc. John Zimbleman. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 100 feet. Land-surface datum is 4,784.7 feet above msl. Highest water level 22.84 below lsd, June 2, 1933; lowest 43.53 below lsd, Oct. 5, 1948. Records available: 1933-34, 1936, 1939-51. No measurement made in 1952.

B-2-63-23dcc. Edward Weickum. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 79 feet. Land-surface datum is 4,786.3 feet above msl. Highest water level 43.28 below lsd, Apr. 5, 1950; lowest 52.23 below lsd, Oct. 16, 1952. Records available: 1944-52. Apr. 3, 47.18; Oct. 16, 52.23.

B-2-63-28ddd. C. V. Maddux. Drilled irrigation water-table well in alluvium, diameter 48 to 40 inches, depth 97 feet. Land-surface datum is 4,800.4 feet above msl. Highest water level 33.68 below lsd, Feb. 1, Apr. 5, 1950; lowest 46.71 below lsd, Oct. 16, 1952. Records available: 1942-52. Oct. 16, 46.71.

B-2-63-32aa. Tony Batelli. Drilled irrigation water-table well in alluvium, diameter 36 inches, depth 41 feet. Land-surface datum is 4,802.4 feet above msl. Highest water level 25.79 below lsd, Dec. 9, 1949; lowest 32.85 below lsd, Apr. 27, 1944. Records available: 1934-52. Apr. 3, 30.31; Oct. 16, 29.47.

B-2-63-34ccc. R. L. Martin. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 105 feet. Land-surface datum is 4,830.3 feet above msl. Highest water level 50.48 below lsd, May 23, 1950; lowest 80.75 below lsd, Oct. 30, 1946. Records available: 1938-52. Apr. 3, 55.57.

B-2-63-35dcc. William A. Carlson. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 91 feet. Land-surface datum is 4,814.2 feet above msl. Highest water level 35.76 below lsd, Apr. 25, 1934; lowest 55.40 below lsd, Oct. 26, 1939. Records available: 1934-52. Apr. 3, 47.09; Oct. 16, 51.34.

B-2-63-36bcb. Martin Scheid. Drilled irrigation water-table well in alluvium, diameter 20 inches, depth 76 feet. Land-surface datum is 4,797.4 feet above msl. Highest water level 41.27 below lsd, Apr. 29, 1937; lowest 56.01 below lsd, Sept. 3, 1943. Records available: 1937-52. Apr. 3, 47.10; Oct. 16, 51.47.

B-2-64-30cbc. Floyd Schroeder. Drilled irrigation water-table well in alluvium, diameter 24 inches. Highest water level 8.54 below lsd, Oct. 9, 1942; lowest 11.55 below lsd, Dec. 5, 1940. Records available: 1940-52. Apr. 17, 11.42; Nov. 6, 10.78.

B-2-66-7ddd. A. L. Johnson. Drilled irrigation water-table well in alluvium, diameter 40 to 20 inches, depth 36 feet. Highest water level 7.96 below lsd, Sept. 6, 1929; lowest 14.53 below lsd, May 8, 1941. Records available: 1929-52. Apr. 16, 13.70; Nov. 5, 10.20.

B-2-66-20bc. E. F. Krause. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 52 feet. Highest water level 9.63 below lsd, Sept. 6, 1929; lowest 15.84 below lsd, Apr. 4, 1951. Records available: 1929-52. Apr. 16, 15.68; Nov. 5, 11.05.

B-2-66-29cc. S. J. Rhode. Dug irrigation water-table well in alluvium, diameter 8 feet. Highest water level 15.28 below lsd, Oct. 27, 1947; lowest 21.20 below lsd, May 8, 1941. Records available: 1935-52. Apr. 16, 20.34; Nov. 5, 16.20.

B-3-64-17cc. E. D. Seldin. Drilled irrigation water-table well in alluvium, diameter 30 inches, depth 60 feet. Highest water level 5.30 below lsd, Apr. 29, 1947; lowest 12.51 below lsd, Dec. 5, 1940. Records available: 1940-52. Apr. 17, 5.80; Nov. 6, 9.04.

B-3-64-30ccc. Mrs. Maud C. Hanson. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 57 feet. Highest water level 5.14 below lsd, Apr. 17, 1952; lowest 9.04 below lsd, Nov. 3, 1941. Records available: 1940-52. Apr. 17, 5.14; Nov. 6, 8.02.

B-3-66-18cbc. C. C. Oster. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 30 feet. Highest water level 10.71 below lsd, Oct. 27, 1947; lowest 19.12 below lsd, Apr. 28, 1947. Records available: 1947-52. Apr. 16, 18.60; Nov. 5, 12.75.

B-4-64-1ccc-2. Alice St. John. Drilled irrigation water-table well in alluvium, diameter 18 inches. Highest water level 7.50 below lsd, Nov. 9, 1949; lowest 8.66 below lsd, Apr. 17, 1952. Records available: 1949-52. Apr. 17, 8.66; Nov. 5, 8.40.

B-4-64-10ddd. F. L. Chestnut. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 60 feet. Highest water level 6.43 below lsd, Nov. 9, 1949; lowest 13.07 below lsd, Nov. 13, 1941. Records available: 1940-52. Apr. 17, 8.59; Nov. 5, 9.05.

B-4-64-12cc. H. Duell. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 72 feet. Highest water level 12.20 below lsd, Nov. 9, 1949; lowest 22.50 below lsd, Nov. 3, 1941. Records available: 1940-52. Apr. 17, 15.20; Nov. 5, 14.97.

B-4-65-6da-2. C. E. Goodner. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 83 feet. Highest water level 10.21 below lsd, Nov. 8, 1949; lowest 16.55 below lsd, Apr. 4, 1951. Records available: 1949-52. Apr. 16, 15.63; Nov. 5, 10.89.

B-4-65-18daa. Root Bros. Dug irrigation water-table well in alluvium, diameter 10 feet, depth 23 feet. Highest water level 4.06 below lsd, May 12, 1942; lowest 13.56 below lsd, Apr.17, 1935. Records available: 1929-52. Apr. 16, 9.67; Nov. 5, 9.13.

B-4-66-9cdc. E. S. Linden. Drilled irrigation water-table well in alluvium, diameter 18 inches. Highest water level 17.40 below lsd, Oct. 27, 1947; lowest 26.47 below lsd, Apr. 4, 1951. Records available: 1945-52. Apr. 16, 25.72; Nov. 5, 22.52.

B-4-66-13dd. Paul Jewel. Dug and drilled irrigation water-table well in alluvium, diameter 10 inches, depth 66 feet. Highest water level 13.17 below lsd, Sept. 17, 1930; lowest 19.50 below lsd, Oct. 9, 1934, Apr. 17, 1935. Records available: 1929-52. Apr. 16, 17.38; Nov. 5, 16.44.

B-4-66-14bab. W. H. Ewing. Dug and drilled irrigation water-table well in alluvium, depth 76 feet. Highest water level 10.22 below lsd, Sept. 17, 1930; lowest 22.57 below lsd, May 8, 1941. Records available: 1929-52. Apr. 16, 21.30; Nov. 5, 17.03.

B-4-66-15ccc. H. G. Martin. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 75 feet. Highest water level 17.30 below lsd, Oct. 27, 1947; lowest 29.45 below lsd, Apr. 4, 1951. Records available: 1939-52. Apr. 16, 28.42; Nov. 5, 23.24.

B-4-66-15ddd. M. L. Winslow. Drilled unused water-table well in alluvium, diameter 10 to 4 inches, depth 51 feet. Highest water level 5.54 below lsd, Nov. 8, 1949; lowest 13.72 below lsd, Apr. 4, 1951. Records available: 1941-52. Apr. 16, 12.24; Nov. 5, 8.40.

B-4-66-17bcc. R. O. Larsen. Drilled irrigation water-table well in alluvium, diameter 24 inches. Highest water level 4.70 below lsd, May 12, 1942; lowest 8.01 below lsd, Apr. 11, 1950. Records available: 1942-52. Apr. 16, 7.73; Nov. 5, 6.75.

B-4-66-19ddd-2. J. C. Breckon. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 62 feet. Highest water level 17.43 below lsd, Nov. 5, 1952; lowest 21.78 below lsd, Apr. 4, 1951. Records available: 1950-52. Apr. 16, 21.60; Nov. 5, 17.43.

B-4-66-27add. John O. Lorenz. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 36 feet. Highest water level 2.86 below lsd, May 12, 1942; lowest 8.76 below lsd, Nov. 27, 1950. Records available: 1942-52. Apr. 16, 4.63; Nov. 5, 3.69.

B-4-66-28cc. Elbert Cogburn. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 87 feet. Highest water level 16.14 below lsd, Oct. 27, 1947; lowest 25.78 below lsd, May 8, 1941. Records available: 1941-52. Apr. 16, 24.26; Nov. 5, 20.92.

B-4-66-31dcc. W. D. Farr. Dug and drilled irrigation water-table well in alluvium, diameter 4 feet, depth 54 feet. Highest water 13.40 below lsd, Oct. 27, 1947; lowest 21.23 below lsd, Apr. 4, 1951. Records available: 1942-52. Apr. 16, 20.69; Nov. 5, 17.73.

B-4-67-13cd. E. H. Sappington. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 36 feet. Highest water level 3.65 below lsd, Oct. 27, 1947; lowest 10.07 below lsd, Apr. 22, 1946. Records available: 1941-52. Apr. 16, 8.55; Nov. 5, 4.23.

B-5-64-35ddd. P. Hoshiko. Drilled unused water-table well in alluvium, diameter 24 inches. Highest water level 5.19 below lsd, Nov. 9, 1949; lowest 10.79 below lsd, Dec. 27, 1940. Records available: 1940-52. Apr. 17, 7.42; Nov. 5, 5.49.

B-5-65-13ddc. F. A. Plumb. Dug and drilled irrigation water-table well in alluvium, diameter 14 inches, depth 45 feet. Highest water level 7.41 below lsd, Oct. 4, 1943; lowest 22.80 below lsd, Nov. 11, 1941. Records available: 1938-50. No measurement made in 1952.

B-5-65-26bcc. George Alles, Sr. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 45 feet. Highest water level 5.04 below lsd, Oct. 14, 1935; lowest 11.03 below lsd, Apr. 11, 1950. Records available: 1928-52. Apr. 16, 10.66; Nov. 5, 6.30.

B-5-65-27ccb. Henry A. Alles. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 50 feet. Highest water level 8.50 below lsd, Aug. 12, 1941; lowest 14.84 below lsd, Apr. 11, 1950. Records available: 1941-52. Apr. 16, 14.89; Nov. 5, 10.33.

B-6-63-29bbb. H. L. Wells. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 37 feet. Highest water level 7.19 below lsd, Aug. 11, 1932; lowest 16.31 below lsd, Nov. 29, 1950. Records available: 1932-52. May 6, 14.13; Nov. 13, 14.00.

B-6-64-24aaa. M. R. Leaver. Drilled irrigation water-table well in alluvium, diameter 4 feet. Highest water level 6.30 below lsd, Sept. 1, 1933; lowest 12.95 below lsd, Dec. 23, 1940. Records available: 1932-52. May 6, 9.50; Nov. 13, 8.00.

B-6-64-25aad. Mrs. C. W. Bell. Drilled irrigation water-table well in alluvium, diameter 30 inches, depth 50 feet. Highest water level 15.05 below lsd, Nov. 30, 1951; lowest 18.84 below lsd, Nov. 29, 1950. Records available: 1949-52. May 6, 15.40; Nov. 13, 16.20.

B-6-64-26da. Asa Jones. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 29 feet. Highest water level 7.84 below lsd, Nov. 30, 1951; lowest 11.02 below lsd, Dec. 23, 1940. Records available: 1938-52. May 6, 8.00; Nov. 13, 8.78.

B-6-64-32bab. Charles Moore. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 60 feet. Highest water level 22.88 below lsd, Nov. 2, 1945; lowest 30.11 below lsd, Apr. 25, 1941. Records available: 1941-52. Nov. 13, 25.59.

B-6-65-3bb. T. H. Wilson. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 32 feet. Highest water level 7.20 below lsd, May 5, 1944; lowest 12.85 below lsd, Dec. 23, 1940. Records available: 1940-52. May 6, 7.53; Nov. 13, 8.35.

B-6-65-10bbb. L. C. Roberts. Dug and drilled irrigation water-table well in alluvium, diameter 4 feet, depth 35 feet. Highest water level 4.77 below lsd, June 9, 1929; lowest 13.73 below lsd, Apr. 24, 1941. Records available: 1929-45, 1947-52. May 6, 8.22; Nov. 13, 8.85.

B-6-65-15bbb. H. N. Huff. Drilled irrigation water-table well in alluvium, diameter 30to16 inches, depth 62 feet. Highest water level 9.60 below lsd, Nov. 6, 1945; lowest 16.87 below lsd, Apr. 24, 1941. Records available: 1935-45, 1947-52. May 6, 10.82; Nov. 13, 10.25.

B-6-65-17bbc. H. W. Farr. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 65 feet. Highest water level 21.22 below lsd, Aug. 1, 1932; lowest 40.68 below lsd, Sept. 7, 1940. Records available: 1932-52. May 6, 26.94; Nov. 13, 27.50.

B-6-65-18bbb. James Milne. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 51 feet. Highest water level 24.15 below lsd, Nov. 2, 1945; lowest 38.40 below lsd, Sept. 16, 1940. Records available: 1938-52. May 6, 29.91; Nov. 13, 28.94.

B-6-65-21aab. H. N. Bickling. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 64 feet. Highest water level 5.32 below lsd, July 9, 1929; lowest 16.07 below lsd, Apr. 25, 1941. Records available: 1929-52. Nov. 13, 8.58.

B-6-65-34bb. Ildo Williams. Drilled irrigation water-table well in alluvium, diameter 30 inches, depth 36 feet. Highest water level 9.53 below lsd, Nov. 30, 1951; lowest 17.32 below lsd, Apr. 15, 1942. Records available: 1941-52. May 6, 13.50; Nov. 13, 9.84.

B-6-66-1bab. Gust Johnson. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 54 feet. Highest water level 18.43 below lsd, Jan. 10, 1929; lowest 35.76 below lsd, Nov. 3, 1941. Records available: 1929, 1931-52. May 6, 29.99. Measurement discontinued.

B-6-66-20ccd. J. K. Emerson. Drilled irrigation water-table well in alluvium, diameter 36 inches, depth 34 feet. Highest water level 11.80 below lsd, Nov. 2, 1945; lowest 18.80 below lsd, May 2, 1941. Records available: 1941-52. May 6, 14.63; Nov. 13, 12.66.

B-6-67-12bb. Chris Felte. Drilled irrigation water-table well in alluvium, diameter 24 inches. Highest water level 5.70 below lsd, Apr. 28, 1948; lowest 11.18 below lsd, Nov. 3, 1941. Records available: 1941-52. May 6, 8.30; Nov. 13, 6.58.

B-6-67-17dc. Henry Kraus. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 15 feet. Highest water level 3.90 below lsd, Aug. 7, 1929; lowest 9.40 below lsd, May 8, 1935. Records available: 1928-30, 1932, 1934-35, 1941-52. May 6, 8.20; Nov. 13, 8.31.

B-7-65-7bcc. A. B. Stewart. Drilled irrigation water-table well in alluvium, diameter 30 inches, depth 65 feet. Highest water level 31.85 below lsd, May 5, 1944; lowest 43.96 below lsd, Nov. 3, 1941. Records available: 1939-45, 1947-52. May 6, 38.98; Nov. 13, 37.00.

B-7-65-10bcb. M. H. Graham. Dug irrigation water-table well in alluvium, diameter 8 feet, depth 34 feet. Highest water level 4.95 below lsd, Apr. 25, 1929; lowest 18.03 below lsd, Dec. 23, 1940. Records available: 1929-45, 1947-52. May 6, 12.34; Nov. 13, 13.82.

B-7-65-16bbb. K. Akahoshi. Drilled irrigation water-table well in alluvium, diameter 4 feet. Highest water level 4.64 below lsd, Nov. 30, 1951; lowest 7.42 below lsd, Apr. 29, 1946. Records available: 1942-48, 1950-52. Nov. 13, 5.08.

B-7-65-18cdb. Harry Clark. Drilled irrigation water-table well in alluvium, diameter 48 to 40 inches, depth 66 feet. Highest water level 2.93 below lsd, Sept. 10, 1929; lowest 35.35 below lsd, Apr. 15, 1942. Records available: 1929-32, 1935, 1942-48, 1950-52. May 6, 29.12; Nov. 13, 29.60.

B-7-65-21aaa. H. G. Liebhardt. Drilled irrigation water-table well in alluvium, diameter 4 feet. Highest water level 5.80 below lsd, May 5, 1944; lowest 9.16 below lsd, Apr. 24, 1941. Records available: 1941-45, 1947-52. Nov. 13, 7.78.

B-7-65-28aa. R. F. Blandon. Drilled irrigation water-table well in alluvium, diameter 4 feet. Highest water level 13.67 below lsd, Sept. 17, 1930; lowest 18.58 below lsd, Dec. 23, 1940. Records available: 1929-45, 1947-52. May 6, 16.18; Nov. 13, 15.05.

B-7-65-30bbb. J. L. Nix. Drilled irrigation water-table well in alluvium, diameter 36 inches, depth 63 feet. Highest water level 14.68 below lsd, Nov. 6, 1945; lowest 27.57 below lsd, Apr. 15, 1942. Records available: 1942-48, 1950-52. Nov. 13, 21.94.

B-7-66-1ab. C. A. Pettibone. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 27 feet. Highest water level 7.86 below lsd, Sept. 20, 1929; lowest 20.69 below lsd, Apr. 24, 1941. Records available: 1929-45, 1947-52. Nov. 13, 13.48.

B-7-66-2abb. L. Fletcher. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 44 feet. Highest water level 21.00 below lsd, Sept. 20, 1929; lowest 33.00 below lsd, Apr. 24, 1941. Records available: 1929-45, 1947-52. Nov. 13, 24.00.

B-7-66-14aba. Fred Hoffner. Dug irrigation water-table well in alluvium, diameter 12 feet, depth 39 feet. Highest water level 8.00 below lsd, Sept. 11, 1929; lowest 25.17 below lsd, Apr. 18, 1942. Records available: 1929-52. Nov. 13, 13.95.

B-7-66-14bcc. Mrs. Alice Ehn. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 47 feet. Highest water level 14.02 below lsd, Nov. 13, 1952; lowest 22.35 below lsd, Apr. 15, 1942. Records available: 1942-52. May 6, 15.37; Nov. 13, 14.02.

B-7-66-25bcc. Guy Clark. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 65 feet. Highest water level 24.40 below lsd, Mar.29, 1943; lowest 36.81 below lsd, Nov. 3, 1941. Records available: 1935-52. May 6, 29.98; Nov. 13, 31.47.

B-8-65-8bbb. H. L. Kramer. Drilled irrigation water-table well in alluvium, diameter 4 feet. Highest water level 18.62 below lsd, Nov. 6, 1945; lowest 23.10 below lsd, Nov. 13, 1952. Records available: 1941-52. May 6, 21.77; Nov. 13, 23.10.

B-8-65-20dbb. Edward Vadeburg. Dug irrigation water-table well in alluvium, diameter 8 feet, depth 30 feet. Highest water level 12.40 below lsd, Nov. 13, 1952; lowest 21.08 below lsd, Dec. 23, 1940. Records available: 1928-45, 1947-52. May 6, 13.37; Nov. 13, 12.40.

B-8-65-28bbb. W. T. Miller. Dug irrigation water-table well in alluvium, diameter 8 feet, depth 29 feet. Highest water level 8.43 below lsd, Sept. 20, 1929; lowest 17.06 below lsd, Dec. 23, 1940. Records available: 1929-45, 1947-52. May 6, 12.71; Nov. 13, 11.34.

B-8-65-34abb. J. F. Duncan. Dug irrigation water-table well in alluvium, diameter 10 feet, depth 16 feet. Highest water level 3.94 below lsd, Feb. 25, 1931; lowest 8.22 below lsd, Apr. 24, 1941. Records available: 1929-52. May 6, 4.75; Nov. 13, 4.82, nearby well being pumped.

B-8-65-34dcc. A. B. McClave. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 25 feet. Highest water level 1.15 below lsd, Apr. 25, 1929; lowest 8.75 below lsd, May 2, 1938, Dec. 23, 1940, Apr. 24, 1941. Records available: 1928-52. May 6, 5.38; Nov. 13, 5.71.

B-8-66-1bab. Herman Babb. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 25 feet. Highest water level 14.29 below lsd, Dec. 3, 1942; lowest 22.28 below lsd, Nov. 30, 1951. Records available: 1931, 1940-52. May 6, 19.65; Nov. 13, 19.29.

B-8-66-22aaa. Troy Jones. Dug irrigation water-table well in alluvium, diameter 12 feet, depth 31 feet. Highest water level 16.20 below lsd, Jan. 8, 1947; lowest 21.26 below lsd, Nov. 13, 1952. Records available: 1929-52. May 6, 20.73; Nov. 13, 21.26.

B-8-66-26cbb-2. C. Fisk. Dug irrigation water-table well in alluvium, diameter 8 feet, depth 38 feet. Highest water level 22.57 below lsd, Nov. 18, 1947; lowest 26.22 below lsd, Nov. 17, 1948, Apr. 13, 1951. Records available: 1947-52. May 6, 25.50; Nov. 13, 23.58.

B-9-65-18cbb. U. S. Dept. of Agriculture. Dug unused water-table well in alluvium, diameter 8 feet. Highest water level 20.30 below lsd, Nov. 6, 1945; lowest 21.35 below lsd, Apr. 14, 1942. Records available: 1942-52. May 6, 20.40.

B-10-66-12dd. U. S. Dept. of Agriculture. Dug unused water-table well in alluvium, depth 27 feet. Highest water level 22.88 below lsd, Apr. 14, 1942; lowest 23.82 below lsd, Apr. 22, 1949. Records available: 1942-52. May 6, 23.79.

B-10-66-22ccc. U. S. Dept. of Agriculture. Dug unused water-table well in alluvium, depth 45 feet. Highest water level 44.03 below lsd, Apr. 14, Dec. 3, 1942; lowest 44.42 below lsd, May 17, 1945. Records available: 1942-52. May 6, 44.27.

IDAHO

By J. W. Stewart, Eugene Shuter, and G. E. Brandvold

Scope of Water-Level Program

The observation-well program in Idaho has been continuous since 1946, in cooperation with the State Department of Reclamation. Measurements in observation wells in Ada and Canyon Counties were made in collaboration with the Nampa-Meridian Irrigation District; in the Rathdrum Valley, Kootenai County in collaboration with the Washington Water Power Company, the United States Navy, and the Idaho Department of Fish and Game; in the Snake River Plain in collaboration with the United States Bureau of Reclamation and the Atomic Energy Commission. Special investigations on behalf of the Atomic Energy Commission, begun in 1949, were continued in the central Snake River Plain. An areal study in the western Snake River Plain was continued as a nonCooperative Federal project. A special study of ground-water possibilities in the southern border area of the Snake River Plain was made for the Bureau of Reclamation. At the end of the year measurements were being made in 99 observation wells in 17 of the 44 counties in Idaho. Of these wells, 14 were equipped with recording gages and 2 with nonrecording gages. (See figs. 10-13.)

The following mimeographed reports, containing well records and water-level measurements, were released in 1952: Records of wells and ground-water withdrawals in the Dry Creek area, Cassia and Twin Falls Counties, Southern Idaho, by S. W. West and S. W. Fader; Records of wells and ground-water levels in Minidoka County, Idaho, by S. W. Fader and R. W. Mower; Water levels in wells in Bingham, Butte, and Jefferson Counties, Idaho, by Eugene Shuter and G. E. Brandvold.

Interpretation of Water-Level Fluctuations

In the heavily irrigated Boise Valley in Ada and Canyon Counties, the effects of local precipitation on water-level fluctuations are largely masked by the effects of recharge by seepage losses from irrigation. Water levels in 3 of 9 wells in the valley, for which long-term records are available, reached new high levels during 1952, in the latter part of the irrigation season and near the year-end. Seven of the wells showed a small net decline during the year as a result of below-normal precipitation in late 1951 and all of 1952. Figure 14 shows the long-term water-level records for wells 4N 1W-36da1 and 3N 2W-25aa1 in the Boise Valley. Well 7N 2E-34ca1, in Boise County, ranged slightly above normal and the year-end water level was 1.7 feet above that of 1951. This well, in a mountain valley area, represents the natural ground-water storage available to maintain the dry-season flow of local streams. There was a net rise of 0.5 foot in well 3N 41E-6cb1 in Bonneville County, near the edge of an extensive irrigated area. Wells in the Raft River Valley, Cassia County ranged slightly below normal and did not show appreciable net changes in storage, despite substantially increased withdrawals of ground water for new irrigation developments in the valley. Irrigation withdrawals in 1952 were about 23,000 acre-feet, compared with 18,000 in 1951, 16,000 in 1950, 12,000 in 1949, and 9,000 in 1948. In the Rathdrum Valley of Kootenai County, water levels fluctuated through their normal range, some being slightly above normal and others slightly below. In the northern part of Rathdrum Valley, water levels in the wells appear to reach their highest yearly levels before midsummer; those in the southwestern part tend to reach their highest yearly levels after midsummer. Wells near Pend Oreille Lake attain their highest levels in late spring when the stage of the lake is at its maximum. A hydrograph of water levels in observation well 53N 4W-24bb1, in the northern part of Rathdrum Valley, is shown in figure 15. The hydrograph shows that water levels have risen about 20 feet since 1941. The rise in water levels is a result of a wet cycle which began about 1941. In Latah County, well 39N 5W-7dd1, a nonflowing artesian well in the Moscow Basin had a net rise of 0.53 foot, in contrast to the cumulative decline noted in previous years. In well 39N 5W-10ac1, a shallow water-table well east of the Moscow Basin, the water levels ranged slightly below those of 1951, with a net decline of 1.98 feet. Total precipitation in the area was below normal for the year. In the Malad Valley of Oneida County, 10 of 24 observed wells reached new record high levels, continuing the trend of 1951 when 6 observed wells reached new record highs. In 11 of these wells water levels at the end of the year were 0.01 foot to 6.5 feet above the 1951 year-end levels; in other wells water levels were 0.2 foot to 4.3 feet below 1951 year-end levels. Precipitation in the Malad Valley was below normal and considerably less than in 1951. Differences in net changes of water levels and in departure from average are partly a result of local pumpage and discharge by flowing wells. The establishment of a number of record high levels in 1952 was partly a cumulative result of above-normal precipitation in the area during several past years. The general net rise in levels, however, indicates that recharge exceeded

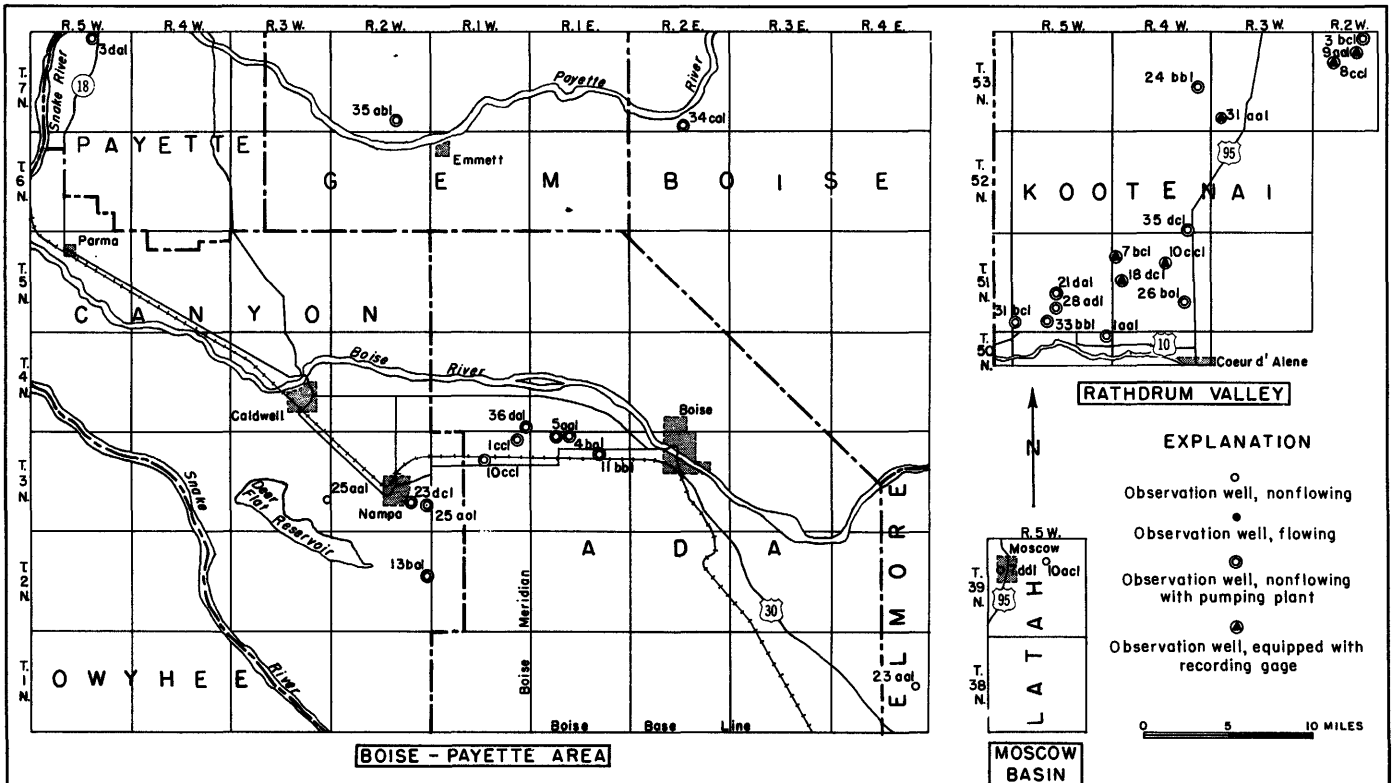


Figure 10. --Location of observation wells in Boise-Payette area, Rathdrum Valley, and Moscow Basin, Idaho, 1952.

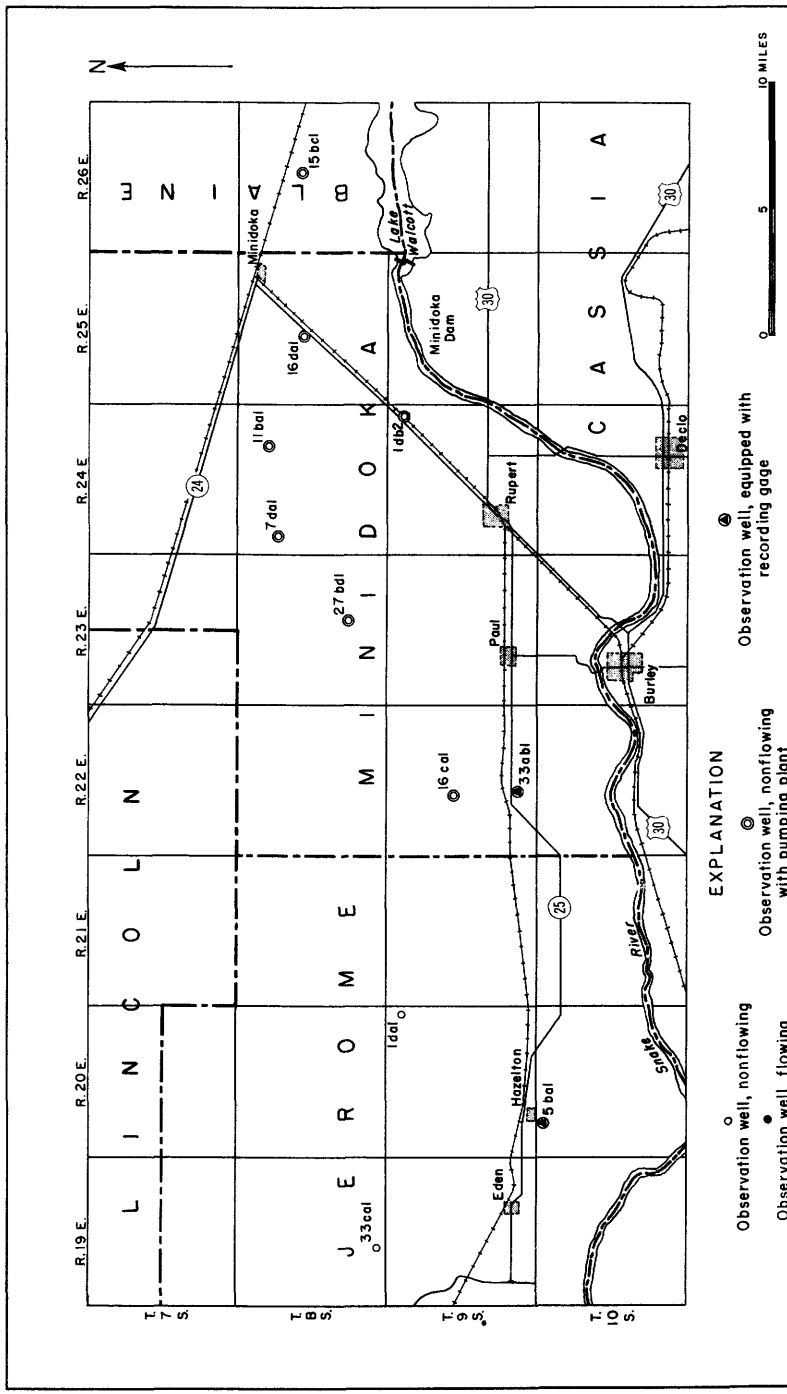


Figure 11.--Location of observation wells in western Snake River Plain, Idaho, 1952.

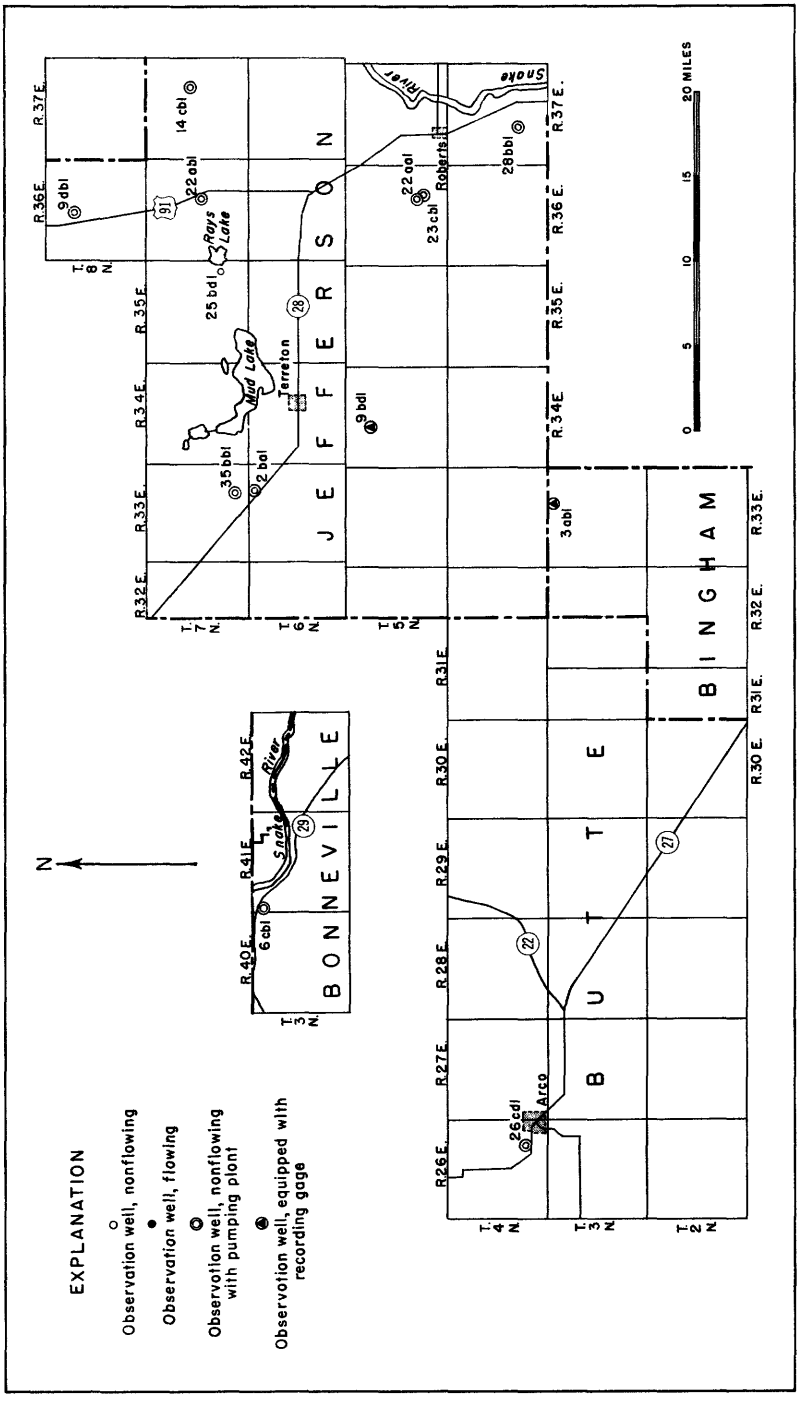


Figure 12.--Location of observation wells in eastern Snake River Plain, Idaho, 1952.

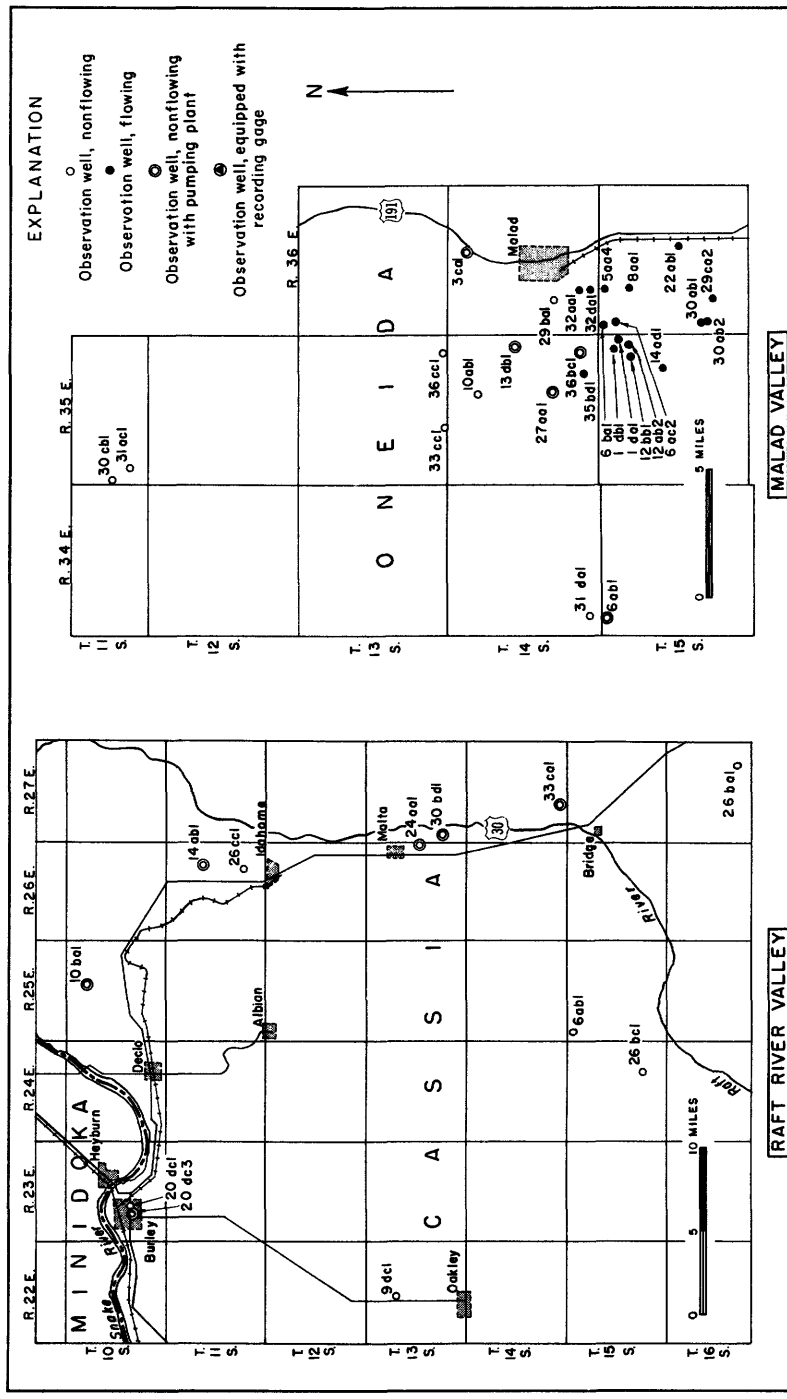


Figure 13.--Location of observation wells in Raft River Valley, Cassia County and Malad Valley, Oneida County, Idaho, 1952.

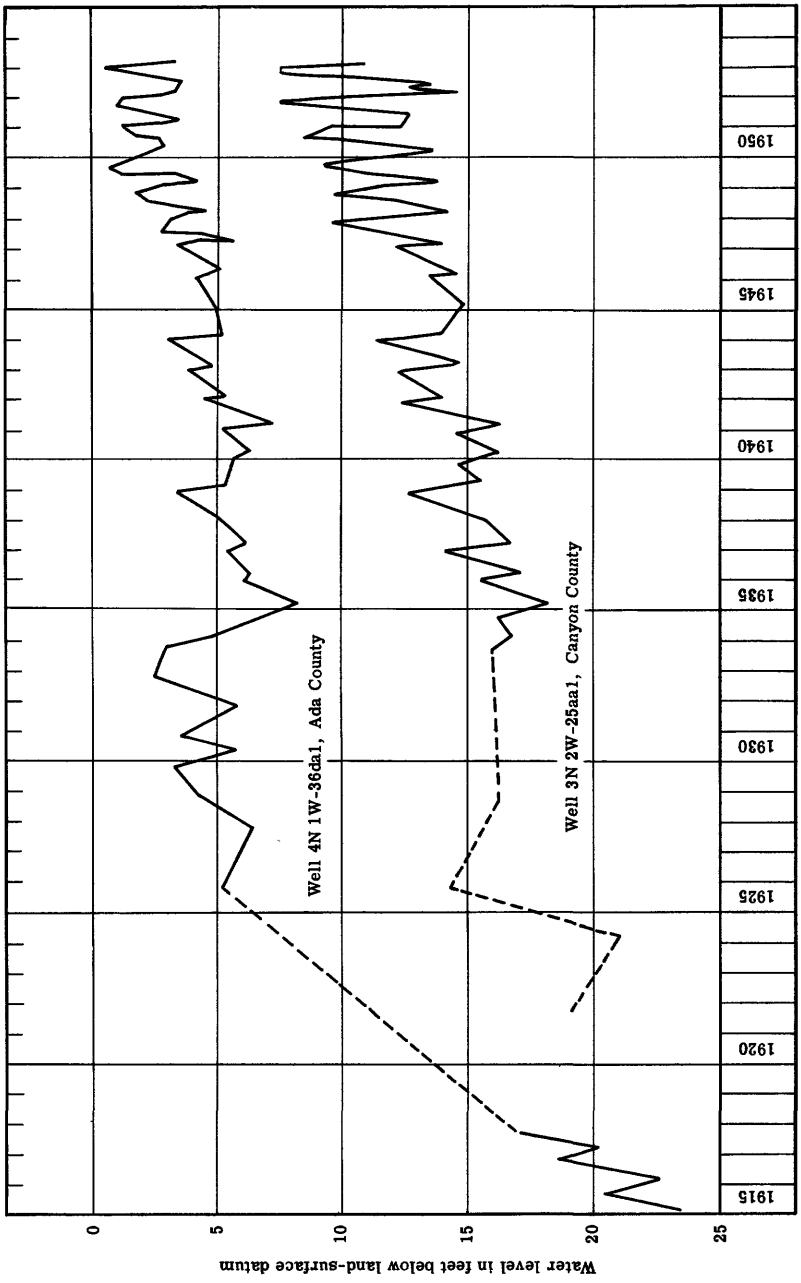


Figure 14.--Water levels in wells in Boise Valley, Ada and Canyon Counties, Idaho.

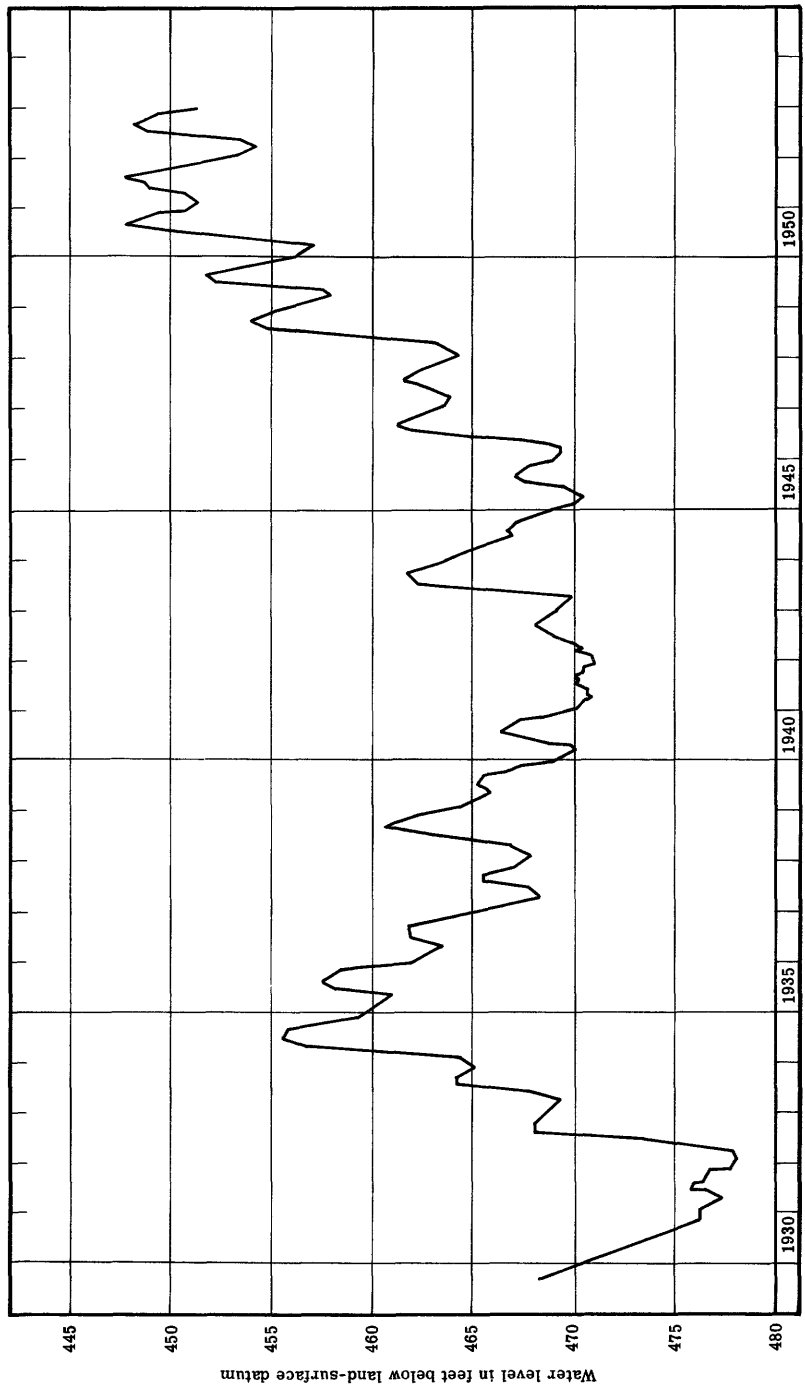


Figure 15. --Water level in well 53N 4W-24bb1, Kootenai County, Idaho, 1930-52.

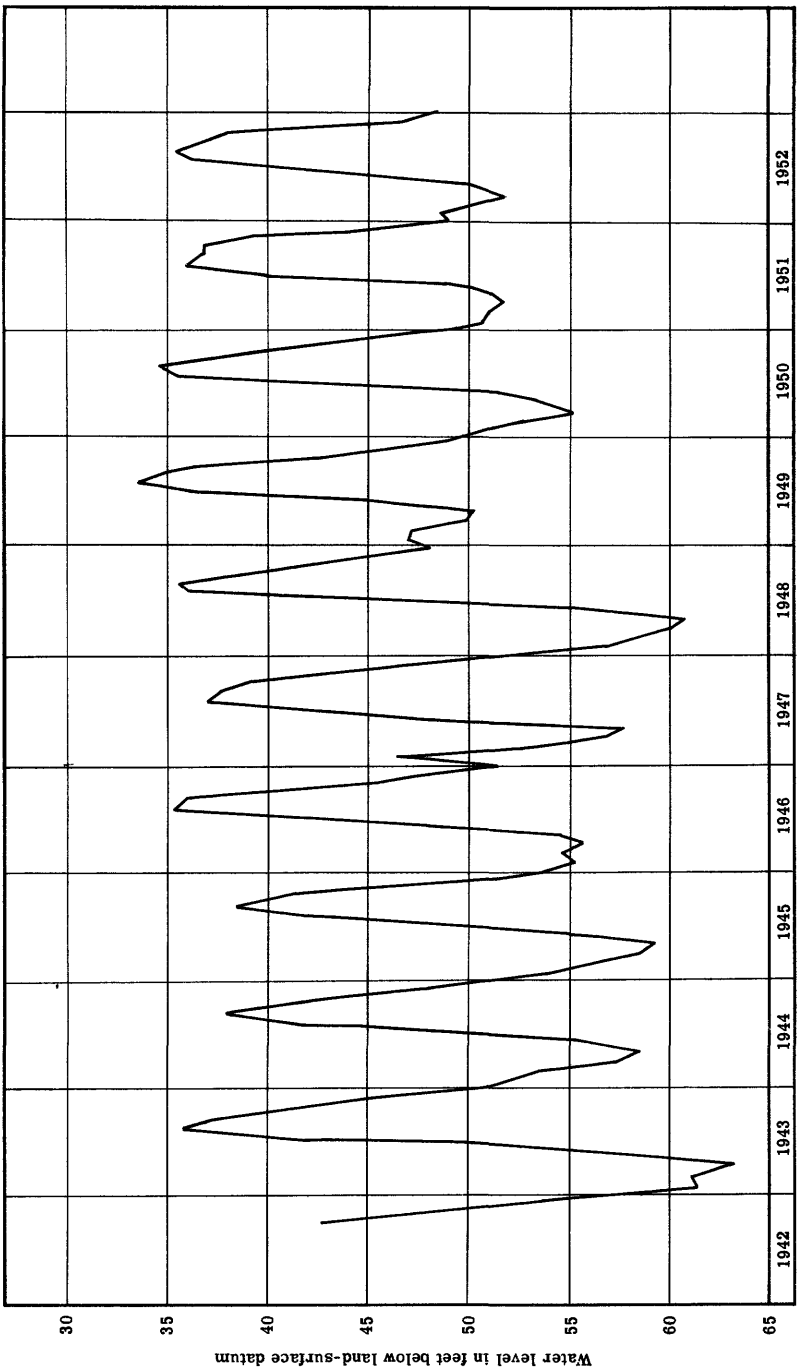


Figure 16.--Water level in well 3N 41E-6cb1 in eastern Snake River Plain, Bonneville County, Idaho, 1942-52.

the draft on the supply during the year. The wells in this area characteristically reached their highest levels during the period from February to April. Water levels in wells 3N 33E-3ab1 and 5N 34E-9bd1, in Bingham and Jefferson Counties, fluctuate in response to changes in barometric pressure, as well as to other factors. Study indicates that the barometric efficiency of the wells is about 60 percent. The water levels reported for these wells are not adjusted for the effects of barometric pressure. A hydrograph of the water level in observation well 3N 41E-6cb1 Bonneville County, in the eastern Snake River Plain, is shown in figure 16. Water-level fluctuations in 1952 in most observation wells with 6 or more years of record are summarized in the following table.

Net changes in water levels in observation wells and precipitation in Idaho, 1952

County and well number	Net change	Departure from average (feet)	Station	Precipitation in inches at nearest U. S. Weather Bureau Station		
				Total precipitation	Departure from normal	Net departure from 1951 total
Ada:						
4N 1W-36da1	+0.15	+3.32	Meridian	6.80	-4.88	-6.20
3N 1W- 1cc1	-0.14	+0.10				
10cc1	-0.24	-0.51				
3N 1E- 4ba1	-0.20	+8.15	Nampa	7.44	....	-4.61
5aa1	+0.4	+0.4	Boise Airport	9.22	-3.88	-4.47
11bb1	-0.26	+0.55				
Boise:						
7N 2E-34ca1	+1.7	+2.3	Emmett	10.48	....	-4.48
Bonneville:						
3N 41E-6cb1	+0.5	-2.1	Ririe			
Canyon:						
3N 3W-25aa1	-0.08	-0.31	Caldwell	9.12	-1.09	-4.18
3N 2W-23dc?	-0.12	+0.60	Nampa	7.44	....	-4.61
25aa1	-0.92	+1.23				
Cassia:						
13S 26E-24aa1	-0.33	-0.97				
16S 27E-26ba1	-4.08	-1.25				
Jefferson:						
7N 35E-25bd1	-1.19	-0.81	Hamer	9.09	+1.29	-1.29
Kootenai:						
53N 4W-24bb1	+0.9	-17.2				
53N 2W- 3bc1	-0.5	-0.5	Coeur d'Alene RS	16.47	-7.88	-14.53
9aa1	-0.2	-1.5	Coeur d'Alene CAA	12.14	....	-13.56
51N 5W-33bb1	-2.9	+8.7				
50N 5W- 1aa1	-3.1	+12.4				
Latah:						
39N 5W- 7dd1	+0.53	-14.19	Moscow	14.74	-6.95	-6.38
10ac1	-1.98	-1.15				
Oneida:						
14S 35E-10ab1	+1.0	+0.1				
13db1	...	-3.0				
27aa1	...	...				
35bd1	+0.6	-9.1				
36bc1	+0.8	-3.0				
14S 36E- 3ca1	+0.01	-3.82				
29ba1	-4.35	-2.19				
32aa1	-1.2	-1.0				
32da1	-1.3	-0.7				
15S 35E- 1da1	-0.4	-5.0				
1db1	+5.5	+0.2				
12ab2	+6.1	+0.9	Malad	10.98	-4.03	-5.40
12bb1	+3.4	-3.3	Malad Airport	10.63	....	-3.35
14ad1	...	...				
15S 36E- 5aa4	+0.3	-0.2				
6ac2	+2.7	-0.4				
6ba1	+3.5	+1.9				
8aa1	-0.2	-0.9				
29ca2	-3.5	-3.0				
30ab1	-1.1	-2.9				
30ab2	-0.6	-1.0				
Payette:						
7N 5W- 3da1	+0.6	+0.4	Payette	12.62	+1.75	+0.64

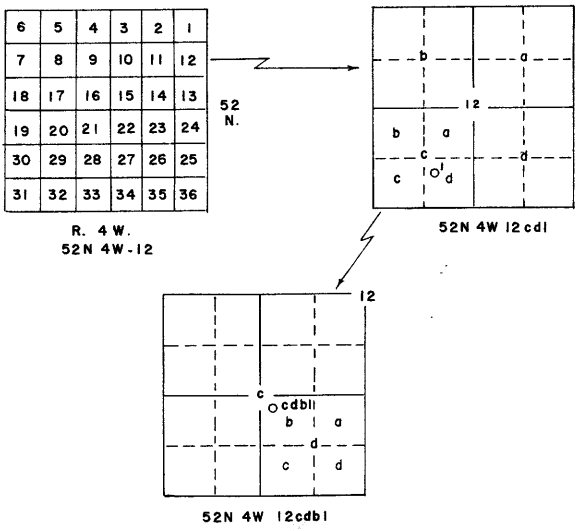
Water levels, in feet, in observation wells in Idaho, 1952

County and well number	Length of record (years)	Highest		Lowest		Extreme observed range	Year-end water level 1952			
		Water level	Date	Water level	Date		Water level	Date	Above or below 1951	Above lowest level %
Ada:										
4N 1W-36da1	a30	0.28	9- 5-52	23.7	2- 9-15	23.4	2.41	12-19-52	+0.15	91
3N 1W- 1cc1	b22	5.74	8-31-50	18.7	4-14-15	13.0	9.47	12-19-52	-.14	71
10cc1	b34	1.30	9-22-49	11.0	Dec. 1913	9.7	4.69	12-19-52	-.24	65
3N 1E- 4ba1	a24	8.90	9-20-51	27.6	11-26-26	18.7	9.10	9-18-52	-.20	99
5aa1	20	5.0	8-30-49	21.3	3-23-35	16.3	12.2	12-23-52	+.4	56
11bb1	29	3.72	9- 5-52	19.9	3-31-24	16.2	9.30	12-19-52	-.26	65
Boise:										
7N 2E-34ca1	10	31.6	5-12-43	42.4	7-26-50 8- 9-50	10.8	36.9	12-31-52	+1.7	51
Bonneville:										
3N 41E- 6cb1	b13	33.5	7-30-49	63.4	3-27-43	29.9	48.7	12-28-52	+0.5	49
Canyon:										
3N 3W-25aa1	20	5.96	8- 9-51	12.5	2-23-42	6.5	10.97	12-19-52	-0.08	24
3N 2W-23dc1	b27	16.64	9- 5-52 10-12-52	28.8	11-18-29	12.2	19.82	12-19-52	-0.12	74
25aa1	b24	7.40	9-20-51 9-17-52 10-12-52	21.0	4-21-24	13.6	11.92	12-19-52	-0.92	67
Cassia:										
13S 26E-24aa1	12	2.07	5-19-49	88.64	11- 7-49	6.57	6.10	11- 7-52	-0.33	39
16S 27E-26ba1	a16	10.41	8-28-51	36.4	4-22-50	26.0	19.06	11- 7-52	-4.08	67
Jefferson:										
7N 35E-25bd1	a19	2.80	12-10-31	12.67	7-18-50	9.87	7.88	12-16-52	-1.19	49
Kootenai:										
53N 4W-24bb1	24	447.6	8-21-50 7-16-51 7-23-51	478.1	1-15-32	30.5	451.3	12-29-52	+0.9	88
53N 2W- 3bc1	10	202	5-26-49	228	11-14-44	26	221.5	12-27-52	-0.5	25
9aa1	11	228	6- 8-48	252	10-30-44 1- 2-44	24	242.1	12-31-52	-0.2	41
51N 5W-33bb1	25	134.1	6-29-50	166.6	2-11-32	32.5	143.5	12-12-52	-2.9	69
50N 5W- 1aa1	24	176.1	9- 1-50	212.3	12- 8-31	36.2	184.0	12-11-52	-3.1	78
Latah:										
39N 5W- 7dd1	a10	50.10	4-19-38	74.90	8-25-51	24.80	72.19	12- 9-52	+0.53	--
10ac1	a13	5.97	3-21-49	17.61	2- 1-37	11.64	15.37	12- 9-52	-1.98	19
Oneida:										
14S 35E-10ab1	11	115.4	5- 4-48	124.6	10-13-47	9.2	118.2	11- 1-52	+1.0	70
13db1	10	66.42	5- 5-52	76.34	10-21-44	9.92	73.8	11- 1-52	--	26
27aa1	10	52.65	4- 9-47	60.05	10-25-48	7.40	54.05	5- 5-52	--	--
35bd1	10	+29.0	2-25-46	+10.5	9- 7-50	18.5	+13.1	11- 1-52	+0.6	14
36bc1	10	15.69	4- 1-47	22.49	9-27-49	6.80	21.16	11- 1-52	+0.8	20
14S 36E- 3ca1	a12	59.15	10-16-32	74.22	9-14-51	15.07	74.21	11- 1-52	+0.01	1
29ba1	11	22.42	5- 5-52	33.40	9- 7-50	10.99	29.93	11- 1-52	-4.35	32
32aa1	10	+7.6	5- 2-44 2-25-46	0.8	10-24-48	8.4	+2.9	11- 1-52	-1.2	25
32da1	12	+4.7	5- 6-52	1.3	9-27-49	6.0	+0.5	11- 1-52	-1.3	14
15S 35E- 1da1	9	+33.1	5- 3-44	+16.9	9- 7-50	16.2	+21.0	11- 1-52	-0.4	25
1db1	10	+25.9	5- 3-44	+8.6	9- 7-50	17.3	+20.2	11- 1-52	+5.5	67
12ab2	10	+25.8	5- 6-52	+13.0	5- 5-48	12.8	+19.9	11- 1-52	+6.1	54
12bb1	10	+14.5	4- 1-47	+0.1	9- 7-50	14.4	+5.3	10-31-52	+3.4	36
14ad1	10	+7.1	5- 6-52	+1.9	5- 3-44	5.2	+7.1	5- 6-52	--	--
15S 36E- 5aa4	b11	+17.0	2-28-51	+7.9	9-27-49	9.1	+12.9	11- 1-52	+0.3	55
6ac2	10	+17.0	2-28-51	+7.0	9-27-49	10.0	+11.9	11- 1-52	+2.7	49
6ba1	10	+23.1	5- 4-44	+8.0	9- 7-50	15.1	+17.9	11- 1-52	+3.5	66
8aa1	10	+24.0	3-20-52	+11.8	6-29-43	12.1	+15.6	11- 1-52	-0.2	32
29ca2	10	+14.7	5- 6-52	+3.2	9- 7-50	11.5	+7.8	11- 1-52	-3.5	40
30ab1	10	+14.9	5- 3-44	+8.8	9- 7-50	6.1	+10.1	11- 1-52	-1.1	21
30ab2	10	+13.2	5- 6-52	+9.0	9- 7-50	4.2	+9.7	11- 1-52	-0.6	17
Payette:										
7N 5W- 3da1	12	31.0	9-12-49 10- 7-49	43.3	4-27-49 5- 3-49	12.3	37.9	12-28-52	+0.6	44

a Discontinuous record. b Intermittent record.

Well-Numbering System

Wells are numbered in accordance with the Bureau of Land Management system of land subdivision. The first segment indicates the township, the second the range, and the third the section in which the well is situated. The lowercase letters - a, b, c, and d - following the section number indicate the well location within the section: the first letter denotes the 160-acre tract, the second the 40-acre tract, and the third the 10-acre tract. The letters are assigned in a counterclockwise direction, beginning in the northeast quarter. Well 52N 4W-12cd1 is in the $SE\frac{1}{4}SW\frac{1}{4}$ sec. 12, T. 52 N., R. 4 W. The numeral following the third segment of the well number indicates the order in which the well was recorded.



Well Descriptions and Water-Level Measurements

(Water-levels are in feet below land-surface datum unless otherwise indicated.)

Ada County

4N 1W-36da1. Richard Foster. Drilled and dug domestic water-table well, diameter 3 inches, reported depth 184 feet, open bottom. Land-surface datum is 2,584.5 feet above msl datum of 1935 (preliminary). Water level influenced by local irrigation. Highest water level 0.28 below lsd, Sept. 5, 1952; lowest 23.7 below lsd, Feb. 9, 1915. Records available: 1915-17, 1925, 1927-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	3.30	May 27	3.51	Sept. 5	0.28	Nov. 20	1.79
Feb. 23	9.70	July 1	2.03	Oct. 12	.61	Dec. 19	2.41
Mar. 22	10.38	30	1.01				

3N 1W-1cc1. Jerald Dunten. Drilled stock and domestic water-table well, diameter 3 inches, reported depth 180 feet. Land-surface datum is 2,583.6 feet above msl datum of 1935 (preliminary). Water level influenced by local irrigation. Highest water level 5.74 below lsd, Aug. 31, 1950; lowest 18.7 below lsd, Apr. 14, 1915. Records available: 1913-16, 1925, 1934-35, 1938-52.

Jan. 25	9.81	Apr. 19	10.45	July 30	6.83	Nov. 20	8.80
Feb. 23	9.74	May 27	8.52	Sept. 5	6.24	Dec. 19	9.47
Mar. 22	10.26	July 1	6.62	Oct. 12	6.90		

3N 1W-10cc1. Arthur Keck. Dug domestic water-table well in shallow sediments of Quaternary age, reported depth 18 feet. Land-surface datum is 2,542.8 feet above msl datum of 1935 (preliminary). Highest water level 1.30 below lsd, Sept. 22, 1949; lowest 11.0 below lsd, Dec. 1913. Records available: 1912-17, 1924-25, 1927-52.

3N 1W-10cc1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 25	4.42	Apr. 19	4.96	July 30	2.02	Nov. 20	4.17
Feb. 23	4.60	May 27	2.22	Sept. 5	2.04	Dec. 19	4.69
Mar. 22	5.08	July 1	1.93	Oct. 12	2.63		

3N 1E-4ba1. Ellen F. Beebe. Dug domestic water-table well in sand of Quaternary age, diameter 36 inches, reported depth 50 feet, open bottom. Land-surface datum is 2,626.8 feet above msl datum of 1935 (preliminary). Highest water level 8.9 below lsd, Sept. 20, 1951; lowest 27.6 below lsd, Nov. 26, 1926. Records available: 1926-29, 1933-52. Mar. 14, 17.5; Sept. 18, 9.1.

3N 1E-5aa1. J. E. Wingate. Dug domestic water-table well in sand and gravel of Quaternary age, diameter 36 inches, reported depth 60 feet. Land-surface datum is 2,620.8 feet above msl datum of 1935 (preliminary). Water-level influenced by local irrigation. Highest water level 5.0 below lsd, Aug. 30, 1949; lowest 21.3 below lsd, Mar. 23, 1935. Records available: 1933-52.

Jan. 2	12.6	Apr. 1	15.5	July 8	9.7	Oct. 7	7.1
8	13.0	8	15.8	15	7.9	14	7.9
15	13.2	15	16.0	22	7.2	21	8.5
22	13.7	22	16.2	29	6.9	27	9.0
29	13.6	29	16.2	Aug. 5	7.2	Nov. 4	9.6
Feb. 5	13.7	May 6	15.7	12	7.1	11	9.9
12	13.6	13	15.2	19	6.9	18	10.3
19	14.0	20	14.4	26	6.8	25	10.7
26	14.3	27	13.7	Sept. 2	6.4	Dec. 2	10.6
Mar. 4	14.5	June 3	12.8	9	6.4	9	11.0
11	14.7	10	12.1	16	7.5	16	11.8
18	15.0	24	10.8	23	7.2	23	12.2
26	15.3	July 1	10.9	30	7.2		

3N 1E-11bb1. F. M. Wheaton. Dug stock and domestic water-table well in shallow gravel, reported depth 80 feet. Land-surface datum is 2,664.6 feet above msl datum of 1935 (preliminary). Water level influenced by local irrigation. Highest water level 3.72 below lsd, Sept. 5, 1952; lowest 19.9 below lsd, Mar. 31, 1924. Records available: 1924-52.

Jan. 25	9.91	Apr. 19	11.27	July 30	3.82	Oct. 12	4.75
Feb. 23	9.94	May 27	5.80	Sept. 5	3.72	Nov. 20	8.18
Mar. 15	10.60	July 1	4.30	20	4.20	Dec. 19	9.30
22	10.72						

Bingham County

3N 33E-3ab1. U. S. Geol. Survey. Drilled observation water-table well in Snake River basalt, diameter 6 inches, depth 733 feet, cased to 733, slot perforations below water level, open bottom. Land-surface datum is 5,179.2 feet above msl datum of 1929 (preliminary). Water levels affected by barometric pressure. Recording gage removed Oct. 14, 1952. Highest water level 670.6 below lsd, Jan. 6, 1952; lowest 673.4 below lsd, Aug. 6-9 1952. Records available: 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	670.9	671.0	.....	672.0	672.6	673.2	.....	.....	672.5	.....	.....
2	.....	670.8	671.0	.....	672.0	672.6	673.2	.....	.....	672.6	.....	.....
3	.....	670.8	671.0	.....	672.0	672.7	673.2	.....	.....	672.5	.....	.....
4	670.7	670.8	671.0	.....	672.0	672.7	673.2	.....	.....	672.5	.....	.....
5	670.7	670.8	671.1	.....	672.1	672.7	673.2	.....	.....	672.6	.....	.....
6	670.6	670.8	671.1	.....	672.1	672.7	673.2	673.4	.....	672.6	.....	.....
7	670.7	670.8	671.1	.....	672.1	672.7	673.3	673.4	.....	672.6	.....	.....
8	670.7	670.9	671.1	.....	672.1	672.8	673.3	673.4	.....	672.5	.....	.....
9	670.7	670.9	671.1	.....	672.1	672.8	673.3	673.4	.....	672.4	.....	.....
10	670.7	670.9	671.1	.....	672.1	672.8	.....	673.3	.....	672.4	.....	.....
11	670.7	670.9	671.2	.....	672.2	672.8	.....	673.3	.....	672.4	.....	.....
12	670.7	670.9	671.2	.....	672.2	672.9	.....	673.3	672.8	672.4	.....	.....
13	671.0	670.9	671.2	.....	672.2	672.9	.....	673.3	672.9	672.3	.....	.....
14	671.0	670.9	671.2	.....	672.3	672.9	.....	673.3	673.0	672.3	.....	.....
15	671.0	670.9	671.2	.....	672.3	672.9	.....	673.3	672.9	.....	.....	.....

3N 33E-3ab1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	670.9	670.9	671.2	.....	672.4	672.9	.....	673.3	672.9	.....	.....	.....
17	670.9	670.9	671.5	.....	672.4	673.0	.....	673.3	672.9	.....	.....	.....
18	670.8	670.9	.....	.....	672.4	673.0	.....	673.3	672.9	.....	.....	.....
19	670.8	670.9	.....	.....	672.4	673.0	.....	673.3	672.9	.....	.....	.....
20	670.9	671.0	.....	.....	672.4	673.1	.....	673.3	672.9	.....	.....	.....
21	670.9	671.0	.....	671.9	672.4	673.0	.....	673.3	672.8	.....	.....	.....
22	670.9	671.0	.....	671.9	672.5	673.0	.....	673.3	672.8	.....	.....	.....
23	670.9	671.0	.....	671.9	672.5	673.0	.....	673.3	672.8	.....	.....	.....
24	670.9	671.0	.....	671.9	672.5	673.0	.....	.....	672.8	.....	.....	.....
25	670.9	671.0	.....	671.9	672.5	673.1	.....	.....	672.8	.....	.....	.....
26	670.9	671.0	.....	672.0	672.5	673.1	.....	.....	672.7	.....	.....	.....
27	670.9	671.0	.....	672.0	672.5	673.1	.....	.....	672.6	.....	.....	.....
28	670.9	671.0	.....	672.0	672.6	673.1	.....	.....	672.6	.....	.....	.....
29	670.9	671.0	.....	672.0	672.6	673.1	.....	.....	672.6	.....	.....	.....
30	670.9		.....	672.0	672.6	673.2	.....	.....	672.6	.....	.....	.....
31	670.9		.....		672.6		.....	.....		.....		.....

Blaine County

8S 26E-15bc1. James Hruza. Drilled stock water-table well in Snake River basalt, diameter 6 inches, reported depth 189 feet, cased to 16. Land-surface datum is 4,270.3 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Water level reflects regional storage. Highest water level 168.7 below lsd, Oct. 22, 1952; lowest 177.3 below lsd, Feb. 26, 1949. Records available: 1948-52. Jan. 9, 173.4; Apr. 17, 169.5; Apr. 30, 171.5; June 18, 171.0; Aug. 22, 174.8; Oct. 22, 168.7.

8S 26E-27ab1. U. S. Bureau of Reclamation. Drilled observation water-table well in sand, gravel, and basalt, diameter 8 to 6 inches, reported depth 225 feet, cased to 179. Land-surface datum is 4,288.5 feet above U. S. Bureau of Reclamation datum. Recording gage installed Aug. 16, 1951. Highest water level 126.6 below lsd, Oct. 9, 15-16, 1952; lowest 128.9 below lsd, May 4, 1952. Records available: 1951-52.

1951

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 15	127.7	Sept. 1	127.6	Sept. 20	127.3	Oct. 8	127.2
24	127.3	2	127.6	21	127.5	9	127.2
Aug. 8	127.1	3	127.5	22	127.1	10	127.0
16	127.7	4	127.4	23	127.1	11	127.0
17	128.1	5	127.4	24	127.2	12	127.1
18	128.1	6	127.6	25	127.1	13	127.2
19	128.0	7	127.6	26	127.3	14	127.1
20	128.1	8	127.6	27	127.1	15	127.0
21	128.0	9	127.6	28	127.0	16	127.1
22	127.9	10	127.3	29	127.1	17	127.1
23	127.8	11	127.4	30	127.1	18	127.2
24	127.9	12	127.6	Oct. 1	127.1	Nov. 1	127.3
25	127.9	13	127.6	2	127.0	2	127.2
26	127.7	14	127.5	3	127.0	3	127.0
27	127.5	15	127.6	4	127.2	28	126.9
28	127.6	16	127.5	5	127.3	Dec. 29	127.0
29	127.7	17	127.4	6	127.4	30	127.0
30	127.8	18	127.3	7	127.3	31	127.4
31	127.7	19	127.2				

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	128.2	.....	128.0	.....	128.8	128.4	128.1	127.8	127.3	126.9	126.9	126.9
2	.....	.....	128.2	.....	128.7	128.4	128.3	127.7	127.2	126.9	127.1	126.9
3	.....	.....	128.5	.....	128.7	128.3	126.1	127.6	127.0	126.8	127.0	127.3
4	.....	.....	128.4	128.8	128.9	126.5	128.0	127.6	127.0	126.9	126.9	127.3
5	.....	.....	128.4	.....	128.8	128.3	128.0	127.7	127.1	126.9	126.9	126.7
6	.....	.....	128.4	.....	128.7	128.2	128.1	127.6	127.0	126.9	126.9	126.9
7	.....	.....	128.4	128.6	128.7	128.4	128.2	127.5	127.0	126.8	126.9	126.9
8	.....	.....	128.2	128.4	128.7	128.4	128.1	127.5	126.9	126.7	127.1	127.3
9	128.2	.....	.....	128.8	128.9	128.1	128.0	127.5	126.8	126.6	127.0	127.4
10	127.7	.....	.....	128.6	128.8	126.4	127.9	127.4	126.8	126.8	127.0	127.2

8S 26E-27ab1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	127.7	.....	.....	128.5	128.6	128.1	128.0	127.4	126.8	126.8	126.9	127.3
12	127.7	.....	.....	128.8	128.7	128.5	128.1	127.4	126.9	126.7	126.7	127.4
13	127.7	.....	.....	128.7	128.7	128.3	128.1	127.4	127.1	126.7	126.8	127.4
14	127.7	.....	.....	128.7	128.6	128.2	128.1	127.5	127.1	126.9	.....	127.2
15	127.7	.....	.....	128.9	128.6	128.5	127.9	127.5	126.9	126.6	.....	127.1
16	127.8	.....	.....	128.9	128.6	128.4	127.9	127.4	126.9	126.6	.....	127.1
17	128.2	.....	.....	128.8	128.7	128.2	128.0	127.4	126.9	126.9	127.1	127.1
18	127.8	.....	.....	128.7	128.7	128.2	128.0	127.4	126.9	126.9	127.3	127.1
19	128.0	.....	.....	128.5	128.6	128.2	127.9	127.3	127.1	127.9	127.2	.....
20	127.7	.....	.....	128.7	128.4	128.2	128.0	127.3	127.1	126.9	126.9	.....
21	127.9	.....	.....	128.8	128.5	128.2	127.9	127.3	127.1	126.9	127.0	.....
22	128.0	.....	.....	128.7	128.6	128.2	127.9	127.4	127.1	126.9	127.1	127.3
23	128.1	.....	.....	128.7	128.6	128.2	127.8	127.3	127.1	126.9	127.0	127.4
24	127.9	.....	.....	128.7	128.5	128.1	127.8	127.2	127.1	126.9	126.9	127.3
25	127.9	.....	.....	128.7	128.5	128.1	128.0	127.3	127.1	126.9	127.1	127.4
26	128.2	.....	.....	128.7	128.6	128.1	128.0	127.2	127.0	126.9	127.2	127.4
27	128.4	.....	.....	128.6	128.6	128.1	128.0	127.3	126.9	127.0	127.0	127.2
28	128.1	.....	.....	128.5	128.4	128.1	127.9	127.3	127.0	126.9	127.1	127.2
29	128.0	128.2	.....	128.8	128.4	128.2	127.8	127.1	127.0	126.8	127.1	127.2
30	.....		.....	128.7	128.4	128.2	127.7	127.2	127.0	126.9	127.0	127.2
31	.....		.....		128.2		127.8	127.2		126.8		127.2

Boise County

7N 2E-34ca1. Jack N. Kohtala. Dug domestic water-table well in alluvium of Quaternary age, diameter 60 to 36 inches, reported depth 42 feet, cribbed with rock and concrete to 42. Land-surface datum is 2,649.6 feet above msl datum of 1929 (unadjusted). Highest water level 31.6 below lsd, May 12, 1943; lowest 42.4 below lsd, July 26, Aug. 9, 1950. Records available: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	38.5	May 21	35.4	Aug. 6	39.1	Oct. 22	37.6
9	38.3	28	36.0	13	39.5	29	37.7
16	38.2	June 4	36.7	20	39.8	Nov. 5	37.2
23	38.1	11	38.0	27	40.0	12	36.9
30	38.1	18	38.4	Sept. 3	39.2	19	37.0
Feb. 6	37.8	25	37.1	10	38.6	26	36.9
Apr. 18	35.7	July 2	37.4	17	38.4	Dec. 3	37.0
21	35.6	9	38.8	25	38.7	10	36.9
23	36.1	16	38.9	Oct. 1	39.0	17	36.9
30	38.7	23	39.1	8	38.7	24	36.9
May 7	36.6	30	39.4	15	38.6	31	36.9
14	36.2						

Bonneville County

3N 41E-6cb1. Poplar Store. Dug domestic water-table well in gravel of Quaternary age, reported depth 86 feet. Land-surface datum is 5,024.6 feet above msl datum of 1929 (preliminary). Water level influenced by local irrigation. Highest water level 33.5 below lsd, July 30, 1949; lowest 63.4 below lsd, Mar. 27, 1943. Records available: 1923, 1925, 1942-52.

Jan. 5	49.9	Apr. 5	52.5	June 21	40.0	Sept. 13	36.1
19	48.7	12	52.3	July 5	40.3	20	37.0
26	48.4	19	51.7	12	39.5	27	37.2
Feb. 2	48.8	26	51.3	19	38.3	Oct. 4	37.8
9	48.0	May 3	50.3	26	37.5	12	38.9
16	49.8	10	49.5	Aug. 2	36.3	Nov. 17	43.6
23	50.4	17	48.6	16	35.2	22	44.2
Mar. 1	50.8	24	46.4	23	35.3	Dec. 1	46.5
15	51.5	June 2	45.1	30	35.5	20	47.9
22	51.7	9	42.9	Sept. 6	36.1	28	48.7
29	52.2	14	41.5				

Butte County

4N 26E-26cd1. Inland Brick Co. Drilled industrial and domestic water-table well in sand of Quaternary age, diameter 8 inches, depth 143 feet, cased to 143. Land-surface datum is 5,332.2 feet above msl datum of 1929 (preliminary). Highest water level 37.17 below lsd, Aug. 5, 1952; lowest 41.35 below lsd, Mar. 8, 1951. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	39.06	Apr. 1	39.64	July 1	37.39	Oct. 3	37.96
11	38.98	12	39.32	6	37.58	7	37.96
16	38.94	17	39.25	15	37.55	15	38.18
25	39.06	25	39.21	22	37.64	21	38.31
Feb. 1	39.19	May 3	39.06	Aug. 5	37.17	27	38.27
8	39.25	6	38.89	12	37.22	Nov. 3	38.46
13	39.30	12	38.63	19	37.34	12	38.43
20	39.27	20	38.61	26	37.36	17	38.47
26	39.21	28	38.13	Sept. 6	37.51	24	38.56
Mar. 6	39.32	June 2	37.82	10	37.49	Dec. 1	38.68
11	39.30	9	37.52	16	37.65	8	38.66
19	39.53	17	37.24	22	37.85	16	38.73
26	39.71	24	37.51				

Canyon County

3N 3W-25aa1. Charles Imberg. Drilled unused water-table well, diameter 6 inches, reported depth 145 feet. Land-surface datum is 2,461.8 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 5.96 below lsd, Aug. 9, 1951; lowest 12.5 below lsd, Feb. 23, 1942. Records available: 1933-52.

Jan. 25	11.20	May 27	9.09	Sept. 5	7.50	Nov. 20	10.80
Feb. 23	11.47	July 1	6.72	Oct. 12	7.32	Dec. 19	10.97
Mar. 22	12.18	30	9.99				

3N 2W-23dc1. Mrs. A. J. Richards and others. Drilled stock and domestic water-table well, diameter 6 inches, reported depth 132 feet. Land-surface datum is 2,511.8 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 16.64 below lsd, Sept. 5, Oct. 12, 1952; lowest 28.8 below lsd, Nov. 18, 1929. Records available: 1921, 1925, 1928-52.

Jan. 25	20.38	Apr. 19	21.48	July 30	a17.65	Nov. 20	18.66
Feb. 23	a21.10	May 27	20.50	Sept. 5	16.64	Dec. 19	19.82
Mar. 22	21.38	July 1	18.18	Oct. 12	16.64		

a Pumping.

3N 2W-25aa1. John Hubbard. Drilled stock and domestic water-table well in alluvium of Quaternary age, diameter 6 inches, reported depth 34 feet, cased to 34, open bottom. Land-surface datum is 2,519.0 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 7.4 below lsd, Sept. 20, 1951, Sept. 17, Oct. 12, 1952; lowest 21.0 below lsd, Apr. 21, 1924. Records available: 1921, 1924-25, 1928, 1933-52.

Jan. 25	14.7	Apr. 19	13.7	July 30	8.5	Oct. 12	7.4
Feb. 23	12.7	May 27	11.7	Sept. 5	7.6	Nov. 20	9.8
Mar. 10	12.8	July 1	9.7	17	7.4	Dec. 19	11.9
22	13.3						

2N 1W-13ba1. Jennings. Drilled unused water-table well in basalt and sand, diameter 6 inches, depth 93 feet, cased to 21. Land-surface datum is 2,583.7 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 48.37 below lsd, Sept. 10, 1948; lowest 57.04 below lsd, Mar. 1, 1949. Records available: 1948-52.

Jan. 25	53.86	Apr. 19	56.56	July 30	48.57	Nov. 20	51.85
Feb. 23	54.60	May 27	50.51	Oct. 12	49.82	Dec. 19	52.39
Mar. 22	54.10	July 1	49.13				

Cassia County

9S 25E-23ca1. U. S. Bureau of Reclamation. Drilled observation water-table well in Snake River basalt, diameter 8 to 6 inches, depth 174 feet, cased to 172, slot perforations below water level. Land-surface datum is 4,266.9 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Recording gage installed June 20, 1951. Highest water level 116.5 below lsd, Sept. 23, 25, 28, Oct. 1-3, 1951; lowest 123.3 below lsd, Apr. 15-18, 1952. Records available: 1951-52.

1951*

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	119.9	118.2	117.0	116.5	117.3	118.1
2	.....	.....	119.9	118.1	117.0	116.5	117.3	118.1
3	.....	.....	119.8	118.1	117.0	116.5	117.3	118.2
4	.....	.....	119.8	118.0	116.9	116.6	117.2	118.2
5	.....	.....	119.7	118.0	116.9	116.7	117.4	118.1
6	.....	.....	119.8	118.0	116.8	116.8	117.4	118.4
7	.....	.....	119.8	118.0	116.8	116.8	117.3	118.6
8	.....	.....	119.7	117.9	116.8	116.8	117.4	118.7
9	.....	.....	119.6	117.9	116.8	116.8	117.4	118.9
10	.....	.....	119.6	117.8	116.6	116.7	117.3	118.9
11	.....	.....	119.6	117.8	116.7	116.6	117.3	118.9
12	.....	.....	119.5	117.8	116.8	116.7	117.2	118.7
13	.....	.....	119.4	117.8	116.8	116.8	117.4	118.7
14	.....	.....	119.3	117.8	116.8	116.7	117.4	118.9
15	.....	.....	119.3	117.7	116.8	116.7	117.7	118.9
16	.....	.....	119.2	117.6	116.8	116.7	117.9	118.8
17	.....	.....	119.2	117.6	116.7	116.7	117.9	119.0
18	.....	.....	119.1	117.5	116.7	116.8	117.8	118.7
19	.....	.....	119.0	117.4	116.6	116.7	117.7	118.7
20	.....	120.5	118.9	117.4	116.6	116.6	117.6	119.0
21	121.5	120.5	118.9	117.3	116.7	116.7	117.7	119.1
22	.....	120.5	118.9	.....	116.6	116.8	117.8	119.1
23	.....	120.5	118.7	.....	116.5	116.8	117.9	119.2
24	.....	120.4	118.6	.....	116.6	116.7	117.9	119.3
25	122.0	120.4	118.6	.....	116.5	116.8	118.1	.....
26	.....	120.3	118.6	.....	116.7	117.0	118.1	.....
27	.....	120.3	118.5	117.0	116.6	117.1	118.1	119.5
28	.....	.....	118.4	116.9	116.5	117.0	118.1	119.4
29	.....	120.2	118.4	117.0	116.6	116.9	118.2	119.3
30	.....	120.1	118.4	117.1	116.6	117.1	118.1	119.2
31	.....		118.3	117.1		117.1		119.5

* No record for January, February, March, and April.

Daily noon water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	119.8	121.1	121.8	123.0	123.1	121.6	120.2	118.5	117.3	116.8	117.6	119.1
2	120.0	121.0	121.9	.....	123.1	121.5	120.3	118.4	117.2	116.8	117.8	119.0
3	119.9	121.3	122.1	.....	122.9	121.4	120.2	118.4	117.1	116.8	117.9	119.3
4	119.9	121.3	122.1	.....	123.1	121.4	120.1	118.3	117.1	116.8	117.8	119.4
5	119.9	121.4	122.2	.....	123.0	121.3	120.0	118.3	117.1	116.8	117.8	119.2
6	119.9	121.4	122.2	.....	122.9	121.2	120.0	118.3	117.1	116.8	117.8	119.2
7	119.8	121.4	122.3	122.9	122.8	121.2	120.0	118.2	117.0	116.8	117.9	119.1
8	120.0	121.4	122.3	123.1	122.8	121.1	119.9	118.1	117.0	116.8	118.0	119.4
9	120.2	121.4	122.2	123.1	122.9	120.9	119.8	118.1	116.9	116.7	118.1	119.7
10	120.0	121.4	122.1	123.0	122.8	.....	119.7	118.0	116.8	116.8	118.1	119.6
11	120.0	121.4	122.2	123.0	122.7	120.8	119.6	118.0	116.8	116.9	118.1	119.7
12	120.0	121.4	122.4	123.1	122.7	.....	119.6	118.0	116.9	116.9	118.0	119.7
13	120.0	121.6	122.4	123.1	122.6	.....	119.6	117.9	117.0	116.8	118.1	.....
14	120.1	121.6	122.5	123.1	122.5	.....	119.5	117.9	117.0	117.0	118.0	.....
15	120.1	121.6	122.5	123.3	122.5	.....	119.3	117.8	116.9	116.9	118.0	.....
16	120.2	121.3	122.3	123.3	122.5	.....	119.3	117.8	116.9	116.9	118.2	.....
17	120.5	121.4	122.4	123.3	122.5	.....	119.3	117.8	116.9	117.0	118.4	119.8
18	120.4	121.5	122.4	123.3	122.4	120.6	119.2	117.7	116.9	117.0	118.6	119.9
19	120.5	121.6	122.5	123.2	122.4	.....	119.1	117.6	116.9	117.1	118.7	119.9
20	120.3	121.6	122.6	123.2	122.2	.....	119.1	117.6	116.9	117.1	118.6	.....
21	120.5	121.7	122.8	123.2	122.2	.....	.....	117.6	116.9	117.1	118.6	.....
22	120.6	121.8	122.9	123.2	122.2	.....	.....	117.6	116.9	117.1	118.7	.....
23	120.6	121.7	122.8	123.2	122.2	.....	.....	117.5	116.9	117.1	118.8	.....
24	120.6	122.0	122.7	123.2	122.1	.....	119.0	117.4	116.9	117.2	118.7	120.3
25	120.6	122.0	122.8	123.2	122.0	.....	118.9	117.4	116.9	117.2	118.9	120.4

9S 25E-23ca1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	120.8	122.0	122.9	123.1	122.0	120.3	118.9	117.3	116.8	117.3	119.0	.....
27	121.1	121.9	122.9	123.1	122.0	120.2	118.9	117.4	116.8	117.4	119.0	.....
28	121.1	121.9	122.8	123.0	121.8	120.2	118.8	117.3	116.8	117.4	119.0	.....
29	121.0	121.9	122.8	123.1	121.8	120.2	118.6	117.2	116.8	117.4	119.1	.....
30	121.0		122.8	123.1	121.7	120.3	118.6	117.2	116.8	117.4	119.0	.....
31	121.0		122.9		121.5		118.6	117.2		117.4		120.4

10S 23E-20dc1. City of Burley well 1. Dug unused water-table well in alluvial sand and gravel of Quaternary age, diameter 6 feet, reported depth 42 feet, concrete casing to 42. Highest water level 10.9 below lsd, Sept. 2, Oct. 1, 1952; lowest 19.2 below lsd, June 4, 1951. Records available: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	13.7	Apr. 1	15.0	July 1	13.0	Oct. 1	10.9
Feb. 1	14.3	May 2	15.9	Aug. 1	13.0	Nov. 1	11.2
Mar. 1	14.4	June 3	14.9	Sept. 2	10.9	Dec. 1	12.1

10S 23E-20dc3. City of Burley well 5. Drilled public-supply artesian well in gravel of Pleistocene age (?) and lava below Burley lake beds, diameter 24 to 15 inches, depth 1,115 feet, cased to 469. Highest water level 184 below lsd, Dec. 1, 1948; lowest 209 below lsd, Nov. 2, 1948. Records available: 1947-52.

Jan. 3	189	May 2	189	Aug. 1	190	Nov. 1	189
Feb. 1	189	June 3	189	Sept. 2	190	Dec. 1	189
Mar. 1	189	July 1	190	Oct. 1	189		

10S 25E-10ba1. Robert Simplot. Drilled stock water-table well in Snake River basalt, diameter 6 inches, reported depth 175 feet. Land-surface datum is 4,303.1 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 153.4 below lsd, Sept. 17, 1948; lowest 165.2 below lsd, May 19, 1949. Records available: 1928, 1948-52. Feb. 29, 158.4; June 10, 158.3; Oct. 19, 154.2.

11S 26E-14ab1. G. S. Matthews. Drilled stock water-table well in sand and gravel of Pleistocene age, diameter 4 inches, depth 157 feet, cased to 140. Land-surface datum is 4,428.2 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 103.58 below lsd, Aug. 19, 1950; lowest 110.73 below lsd, Feb. 25, 1949. Records available: 1948-52. June 10, 104.63.

11S 26E-26cc1. Robert Simplot. Dug unused water-table well in sand and gravel of Quaternary age, diameter 36 inches, depth 33 feet, cribbed with rock to 33. Land-surface datum is 4,401.2 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 29.64 below lsd, Nov. 5, 1952; lowest 32.22 below lsd, Sept. 25, 1948. Records available: 1928, 1948-52.

Jan. 10	30.33	Apr. 18	30.24	Aug. 16	29.90	Oct. 22	29.91
Feb. 29	30.25	June 10	30.14	Sept. 2	29.91	Nov. 5	29.64

13S 22E-9dc1. Owner unknown. Dug unused water-table well in sand and gravel of Quaternary age, diameter 4 feet, depth 112 feet, cribbed with concrete and rock to 112. Highest water level 63.10 below lsd, Aug. 28, 1951; lowest 81.33 below lsd, June 10, 1949. Records available: 1948-52. Jan. 10, 72.66; Mar. 3, 75.41; Apr. 18, 76.80; June 5, 71.42; Sept. 6, 64.33; Nov. 3, 71.29.

13S 26E-24aa1. John C. Hitt. Dug irrigation water-table well in alluvial gravel of Quaternary age, diameter 36 to 8 inches, depth 24 feet, corrugated iron casing to 24 perforations below water level. Land-surface datum is 4,528.1 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 2.07 below lsd, May 19, 1949; lowest 8.64 below lsd, Nov. 7, 1949. Records available: 1941-52.

Jan. 10	6.32	Apr. 18	5.20	Aug. 19	5.44	Oct. 24	6.26
Feb. 29	7.04	June 10	2.61	Sept. 2	5.74	Nov. 7	6.10

13S 27E-30bd1. A. D. Pierce. Dug irrigation water-table well in alluvial gravel of Quaternary age, diameter 6 feet, depth 27 feet, concrete casing to 27, perforations below water level. Land-surface datum is 4,541.6 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 3.54 below lsd, June 8, 1949; lowest 7.87 below lsd, July 1, 1948. Records available: 1947-52. Jan. 10, 5.51; Feb. 29, 5.31; Apr. 18, 4.28; June 10, 4.71; Sept. 2, 5.78; Oct. 24, 5.78; Nov. 7, 5.69.

14S 27E-33ca1. Harold Oman. Drilled irrigation water-table well, diameter 12 inches, reported depth 265 feet. Land-surface datum is 4,690.6 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 16.00 below lsd, Sept. 2, 1952; lowest 21.60 below lsd, Sept. 10, 1948. Records available: 1948-52. Jan. 10, 17.66; Apr. 18, 16.49; Aug. 27, 16.09; Sept. 2, 16.00; Oct. 24, 16.24.

15S 24E-26bc1. Owner unknown. Unused water-table well in alluvial gravel of Quaternary age, size 36 by 48 inches, depth 36 feet. Land-surface datum is 5,327.4 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 27.65 below lsd, June 27, 1951; lowest dry at 36,Nov. 7, 1949. Records available: 1948-52. June 10, 28.64; Aug. 18, 32.94; Sept. 2, 33.67.

15S 25E-6ab1. Jenny Wake. Dug domestic water-table well in alluvial gravel of Quaternary age, diameter 6 inches, depth 34 feet, cased to 34 with back-fill around casing. Land-surface datum is 5,503.7 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 13.57 below lsd, June 27, 1951; lowest 31.09 below lsd, Mar. 21, 1950. Records available: 1948-52. Jan. 10, 29.73; Feb. 29, 29.64; Apr. 18, 26.09; June 10, 15.78; Aug. 18, 17.03; Sept. 2, 20.20; Oct. 23, 25.65.

16S 27E-26ba1. Cook. Dug stock water-table well in alluvium of Quaternary age, diameter 60 to 24 inches, depth 36 feet, cribbed with wood to 36. Land-surface datum is 5,294.0 feet above msl datum of 1929, Pacific Northwest Supplementary Adjustment of 1947. Highest water level 10.41 below lsd, Aug. 28, 1951; lowest dry at 36.4,Apr. 22, 1950. Records available: 1936, 1938-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	23.15	Apr. 18	29.80	Aug. 21	10.96	Oct. 23	16.79
Feb. 29	28.24	June 10	15.16	Sept. 2	11.33	Nov. 7	19.06

Elmore County

1N 4E-23aa1. James O. Beck. Drilled irrigation water-table well in alluvial sand of Quaternary age, diameter 18 inches, depth 64 feet, cased to 64, perforated below water table. Highest water level 23.10 below lsd, Feb. 28, 1947; lowest 29.08 below lsd, Jan. 24, 1950. Records available: 1947-51. No measurement made in 1952.

Gem County

7N 2W-35ab1. R. J. Howard. Dug domestic water-table well in alluvial sand and gravel, diameter 36 inches, depth 99 feet, concrete casing. Water level influenced by local irrigation. Highest water level 67.6 below lsd, Nov. 3, 1941; lowest 84.4 below lsd, May 23, 1950. Records available: 1941-42; 1948-52.

Jan. 1	74.2	Mar. 18	77.5	July 1	78.9	Sept. 16	73.8
8	74.9	25	78.0	8	78.3	Oct. 14	73.2
15	75.3	Apr. 1	78.3	15	77.7	Nov. 5	72.7
22	75.8	15	78.9	22	77.4	12	72.9
29	76.2	18	79.0	29	77.0	18	73.2
Feb. 5	76.7	May 20	80.0	Aug. 5	76.8	25	73.5
12	77.1	27	79.9	13	76.4	Dec. 9	74.0
26	77.3	June 3	79.7	19	76.0	16	74.4
Mar. 4	76.9	10	79.9	26	75.7	23	74.7
11	76.9	17	79.5	Sept. 3	75.3	30	75.0

Jefferson County

8N 36E-9db1. W. A. Rausch. Drilled stock and domestic water-table well in Snake River basalt, diameter 6 inches, reported depth 67 feet. Land-surface datum is about 4,840 feet above msl. Highest water level 46.6 below lsd, Nov. 16, 1929; lowest 51.13 below lsd, June 27, 1950. Records available: 1929, 1949-52.

Feb. 14	49.90	June 3	48.53	Sept. 3	49.23	Nov. 18	50.15
Mar. 14	51.04	July 2	49.04	24	50.01	Dec. 16	49.58
Apr. 8	49.97	30	49.15	Oct. 23	49.05		

7N 33E-35bb1. Stewart Bros. Dug stock and domestic water-table well in sand of Tertiary age, diameter 30 inches, depth 47 feet, concrete casing to 40. Land-surface datum is about 4,784 feet above msl. Highest water level 18.95 below lsd, July 30, 1952; lowest 36.14 below lsd, Feb. 12, 1950. Records available: 1949-52.

7N 33E-35bb1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	26.48	May 7	31.00	July 30	18.95	Oct. 23	19.68
Feb. 7	27.74	June 3	25.90	Sept. 3	19.18	Nov. 18	21.58
Mar. 3	28.31	July 2	21.42	24	20.18	Dec. 16	23.23
Apr. 8	29.28						

7N 35E-25bd1. Owsley Canal Co. Drilled observation water-table well in Snake River basalt, diameter 6 inches, depth 26 feet. Land-surface datum is 4,787.8 feet above msl (preliminary). Highest water level 2.80 below lsd, Dec. 10, 1931; lowest 12.67 below lsd, July 18, 1950. Records available: 1931-43, 1945, 1948-52.

Apr. 8	5.10	July 2	4.95	Sept. 24	7.26	Nov. 18	6.86
May 7	3.48	30	6.94	Oct. 23	6.94	Dec. 16	7.88
June 3	4.15	Sept. 3	7.41				

7N 36E-22ab1. M. C. Turman. Drilled domestic water-table well in Snake River basalt, diameter 6 inches, depth 42 feet, cased to 42. Highest water level 11.51 below lsd, Feb. 28, 1950; lowest 16.48 below lsd, July 18, 1951. Records available: 1921, 1949-52.

Feb. 14	13.60	June 3	12.58	Sept. 24	a18.54	Nov. 18	12.44
Mar. 14	13.62	July 30	12.63	Oct. 23	12.47	Dec. 16	12.14
Apr. 8	13.00	Sept. 3	12.49				

a Pumping.

7N 37E-14cb1. Hillman Bros. Drilled stock and domestic water-table well in Snake River basalt, diameter 6 inches, depth 93 feet. Land-surface datum is about 4,867 feet above msl. Highest water level 70.3 below lsd, June 30, 1922; lowest 75.91 below lsd, July 18, 1951. Records available: 1922, 1929, 1949-52. June 3, 74.23; July 2, 74.10; July 30, 74.20; Sept. 3, 74.03, Sept. 24, 74.04; Oct. 23, 73.90; Nov. 18, 74.03.

6N 33E-2ba1. Stewart Bros. Drilled stock water-table well in Snake River basalt and sand interflow beds, diameter 8 inches, reported depth 245 feet, cased to 100. Land-surface datum is about 4,783 feet above msl datum of 1929 (preliminary). Highest water level 196.62 below lsd, Apr. 8, 1952; lowest 201.17 below lsd, Feb. 13, 1951. Records available: 1949-52.

Jan. 7	197.57	May 7	197.64	July 30	197.60	Oct. 23	196.77
Feb. 7	197.71	June 3	197.72	Sept. 3	196.99	Nov. 18	197.00
Mar. 3	197.30	July 2	197.94	24	197.02	Dec. 16	196.93
Apr. 8	196.62						

5N 34E-9bd1. U. S. Geol. Survey. Drilled observation water-table well in Snake River basalt, diameter 6 inches, depth 322 feet, cased to 322, perforations below water level, open bottom. Land-surface datum is 4,791.3 feet above msl datum of 1929 (preliminary). Water levels affected by barometric pressure. Recording gage removed Oct. 18, 1952. Highest water level 253.7 below lsd, Jan. 17, 1951; lowest 258.1 below lsd, July 27, 1952. Records available: 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	254.9	254.8	254.8	255.7	256.3	257.0	257.7	257.9	257.6	256.8	.....	.....
2	255.0	254.7	254.8	255.6	256.3	257.0	257.8	257.9	257.5	256.7	.....	.....
3	254.9	255.0	255.0	255.7	256.2	257.0	257.8	257.9	257.4	256.7	.....	.....
4	254.8	254.8	255.0	255.8	256.4	257.2	257.7	257.8	257.4	256.7	.....	.....
5	254.8	255.0	255.1	255.8	256.4	257.1	257.7	257.9	257.5	256.7	.....	.....
6	254.7	255.0	255.1	255.7	256.4	257.1	257.8	257.8	257.4	256.7	.....	.....
7	254.6	254.9	255.2	255.5	256.4	257.2	257.9	257.8	257.4	256.6	256.7	.....
8	254.8	255.0	255.1	255.8	256.4	257.2	257.9	257.8	257.3	256.5	.....	.....
9	254.9	255.0	255.0	255.8	256.6	257.2	257.8	257.8	257.2	256.4	.....	.....
10	254.6	255.0	254.9	255.7	256.6	257.2	257.7	257.8	257.2	256.5	.....	.....
11	254.6	254.9	254.9	255.8	256.6	257.1	257.8	257.8	257.2	256.5	.....	.....
12	254.6	254.8	255.1	255.8	256.6	257.3	257.8	257.8	257.2	256.4	.....	.....
13	254.5	255.0	255.1	255.8	256.6	257.3	257.9	257.7	257.3	256.4	.....	.....
14	254.4	255.1	255.2	255.8	256.5	257.3	257.9	257.8	257.3	256.5	.....	.....
15	254.4	255.0	255.2	256.0	256.6	257.4	257.7	257.7	257.2	256.3	.....	.....

5N 34E-9bd1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	254.6	254.7	255.0	256.0	256.7	257.5	257.7	257.7	257.2	256.3	.....	254.5
17	254.8	254.8	255.1	256.0	256.8	257.4	257.8	257.7	257.1	256.4	.....	.....
18	254.6	254.8	255.1	256.0	256.8	257.4	257.8	257.7	257.1	256.3	.....	.....
19	.....	254.9	255.2	255.9	256.8	257.4	257.8	257.7	257.1	.....	.....	.....
20	.....	254.9	255.3	256.0	256.6	257.5	257.8	257.7	257.0	.....	.....	.....
21	.....	254.9	255.5	256.1	256.8	257.4	257.8	257.7	.....	.....	.....	.....
22	.....	255.0	255.5	256.1	256.9	257.4	257.9	257.7	257.0	.....	.....	.....
23	.....	254.9	255.4	256.1	256.9	257.5	257.9	257.6	257.0	256.1	.....	.....
24	.....	255.2	255.3	256.1	256.9	257.4	257.9	257.6	257.1	.....	.....	.....
25	.....	255.2	255.4	256.1	256.8	257.5	257.9	257.7	257.0	.....	.....	.....
26	.....	255.2	255.6	256.1	257.0	257.5	256.0	257.6	256.9	.....	.....	.....
27	.....	255.1	255.6	256.0	257.0	257.5	258.0	257.6	256.8	.....	.....	.....
28	.....	254.9	255.5	256.1	256.9	257.6	258.0	257.6	256.9	.....	.....	.....
29	.....	255.0	255.4	256.2	256.9	257.6	258.0	257.5	256.9	.....	.....	.....
30	.....		255.4	256.3	257.0	257.7	257.9	257.5	256.8	.....	.....	.....
31	254.8		255.5		256.9		257.9	257.6		.....		.....

5N 36E-22aa1. O. W. Robeson. Drilled stock water-table well in Snake River basalt, diameter 6 inches, depth 240 feet. Land-surface datum is about 4,760 feet above msl. Highest water level 204.92 below lsd, Jan. 17, 1951; lowest 209.13 below lsd, July 5, 1950. Records available: 1929, 1949-52. Feb. 12, 206.24; Apr. 8, 207.15; May 8, 207.62; June 4, 208.09; July 2, 208.43.

5N 36E-23cb1. George Lake. Dug stock and domestic water-table well in sand of Quaternary age, diameter 36 inches, depth 29 feet, cribbed with stone to 29. Land-surface datum is about 4,761 feet above msl. Highest water level 3.75 below lsd, Oct. 23, 1952; lowest 20.0 below lsd, Nov. 7, 1929. Records available: 1922, 1929, 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	16.16	June 4	11.91	Sept. 3	4.41	Nov. 18	6.66
Apr. 8	16.92	July 2	7.62	25	4.13	Dec. 16	8.89
May 8	16.54	30	5.02	Oct. 23	3.75		

4N 37E-28bb1. Barry O'Brien. Drilled stock and domestic water-table well in Snake River basalt and associated sediments, diameter 6 inches, depth 245 feet. Land-surface datum is about 4,787 feet above msl. Highest water level 211.76 below lsd, Oct. 10, 1949; lowest 231.34 below lsd, May 23, 1951. Records available: 1949-52.

May 8	231.09	July 3	231.31	Sept. 3	215.45	Oct. 23	212.69
June 4	229.77	31	222.38	25	213.70	Nov. 19	213.74

Jerome County

9S 20E-1da1. U. S. Bureau of Reclamation. Drilled observation water-table well in Snake River basalt, diameter 8 to 6 inches, depth 400 feet, 8-inch casing to 12, perforated 6-inch liner from 340 to 400. Land-surface datum is 4,209.3 feet above U. S. Bureau of Reclamation datum. Highest water level 342.6 below lsd, Oct. 8, 1952; lowest 350.3 below lsd, Apr. 3, 1951. Records available: 1950-52.

Daily noon water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	.....	.....	.....	347.8	346.9	345.5	344.6	345.3	345.8
2	.....	.....	.....	.....	.....	.....	347.5	346.9	345.5	344.6	345.3	345.9
3	.....	.....	.....	350.3	.....	.....	347.4	346.8	345.5	344.6	345.3	345.8
4	.....	.....	.....	.....	.....	.....	.....	346.8	345.4	344.6	345.2	345.8
5	.....	.....	.....	.....	.....	.....	.....	346.8	345.4	344.7	345.4	345.7
6	.....	.....	.....	.....	.....	.....	.....	346.7	345.4	344.8	345.4	346.0
7	.....	.....	.....	.....	.....	.....	.....	346.6	345.4	344.8	345.3	346.0
8	.....	.....	.....	.....	.....	.....	.....	346.6	345.4	344.8	345.3	346.0
9	.....	.....	.....	.....	.....	.....	.....	346.5	345.4	344.8	345.3	346.1
10	.....	.....	.....	.....	.....	.....	.....	346.5	345.1	344.6	345.2	346.3
11	.....	.....	.....	.....	.....	349.3	.....	346.4	345.2	344.6	345.3	346.4
12	.....	.....	.....	.....	.....	.....	.....	346.4	345.2	344.7	345.3	346.3
13	.....	.....	.....	.....	.....	.....	347.8	346.4	345.2	344.8	345.3	346.2
14	.....	349.0	.....	.....	.....	.....	347.8	346.4	345.2	344.7	345.4	346.4
15	.....	.....	.....	.....	.....	348.8	347.8	346.3	345.2	344.7	345.5	346.3

9S 20E-1da1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	.....	.....	.....	.....	.....	348.7	347.7	346.2	345.1	344.7	345.6	346.4
17	.....	.....	.....	.....	.....	348.5	347.7	346.2	345.1	344.8	345.6	346.4
18	.....	.....	.....	.....	.....	348.6	347.7	346.1	345.1	344.9	345.6	346.1
19	.....	.....	.....	.....	.....	348.5	347.6	346.0	344.9	344.8	345.5	346.3
20	.....	.....	.....	.....	.....	348.5	347.5	346.1	345.0	344.8	345.5	346.3
21	.....	.....	.....	.....	.....	348.4	347.5	345.9	345.0	344.8	345.5	346.4
22	.....	.....	.....	.....	.....	348.2	347.5	345.9	344.8	344.9	345.6	346.5
23	.....	.....	.....	.....	.....	348.1	347.4	345.8	344.9	344.8	345.6	346.5
24	.....	.....	.....	.....	350.1	348.0	347.4	345.8	344.8	344.8	345.6	346.5
25	.....	.....	.....	.....	.....	347.9	347.3	345.8	344.7	345.0	345.8	346.6
26	.....	.....	.....	.....	.....	348.1	347.3	345.6	344.8	345.1	345.8	346.7
27	.....	.....	.....	.....	.....	347.8	347.2	345.5	344.7	345.1	345.8	346.7
28	.....	.....	.....	.....	.....	347.7	347.1	345.5	344.7	345.0	345.8	346.6
29	.....	.....	.....	.....	.....	347.7	347.1	335.6	344.7	345.0	345.8	346.5
30	.....		.....	.....	.....	347.7	347.1	345.6	344.7	345.1	345.8	346.4
31	.....		.....		.....		347.0	345.6		345.1		346.7

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	346.7	347.5	348.0	.....	349.3	348.2	346.0	344.6	343.4	342.8	343.2	343.8
2	346.7	347.4	348.2	.....	349.2	348.1	346.0	344.6	343.3	342.7	343.4	.....
3	346.7	347.6	348.2	.....	349.2	348.1	346.0	344.5	343.2	342.7	343.4	.....
4	346.7	347.7	348.2	.....	349.3	348.1	345.9	344.5	343.2	342.7	343.4	.....
5	346.7	347.7	348.3	.....	349.3	347.9	345.8	344.4	343.2	342.7	343.3	.....
6	346.8	347.8	348.3	.....	349.3	347.9	345.8	344.4	343.2	342.7	343.3	.....
7	346.8	347.8	348.3	.....	349.2	347.8	345.8	344.3	343.1	342.7	343.4	.....
8	346.9	347.8	348.3	349.0	349.3	347.8	345.8	344.2	343.0	342.6	343.4	.....
9	347.0	347.8	348.2	348.9	349.3	347.6	345.7	344.2	343.0	342.7	343.5	.....
10	346.9	347.8	348.2	348.8	349.3	347.6	345.6	344.1	342.9	342.7	343.5	.....
11	346.9	347.8	348.2	348.8	349.3	.....	345.5	344.0	343.0	342.8	343.5	.....
12	346.9	347.7	348.3	348.9	349.2	347.4	345.5	344.0	343.1	342.7	343.4	.....
13	346.9	347.8	348.3	348.8	349.2	347.2	345.5	344.0	343.1	342.8	343.4	.....
14	346.8	347.9	348.4	348.9	349.1	347.2	345.5	343.9	343.0	342.9	343.3	.....
15	346.9	347.9	348.4	349.0	349.1	347.2	345.4	343.9	343.0	342.8	343.3	.....
16	347.0	347.9	348.3	349.0	349.1	347.1	345.2	343.9	343.0	342.8	343.4	.....
17	347.2	347.7	348.4	349.1	349.1	347.0	345.2	343.8	343.0	342.9	343.5	.....
18	347.0	347.7	348.4	349.0	349.1	346.8	345.2	343.8	342.9	342.8	343.8	.....
19	347.2	347.8	348.4	349.0	349.0	346.8	345.1	343.7	342.9	342.9	343.8	.....
20	347.0	347.9	348.6	349.1	348.9	346.7	345.1	343.7	342.9	342.9	343.7	.....
21	347.1	347.9	348.7	349.1	348.9	346.7	345.0	343.7	342.9	342.9	343.7	.....
22	347.2	347.9	348.7	349.1	348.9	346.6	345.0	343.6	342.9	342.9	343.8	344.7
23	347.2	348.0	.....	349.1	348.9	346.5	345.0	343.6	342.9	343.0	343.8	.....
24	347.2	348.0	.....	349.2	348.8	346.4	345.0	343.5	342.9	343.0	343.8	.....
25	347.2	348.2	.....	349.1	348.8	346.3	344.9	343.5	342.9	343.0	343.9	.....
26	347.4	348.2	.....	349.2	348.7	346.2	344.9	343.5	342.8	343.1	343.9	.....
27	347.6	348.1	.....	349.1	348.7	346.2	344.9	343.4	342.8	343.2	343.9	.....
28	347.6	348.1	.....	349.1	348.5	346.1	344.8	343.4	342.8	343.2	343.9	.....
29	347.5	348.1	.....	349.1	348.5	346.1	344.7	343.3	342.8	343.1	343.9	.....
30	347.5		.....	349.1	348.4	346.1	344.6	343.4	342.8	343.2	343.9	.....
31	347.5		.....		348.2		344.7	343.4		343.1		.....

10S 20E-5ba1. Ezra Walker. Drilled unused water-table well in Snake River basalt, diameter 6 inches, depth 325 feet, cased to rock at shallow depth. Land-surface datum is about 4,098 feet above msl. Highest water level 242.1 below lsd, Sept. 11, 1952; lowest 269.6 below lsd, Aug. 1, 1929. Records available: 1929, 1949-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	249.5	250.0	248.2	.....	.....	242.8	242.2	243.1	244.1
2	.....	.....	.....	249.5	250.0	248.2	.....	.....	242.7	242.2	243.3	244.0
3	.....	.....	.....	249.6	250.0	248.2	.....	.....	242.6	242.1	243.5	244.2
4	.....	.....	.....	249.7	250.0	248.2	.....	.....	242.5	242.1	243.4	244.4
5	.....	.....	.....	249.7	250.0	248.0	.....	.....	242.6	242.2	243.4	244.3
6	.....	.....	.....	249.6	249.9	247.8	.....	.....	242.5	242.2	243.4	244.2
7	.....	.....	.....	249.5	249.8	247.8	.....	.....	242.5	242.2	243.4	244.0
8	.....	.....	.....	249.6	249.8	247.7	.....	.....	242.4	242.2	243.4	244.2
9	248.0	.....	.....	249.7	249.9	247.6	.....	.....	242.3	242.1	243.6	244.5
10	247.9	.....	.....	249.6	249.9	247.4	.....	.....	242.2	242.2	243.6	244.5

10S 20E-5ba1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	247.8	.....	.....	249.5	249.8	247.3	.....	.....	242.1	242.3	243.6	244.6
12	247.8	.....	.....	249.6	249.7	247.2	.....	243.6	242.2	242.3	243.5	244.8
13	247.7	.....	.....	249.6	249.7	247.0	.....	243.5	242.4	242.3	243.5	244.9
14	.....	.....	.....	249.6	249.6	246.8	.....	243.4	242.5	242.5	243.2	244.9
15	.....	.....	.....	249.8	249.6	246.9	.....	243.4	242.4	242.5	243.2	244.8
16	.....	.....	.....	249.8	249.5	246.9	.....	243.4	242.3	242.4	243.4	244.8
17	.....	.....	.....	249.9	249.5	246.7	.....	243.3	242.3	242.5	243.6	244.8
18	.....	.....	.....	249.9	249.5	246.5	.....	243.2	242.3	242.6	243.8	244.7
19	.....	.....	249.1	249.8	249.5	246.4	.....	243.2	242.3	242.6	244.0	244.8
20	.....	.....	249.2	249.8	249.3	.....	.....	243.1	242.2	242.6	243.9	244.8
21	.....	.....	249.4	249.9	249.2	.....	.....	243.0	242.2	242.7	243.9	244.9
22	.....	.....	249.5	250.0	249.2	.....	.....	243.0	242.3	242.7	244.0	245.0
23	.....	.....	249.4	250.0	249.2	.....	.....	242.9	242.3	242.8	244.0	245.1
24	.....	.....	249.3	250.0	249.2	.....	.....	242.8	242.3	242.8	243.9	245.1
25	.....	.....	249.3	250.0	249.0	.....	.....	242.8	242.3	242.9	244.0	245.2
26	.....	.....	249.4	250.0	249.0	.....	.....	242.8	242.2	242.9	244.2	245.2
27	.....	.....	249.5	250.0	248.9	.....	.....	242.7	242.2	243.1	244.1	245.2
28	.....	.....	249.4	249.9	248.7	.....	.....	242.7	242.2	243.1	244.2	245.2
29	.....	.....	249.3	250.0	248.7	.....	.....	242.6	242.2	243.1	244.2	245.2
30	.....		249.3	250.0	248.5	.....	.....	242.6	242.3	243.1	244.1	245.2
31	.....		249.4		248.3		.....	242.7		243.0		245.3

Kootenai County

53N 4W-24bb1. Washington Water Power Co. well 91. C. T. Jurgens. Dug stock and domestic water-table well in fluvioglacial gravel of Pleistocene age, diameter 39 inches, depth 480 feet, cribbed with wood to 480. Land-surface datum is 2,498.5 feet above msl datum of 1929 (unadjusted). Highest water level 447.6 below lsd, Aug. 21, 1950, July 16, 23, 1951; lowest 478.1 below lsd, Jan 15, 1932. Records available: 1929-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	452.4	Apr. 9	454.4	July 7	448.6	Oct. 6	448.5
14	452.6	14	454.4	14	448.4	13	448.6
21	452.7	21	454.2	21	448.3	20	448.8
28	452.9	28	453.7	28	448.2	27	448.9
Feb. 4	453.1	May 5	453.3	Aug. 4	448.1	Nov. 3	449.1
11	453.3	12	453.6	11	448.1	10	449.3
18	453.4	19	451.8	18	448.1	17	449.6
25	453.6	27	451.0	26	448.1	24	449.8
Mar. 3	453.8	June 2	450.5	Sept. 1	448.1	Dec. 1	449.1
10	453.9	9	449.9	7	448.1	8	449.5
17	454.0	16	449.5	15	448.2	15	450.9
24	454.2	23	449.1	22	448.3	22	451.2
31	454.3	30	448.8	29	448.4	29	451.3

53N 3W-31aa1. A. L. Ramm. Dug and drilled unused water-table well in fluvioglacial gravel of Pleistocene age, diameter 36 to 6 inches, depth 395 feet, concrete casing to 367, open 6-inch hole below 367. Land-surface datum is 2,383.4 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Recording gage removed Sept. 17, 1952. Highest water level 346.1 below lsd, July 18-Aug. 12, 1950, June 4-July 5, 1951; lowest 355.4 below lsd, Mar. 29, 1950. Records available: 1948-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	351.4	352.1	352.7	353.1	350.0	347.1	346.6	346.8	347.3	.....	.....	.....
2	351.4	352.1	352.7	353.1	349.8	347.0	346.6	346.8	347.3	.....	.....	.....
3	351.4	352.1	352.7	353.1	349.6	347.0	346.6	346.8	347.3	.....	.....	.....
4	351.4	352.2	352.7	353.1	349.4	347.0	346.6	346.9	347.3	.....	.....	.....
5	351.4	352.2	352.7	353.1	349.2	346.9	346.6	346.9	347.3	.....	.....	.....
6	351.5	352.2	352.7	.....	349.1	346.9	346.6	346.9	347.3	.....	.....	.....
7	351.5	352.2	352.8	.....	348.9	346.9	346.6	346.9	347.4	.....	.....	.....
8	351.5	352.3	352.8	.....	348.8	346.9	346.6	346.9	347.4	.....	.....	.....
9	351.5	352.3	352.8	.....	348.6	346.9	346.6	346.9	347.4	.....	.....	.....
10	351.6	352.3	352.8	.....	348.5	346.8	346.6	346.9	347.4	.....	.....	.....

53N 3W-31aa1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	351.6	352.4	352.8	.....	348.4	346.8	346.6	346.9	347.4	.....	.....	350.0
12	351.6	352.4	352.8	.....	348.3	346.8	346.6	346.9	347.4	.....	.....	.....
13	351.6	352.4	352.8	.....	348.2	346.8	346.6	347.0	347.5	.....	.....	.....
14	351.6	352.4	352.8	.....	348.1	346.8	346.6	347.0	347.5	.....	.....	.....
15	351.7	352.5	352.9	.....	348.0	346.8	346.6	347.0	347.5	.....	.....	.....
16	351.7	352.5	352.9	.....	348.0	346.8	346.6	347.0	347.5	.....	.....	.....
17	351.7	352.5	352.9	352.4	347.9	346.7	346.7	347.0	347.5	.....	.....	.....
18	351.7	352.5	352.9	352.3	347.8	346.7	346.7	347.0	.....	.....	.....	.....
19	351.7	352.5	352.9	352.2	347.8	346.7	346.7	347.0	.....	.....	.....	.....
20	351.8	352.5	352.9	352.0	347.7	346.7	346.7	347.1	.....	.....	.....	.....
21	351.8	352.6	353.0	351.9	347.7	346.7	346.7	347.1	.....	.....	.....	.....
22	351.8	352.6	353.0	351.7	347.6	346.7	346.7	347.1	.....	.....	.....	.....
23	351.9	352.6	353.0	351.5	347.6	346.7	346.7	347.1	.....	.....	.....	.....
24	351.9	352.6	353.0	351.3	347.5	346.7	346.7	347.1	.....	.....	.....	.....
25	351.9	352.6	353.0	351.1	347.5	346.7	346.7	347.1	.....	.....	.....	.....
26	351.9	352.8	353.0	350.9	347.4	346.6	346.7	347.1	.....	.....	.....	.....
27	352.0	352.6	353.0	350.7	347.4	346.6	346.8	347.2	.....	.....	.....	.....
28	352.0	352.7	353.1	350.6	347.3	346.6	346.8	347.2	.....	.....	.....	.....
29	352.0	352.7	353.1	350.4	347.2	346.6	346.8	347.2	.....	.....	.....	.....
30	352.0		353.1	350.2	347.2	346.6	346.8	347.2	.....	.....	.....	.....
31	352.1		353.1		347.1		346.8	347.2		.....		.....

53N 2W-3bc1. U. S. Navy. Drilled public-supply water-table well in fluvioglacial gravel of Pleistocene age, diameter 18 inches, depth 331 feet, cased to 331, perforations 266-326. Land-surface datum is 2,269.1 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 202 below lsd, May 26, 1949; lowest 228 below lsd, Nov. 14, 1944. Records available: 1943-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	222	Mar. 31	222	June 24	211	Sept. 29	211
7	222	Apr. 7	222	July 7	211	Oct. 6	211
14	223	14	222	14	211	13	211
21	222	16	221	21	211	20	211
28	222	21	221	30	211	30	212
Feb. 4	222	28	221	Aug. 4	211	Nov. 3	213
11	222	May 5	215	11	211	10	214
14	222	12	214	16	210	17	215
18	222	19	214	18	211	24	216
25	222	26	213	26	211	Dec. 1	219
Mar. 5	222	June 2	213	Sept. 1	211	8	219
12	222	4	213	8	211	11	219
17	222	9	214	15	211	20	221
24	222	16	213	22	211	27	222

53N 2W-8cc1. Idaho Department of Fish and Game. Drilled unused water-table well in fluvioglacial gravel of Pleistocene age, diameter 12 inches. Land-surface datum is 2,440.5 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 383.4 below lsd, Sept. 17, 1952; lowest 394.4 below lsd, Feb. 14, Apr. 16, 1952. Records available: 1950-52. Feb. 14, 394.4; Apr. 16, 394.4; June 4, 388.3; Aug. 16, 383.6; Sept. 17, 383.4; Dec. 11, 390.2.

53N 2W-9aa1. Idaho Department of Fish and Game. Drilled unused water-table well in fluvioglacial gravel and sand of Pleistocene age, diameter 16 inches, depth 351 feet, cased to 351, perforations 280-345. Land-surface datum is 2,291.5 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 228 below lsd, June 8, 1948; lowest 252 below lsd, Jan. 2, Oct. 30, 1944. Records available: 1943-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	242.5	242.7	242.4	243.2	238.3	234.0	232.4	230.9	231.0	231.8	232.9	239.0
2	242.5	242.7	242.4	243.2	237.8	234.1	232.3	230.8	231.0	231.9	233.0	239.2
3	242.5	242.6	242.4	243.1	237.5	234.2	232.2	230.8	231.0	231.9	233.2	239.4
4	242.5	242.6	242.5	243.1	237.1	234.4	232.1	230.8	231.0	231.9	233.3	239.6
5	242.6	242.6	242.5	243.1	236.8	234.5	232.0	230.8	231.0	231.8	233.5	239.7

53N 2W-9aa1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	242.6	242.5	242.6	243.1	236.6	234.6	231.9	230.8	231.0	231.8	233.6	239.9
7	242.6	242.5	242.6	243.0	236.4	234.7	231.8	230.7	230.9	231.8	233.7	240.0
8	242.6	242.5	242.6	243.0	236.2	234.7	231.7	230.7	230.9	231.8	233.9	240.2
9	242.6	242.4	242.7	242.9	236.0	234.7	231.7	230.6	230.9	231.8	234.1	240.3
10	242.6	242.4	242.7	242.9	235.9	234.6	231.6	230.6	230.8	231.7	234.3	240.4
11	242.6	242.4	242.8	242.8	235.7	234.6	231.6	230.6	230.8	231.7	234.5	240.5
12	242.6	242.3	242.8	242.7	235.6	234.6	231.6	230.6	230.8	231.7	234.7	240.6
13	242.6	242.3	242.8	242.6	235.5	234.5	231.6	230.6	230.8	231.7	234.9	240.7
14	242.6	242.3	242.8	242.5	235.3	234.4	231.6	230.7	230.8	231.7	235.1	240.8
15	242.6	242.3	242.9	242.4	235.2	234.2	231.5	230.7	230.8	231.6	235.3	240.9
16	242.6	242.3	242.9	242.4	235.0	234.0	231.4	230.8	230.8	231.6	235.5	241.0
17	242.6	242.3	242.9	242.2	234.9	233.8	231.4	230.8	230.9	231.7	235.8	241.1
18	242.6	242.3	243.0	242.1	234.7	233.6	231.3	230.8	231.0	231.7	236.0	241.2
19	242.6	242.3	243.0	241.9	234.5	233.5	231.3	230.8	231.0	231.8	236.2	241.3
20	242.6	242.3	243.0	241.8	234.3	233.4	231.2	230.8	231.1	231.9	236.5	241.4
21	242.6	242.3	243.1	241.5	234.2	233.4	231.2	230.8	231.1	232.0	236.7	241.4
22	242.6	242.3	243.1	241.3	234.0	233.3	231.2	230.9	231.2	232.0	237.0	241.5
23	242.6	242.3	243.1	241.1	233.8	233.2	231.1	230.9	231.3	232.1	237.2	241.6
24	242.6	242.3	243.1	240.8	233.7	233.1	231.1	230.9	231.4	232.2	237.4	241.7
25	242.6	242.3	243.2	240.6	233.6	233.0	231.1	230.9	231.5	232.2	237.6	241.8
26	242.7	242.3	243.2	240.3	233.6	232.9	231.1	230.9	231.6	232.2	237.8	241.8
27	242.7	242.3	243.2	240.0	233.6	232.8	231.1	231.0	231.7	232.3	238.1	241.9
28	242.7	242.3	243.2	239.7	233.6	232.7	231.1	231.0	231.7	232.4	238.3	242.0
29	242.7	242.3	243.2	239.3	233.7	232.6	231.0	231.0	231.8	232.5	238.6	242.0
30	242.7		243.2	238.8	233.8	232.5	231.0	231.0	231.8	232.6	238.8	242.1
31	242.7		243.2		233.9		230.9	231.0		232.8		242.1

52N 4W-35dc1. J. H. Dye. Dug stock and domestic water-table well in fluvioglacial gravel of Pleistocene age, diameter 6 inches, depth 305 feet, cased to 305, open bottom. Land-surface datum is 2,314.0 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 291.4 below lsd, Oct. 25, 1950; lowest 305.8 below lsd, Dec. 11, 1952. Records available: 1948-52. Apr. 17, 300.1; June 4, 295.5; Aug. 16, 299.7; Sept. 23, 293.3; Dec. 11, 305.8.

51N 5W-21da1. Bob Bowen. Dug and drilled stock and domestic water-table well in fluvioglacial gravel of Pleistocene age, diameter 4 inches, depth 190 feet, cased to 190, open bottom. Land-surface datum is 2,159.5 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 154.1 below lsd, Aug. 15, 1951; lowest 175.5 below lsd, Nov. 27, 1941. Records available: 1941, 1948-52. Apr. 17, 159.1; June 4, 154.5; Sept. 23, 156.7; Dec. 12, 157.5.

51N 5W-28ad1. J. O. Self. Dug stock water-table well in fluvioglacial gravel of Pleistocene age, diameter 4 inches, depth 163 feet, cased to 163, open bottom. Land-surface datum is 2,143.7 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 137.8 below lsd, Sept. 1, 1950; lowest 147.7 below lsd, May 26, 1948. Records available: 1948-52. Feb. 14, 143.7; Apr. 17, 143.6; June 4, 140.7; Aug. 16, 140.3; Sept. 23, 140.9; Dec. 12, 144.3.

51N 5W-31bc1. Peter Beck. Dug and drilled stock and domestic water-table well in fluvioglacial gravel and sand of Pleistocene age, diameter 7 inches, reported depth 156 feet, cased to 152. Land-surface datum is 2,105.4 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 109.8 below lsd, July 6, 1950; lowest 132.6 below lsd, Nov. 29, 1941. Records available: 1941, 1948-52. Apr. 17, 117.8; June 4, 112.6; Sept. 23, 116.7; Dec. 12, 120.6.

51N 5W-33bb1. Washington Water Power Co. well 58. Spokane International Railway Co. Dug railroad water-table well in fluvioglacial gravel of Pleistocene age, diameter 5 feet, depth 174 feet, concrete casing to 174, open bottom. Land-surface datum is 2,137.6 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 134.1 below lsd, June 29, 1950; lowest 166.6 below lsd, Feb. 11, 1932. Records available: 1928-52. Feb. 14, 142.4; Apr. 17, 142.0; June 4, 137.3; Aug. 16, 139.3; Sept. 23, 140.0; Dec. 12, 143.5.

51N 4W-7bc1. Ralph Preuninger. Drilled unused water-table well in fluvioglacial gravel and sand of Pleistocene age, diameter 8 to 5 inches, depth 283 feet. Land-surface datum is 2,267.1 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Recording gage removed Sept. 22, 1952. Highest water level 251.6 below lsd, Aug. 16, 1951; lowest 272.4 below lsd, July 22, 1942. Records available: 1942, 1948-52.

51N 4W-7bc1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb 9	256.4	Feb. 28	256.9	Mar. 18	257.2	Apr. 6	257.3
10	256.5	29	256.9	19	257.2	7	257.3
11	256.5	Mar. 1	256.9	20	257.2	8	257.3
12	256.5	2	256.9	21	257.2	9	257.3
13	256.5	3	256.9	22	257.3	10	257.3
14	256.6	4	256.9	23	257.3	11	257.2
15	256.6	5	257.0	24	257.3	12	257.2
16	256.6	6	257.0	25	257.3	13	257.2
17	256.6	7	257.0	26	257.3	14	257.2
18	256.6	8	257.0	27	257.3	15	257.1
19	256.7	9	257.0	28	257.3	16	257.1
20	256.7	10	257.0	29	257.3	17	257.0
21	256.7	11	257.0	30	257.3	18	257.0
22	256.8	12	257.1	31	257.3	19	256.9
23	256.8	13	257.1	Apr. 1	257.3	20	256.9
24	256.8	14	257.1	2	257.3	Aug. 16	257.6
25	256.9	15	257.1	3	257.3	Sept. 22	253.1
26	256.9	16	257.1	4	257.3	Dec. 11	256.1
27	256.9	17	257.2	5	257.3		

51N 4W-10cc1. Kootenai County. Drilled unused water-table well in fluvioglacial gravel of Pleistocene age, diameter 4 inches, depth 305 feet. Land-surface datum is 2,288.0 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 269.2 below lsd, Aug. 31, 1950; lowest 291.5 below lsd, Nov. 5, 1941. Records available: 1941, 1948-52. Apr. 17, 279.8; June 4, 272.9; Aug. 16, 271.3; Sept. 23, 271.4.

51N 4W-18dc1. Clarence Feely. Drilled unused water-table well in fluvioglacial sand and gravel of Pleistocene age, diameter 6 inches, depth 275 feet, cased to 275. Land-surface datum is 2,260.7 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Recording gage removed Sept. 22, 1952. Highest water level 244.8 below lsd, Sept. 1, 1950; lowest dry at 278.0, Nov. 28, 1941. Records available: 1941, 1948-52.

Feb. 14	250.0	May 10	249.8	June 2	247.5	Sept. 1	247.2
Apr. 17	251.6	11	249.8	3	247.3	2	247.2
16	251.5	12	249.7	4	247.2	3	247.2
19	251.5	13	249.6	5	247.0	4	247.2
20	251.4	14	249.5	6	247.0	5	247.2
21	251.4	15	249.4	7	247.1	6	247.2
22	251.3	16	249.4	8	247.1	7	247.2
23	251.2	17	249.3	Aug. 16	247.2	6	247.2
24	251.2	18	249.2	17	247.2	9	247.2
25	251.1	19	249.2	18	247.2	10	247.2
26	251.1	20	249.1	19	247.2	11	247.2
27	251.0	21	249.1	20	247.2	12	247.2
28	250.9	22	249.0	21	247.2	13	247.2
29	250.8	23	248.9	22	247.2	14	247.2
30	250.8	24	248.9	23	247.2	15	247.2
May 1	250.7	25	248.8	24	247.2	16	247.2
2	250.6	26	248.7	25	247.2	17	247.2
3	250.5	27	248.5	26	247.2	18	247.2
4	250.4	28	248.3	27	247.2	19	247.3
5	250.3	29	248.2	28	247.2	20	247.3
6	250.2	30	248.0	29	247.2	21	247.3
7	250.1	31	247.8	30	247.2	22	247.3
8	250.0	June 1	247.7	31	247.2	Dec. 11	249.8
9	250.0						

51N 4W-26ba1. Rudolph. Drilled stock and domestic water-table well in fluvioglacial gravel of Pleistocene age, depth 283 feet, cased to 283, open bottom. Land-surface datum is 2,277.1 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level is 246.2 below lsd, Aug. 31, 1950; lowest 271.3 below lsd, July 22, 1942. Records available: 1942, 1948-52. Feb. 14, 252.6; Apr. 17, 255.8; June 4, 252.3; Aug. 16, 249.3; Sept. 23, 249.2; Dec. 11, 251.9.

50N 5W-1aa1. Washington Water Power Co. well 96. Post Falls Irrigation District. Dug public-supply water-table well in fluvioglacial sand and gravel of Pleistocene age, diameter 30 inches, depth 231 feet, concrete tile casing, open bottom. Land-surface datum is 2,192.5 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Highest water level 176.1 below lsd, Sept. 1, 1950; lowest 212.3 below lsd, Dec. 8, 1931. Records available: 1929-52. Feb. 14, 184.4, pumped recently; Apr. 17, 185.4, pumped recently; June 4, 181.9; Sept. 23, 179.8, pumped recently; Dec. 11, 184.0, pumped recently.

Latah County

39N 5W-7dd1. Inland Motor Freight Co. Drilled unused artesian well in Moscow Basin, diameter 8 inches, depth 231 feet. Land-surface datum is 2,560.9 feet above msl datum of 1929. Highest water level 50.10 below lsd, Apr. 19, 1938; lowest 74.90 below lsd, Aug. 25, 1951. Records available: 1937-40, 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 15	71.38	June 4	73.6	June 30	72.4	July 28	74.5
Apr. 15	71.40	5	73.61	July 7	73.2	Aug. 11	73.1
21	72.0	18	72.7	14	74.4	15	73.86
28	72.7	23	72.5	21	74.6	Dec. 9	72.19

39N 5W-10ac1. U. S. Geol. Survey. Driven observation water-table well in alluvial sand and gravel of Quaternary age, diameter 1½ inches, depth 21 feet, cased to 21. Highest water level 5.97 below lsd, Mar. 21, 1949; lowest 17.61 below lsd, Feb. 1, 1937. Records available: 1934-40, 1947-52. Feb. 15, 7.63; Apr. 15, 7.20; June 5, 9.95; Aug. 15, 13.06; Dec. 9, 15.37.

Minidoka County

8S 23E-2ba1. U. S. Bureau of Reclamation. Drilled observation water-table well in Snake River basalt, diameter 8 to 6 inches, reported depth 254 feet, 8-inch casing to 18, perforated 6-inch casing from 194-254. Land-surface datum is 4,313.6 feet above U. S. Bureau of Reclamation datum. Recording gage installed Sept. 27, 1950. Highest water level 198.8 below lsd, Dec. 18, 1951; lowest 201.7 below lsd, July 17-19, 1951. Records available: 1950-52.

Daily noon water level from recorder graph, 1950

Aug. 24	200.6	Oct. 19	200.2	Nov. 10	199.9	Dec. 6	199.9
Sept. 27	200.5	20	200.0	11	199.9	11	200.0
28	201.0	21	199.9	12	199.6	12	199.8
29	200.7	22	199.9	13	199.6	13	199.8
30	200.5	23	199.8	14	199.5	14	199.7
Oct. 1	200.6	24	199.9	15	199.6	15	199.8
2	200.4	25	200.0	16	199.7	16	199.9
3	200.5	26	199.8	17	199.8	17	199.9
4	200.3	27	199.8	18	199.6	18	199.9
5	200.3	28	199.9	19	199.6	19	199.8
6	200.2	29	199.9	20	199.8	20	199.9
7	200.4	30	199.7	21	200.0	21	199.9
8	200.4	31	199.9	22	199.9	22	199.9
9	200.1	Nov. 1	199.9	23	199.8	23	199.9
10	200.1	2	200.1	24	199.8	24	199.9
11	200.3	3	200.1	25	199.8	25	199.8
12	200.2	4	200.2	26	199.9	26	200.0
13	200.2	5	199.8	27	199.8	27	200.0
14	200.2	6	199.8	28	199.9	28	200.0
15	200.2	7	200.0	29	199.9	29	199.9
16	200.2	8	200.0	30	199.7	30	199.8
17	199.9	9	200.2	Dec. 5	199.9	31	199.6
18	200.1						

1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	199.7	200.1	200.2	200.2	200.1	200.7	201.4	201.3	200.7	199.9	199.7	199.2
2	199.7	200.2	199.9	200.2	200.3	200.7	201.3	201.3	200.7	199.8	199.7	199.1
3	199.6	200.2	199.8	200.2	200.3	200.7	201.4	201.3	200.6	199.9	199.6	199.1
4	199.7	200.1	200.0	200.1	200.3	200.6	201.4	201.2	200.6	199.9	199.5	199.0
5	199.9	200.0	199.8	200.0	200.3	200.6	201.4	201.2	200.6	200.1	199.6	198.9
6	200.1	200.1	199.9	200.1	200.3	200.6	201.5	201.2	200.6	200.1	199.6	199.1
7	200.1	200.1	200.1	200.1	200.4	200.6	201.5	201.2	200.6	200.1	199.5	199.4
8	200.0.	200.2	200.2	200.2	200.4	200.7	201.5	201.2	200.6	200.0	199.3	199.5
9	199.9	200.2	200.0	200.2	200.6	200.8	201.5	201.1	200.6	200.0	199.4	199.6
10	200.0	200.2	200.2	200.3	200.6	200.8	201.5	201.1	200.4	199.9	199.4	199.5

8S 23E-2ba1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	199.9	200.0	200.5	200.3	200.3	200.8	201.5	201.1	200.4	199.8	199.2	199.5
12	199.9	200.1	200.6	200.3	200.4	200.8	201.6	201.1	200.5	199.7	199.1	199.3
13	200.1	200.3	200.4	200.3	200.3	200.9	201.6	201.1	200.5	199.8	199.1	199.3
14	200.1	200.3	.....	200.2	200.4	201.0	201.5	201.2	200.5	199.8	199.2	199.4
15	200.0	200.2	.....	200.2	200.5	201.0	201.6	201.2	200.6	199.7	199.3	199.4
16	199.8	200.0	.....	200.2	200.6	200.9	201.6	201.1	200.5	199.6	199.5	199.3
17	199.8	200.2	.....	200.1	200.5	200.9	201.7	201.0	200.5	199.6	199.6	199.2
18	199.8	200.0	.....	200.1	200.4	201.0	201.7	201.0	200.5	199.8	199.5	198.8
19	199.9	199.9	200.3	200.1	200.4	201.1	201.7	201.0	200.5	199.7	199.4	199.0
20	200.1	200.1	200.2	200.1	200.4	201.0	201.6	201.0	200.3	199.5	199.2	199.2
21	200.1	199.9	200.2	200.3	200.8	201.0	201.6	201.0	200.4	199.5	199.1	199.2
22	200.1	200.0	200.0	200.3	200.5	201.0	201.6	200.8	200.3	199.5	199.2	199.3
23	200.1	199.9	200.3	200.2	200.5	201.2	201.6	200.9	200.2	199.6	199.3	.....
24	200.1	199.9	200.3	200.2	200.5	201.1	201.6	201.0	200.2	199.5	199.2	.....
25	200.1	200.0	200.3	200.2	200.6	201.2	201.5	200.9	200.0	199.5	199.4	.....
26	200.0	200.0	200.0	200.2	200.6	201.3	201.5	200.8	200.1	199.6	199.4	.....
27	199.9	199.9	200.1	200.4	200.6	201.3	201.6	200.6	200.0	199.7	199.4	.....
28	199.9	200.0	200.2	200.2	200.6	201.3	201.6	200.5	199.9	199.6	199.3	199.3
29	200.0		200.3	200.1	200.7	201.4	201.5	200.6	199.9	199.5	199.3	199.1
30	200.1		200.1	200.0	200.6	201.4	201.5	200.8	199.9	199.5	199.2	198.9
31	200.1		200.1		200.6		201.5	200.8		199.5		199.1

Daily noon water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	199.3	199.5	199.3	.....	.....	200.4	201.2	201.5	200.9	200.1	199.1	.....
2	199.5	199.3	199.2	.....	199.8	200.5	201.2	201.5	200.8	200.1	199.2	.....
3	199.5	199.6	199.5	.....	199.8	200.5	201.2	201.4	200.8	200.0	199.3	.....
4	199.4	199.6	199.4	.....	199.9	200.6	201.2	201.2	200.7	200.0	199.2	.....
5	199.4	199.6	199.5	.....	199.9	.....	201.1	201.2	200.8	199.9	199.2	.....
6	199.3	199.6	199.5	.....	199.8	.....	201.1	201.2	200.7	199.9	199.2	.....
7	199.1	199.5	199.5	199.5	199.7	200.5	201.2	201.2	200.7	199.9	199.2	.....
8	199.3	199.5	199.5	199.7	199.8	200.6	201.2	201.1	200.6	199.9	.....	.....
9	199.5	199.5	199.4	199.5	199.9	200.6	201.2	201.1	200.5	199.8	.....	.....
10	199.3	199.5	199.2	199.4	199.9	200.6	201.1	201.1	200.4	199.8	.....	.....
11	199.3	199.3	199.3	199.5	199.8	200.7	201.1	201.1	200.4	199.7	.....	.....
12	199.2	199.5	199.3	199.6	199.8	200.6	201.4	201.1	.....	199.6	.....	.....
13	199.2	199.5	199.4	199.5	199.8	200.7	.....	201.1	.....	199.5	.....	.....
14	199.1	199.4	.....	199.6	199.8	200.6	.....	201.1	.....	199.5	.....	.....
15	199.1	.....	.....	199.7	199.8	200.7	.....	201.1	.....	199.5	.....	.....
16	199.3	199.4	.....	199.8	199.8	200.8	.....	201.0	.....	199.5	.....	.....
17	199.4	.....	.....	199.8	199.9	200.8	.....	201.0	.....	199.4	199.2	.....
18	.....	.....	.....	199.7	199.9	200.8	.....	200.9	.....	199.4	199.5	199.7
19	.....	.....	.....	199.5	199.9	200.7	.....	200.9	200.4	199.4	199.6	199.7
20	.....	.....	.....	199.7	199.9	200.8	.....	200.9	200.5	199.3	.....	199.7
21	.....	.....	.....	199.7	199.9	200.8	.....	.....	200.5	199.4	.....	199.7
22	.....	.....	.....	199.7	200.0	200.9	.....	200.9	200.5	199.3	.....	199.8
23	.....	.....	.....	199.7	200.1	200.9	.....	201.1	200.5	199.2	.....	199.8
24	.....	.....	.....	199.6	200.1	200.9	201.3	201.0	200.4	199.2	.....	199.8
25	.....	.....	.....	199.6	200.1	200.9	201.4	200.9	200.4	199.2	.....	199.7
26	.....	.....	.....	.....	200.1	201.0	201.5	200.9	200.4	199.2	.....	199.8
27	.....	199.5	.....	.....	200.2	201.0	201.5	201.0	200.3	199.3	.....	199.8
28	199.7	199.5	.....	.....	200.2	201.1	201.5	201.0	200.3	199.2	.....	199.8
29	199.6	199.4	.....	.....	200.2	201.1	201.4	200.9	200.2	199.2	.....	199.8
30	199.5		.....	.....	200.3	201.2	201.3	200.9	200.2	199.1	.....	199.8
31	199.5		.....		200.3		201.5	200.8		199.0		199.7

8S 23E-27bd1. U. S. Bureau of Reclamation well C. Drilled irrigation water-table well in Snake River basalt, diameter 20 inches, depth 260 feet, cased to 21. Land-surface datum is 4,284.5 feet above U. S. Bureau of Reclamation datum. Highest water level 177.2 below lsd, Nov. 7, 1952; lowest 185.6 below lsd, June 29, 1951. Records available: 1948-52. Apr. 17, 178.8; May 1, 178.7; June 16, 179.4; Oct. 23, 177.6; Nov. 7, 177.2.

8S 24E-7da1. U. S. Bureau of Reclamation well B. Drilled irrigation water-table well in Snake River basalt, diameter 20 inches, depth 240 feet, cased to 31. Land-surface datum is 4,288.1 feet above U. S. Bureau of Reclamation datum. Highest water level 166.1 below lsd, Apr. 3, 1951; lowest 169.2 below lsd, June 16, 1952. Records available: 1948-52. Apr. 17, 167.7; May 1, 167.8; June 16, 169.2; Oct. 23, 166.7; Nov. 7, 166.4.

8S 24E-11ba1. U. S. Bureau of Reclamation well A. Drilled irrigation water-table well in Snake River basalt, diameter 20 inches, depth 225 feet, cased to 50. Land-surface datum is 4,300.6 feet above U. S. Bureau of Reclamation datum. Highest water level 162.7 below lsd, Sept. 25, 1948; lowest 164.8 below lsd, Apr. 22, 1949. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 14	164.3	Aug. 31	163.7	Oct. 30	163.2	Nov. 29	163.5
Apr. 3	164.4	Oct. 23	163.1	Nov. 8	163.3	Dec. 29	163.5
June 29	164.4						

8S 24E-31dc1. U. S. Bureau of Reclamation. Drilled observation water-table well in Snake River basalt, diameter 8 to 6 inches, reported depth 194 feet, cased to 188, perforations 158-188. Land-surface datum is 4,276.5 feet above U. S. Bureau of Reclamation datum. Recording gage installed Sept. 21, 1950. Highest water level 140.8 below lsd, Oct. 9, 1952; lowest 144.7 below lsd, Apr. 25-27, 1951. Records available: 1950-52.

Daily noon water level from recorder graph, 1950

Day	Sept.	Oct.	Nov.	Dec.	Day	Sept.	Oct.	Nov.	Dec.
1	.....	141.8	142.3	142.7	17	.....	141.9	142.6	143.4
2	.....	141.9	142.5	142.9	18	.....	142.2	142.3	143.3
3	.....	142.0	142.5	142.8	19	.....	142.2	142.6	143.2
4	.....	141.8	142.3	143.2	20	.....	142.0	142.7	143.5
5	.....	141.6	142.3	143.2	21	.....	142.0	142.9	143.4
6	142.2	141.9	142.4	143.0	22	142.0	142.1	142.8	143.4
7	.....	142.1	142.4	142.9	23	142.0	142.1	142.9	143.5
8	.....	141.8	142.5	143.1	24	141.9	142.0	142.9	143.5
9	.....	141.9	142.9	143.3	25	141.8	141.9	142.9	143.4
10	.....	141.9	142.7	143.2	26	141.8	141.9	142.9	143.4
11	.....	142.2	142.5	143.1	27	142.1	142.0	142.9	143.4
12	.....	142.1	142.4	143.1	28	141.9	142.0	143.0	143.4
13	.....	142.1	142.3	143.1	29	141.7	142.0	142.8	143.5
14	.....	141.9	142.2	143.0	30	141.9	142.0	142.6	143.2
15	.....	142.0	142.7	143.2	31		142.2		.....
16	.....	141.9	142.4	143.4					

Daily noon water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	144.1	143.9	144.5	.....	144.1	143.5	142.8	142.0	141.5	142.1	142.2
2	143.2	143.9	143.9	144.6	.....	144.1	143.5	142.8	142.0	.....	142.1	142.3
3	.....	144.0	144.1	144.5	.....	144.0	143.5	142.7	142.0	.....	141.9	142.4
4	.....	143.8	144.0	144.4	.....	143.8	143.6	142.6	142.0	.....	141.8	142.3
5	.....	143.7	144.0	144.5	.....	143.8	143.4	142.6	141.9	.....	142.1	142.1
6	.....	143.9	144.0	144.6	.....	143.7	143.6	142.6	142.0	.....	142.1	142.5
7	.....	143.7	144.3	144.6	144.5	143.8	143.6	142.5	142.0	.....	142.0	142.8
8	.....	143.8	144.2	144.6	144.5	143.8	143.6	142.5	142.0	141.8	142.0	142.8
9	143.5	143.7	144.1	144.5	144.6	143.8	143.4	142.5	142.0	141.8	142.0	143.0
10	143.4	143.5	144.5	.....	144.3	143.8	.....	142.4	141.7	141.6	141.9	142.9
11	143.3	143.4	144.7	.....	144.3	143.6	.....	142.4	141.8	141.6	141.9	142.9
12	143.3	143.4	144.6	.....	144.2	143.6	.....	143.5	141.8	141.6	141.7	142.7
13	143.4	143.8	144.4	.....	144.3	143.7	.....	142.5	141.8	141.7	142.0	142.5
14	143.5	143.7	144.3	.....	144.3	143.8	.....	142.6	141.8	141.7	141.9	142.8
15	143.5	143.4	144.1	.....	144.4	143.7	.....	142.5	141.9	141.6	141.2	142.8
16	143.5	143.4	144.1	144.6	144.4	143.6	143.4	142.4	141.8	141.6	142.5	142.6
17	143.3	143.4	.....	144.5	144.3	143.6	143.4	142.4	141.7	141.6	142.4	142.8
18	143.4	143.3	.....	144.6	144.3	143.6	143.4	142.4	141.7	141.8	142.3	142.3
19	143.5	143.6	144.5	144.6	144.3	143.5	143.3	142.3	141.6	141.5	142.1	142.4
20	143.7	143.8	144.4	144.6	144.2	143.5	143.3	142.4	141.6	141.5	142.0	142.7
21	143.7	143.7	144.3	144.5	144.2	143.5	143.3	142.3	141.8	.....	142.1	142.9
22	.....	143.7	144.3	144.6	144.2	143.5	143.3	142.2	141.6	141.7	142.2	142.8
23	.....	143.8	144.4	144.6	144.1	143.6	143.2	142.1	141.6	141.5	142.3	142.9
24	143.9	143.9	144.4	144.6	144.2	143.5	143.2	142.1	141.6	141.5	142.2	142.9
25	143.8	143.8	144.4	144.7	144.2	143.5	143.1	142.2	141.5	141.6	142.4	.....
26	143.6	143.8	144.3	144.7	144.2	143.5	143.1	142.0	141.7	141.8	142.4	.....
27	143.6	143.9	144.4	144.7	144.0	143.6	143.1	141.8	141.6	141.8	142.4	142.9
28	143.8	144.1	144.6	144.4	144.1	143.6	143.0	141.8	141.5	141.8	142.3	142.8
29	144.0		144.4	144.2	144.1	143.7	143.0	141.9	141.6	141.6	142.4	142.6
30	143.9		144.4	144.3	144.0	143.6	143.0	142.0	141.6	141.8	142.3	142.5
31	144.0		144.5		144.0		142.9	142.0		141.9		142.8

8S 24E-31dc1--Continued.

Daily noon water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	143.1	143.3	143.4	144.2	144.2	143.6	143.0	142.3	141.6	141.1	141.1	141.6
2	143.3	143.3	143.5	144.0	144.1	143.6	143.2	142.2	141.5	141.0	141.2	141.5
3	143.1	143.7	143.7	144.1	144.0	143.6	143.1	142.2	141.4	141.0	141.2	141.8
4	.....	143.6	143.7	144.2	144.2	143.8	143.0	142.1	141.4	141.0	141.2	141.8
5	.....	143.7	143.8	144.1	144.2	143.6	143.0	142.2	141.4	141.1	141.2	141.6
6	.....	143.6	143.8	144.0	144.1	143.4	143.0	142.2	141.3	141.1	141.2	141.6
7	.....	143.5	143.8	143.8	144.0	143.6	143.1	142.1	141.3	141.1	141.3	141.3
8	.....	143.5	143.8	144.1	144.1	143.5	143.0	142.0	141.1	140.9	141.3	141.8
9	.....	143.5	143.6	144.1	144.2	143.3	142.9	142.0	141.0	140.8	141.5	142.1
10	143.0	143.5	143.4	143.9	144.2	143.5	142.8	142.0	140.9	141.0	141.4	141.9
11	143.0	143.4	143.5	143.8	144.1	143.1	142.8	142.0	141.0	141.1	141.4	142.0
12	143.0	143.4	143.8	144.0	144.1	143.4	142.9	142.0	141.1	141.0	141.2	142.2
13	142.9	143.6	143.8	144.0	144.1	143.3	143.0	142.0	141.2	141.0	141.3	142.2
14	142.8	143.6	143.9	144.0	144.0	143.2	142.9	142.0	141.2	141.2	141.0	142.0
15	142.9	143.6	143.9	144.2	144.1	143.4	142.7	141.9	141.1	141.0	141.1	141.9
16	143.0	143.2	143.6	144.2	144.1	143.4	142.7	141.9	141.1	140.9	141.3	141.9
17	.....	143.3	143.8	144.2	144.2	143.2	142.7	141.9	141.1	141.1	141.5	141.8
18	.....	143.4	143.7	144.1	144.1	143.1	142.7	141.8	141.0	141.1	141.7	141.8
19	.....	143.5	143.9	144.0	144.1	143.2	142.6	141.8	141.0	141.1	141.7	141.9
20	.....	143.5	144.0	144.1	143.9	143.1	142.6	141.8	141.0	141.1	141.5	141.9
21	143.1	143.5	144.2	144.2	143.9	143.1	142.6	141.8	141.0	141.1	141.5	142.1
22	143.2	143.6	144.2	144.1	144.0	143.1	142.6	141.8	141.1	141.0	141.6	142.1
23	143.3	143.6	144.0	144.2	144.0	143.0	142.6	141.7	141.1	141.0	141.6	142.2
24	143.1	143.9	143.9	144.2	143.9	143.0	142.6	141.6	.....	141.1	141.5	142.1
25	143.1	143.9	143.9	144.1	143.9	143.0	142.6	141.7	141.0	141.1	141.5	142.2
26	143.4	143.8	144.1	144.1	143.9	143.0	142.6	141.6	141.0	141.1	141.6	142.2
27	143.7	143.6	144.1	144.1	143.9	143.0	142.6	141.7	141.0	141.2	141.7	142.1
28	143.5	143.5	143.9	144.0	143.7	143.0	142.5	141.6	141.1	141.2	141.7	142.1
29	.....	143.6	143.8	144.2	143.7	143.0	142.4	141.5	141.1	141.1	141.7	142.1
30	.....		143.9	144.3	143.7	143.1	142.3	141.6	141.1	141.1	141.6	142.0
31	.....		144.1		143.5		142.4	141.5		141.0		142.1

8S 25E-16da1. V. Anderson. Drilled irrigation water-table well in Snake River basalt, diameter 20 inches, reported depth 230 feet. Land-surface datum is 4,293.4 feet above U. S. Bureau of Reclamation datum. Highest water level 149.6 below lsd, Oct. 30, 1951; lowest 150.9 below lsd, Feb. 14, Apr. 4, 1951. Records available: 1949-52. Jan. 9, 150.1; Mar. 3, 150.2; Apr. 17, 150.3; Apr. 30, 150.3; June 18, 149.9; Oct. 22, 149.9.

8S 25E-24bd1. U. S. Bureau of Reclamation. Drilled observation water-table well in Snake River basalt, diameter 8 to 6 inches, reported depth 180 feet, 8-inch casing to 15, 6-inch casing 120-180, perforations 160-180. Land-surface datum is 4,282.7 feet above U. S. Bureau of Reclamation datum. Recording gage installed Sept. 13, 1950. Highest water level 134.0 below lsd, Nov. 15, 1952; lowest 136.2 below lsd, Mar. 12, 1951. Records available: 1950-52.

Daily noon water level from recorder graph, 1950

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 15	135.4	Oct. 9	135.2	Nov. 4	135.6	Nov. 29	135.6
Sept. 13	135.3	10	135.4	5	135.4	30	135.5
14	135.5	11	135.5	6	135.2	Dec. 1	135.3
15	135.5	13	135 4	7	135.4	2	135.4
16	135.5	14	135.5	8	135.2	3	135.5
17	135.4	15	135.3	9	135.2	4	135.4
18	135.5	16	135.5	10	135.6	5	135.5
19	135.4	17	135.3	11	135.6	6	135.6
20	135.4	18	135.3	12	135.2	7	135.4
21	135.4	19	135.6	13	135.4	8	135.5
22	135.5	20	135.4	14	135.3	12	135.7
23	135.4	21	135.3	15	135.2	13	135.6
24	135.4	22	135.2	16	135.5	14	135.5
27	135.3	23	135.2	17	135.4	19	135.7
28	135.7	24	135.4	18	135.4	20	135.7
29	135.6	25	135.6	19	135.2	21	135.8
30	135.3	26	135.3	20	135.5	22	135.8
Oct. 1	135.6	27	135.2	21	135.5	23	135.8
2	135.4	28	135.3	22	135.6	24	135.9
3	135.5	29	135.3	23	135.5	25	135.8
4	135.3	30	135.1	24	135.5	26	135.8
5	135.5	31	135.2	25	135.6	27	135.8
6	135.2	Nov. 1	135.5	26	135.6	28	135.8
7	135.3	2	135.5	27	135.5	29	135.8
8	135.5	3	135.6	28	135.5	30	135.7

8S 25E-24bd1--Continued.

Daily noon water level from recorder graph, 1951

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	135.6	.....	135.9	136.0	135.6	135.7	135.5	135.2	135.0	134.8	134.9	134.9
2	135.6	.....	135.7	136.0	135.8	135.8	135.5	135.2	135.0	134.8	135.0	134.8
3	135.5	.....	135.8	136.0	135.9	135.8	135.5	135.2	135.0	134.7	134.9	134.9
4	135.6	.....	135.8	136.0	135.9	135.7	135.4	135.2	135.0	134.8	135.0	134.9
5	135.6	.....	135.7	135.8	135.9	135.6	135.4	135.2	134.9	134.9	135.0	134.8
6	135.8	135.8	135.7	135.9	135.9	135.6	135.4	135.2	134.9	134.9	134.9	134.8
7	135.8	135.9	135.8	136.0	135.9	135.6	135.5	135.2	134.9	134.9	134.9	135.0
8	135.8	135.9	135.9	135.9	135.9	135.6	135.5	135.2	134.9	134.9	134.9	135.1
9	135.7	135.9	135.8	136.0	135.9	135.7	135.6	135.2	134.9	134.9	134.8	.....
10	135.8	135.9	135.9	136.0	.....	135.7	135.5	135.1	134.9	134.9	134.8	135.3
11	135.7	135.8	136.0	136.1	.....	135.6	135.5	135.1	134.8	134.9	134.7	135.2
12	.....	135.8	136.2	136.1	.....	135.6	135.5	135.1	134.9	134.8	134.6	135.2
13	.....	135.9	136.1	136.1	.....	135.6	135.5	135.1	134.9	134.9	134.7	135.0
14	.....	136.0	.....	136.0	135.8	135.7	135.5	135.2	134.9	134.9	134.7	135.1
15	.....	135.9	.....	136.0	135.9	135.7	135.5	135.2	135.0	134.9	134.8	135.1
16	135.7	135.8	.....	136.1	135.9	135.6	135.5	135.1	134.9	.....	135.0	135.1
17	135.7	135.8	.....	136.0	135.9	135.6	135.5	134.1	134.9	134.8	135.1	135.0
18	135.6	135.7	.....	135.9	135.9	135.6	135.5	135.1	134.9	134.9	135.0	135.0
19	135.6	135.8	136.0	135.9	135.9	135.6	135.5	135.1	134.9	134.8	134.9	134.9
20	135.7	135.9	136.0	135.9	135.9	135.6	135.4	135.1	134.8	134.7	134.9	134.9
21	135.9	135.8	136.0	136.0	135.8	135.5	135.4	135.1	134.9	134.7	134.9	135.0
22	135.8	135.7	135.8	.....	135.8	135.5	135.4	135.1	134.9	134.7	134.9	135.0
23	135.8	135.7	136.0	136.0	135.8	135.5	135.4	135.1	134.8	.....	134.9	135.0
24	135.9	135.7	136.0	135.9	135.8	135.5	135.4	135.1	134.8	.....	.....	135.0
25	135.9	135.8	136.1	136.0	135.8	135.5	135.4	135.1	134.8	.....	135.0	.....
26	135.8	135.8	136.0	135.9	135.8	135.5	135.3	135.1	134.8	.....	135.0	.....
27	135.7	135.7	135.9	136.0	135.8	135.5	135.4	134.9	134.8	.....	135.0	.....
28	135.7	135.8	136.0	135.9	135.8	135.5	135.3	134.9	134.8	.....	134.9	135.0
29	135.8		136.0	135.8	135.8	135.5	135.4	134.9	134.8	134.8	134.9	134.9
30	135.8		136.0	135.7	135.7	135.5	135.4	135.0	134.8	134.8	134.9	134.9
31	.....		136.0		135.7		135.3	135.0		134.8		134.9

Daily noon water level from recorder graph, 1952

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	135.1	135.3	135.2	.....	135.4	135.1	135.1	134.9	134.5	134.4	134.2	134.3
2	135.2	135.2	135.2	.....	135.4	135.1	135.1	134.9	134.5	134.3	134.3	134.2
3	135.2	135.3	135.3	.....	135.4	135.1	135.1	134.9	134.5	134.3	134.4	134.3
4	135.2	135.3	135.3	135.5	135.4	135.1	135.1	134.8	134.5	134.3	134.3	134.4
5	135.2	135.4	135.3	135.5	135.4	135.1	135.1	134.8	134.5	134.3	134.3	134.3
6	135.1	135.4	135.3	135.4	135.3	135.1	135.1	134.8	134.5	135.3	134.3	134.2
7	135.0	135.3	.....	135.3	135.3	135.1	135.1	134.8	134.5	134.3	134.2	134.1
8	135.1	135.3	.....	135.4	135.3	135.1	135.1	134.8	134.4	134.3	134.2	134.2
9	135.3	135.3	.....	135.4	135.4	135.0	135.1	134.7	134.4	134.2	134.3	134.4
10	135.2	135.3	.....	135.4	135.4	135.0	135.0	134.7	134.3	134.2	134.3	134.4
11	135.2	135.3	135.1	135.3	135.4	134.9	135.0	134.7	134.3	134.3	134.3	134.4
12	135.2	135.2	135.2	135.3	135.4	135.0	135.0	134.7	134.3	134.3	134.3	134.5
13	135.2	135.3	135.2	135.4	135.3	135.0	135.1	134.7	134.4	134.2	134.2	134.5
14	135.2	135.4	135.3	135.3	135.3	135.0	135.1	134.7	134.5	134.3	134.1	134.5
15	135.1	135.4	135.3	135.4	135.3	135.0	135.0	134.7	134.5	134.3	134.0	134.4
16	135.1	135.2	135.2	135.5	135.3	135.1	134.9	134.7	134.4	134.2	134.1	134.3
17	.....	135.1	135.2	135.5	135.4	135.1	135.0	134.7	134.4	134.3	134.2	134.3
18	.....	135.2	135.2	135.4	135.4	135.0	135.0	134.7	134.4	134.3	134.3	134.3
19	.....	135.2	135.2	135.4	135.4	135.0	134.9	134.6	134.4	134.3	134.3	134.3
20	.....	135.2	135.3	135.4	135.3	135.0	135.0	134.6	134.4	134.2	134.3	134.3
21	.....	135.2	135.4	135.4	135.2	135.0	134.9	134.6	134.4	134.2	134.2	134.4
22	.....	135.3	135.5	135.4	135.3	135.0	134.9	134.6	134.4	134.2	134.3	134.4
23	.....	135.3	135.5	135.4	135.3	135.0	134.9	134.6	134.4	134.2	134.3	134.5
24	.....	135.4	135.4	135.4	135.3	135.0	134.9	134.6	134.4	134.2	134.3	134.5
25	135.1	135.5	135.4	135.4	135.3	135.0	135.0	134.6	134.4	134.2	134.3	134.5
26	135.1	135.4	135.4	135.4	135.2	135.0	135.0	134.6	134.4	134.2	134.4	134.5
27	135.3	135.4	.....	135.4	135.3	135.0	135.0	134.6	134.3	134.3	134.3	134.5
28	135.4	135.3	.....	135.3	135.2	135.0	135.0	134.6	134.3	134.3	134.3	134.5
29	135.3	135.3	.....	135.4	135.2	135.0	134.9	134.5	134.4	134.2	134.3	134.4
30	135.3		.....	135.4	135.2	135.1	134.9	134.5	134.4	134.2	134.3	134.4
31	135.2		.....		135.1		134.9	134.5		134.2		134.4

9S 22E-16ca1. Howard W. Moffat. Drilled irrigation water-table well in Snake River basalt, diameter 21 inches, reported depth 333 feet, cased to 70. Land-surface datum is 4,255.3 feet above U. S. Bureau of Reclamation datum. Highest water level 239.9 below lsd, Dec. 21, 1949, Apr. 17, 30, 1952; lowest 241.9 below lsd, Aug. 10, 1949. Records available: 1948-52. Apr. 17, 239.9; Apr. 30, 239.9; June 10, 240.2.

9S 22E-33ab1. U. S. Bureau of Reclamation. Drilled observation water-table well in Snake River basalt, diameter 12 inches, depth 257 feet, stove-pipe casing to basalt bedrock at shallow depth. Land-surface datum is 4,234.7 feet above U. S. Bureau of Reclamation datum. Highest water level 222.9 below lsd, Dec. 7, 1952; lowest 225.7 below lsd, Sept. 7, 1950. Records available: 1947, 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	223.8	223.6	.....	.....	224.4	224.9	225.2	225.2	224.6	.....	223.4
2	.....	223.6	223.8	223.8	224.0	224.5	225.1	225.2	225.1	224.6	.....	223.2
3	223.6	223.8	223.6	223.7	223.9	224.5	225.0	225.1	224.9	224.6	.....	223.5
4	223.6	223.7	223.6	223.7	224.2	224.6	224.9	225.1	225.0	224.6	.....	223.6
5	223.6	223.8	.....	223.9	224.1	224.5	224.9	225.2	225.0	224.6	.....	223.3
6	223.6	223.8	.....	223.8	224.2	224.4	225.0	225.2	224.9	224.6	.....	223.3
7	223.4	223.8	.....	223.6	224.0	224.6	225.1	225.1	224.9	224.5	.....	223.0
8	223.6	223.8	.....	223.7	224.2	224.6	225.1	225.1	224.9	224.4	.....	223.4
9	223.7	223.8	.....	223.9	224.4	224.4	225.0	225.1	224.8	224.3	.....	223.6
10	223.5	223.8	.....	223.7	224.3	224.6	224.9	225.1	224.8	224.4	.....	223.4
11	223.4	223.7	.....	223.9	224.2	224.4	225.0	225.1	224.8	224.4	.....	223.4
12	223.5	223.8	.....	224.0	224.3	224.7	225.0	225.1	224.8	224.4	.....	223.6
13	223.5	223.8	.....	224.0	224.4	224.6	225.1	225.1	224.9	224.3	.....	223.6
14	223.5	223.7	.....	223.9	224.2	224.6	225.1	225.1	225.0	224.4	.....	223.5
15	223.4	223.8	.....	223.8	224.3	224.8	225.0	225.1	224.8	224.3	.....	223.4
16	223.5	223.5	.....	223.9	224.4	224.8	225.0	225.1	224.9	224.2	.....	223.4
17	223.6	223.7	.....	224.0	224.5	224.7	225.1	225.1	224.9	224.3	.....	223.3
18	223.4	223.8	.....	223.9	224.4	224.6	225.0	225.1	224.9	224.2	223.9	223.3
19	223.5	223.6	.....	223.9	224.4	224.7	225.0	225.0	224.8	224.2	223.8	223.3
20	223.4	223.6	.....	224.0	224.2	224.7	225.1	225.1	224.8	224.2	223.7	223.4
21	223.5	223.6	.....	223.9	224.4	224.7	225.1	225.1	224.8	.....	223.7	223.5
22	223.4	223.6	.....	223.9	224.5	224.7	225.1	225.0	224.8	.....	223.8	223.3
23	223.5	223.7	.....	223.9	224.5	224.6	225.2	225.0	224.7	.....	223.7	223.4
24	223.4	223.9	.....	223.7	224.4	224.6	225.2	225.0	224.8	.....	223.5	223.3
25	223.4	223.8	.....	224.0	224.4	224.7	225.2	225.1	224.8	.....	223.7	223.4
26	223.6	223.8	.....	224.1	224.4	224.7	225.3	225.0	224.7	.....	223.7	223.3
27	223.8	223.8	.....	224.0	224.4	224.7	225.3	225.1	224.6	.....	223.6	223.2
28	223.8	223.7	.....	224.0	224.3	224.7	225.2	225.1	224.7	.....	223.6	223.3
29	223.7	223.7	.....	.....	224.4	224.8	225.1	225.0	224.7	.....	223.6	223.2
30	223.7		.....	.....	224.4	224.9	225.1	225.1	224.7	.....	223.5	223.0
31	223.7		.....		224.3		225.2	225.0		.....		223.2

9S 24E-1db2. Louis Madrid. Drilled domestic water-table well in Snake River basalt and interbedded sediments, diameter 6 inches, depth 87 feet. Land-surface datum is 4,163.7 feet above msl datum of 1929, Pacific Northwest Adjustment of 1947. Water level influenced by local irrigation. Highest water level 54.26 below lsd, Sept. 15, 1948; lowest 71.33 below lsd, Feb. 14, 1950. Records available: 1947-52. Jan. 9, 68.38; Mar. 3, 69.57; Apr. 18, 70.36; Apr. 30, 61.92; June 18, 61.62; Aug. 22, 56.36; Oct. 22, 56.02.

Oneida County

11S 35E-30cb1. Russell Daniels. Drilled unused low-pressure artesian well in alluvial sand of Pleistocene age, diameter 8 inches, depth 204 feet. Highest water level 25.10 below lsd, May 5, 1952; lowest 28.09 below lsd, Sept. 27, 1949. Records available: 1947-52. May 5, 25.10; Nov. 1, 26.97.

11S 35E-31ac1. Russell Daniels. Drilled unused water-table well in river gravels of Quaternary age, diameter 6 inches, depth 92 feet. Highest water level 30.34 below lsd, May 5, 1952; lowest 46.07 below lsd, Nov. 1, 1952. Records available: 1947-52. May 5, 30.34; Nov. 1, 46.07.

13S 35E-33cc1. Mrs. K. T. Jones. Drilled unused water-table well in rocks of Paleozoic age, diameter 6 inches, depth 328 feet. Highest water level 293.7 below lsd, May 5, 1952; lowest 302.3 below lsd, Sept. 13, 1951. Records available: 1946-52. May 5, 293.7; Nov. 1, 295.8.

13S 35E-36cc1. Dave Deschamps. Drilled unused water-table well in sediments of Pleistocene age, diameter 4 inches, depth 131 feet. Highest water level 81.6 below lsd, Apr. 9, 1947; lowest 83.31 below lsd, Nov. 1, 1952. Records available: 1946-52. Feb. 26, 82.21; May 5, 81.94; Nov. 1, 83.31.

14S 34E-31da1. Roy Davis. Drilled unused water-table well in rocks of Paleozoic age, diameter 4 inches, depth 399 feet. Highest water level 376.9 below lsd, May 6, 1952; lowest 389.4 below lsd, Sept. 14, 1951. Records available: 1947-52. Feb. 29, 386.4; May 6, 376.9; Nov. 1, 381.7.

14S 35E-10ab1. John W. Leavitt. Drilled irrigation water-table well in delta beds of Bonneville formation, diameter 4 inches. Land-surface datum is 4,769.4 feet above msl (preliminary). Highest water level 115.4 below lsd, May 4, 1948; lowest 124.6 below lsd, Oct. 13, 1947. Records available: 1931, 1943-52. May 5, 116.9; Nov. 1, 118.2.

14S 35E-13db1. Progressive Pump Co. Drilled irrigation water-table well in delta beds of Bonneville formation, diameter 14 inches, depth 289 feet, cased to 289, perforations opposite all gravels 114-289. Highest water level 66.42 below lsd, May 5, 1952; lowest 76.34 below lsd, Oct. 21, 1944. Records available: 1943-52. Feb. 28, 67.93; May 5, 66.42; Nov. 1, 73.80.

14S 35E-27aa1. Davis & Ipsen. Drilled irrigation water-table well in Bonneville formation, diameter 14 inches, depth 210 feet, cased to 210, perforations opposite all gravels 55-210. Highest water level 52.65 below lsd, Apr. 9, 1947; lowest 60.05 below lsd, Oct. 25, 1948. Records available: 1943-52. Feb. 28, 57.55; May 5, 54.05.

14S 35E-35bd1. John W. Price. Drilled stock and domestic artesian well in Bonneville formation, diameter 3 inches, reported depth 360 feet. Flowing prior to measurement. Highest water level 29.0 above lsd, Feb. 25, 1946; lowest 10.50 above lsd, Sept. 7, 1950. Records available: 1943-52. Feb. 29, +23.2; May 5, +26.4; Nov. 1, +13.1.

14S 35E-36bc1. Smith & Illum. Drilled irrigation artesian well in Bonneville formation, diameter 14 inches, depth 301 feet, cased to 301, perforations opposite all gravel beds 72-301. Highest water level 15.69 below lsd, Apr. 1, 1947; lowest 22.49 below lsd, Sept. 27, 1949. Records available: 1943-52. Mar. 19, 16.79; May 5, 15.77; Nov. 1, 21.16.

14S 36E-3ca1. Walter K. Dastrup. Drilled irrigation water-table well in Bonneville formation, diameter 14 inches, depth 402 feet, cased to 402, perforations 69-122. Land-surface datum is 4,850.2 feet above msl (preliminary). Highest water level 59.15 below lsd, Oct. 16, 1932; lowest 74.22 below lsd, Sept. 14, 1951. Records available: 1931-32, 1943-52. Feb. 27, 70.66; May 5, 66.39; Nov. 1, 74.21.

14S 36E-29ba1. R. R. Jones. Drilled unused artesian well in Bonneville formation, diameter 4 inches, depth 302 feet. Land-surface datum is 4,510.8 feet above msl (preliminary). Highest water level 22.42 below lsd, May 5, 1952; lowest 33.40 below lsd, Sept. 7, 1950. Records available: 1931, 1943-52. Feb. 28, 25.67; May 5, 22.42; Nov. 1, 29.93.

14S 36E-32aa1. R. J. Harding. Drilled stock artesian well in Bonneville formation, diameter 4 inches, depth 194 feet. Land-surface datum is 4,476.9 feet above msl(preliminary). Flowing prior to measurement. Highest water level 7.6 above lsd May 2, 1944, Feb. 25, 1946; lowest 0.8 below lsd, Oct. 24, 1948. Records available: 1943-52. May 6, -7.3; Nov. 1, +2.9.

14S 36E-32da1. William Howard. Drilled stock artesian well in Bonneville formation, diameter 4 inches, depth 74 feet. Land-surface datum is 4,463.7 feet above msl (preliminary). Flowing prior to measurement. Highest water level 4.7 above lsd, May 6, 1952; lowest 1.3 below lsd, Sept. 27, 1949. Records available: 1931-32, 1943-52. May 6,+4.7; Nov. 1, +0.5.

15S 34E-6ab1. Joe Thorpe. Dug stock and domestic water-table well in bottomland alluvium above Bonneville formation, depth 85 feet. Highest water level 4.73 below lsd, May 6, 1952; lowest 49.18 below lsd, Nov. 7, 1949. Records available: 1947-52. May 6, 4.73; Nov. 1, 49.16.

15S 35E-1da1. Joseph Josephson. Drilled irrigation artesian well in Bonneville formation, diameter 3 inches, depth 275 feet, cased to 249. Land-surface datum is 4,453.0 feet above msl (preliminary). Flowing prior to measurement. Highest water level 33.1 above lsd, May 3, 1944; lowest 16.9 above lsd, Sept. 7, 1950. Records available: 1943-45, 1947-52. Mar. 19, +31.6; May 6, +32.3; Nov. 1, +21.0.

15S 35E-1db1. L. R. Waldron. Drilled stock artesian well in Bonneville formation, diameter 3 inches, depth 311 feet. Land-surface datum is 4,457.6 feet above msl (preliminary). Flowing prior to measurement. Highest water level 25.9 above lsd, May 3, 1944; lowest 8.6 above lsd, Sept. 7, 1950. Records available: 1943-52. Mar. 19, +21.0; May 6, +24.1; June 16, +16.1; Nov. 1, +20.2.

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15S 35E-12ab2. James H. Williams. Drilled irrigation artesian well in Bonneville formation, diameter 4 inches. Land-surface datum is 4,428.3 feet above msl (preliminary). Flowing prior to measurement. Highest water level 25.8 above lsd, May 6, 1952; lowest 13.0 above lsd, May 5, 1948. Records available: 1931-32, 1943-52. Mar. 6, +25.8; Nov. 1, +19.9.

15S 35E-12bb1. James H. Williams. Drilled irrigation artesian well in Bonneville formation, diameter $2\frac{1}{2}$ inches, depth 187 feet. Land-surface datum is 4,442.0 feet above msl (preliminary). Flowing prior to measurement. Highest water level 14.5 above lsd, Apr. 1, 1947; lowest 0.1 above lsd, Sept. 7, 1950. Records available: 1943-52. Mar. 19, +9.4; May 6, +10.4; Oct. 31, +5.3.

15S 35E-14ad1. Ben Jones. Drilled domestic artesian well in Bonneville formation, diameter 3 inches. Land-surface datum is 4,430.3 feet above msl (preliminary). Flowing prior to measurement. Highest water level 7.1 above lsd, May 6, 1952; lowest 1.9 above lsd, May 3, 1944. Records available: 1943-52. Mar. 20, +6.1; May 6, +7.1.

15S 36E-5aa4. Dives Bros. Drilled irrigation artesian well in Bonneville formation, diameter 4 inches, depth 158 feet. Land-surface datum is 4,437.6 feet above msl (preliminary). Flowing prior to measurement. Highest water level 17.0 above lsd, Feb. 28, 1951; lowest 7.9 above lsd, Sept. 27, 1949. Records available: 1931-32, 1943-45, 1947-52. May 6, +15.2; June 13, +13.5; Nov. 1, +12.9.

15S 36E-6ac2. Will John. Drilled unused artesian well in Bonneville formation, diameter 2 inches, reported depth 300 feet. Land-surface datum is 4,441.1 feet above msl (preliminary). Flowing prior to measurement. Highest water level 17.0 above lsd, Feb. 28, 1951; lowest 7.0 above lsd, Sept. 27, 1949. Records available: 1943-52. Nov. 1, +11.9.

15S 36E-6ba1. A. E. Scott. Drilled stock and domestic artesian well in Bonneville formation, diameter 3 inches, reported depth 310 feet. Land-surface datum is 4,465.4 feet above msl (preliminary). Flowing prior to measurement. Highest water level 23.1 above lsd, May 4, 1944; lowest 8.0 above lsd, Sept. 7, 1950. Records available: 1943-52. May 6, +20.0; Nov. 1, +17.9.

15S 36E-8aa1. Edward Vaughn. Drilled unused artesian well in Bonneville formation, diameter 4 inches, depth 138 feet. Flowing prior to measurement. Highest water level 24.0 above lsd, Mar. 20, 1952; lowest 11.8 above lsd, June 29, 1943. Records available: 1943-52. Mar. 20, +24.0; May 6, +17.2; Nov. 1, +15.6.

15S 36E-22ab1. Moroni V. Rees. Drilled irrigation artesian well in Bonneville formation, diameter 8 inches, depth 101 feet. Land-surface datum is 4,410 feet above msl. Flowing prior to measurement. Highest water level 24.8 above lsd, Mar. 20, 1952; lowest 13.0 above lsd, July 15, 1943. Records available: 1943, 1948-52. Mar. 20, +24.8; May 6, +24.2; Nov. 1, +21.1.

15S 36E-29ca2. Tom Dudley. Drilled stock and domestic artesian well in Bonneville formation, diameter 3 inches, depth 270 feet. Land-surface datum is 4,402.6 feet above msl (preliminary). Flowing prior to measurement. Highest water level 14.7 above lsd, May 6, 1952; lowest 3.2 above lsd, Sept. 7, 1950. Records available: 1943-52. Mar. 20, +11.5; May 6, +14.7; Nov. 1, +7.8.

15S 36E-30ab1. John W. Jenkins. Drilled irrigation artesian well in Bonneville formation, diameter 4 inches, reported depth 229 feet. Land-surface datum is 4,395.8 feet above msl (preliminary). Flowing prior to measurement. Highest water level 14.9 above lsd, May 3, 1944; lowest 8.8 above lsd, Sept. 7, 1950. Records available: 1943-52. May 6, +13.4; Nov. 1, +10.1.

15S 36E-30ab2. John W. Jenkins. Drilled irrigation artesian well in Bonneville formation, diameter 4 inches, depth 196 feet. Land-surface datum is 4.395.3 feet above msl (preliminary). Flowing prior to measurement. Highest water level 13.2 above lsd, May 6, 1952; lowest 9.0 above lsd, Sept. 7, 1950. Records available: 1943-52. May 6, +13.2; Nov. 1, +9.7.

Payette County

7N 5W-3da1. Sim Watkins. Dug stock and domestic water-table well in alluvial sand and gravel, diameter 4 feet, depth 56 feet, concrete casing, open bottom. Water level influenced by local irrigation. Highest water level 31.0 below lsd, Sept. 12, Oct. 7, 1949; lowest 43.3 below lsd, Apr. 27, May 3, 1949. Records available: 1941-52.

7N 5W-3da1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	38.7	Apr. 14	42.1	July 7	39.2	Oct. 6	33.1
14	39.1	18	42.3	14	38.5	13	33.2
21	39.4	21	42.2	21	37.8	20	33.2
28	39.8	28	42.5	28	37.0	27	33.6
Feb. 4	40.0	May 5	42.5	Aug. 4	36.6	Nov. 2	34.1
11	40.1	12	42.6	11	35.7	10	34.4
18	40.3	19	42.1	18	35.1	18	35.2
25	40.7	26	41.7	26	34.4	24	35.5
Mar. 3	40.8	June 2	41.2	Sept. 1	33.9	30	36.1
10	40.9	9	40.8	8	33.6	Dec. 8	36.6
17	41.2	16	40.4	15	33.3	15	37.1
24	41.4	23	40.2	22	33.2	22	37.4
31	41.6	30	39.8	29	33.1	28	37.9
Apr. 7	41.9						

MONTANA

By Frank A. Swenson

Scope of Water-Level Program

The observation-well program in Montana was continued in 1952 in connection with ground-water studies being made as part of the program for development of the Missouri River Basin. Measurements of water levels in 21 wells are included in this report. Figure shows the location of the wells. The water level in many other wells in the State are measured at regular intervals in connection with ground-water investigational projects and these measurements will be included in reports on these studies. On the Lower Marias Project in Hill and Chouteau Counties measurements of the water level in 6 wells were made by personnel of the Bureau of Reclamation. In Helena Valley, measurements of water levels were made in 38 wells. In Townsend Valley, measurements were made in 96 wells. On the Buffalo Rapids Project measurements were made in 120 wells, and one recording gage was maintained. In Gallatin Valley, measurements were made in 85 wells, and 6 recording gages were maintained. On the Crow Agency Project, measurements were made and 7 recording gages were maintained. (See fig. 17.)

Interpretation of Water-Level Fluctuations

In the part of Montana west of the Continental Divide, the water levels in 1952 were lower than at any previous time during the period of record. In north central Montana, the water levels were about normal, except in Glacier County. The water level in well B-32-113dd, as a result of the prolonged dry weather in the late summer and fall, dropped to the lowest level during the period of record - 2.67 on October 13. The water level in well A-32-15-17dd in Hill County, which had risen steadily since 1947, reached a peak on May 16, 1952 (42.18) and since then has shown some minor fluctuations. Water levels were about normal during the year in all other parts of Montana. See Water-Supply Paper 1160, page 39, for discussion of ground-water areas.

Well-Numbering System

Wells are numbered in accordance with the Bureau of Land Management system of land subdivision. The first digit of a well number indicates the township, the second the range, and the third the section in which the well is situated. The first lowercase letter denotes the quarter section (160-acre tract) and the second the quarter-quarter section (40-acre tract). The letters are assigned in a counterclockwise direction, beginning in the northeast quarter. Well numbers are preceded by the capital letters A, B, C, and D to designate the location of the well in the northeast, northwest, southwest, and southeast quadrants, respectively of the Montana principal meridian and base line system. Thus the number A-1-10-27ad indicates that the well so designated is in the $SE\frac{1}{4}NE\frac{1}{4}$ sec. 27, T.1 N., R. 10 E.

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Beaverhead County

C-8-9-9bb. James Rebich. Dug and drilled domestic well, diameter 4 feet, depth 31 feet. Highest water level 6.06 below lsd, Aug. 29, 1949; lowest 29.65 below lsd, Mar. 3, 1952. Records available: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	27.75	Mar. 29	25.30	Aug. 1	9.50	Nov. 21	22.04
Feb. 26	28.95	June 5	13.75	Sept. 4	9.65	Dec. 17	23.27
Mar. 3	29.65	July 3	10.20	Oct. 18	18.10		

Carter County

D-9-60-19cc. Alzada Gospel Church. Drilled unused well, diameter 6 inches, depth 26 feet, steel casing. Highest water level 18.43 below lsd, Jan. 17, 1952; lowest 21.33 below lsd, Oct. 14, 1948. Records available: 1947-52.

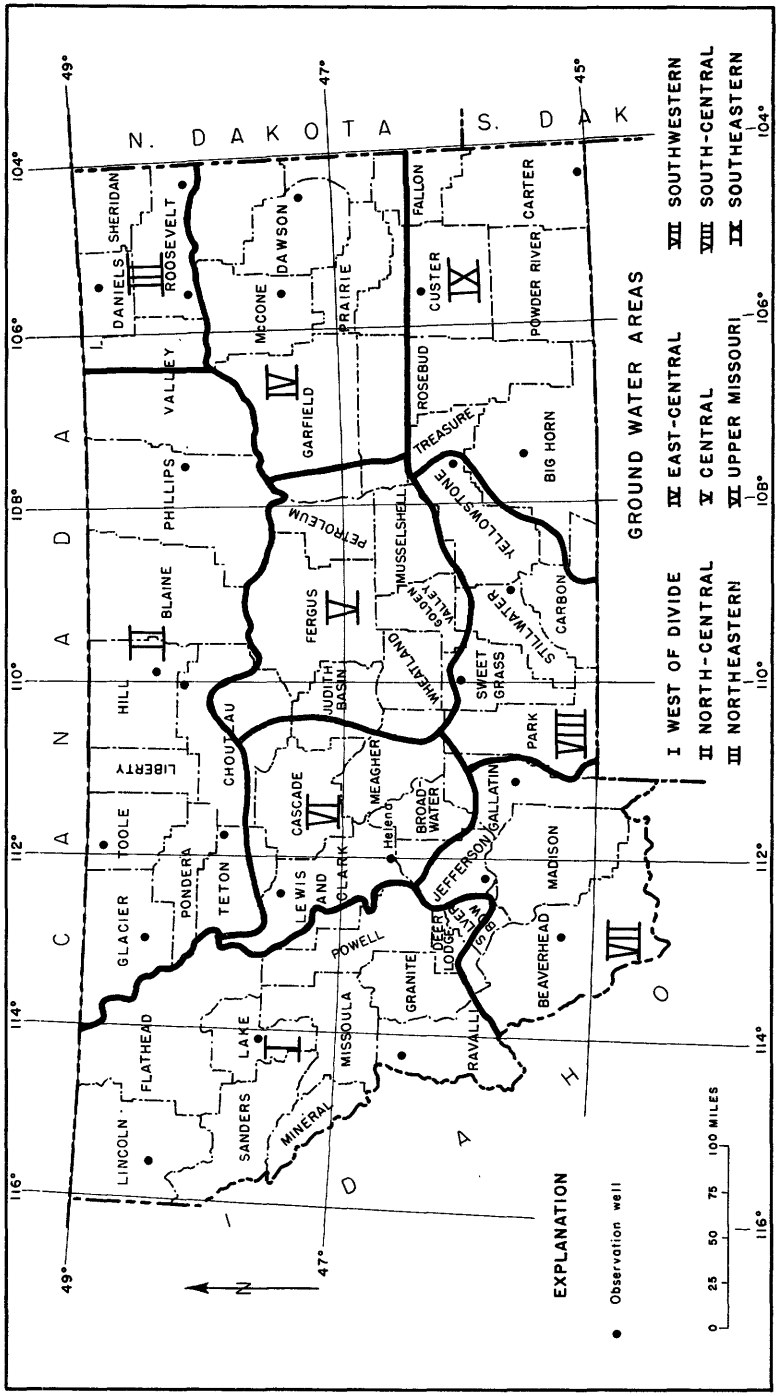


Figure 17.--Location of observation wells in Montana, 1952.

D-9-60-19cc--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	18.43	May 3	18.89	Sept. 12	18.75	Nov. 19	18.87
Feb. 26	19.00	July 2	18.84	Oct. 25	18.90	Dec. 11	18.88
Mar. 19	18.95	Aug. 4	19.13				

Chouteau County

A-29-13-21aa2. U. S. Geol. Survey. Unused well in deposits of Pleistocene age, diameter 2 inches, depth 210 feet, steel casing to 167. Highest water level 15.78 below lsd, May 17, 1949; lowest 16.96 below lsd, Feb. 8, 1950. Records available: 1947-52.

Feb. 11	16.80	May 16	16.45	July 14	16.57	Sept. 12	16.72
Apr. 1	16.81	June 16	16.45	Aug. 29	16.69	Oct. 20	16.75
May 5	16.38						

Custer County

A-7-47-13dd. Owner unknown. Drilled unused well in Fort Union formation, diameter 4 inches, depth 46 feet, steel casing. Highest water level 38.16 below lsd, Oct. 9, 1952; lowest 43.10 below lsd, June 6, 1947. Records available: 1947-52.

Jan. 17	41.14	June 9	41.14	Sept. 8	38.54	Nov. 13	39.06
Feb. 27	41.57	July 7	40.76	Oct. 9	38.16	Dec. 11	40.00
May 23	41.90	Aug. 8	39.55				

Daniels County

A-35-47-12cd. State of Montana. Dug unused well, diameter 4 feet, depth 31 feet, wood and stone cribbing. Highest water level 13.91 below lsd, June 23, 1950; lowest 15.66 below lsd, Feb. 21, 1948. Records available: 1947-52.

Jan. 15	14.20	May 12	13.94	Aug. 6	14.04	Oct. 2	14.39
Apr. 19	14.13	June 19	14.09	Sept. 9	14.17	30	14.44

Dawson County

A-18-56-25cb. Mrs. Bud Stevenson. Dug unused well in terrace deposits, diameter 30 inches, depth 28 feet, concrete cribbing. Highest water level 22.63 below lsd, Sept. 15, 1952; lowest 25.19 below lsd, Nov. 18, 1952. Records available: 1947-52.

Jan. 10	25.14	Apr. 8	24.89	Aug. 11	25.12	Oct. 21	25.12
30	25.15	June 24	24.92	Sept. 15	22.63	Nov. 18	25.19
Mar. 13	25.18	July 16	24.91				

Glacier County

B-32-11-3dd. Bureau of Indian Affairs. Unused well, diameter 24 inches, depth 9 feet, sheet iron casing. Highest water level 0.00, Mar. 19, 1951, Mar. 4, 1952; lowest 2.67 below lsd, Oct. 13, 1952. Records available: 1947-52.

Feb. 4	0.98	May 28	1.89	July 30	2.42	Oct. 13	2.67
Mar. 4	.00	June 19	1.92	Sept. 3	2.53	Nov. 5	2.38
Apr. 15	.25	July 7	2.18	8	2.50		

Hill County

A-32-15-17dd. U. S. Geol. Survey. Drilled unused well in deposits of Pleistocene age, diameter 2 inches, depth 180 feet, steel casing to 152. Highest water level 42.18 below lsd, May 16, 1952; lowest 52.56 below lsd, June 18, 1947. Records available: 1947-52.

Feb. 11	42.45	May 16	42.18	July 17	42.34	Aug. 29	42.58
Mar. 12	42.71	June 30	42.45	24	42.35	Oct. 6	42.77
Apr. 18	42.26						

Jefferson County

B-1-4-8cd. Joe Merrick. Drilled unused well, diameter 4 inches, depth 9 feet, steel casing. Highest water level 2.73 below lsd, Aug. 28, 1951; lowest 6.00 below lsd, June 23, 1947. Records available: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 2	3.45	May 12	4.49	Aug. 11	3.54	Oct. 14	3.10
25	3.30	June 5	4.34	Sept. 8	3.30	Dec. 19	2.88
Mar. 31	3.53	July 3	4.00				

Lake County

B-21-20-2dc. Owner unknown. Dug domestic well, diameter 24 inches, depth 35 feet, tile casing. Highest water level 23.63 below lsd, Aug. 6, 1951; lowest 29.31 below lsd, June 10, 1950. Records available: 1947-52. Jan. 29, 25.90; Mar. 1, 28.60. Measurement discontinued.

Lewis and Clark County

B-20-6-8da. Owner unknown. Dug unused well, diameter 24 inches, depth 13 feet, masonry cribbing. Highest water level 7.42 below lsd, June 23, 1948; lowest 11.49 below lsd, Jan. 15, 1948. Records available: 1947-52. Feb. 14, 10.57; Feb. 29, 10.70; Mar. 19, 10.65; Apr. 15, 10.62; May 12, 10.22; May 26, 9.78; Nov. 5, 10.64.

Lincoln County

B-31-31-32db. Owner unknown. Dug unused well, diameter 4 feet, depth 15 feet, masonry cribbing. Highest water level 5.02 below lsd, June 2, 1948; lowest 13.23 below lsd, Dec. 9, 1952. Records available: 1947-52.

Feb. 11	10.03	May 6	8.11	Aug. 12	10.71	Oct. 29	12.84
Mar. 14	10.14	27	8.39	Sept. 10	11.87	Dec. 9	13.23
Apr. 11	7.45	July 8	9.34	Oct. 6	12.37		

McCone County

A-19-48-10db. Eldridge. Drilled domestic well, diameter 12 inches, depth 36 feet, wood stave casing. Highest water level 26.86 below lsd, Oct. 4, 1947; lowest 30.51 below lsd, May 29, 1950. Records available: 1947-52.

Jan. 9	29.42	June 25	28.43	Sept. 16	28.26	Nov. 26	28.37
Feb. 26	28.74	July 17	28.42	Oct. 21	28.36	Dec. 16	28.26
Apr. 9	28.44	Aug. 12	28.24				

Phillips County

A-31-34-8ca. W. D. Miller. Drilled unused well, diameter 5 inches, depth 15 feet, steel casing. Highest water level 2.65 below lsd, Aug. 19, 1948; lowest 6.88 below lsd, Feb. 25, 1950. Records available: 1947-52. Feb. 15, 6.45; July 24, 3.54; Sept. 24, 4.42; Dec. 4, 5.89; Dec. 30, 6.25.

Ravalli County

B-7-20-18ab. Owner unknown. Dug unused well, diameter 30 inches, depth 18 feet, wood stave casing. Highest water level 2.75 below lsd, May 3, 1952; lowest 12.80 below lsd, Jan. 29, 1952. Records available: 1947-52.

Jan. 29	12.60	May 3	2.75	Aug. 6	9.46	Oct. 23	12.10
Feb. 27	11.90	June 12	4.75	Sept. 19	11.22	Dec. 11	12.16
Apr. 3	11.00	July 10	5.25				

Roosevelt County

A-28-49-35ca. Owner unknown. Drilled unused well, diameter 4 inches, depth 49 feet, steel casing. Highest water level 14.70 below lsd, May 1, 1947; lowest 28.88 below lsd, Oct. 8, 1946. Records available: 1946-52.

Jan. 10	19.26	May 14	19.15	June 26	19.13	Oct. 22	18.89
Feb. 14	19.14	June 3	19.13	Sept. 15	18.75	Dec. 17	19.03

A-28-57-28dd. Abandoned school. Drilled unused well in Fort Union formation, diameter 5 inches, depth 29 feet, steel casing. Highest water level 24.35 below lsd, Mar. 17, 1949; lowest 27.52 below lsd, Apr. 25, 1946. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 9	25.11	June 3	24.60	Aug. 25	24.59	Oct. 28	24.76
Feb. 14	25.62	July 1	24.60	Sept. 15	24.80	Nov. 25	25.00

Stillwater County

D-2-23-29ba. Alvin Southworth. Drilled domestic well, diameter 6 inches, depth 24 feet, steel casing. Highest water level 2.73 below lsd, Sept. 23, 1949; lowest 12.23 below lsd, May 24, 1950. Records available: 1947-52.

Feb. 14	10.50	May 15	10.75	Aug. 21	5.37	Nov. 21	7.21
Mar. 12	11.08	June 10	9.24	Sept. 12	6.17	Dec. 22	8.32
Apr. 10	11.71	July 30	5.06	Oct. 1	6.48		

Teton County

B-25-1-15ab. Don Meech. Dug domestic and stock well in alluvium, diameter 8 feet, depth 23 feet, concrete casing. Highest water level 12.21 below lsd, Aug. 16, 1948; lowest 17.53 below lsd, Apr. 3, 1952. Records available: 1947-52. Feb. 20, 13.30; Mar. 3, 13.38; Mar. 17, 13.88; Apr. 3, 17.53; May 9, 13.76; Nov. 21, 16.33.

Toole County

B-36-2-8cc. Cloyd Hannon. Dug domestic and stock well, diameter 4-1/3 feet, depth 17 feet, wood cribbing. Highest water level 2.48 below lsd, July 11, 1951; lowest 10.53 below lsd, Feb. 13, 1950. Records available: 1947-52. Feb. 11, 6.96; May 7, 3.32; July 11, 5.52; Oct. 12, 8.40.

Yellowstone County

A-4-33-1aa. Cross Service Station. Drilled domestic well in irrigated alluvium, diameter 8 inches, depth 30 feet, steel casing. Highest water level 7.30 below lsd, Sept. 13, 1952; lowest 11.83 below lsd, May 16, 1949. Records available: 1947-52.

Jan. 9	10.37	Mar. 28	10.59	May 14	8.87	Sept. 13	7.30
Feb. 7	10.48	Apr. 14	10.78	Aug. 1	8.70	Nov. 7	8.97
28	10.46						

OREGON

By F. A. Watkins, Jr.

Scope of Water-Level Program

The observation-well program in Oregon was continued in 1952 in cooperation with the State Engineer. Measurements of water level and artesian pressure were made in 94 wells. Six nonrecording gages were in operation during the year. The Swan Lake-Yonna Valleys report entitled, "Geology and Ground-Water Resources of the Swan Lake-Yonna Valleys Area, Klamath County, Oregon" was released to the open file. The Tualatin Valley, Rogue River, and Lake County reports are in preparation and field work was started for a report on Umatilla River basin. (See figs. 18, 19, and 20.)

Precipitation

Precipitation ranged from 90 percent at Baker to 144 percent of normal at Klamath Falls. Precipitation for the State as a whole was above normal, being on the average about 106 percent of the 50-year average on the 17 stations for which it was computed. The rainfall pattern was much the same as it was in 1951, that is, a period of excessive rainfall during the fall, winter, and early spring months, followed by an extremely dry summer, with the excess in the first period being enough to offset the deficiency of the latter period. Above-normal snowfall contributed to the greater-than-average winter precipitation. Ground-water levels generally were higher than average during the spring months due to the excessive fall and winter rainfall and again, as last year, water levels in some places were the highest on record.

Interpretation of Water-Level Fluctuations

September-end water levels in the Willamette Valley subprovince in 1952 were on the average about 0.6 foot below those of 1951. The spring water levels generally were higher than normal while the fall levels were, in most cases, at normal level or slightly below. In the Deschutes River subprovince, well 14/15-15Q1 in the Prineville area and outside the area of heavy withdrawals from the artesian aquifer, was 6.0 feet higher in September 1952 than it was in September 1951. Well 14/16-32N1 in the heavily pumped area at Prineville was 2.70 feet higher in September 1952 than in September 1951. Well 14/16-19H1, drawing its water from the shallower unconfined zone, was 1.0 foot lower in September 1952 than in September 1951, while the September water-level for well 15/16-5D1, which is also in the shallow unconfined zone, was the same in 1952 as it was in 1951. In the Summer Lake subprovince there was an average rise in September-end water levels of about 0.66 foot, which indicates a general rise in ground-water storage over the whole area.

In seven wells in the Fort Rock area, there was an average rise of about 0.5 foot in September-end water-levels. Well 28/14-23D1, in the Silver Lake area was 0.4 foot lower in September 1952 than in September 1951. In the Chewaucan River valley September-end water-levels were about 2.3 feet higher in 1952 than in 1951. Well 29/23-3J1 in the Alkali Lake area was about 0.1 foot higher in September 1952 than it was in September 1951. Water levels in the Owyhee subprovince were, on the average, slightly lower at the year's end in 1952 than in 1951.

In the northern part of the subprovince four wells showed an average decline of about 0.5 foot, while four wells in the southern part of the subprovince showed a rise of about 0.46 foot on the average. In the Burns area of the Harney Basin subprovince water levels at the end of September 1952 were on the average about 0.6 foot below those of 1951. Well 23/31-33E1 had a year-end water level which was about 0.8 foot higher than that of 1951, while the yearly high in this well was 0.02 foot below that of 1951. These high water levels occurred in April both years.

In the Warner Valley area of the Harney Basin subprovince September-end water levels were about 0.7 foot higher in 1952 than they were in 1951. Water levels in the Walla Walla subprovince at the year-end were slightly above those of September 1951. In well 6N/35-36H1 the yearly high occurred in June and was 1.72 feet above the high of 1951 which also occurred in June.

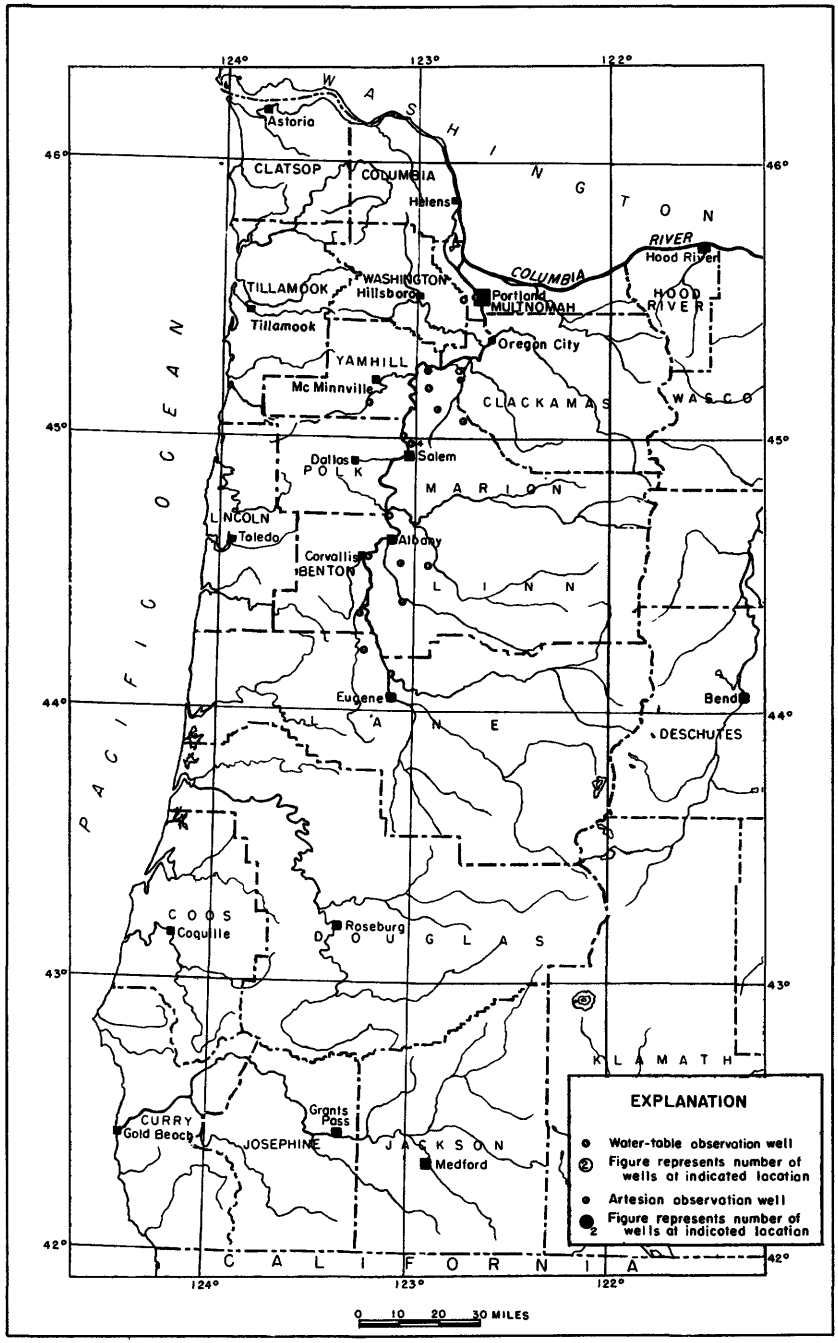


Figure 18. --Location of observation wells in western Oregon, 1952.

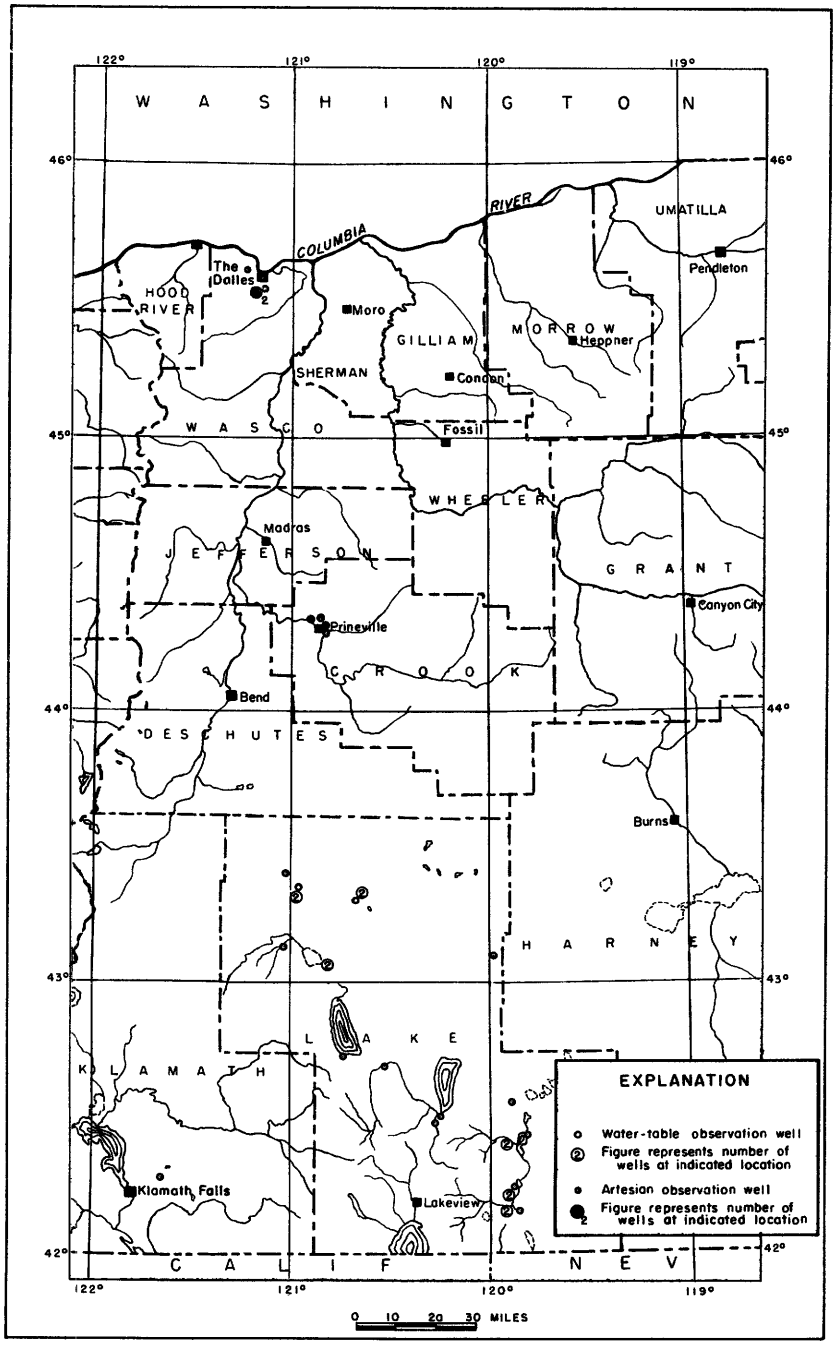


Figure 19. --Location of observation wells in central Oregon, 1952.

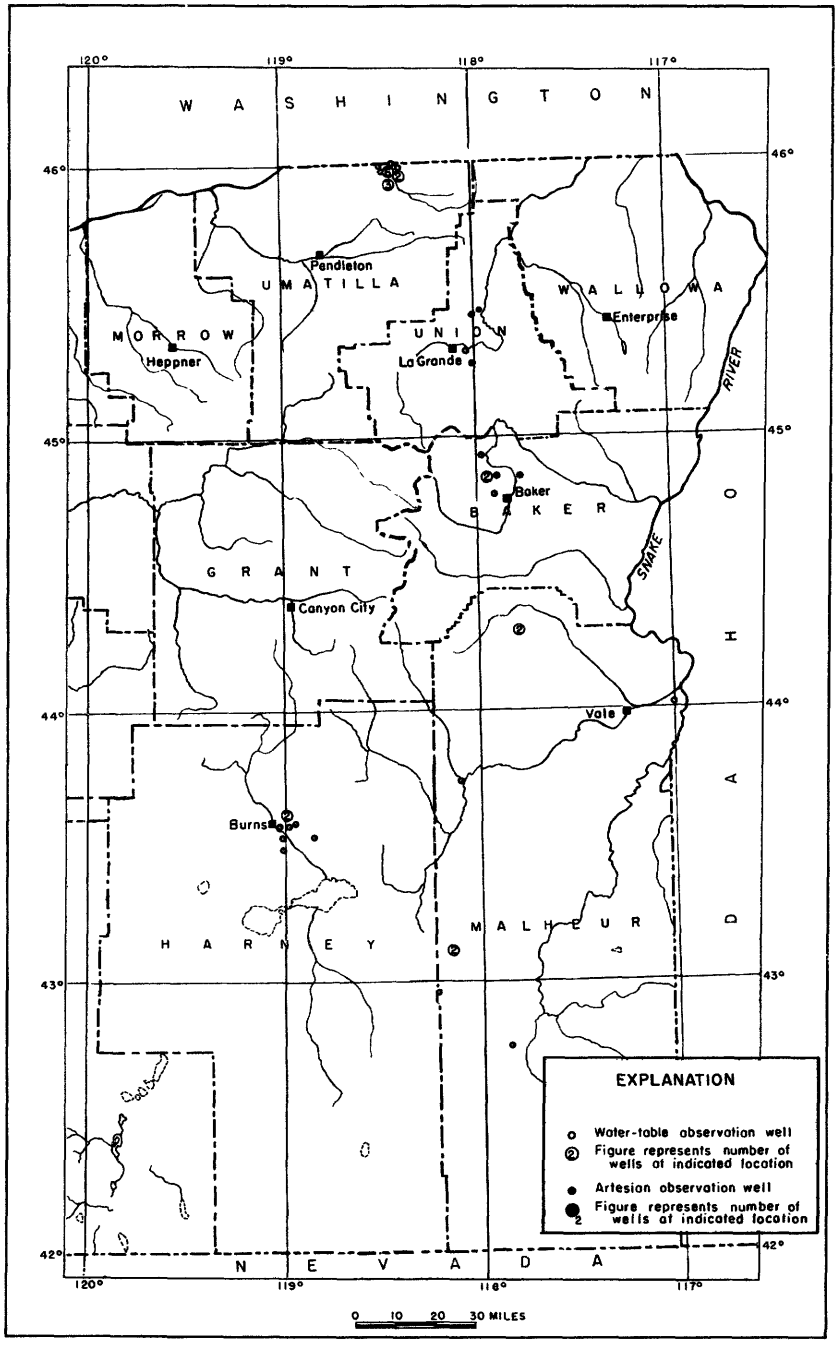
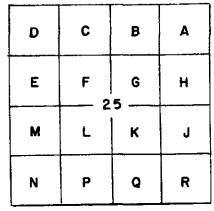


Figure 20.--Location of observation wells in eastern Oregon, 1952.

Observation wells in the Grande Ronde subprovince are located in both the Powder River and Grande Ronde River valleys. In the Baker area, Powder River valley, September-end water levels were on the average about 0.2 foot above those of 1951. The highest water level of the year occurred in March at well 8/39-22G1, and was 0.75 foot above the high of 1951, which also occurred in March. In the Grande Ronde Valley, September-end water levels were on the average at the same level as in 1951 at this time. The yearly high water level at well 3/38-10B1 occurred in February and was slightly above the high of 1951, which occurred in March.

Well-Numbering System

Wells are numbered in accordance with the Bureau of Land Management system of land subdivision. 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 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

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Baker County

7/39-20N1. City of Baker. Dug observation water-table well in alluvium, size 18 by 18 inches, depth 9 feet, cribbed with wood to bottom, perforated 12-inch steel casing 3 to 7. Land-surface datum is 3,373.8 feet above msl. Highest water level 1.33 below lsd, June 22, 1952; lowest 7.02 below lsd, Oct. 9, 1945. Records available: 1936, 1938-52. Apr. 10, 3.26; June 22, 1.33; Sept. 9, 5.06.

8/39-22F1. Baker County. Dug observation water-table well in alluvium, size 18 by 18 inches, depth 11 feet, cribbed with wood to 9 feet, perforated 12-inch steel casing 7 to 11. Land-surface datum is 3,385.78 feet above msl. Highest water level 2.75 below lsd, Mar. 8, 1949; lowest 9.87 below lsd, Sept. 29, 1939. Records available: 1936, 1938-52. Apr. 10, 3.19; June 22, 3.76; Sept. 9, 4.44; Dec. 29, 3.75.

8/39-22G1. Florence Rohner. Dug unused water-table well in sand and gravel, diameter 12 inches, depth 11 feet. Land-surface datum is about 3,383 feet above msl. Highest water level 1.20 below lsd, Mar. 23, 1952; lowest 4.95 below lsd, Sept. 11, 1950. Records available: 1949-52.

Daily water level from nonrecording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.18	3.09	3.15	2.20	3.24	3.48	3.35	....	....	3.84	3.42	3.35
2	3.21	3.00	3.16	2.25	3.25	3.50	3.40	....	....	3.83	3.45	3.40
3	3.25	2.95	3.18	2.35	3.29	3.55	3.45	....	....	3.83	3.43	3.45
4	3.28	2.85	3.20	2.41	3.30	3.57	3.48	....	....	3.82	3.40	3.32
5	3.29	2.72	3.20	2.46	3.31	3.60	3.50	....	....	3.82	3.35	3.30
6	3.30	2.69	3.18	2.57	3.32	3.65	3.55	....	....	3.80	3.25	3.32
7	3.32	2.70	3.17	2.58	3.33	3.66	3.60	....	....	3.79	3.20	3.32
8	3.32	2.65	3.15	2.63	2.30	3.67	3.64	....	....	3.78	3.16	3.16
9	3.35	2.72	3.05	2.70	2.50	3.70	3.70	....	4.17	3.76	3.14	3.15
10	3.34	2.85	3.00	2.74	2.60	3.72	3.76	....	....	3.74	3.12	3.13

8/39-22G1--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	3.33	2.95	2.98	2.78	2.68	3.73	3.77	....	....	3.73	3.09	3.12
12	3.32	2.97	2.90	2.83	2.74	3.55	3.78	....	....	3.72	3.05	3.10
13	3.30	2.98	2.94	2.86	2.80	3.50	3.79	....	....	3.71	3.00	3.08
14	3.28	2.99	2.80	2.90	2.98	3.50	3.79	....	....	3.70	2.99	3.06
15	3.27	3.00	2.48	2.45	3.02	3.55	3.80	....	....	3.70	2.97	3.04
16	3.26	3.02	2.43	2.50	3.08	3.58	3.82	....	....	3.69	2.96	3.02
17	3.24	3.06	2.30	2.58	3.20	3.62	3.85	....	....	3.68	2.95	3.02
18	3.32	3.09	2.28	2.65	3.25	3.65	3.88	....	....	3.64	2.94	3.05
19	3.21	3.10	2.25	2.71	3.28	3.66	3.86	....	....	3.62	2.93	3.09
20	3.22	3.12	1.85	2.85	3.28	3.64	3.86	....	....	3.60	2.93	3.09
21	3.24	3.13	1.23	2.90	3.31	3.58	3.87	....	....	3.58	2.95	3.08
22	3.24	3.14	1.23	2.98	3.34	3.50	3.87	....	....	3.57	2.93	3.08
23	....	3.15	1.20	3.00	3.37	3.50	3.88	....	....	3.55	3.00	3.08
24	3.23	3.14	1.40	3.05	3.41	3.49	3.89	....	....	3.54	3.05	3.10
25	3.23	3.15	1.58	3.09	3.42	3.48	3.89	....	....	3.52	3.09	3.11
26	3.23	3.15	1.50	3.13	3.43	3.46	3.89	....	....	3.50	3.12	3.12
27	3.20	3.15	1.55	3.15	3.45	3.46	3.90	....	....	3.48	3.15	3.13
28	3.20	3.15	1.70	3.18	3.43	3.47	3.90	....	....	3.47	3.20	3.14
29	3.18	3.15	1.85	3.20	3.42	3.45	3.91	....	....	3.46	3.25	3.16
30	3.15		1.95	3.25	3.46	3.43	3.91	....	....	3.46	3.30	3.15
31	3.09		2.10		3.50		3.92	....		3.45		3.14

8/40-19D1. Baker County. Dug observation water-table well in alluvium, size 18 by 18 inches, depth 9 feet, cribbed with wood to bottom, perforated 12-inch steel casing 3 to 7. Land-surface datum is 3,341.95 feet above msl. Highest water level 0.70 below lsd, Dec. 29, 1951; lowest 7.20 below lsd, Oct. 27, 1950. Records available: 1936, 1938-52. Dec. 29, 1951, 0.70; Apr. 10, 1.69; June 22, 2.51; Sept. 9, 5.66; Dec. 29, 5.74.

8/40-23A1. Baker County. Driven observation water-table well in alluvium, diameter 1¼ inches, depth 8 feet, screen 6-8. Land-surface datum is 3,347.28 feet above msl. Highest water level 0.00, June 22, 1952; lowest 5.90 below lsd, Dec. 8, 1939. Records available: 1936, 1938-47, 1949-52. Apr. 10, 2.87; June 22, 0.00; Dec. 29, 3.73.

9/39-2N1. Chris Lee. Drilled unused water-table well, diameter 12 inches, depth 321 feet, perforations 0-321. Land-surface datum is about 3,417 feet above msl. Highest water level 4.97 below lsd, Apr. 25, 1950; lowest 13.61 below lsd, Jan. 5, 15, 1950. Records available: 1949-52. Apr. 10, 8.81; June 22, 6.00; Sept. 9, 9.69; Dec. 29, 12.68.

Benton County

14/5W-10R1. Chris Lindseth. Driven unused water-table well in alluvium, diameter 1¼ inches, depth 19 feet. Land-surface datum is 267.49 feet above msl. Highest water level 0.21 above lsd, Feb. 26, 1936; lowest 16.23 below lsd, Sept. 27, 1945. Records available: 1929-30, 1935-36, 1938-52. Apr. 11, 11.34; June 2, 13.79; Sept. 11, 14.85; Dec. 24, 14.63.

Crook County

14/15-15Q1. M. D. Colahan. Drilled domestic and stock artesian well, diameter 4 inches, depth 210 feet. Land-surface datum is 2,846.8 feet above msl. Highest water level 72.5 above lsd, Dec. 1, 1951; lowest 46.5 above lsd, July 23, 1946. Records available: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	+69.5	May 5	+64.5	Aug. 7	+63.5	Sept. 18	+70.0
21	69.5	28	67.5	12	65.5	29	68.5
Feb. 4	67.5	June 4	69.5	17	69.5	Oct. 14	69.5
Mar. 10	68.5	9	69.5	22	68.5	Nov. 11	65.5
19	68.5	17	63.5	Sept. 2	60.5	Dec. 9	66.5
Apr. 9	70.5	30	70.5	5	69.5	24	67.5
14	69.5	July 10	66.5	10	70.5	31	65.0
15	69.5						

14/16-19H1. Floyd Bailey. Drilled domestic water-table well in sandy lacustrine sediments of Pleistocene age, diameter 6 inches, depth 47 feet. Land-surface datum is 2,970 feet above msl. Highest water level 2.74 below lsd, Aug. 26, 1949; lowest 17.51 below lsd, Mar. 19, 1948. Records available: 1944, 1947-52. Apr. 14, 16.36; June 17, 5.95; Sept. 2, 4.59; Dec. 31, 10.84.

14/16-32N1. E. E. Wagoner. Dunham and Sixth Sts., Prineville. Drilled unused artesian well, diameter 5 inches, depth 160 feet. Land-surface datum is 2,865.90 feet above msl. Highest water level 1.82 above lsd, Dec. 8, 1945; lowest 18.93 below lsd, Aug. 26, 1949. Records available: 1944-52. Apr. 15, 3.53; June 17, 12.33; Sept. 2, 13.77; Dec. 31, 4.60.

15/16-5D1. Pacific Power & Light Co. Court Ave. and 4th St., Prineville. Driven public-supply water-table well in alluvium along Ochoco Creek, diameter 2 inches, depth 40 feet. Land-surface datum is about 2,865 feet above msl. Highest water level 5.69 below lsd, Mar. 24, 1951; lowest 7.52 below lsd, Sept. 2, 1952. Records available: 1943, 1947-52. Apr. 15, 5.20; June 17, 6.96; Sept. 2, 7.52; Dec. 31, 7.16.

Harney County

22/31-34N1. L. F. Lazaus. Formerly Frank Whiting. Drilled stock artesian well in Danforth formation, diameter 18 to 8 inches, depth 288 feet. Land-surface datum is 4,153.17 feet above msl. Highest water level 1.50 below lsd, Apr. 21, 1936; lowest 13.70 below lsd, Oct. 29, 1950. Records available: 1936-52. Apr. 16, 8.95; June 21, 11.46; Sept. 6, 10.59; Dec. 30, 11.34.

23/31-3D2. Harney County. Dug observation water-table well in alluvium, size 18 by 18 inches, depth 14 feet, cribbed with wood to 12, perforated 12-inch steel casing 10-14. Land-surface datum is 4,153.12 feet above msl. Highest water level 3.00 below lsd, June 11, 1945; lowest 9.32 below lsd, Feb. 18, 1936. Records available: 1936, 1938-52. Apr. 16, 3.19; June 21, 4.09; Sept. 6, 6.38; Dec. 30, 8.48.

23/31-14A3. Harney County. Dug observation water-table well in alluvium, size 18 by 18 inches, depth 17 feet, cribbed with wood to 14, perforated 12-inch steel casing 13-17. Land-surface datum is 4,142.55 feet above msl. Highest water level 1.50 below lsd, Apr. 16, 1952; lowest 13.20 below lsd, Jan. 15, 1936. Records available: 1936, 1938-52. Apr. 16, 1.50; June 21, 6.08; Dec. 30, 9.29.

23/31-16E1. Harney County. Dug observation water-table well in alluvium, size 18 by 18 inches, depth 14 feet, cribbed with wood to 11, perforated 12- inch steel casing 10-14. Land-surface datum is 4,146.30 feet above msl. Highest water level 0.80 below lsd, Apr. 16, 1952; lowest 9.10 below lsd, Jan. 15, 1936. Records available: 1936, 1938-52. Apr. 16, 0.80; June 21, 4.57; Sept. 7, 7.07; Dec. 30, 7.59.

23/31-33E1. Harney County. Dug observation water-table well in alluvium, size 18 by 18 inches, depth 13 feet, cribbed with wood to 10, perforated steel casing 9-13. Land-surface datum is 4,134.02 feet above msl. Highest water level 0.90 below lsd, June 8, 1947; lowest 7.90 below lsd, Feb. 12, 1950. Records available: 1936, 1938-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	7.04	Apr. 6	1.44	June 23	2.41	Sept. 21	6.08
13	7.05	13	1.18	28	1.55	28	6.22
20	7.06	16	1.14	July 6	1.68	Oct. 6	6.37
27	7.08	20	1.27	13	2.39	13	6.46
28	7.09	27	1.23	20	2.68	20	6.57
Feb. 3	6.85	28	1.22	27	3.47	Nov. 2	6.75
10	6.78	May 4	1.18	28	3.48	9	6.79
17	6.75	11	1.32	Aug. 3	4.04	16	6.83
24	6.80	18	1.46	10	4.55	23	6.86
27	6.80	25	1.65	17	4.98	28	6.87
Mar. 2	6.71	28	1.67	24	5.29	Dec. 7	6.92
9	6.35	June 2	2.24	28	5.47	14	6.93
16	5.98	9	2.28	Sept. 6	5.83	21	6.92
23	5.79	16	2.33	7	5.89	28	6.90
28	3.05	21	2.33	14	5.97	30	6.85

23/32-7L1. Harney Branch Experiment Station. Drilled observation water-table well in alluvium, diameter 3 inches, depth 12 feet. Land-surface datum is 4,135.24 feet above msl. Highest water level 0.00, June 19, 1952; lowest 9.30 below lsd, Mar. 2, 1931. Records available: 1929-52. Apr. 16, 1.70; June 19, 0.00; Sept. 6, 6.18; Dec. 30, 7.42.

23/32-7L2. Harney Branch Experiment Station. Drilled irrigation artesian well in alluvium, diameter 18 inches, depth 93 feet, cased to 60. Land-surface datum is 4,135.24 feet above msl. Highest water level 2.92 below lsd, Apr. 16, 1952; lowest 38.37 below lsd, July 30, 1931. Records available: 1928-52. Apr. 16, 2.92; Dec. 30, 4.82.

23/32-30R1. Harney County. Dug observation water-table well in alluvium, size 18 by 18 inches, depth 19 feet, cribbed with wood to 15, perforated 12-inch steel casing 15-19. Land-surface datum is 4,130.77 feet above msl. Highest water level 6.48 below lsd, June 21, 1952; lowest 14.41 below lsd, May 17, 1940. Records available: 1936, 1938-52. Apr. 16, 8.82; June 21, 6.48; Sept. 8, 9.79; Dec. 30, 8.62.

24/31-28E1. Harney County. Dug observation water-table well in alluvium, size 18 by 18 inches, depth 17 feet, cribbed with wood to 15, perforated 12-inch steel casing 13-17. Land-surface datum is 4,124.44 feet above msl. Highest water level 2.76 below lsd, Apr. 16, 1952; lowest 13.06 below lsd, Sept. 8, 1936. Records available: 1936, 1938-52. Apr. 16, 2.76; June 21, 4.88; Sept. 7, 10.07; Dec. 30, 8.59.

Lake County

25/14-15E1. U. S. Soil Conservation Service. Drilled unused artesian well, diameter 18 inches, depth 220 feet. Land-surface datum is about 4,350 feet above msl. Highest water level 45.30 below lsd, Sept. 4, 1932; lowest 52.88 below lsd, Oct. 22, 1948. Records available: 1932, 1935-36, 1938-52. Apr. 15, 47.60; June 18, 47.29; Sept. 6, 47.06.

26/15-22B2. U. S. Soil Conservation Service. Drilled unused well in lacustrine sediments, diameter 12 inches, depth 83 feet. Land-surface datum is about 4,313 feet above msl. Highest water level 25.40 below lsd, Dec. 21, 1940; lowest 28.07 below lsd, Feb. 18, 1950. Records available: 1940-41, 1948-52. Apr. 15, 25.75; June 18, 25.67; Sept. 6, 25.52; Dec. 27, 25.56.

27/15-4G1. M. Y. Parks. Drilled irrigation artesian well in basaltic agglomerate, diameter 16 inches, depth 257 feet. Land-surface datum is about 4,335 feet above msl. Highest water level 38.71 below lsd, Sept. 4, 1932; lowest 43.12 below lsd, Oct. 6, 1940. Records available: 1932, 1935-36, 1938-52. Apr. 15, 40.26; June 18, 44.15, pumping; Sept. 6, 39.89; Dec. 27, 39.77.

27/15-4G2. M. Y. Parks. Drilled domestic and stock artesian well, diameter 8 inches, depth 100 feet. Land-surface datum is about 4,336 feet above msl. Highest water level 39.62 below lsd, Sept. 4, 1932; lowest 43.62 below lsd, Oct. 9, 1947. Records available: 1932, 1935-36, 1938-52. Apr. 15, 41.75; June 18, 42.15; Sept. 6, 41.59; Dec. 27, 41.16.

27/17-22R2. W. D. Collins. Drilled unused water-table well in sand, diameter 8 inches, depth 54 feet. Land-surface datum is about 4,325 feet above msl. Highest water level 25.13 below lsd, May 25, 1941; lowest 28.28 below lsd, Aug. 5, 1948. Records available: 1938, 1940-44, 1946-52. Apr. 15, 27.24; June 18, 27.00; Sept. 6, 27.08; Dec. 27, 26.74.

27/18-6E2. Roy Moorehouse. Drilled unused water-table well, diameter 8 inches, depth 83 feet. Land-surface datum is about 4,317 feet above msl. Highest water level 22.57 below lsd, Sept. 15, 1943; lowest 25.18 below lsd, Apr. 15, 1952. Records available: 1940-52. Apr. 15, 25.18; June 18, 25.16; Sept. 6, 25.12; Dec. 27, 25.17.

27/18-7N1. Rolly Hardin. Dug unused water-table well in sand, size 4 by 4 feet, depth 40 feet. Land-surface datum is about 4,316 feet above msl. Highest water level 20.59 below lsd, Apr. 15, 1952; lowest 34.96 below lsd, July 4, 1949. Records available: 1938-52. Apr. 15, 20.59; June 18, 23.52; Sept. 6, 25.03; Dec. 27, 24.59.

28/14-23D1. Dudley S. Long. Dug unused water-table well in lake deposits, size 4 by 4 feet, depth 26 feet. Land-surface datum is about 4,343 feet above msl. Highest water level 6.29 below lsd, June 18, 1952; lowest 15.97 below lsd, Feb. 17, 1950. Records available: 1949-52. Apr. 15, 12.14; June 18, 6.29; Sept. 6, 9.46; Dec. 27, 8.79.

29/16-9D1. Sid Harris. Drilled stock artesian well in sand, diameter 6 inches, depth 320 feet. Land-surface datum is about 4,302 feet above msl. Highest water level 8.48 below lsd, June 18, 1952; lowest 10.01 below lsd, Feb. 17, 1950. Records available: 1949-52. Apr. 15, 8.58; June 18, 8.48.

29/16-9D2. Sid Harris. Drilled stock water well in sand, diameter 8 inches, depth 55 feet. Land-surface datum is about 4,302 feet above msl. Highest water level 0.90 below lsd, June 18, 1952; lowest 14.00 below lsd, July 12, 1950. Records available: 1949-52.. Apr. 15, 13.13; June 18, 0.90.

29/23-3J1. U. S. Soil Conservation Service. Drilled unused well in playa sediments of Pleistocene age, diameter 8 inches, depth 177 feet. Land-surface datum is about 4,225 feet above msl. Highest water level 18.43 below lsd, Oct. 11, 1945; lowest 19.11 below lsd, Sept. 5, 1951. Records available: 1945, 1947-52. Jan. 5, 19.07; Apr. 16, 19.10; June 20, 19.07; Sept. 5, 18.98; Dec. 29, 19.10.

33/17-5M1. W. H. Harvey. Drilled unused artesian well in valley fill, diameter 6 inches, depth 560 feet. Land-surface datum is about 4,295 feet above msl. Highest water level 16.56 below lsd, Sept. 4, 1952; lowest 25.95 below lsd, Feb. 17, 1950. Records available: 1948-52. Apr. 15, 24.52; June 18, 17.11; Sept. 4, 16.56; Dec. 27, 24.18.

35/21-21P1. Del Overton. Drilled domestic and stock water-table well, diameter 3 inches. Land-surface datum is about 4,280 feet above msl. Highest water level 19.12 below lsd, June 20, 1952; lowest 21.85 below lsd, Mar. 22, 1951. Records available: 1948, 1950-52. Apr. 15, 20.38; June 20, 19.12; Sept. 4, 21.21; Dec. 27, 20.50.

35/24-9J1. U. S. Bureau of Land Management. Drilled unused artesian well in basalt, diameter 8 inches, depth 376 feet. Land-surface datum is about 4,525 feet above msl. Highest water level 7.67 below lsd, Dec. 29, 1952; lowest 8.77 below lsd, July 9, 1950. Records available: 1949-52. Jan. 5, 7.84; Apr. 16, 7.74; June 19, 7.76; Sept. 5, 8.21; Dec. 29, 7.67.

36/21-6B1. S.V. Carroll. Dug unused water-table well in sand, size 8 by 8 feet, depth 21 feet. Land-surface datum is 4,321.6 feet above msl. Highest water level 11.64 below lsd, Dec. 27, 1952; lowest 17.21 below lsd, Aug. 27, 1938. Records available: 1938-52. Apr. 15, 11.93; June 18, 11.75; Sept. 5, 11.82; Dec. 27, 11.64.

36/24-28M1. J. P. Eagan. Drilled domestic water-table well in gravel, diameter 6 inches, depth 40 feet. Land-surface datum is about 4,512 feet above msl. Highest water level 17.95 below lsd, June 19, 1952; lowest 25.98 below lsd, Feb. 13, 1950. Records available: 1948-52. Jan. 5, 26.06; Apr. 16, 20.80; June 19, 17.95; Sept. 5, 22.07; Dec. 29, 24.89.

36/24-32A1. Thomas J. Murphy. Dug stock and irrigation water-table well in gravel, size 4 by 4 feet, depth 23 feet. Land-surface datum is about 4,512 feet above msl. Highest water level 10.79 below lsd, June 19, 1952; lowest 19.75 below lsd, Oct. 29, 1940. Records available: 1940, 1948-52. Jan. 5, 17.20; Apr. 16, 12.50; June 19, 10.79; Sept. 5, 14.53; Dec. 29, 14.33.

36/25-19A1. U. S. Fish and Wildlife Service. Dug unused water-table well in sand, gravel, and cobbles, diameter 24 inches, depth 6 feet. Land-surface datum is about 4,474 feet above msl. Highest water level 1.38 below lsd, Apr. 16, 1952; lowest 3.47 below lsd, Feb. 13, 1950. Records available: 1948-52. Apr. 16, 1.38; June 19, 1.51; Sept. 5, 1.99; Dec. 29, 2.15.

38/24-27M1. Charles Crump. Drilled unused artesian well in gravel, diameter 6 inches, depth 81 feet. Land-surface datum is about 4,495 feet above msl. Highest water level 0.00, Apr. 16, June 19, Sept. 5, 1952; lowest 0.64 below lsd, Nov. 13, 1949. Records available: 1948-52. Jan. 5, 0.31; Apr. 16, 0.00; June 19, 0.00; Sept. 5, 0.00; Dec. 29, 0.15.

39/24-21F2. J. G. Dyke. Drilled domestic water-table well in gravel, diameter 12 inches, depth 165 feet. Land-surface datum is about 4,542 feet above msl. Highest water level 10.84 below lsd, July 9, 1950; lowest 18.76 below lsd, Feb. 13, 1950. Records available: 1948-52. Jan. 5, 18.56; Apr. 16, 17.13; June 19, 12.61; Sept. 5, 13.50; Dec. 29, 18.16.

39/24-21F3. J. G. Dyke. Dug domestic water-table well in gravel, size 6 by 6 feet, depth 16 feet. Land-surface datum is about 4,540 feet above msl. Highest water level 10.28 below lsd, July 9, 1950; lowest 16.64 below lsd, Feb. 13, 1950. Records available: 1948-52. Jan. 5, 16.46; Apr. 16, 14.52; June 19, 11.15; Sept. 5, 11.78; Dec. 29, 16.00.

39/24-35D1. Ellen Cahill. Drilled domestic artesian well in valley fill, diameter 4 inches, depth 26 feet. Land-surface datum is about 4,475 feet above msl. Highest water level 1.49 below lsd, June 19, 1952; lowest 6.21 below lsd, Nov. 13, 1949. Records available: 1948-52. Jan. 5, 5.54; Apr. 16, 3.38; June 19, 1.49; Sept. 5, 4.58; Dec. 29, 5.14.

Lane County

15/4W-32M1. Junction City. Dug fire-protection water-table well in gravel, diameter 8 feet, depth 20 feet, cribbed with brick to bottom. Land-surface datum is 323.4 feet above msl. Highest water level 3.50 below lsd, Feb. 22, 1936; lowest 11.18 below lsd, Sept. 29, 1951. Records available: 1928-30, 1935-36, 1938-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	6.10	Mar. 22	5.86	May 10	7.30	July 3	7.99
12	5.72	29	5.94	17	7.60	5	8.47
19	5.61	Apr. 5	6.12	24	7.80	12	8.73
26	5.52	11	6.21	31	8.10	19	8.96
31	5.44	12	6.21	June 7	8.11	26	9.34
Mar. 1	5.67	19	6.36	14	8.12	Aug. 2	9.62
8	5.71	26	6.56	21	8.13	Sept. 11	10.76
15	5.75	May 3	6.95	28	8.16	Dec. 24	9.75

16/3W-32G1. Leo Sidwell. Dug irrigation water-table well in young alluvium, diameter 4 feet, depth 19 feet, cribbed with concrete tile. Land-surface datum is 388.98 feet above msl. Highest water level 6.53 below lsd, Jan. 16, 1936; lowest 12.98 below lsd, Oct. 31, 1935. Records available: 1928-30, 1935-36, 1938-52. Apr. 11, 9.85; June 3, 11.29; Sept. 11, 12.84; Dec. 24, 11.64.

Linn County

10/4W-12F1. Henry Hoefer. Dug domestic water-table well in gravel, diameter 24 inches, depth 25 feet, cribbed with concrete tile to bottom. Land-surface datum is 185.74 feet above msl. Highest water level 7.62 below lsd, Jan. 14, 1936; lowest 24.34 below lsd, Sept. 11, 1952. Records available: 1928-30, 1935-36, 1938-52. Apr. 11, 18.54; July 3, 20.93; Sept. 11, 24.34; Dec. 24, 22.52.

11/5W-36Q1. E. L. Beach. Drilled unused water-table well in alluvium, diameter 8 inches, depth 42 feet. Land-surface datum is 218.27 feet above msl. Highest water level 7.78 below lsd, Dec. 21, 1929; lowest 26.03 below lsd, Aug. 19, 1935. Records available: 1928-30, 1935-36, 1938-52. Apr. 11, 17.09.

12/2W-14B1. Sigurd H. Lanstrom. Dug irrigation water-table well in alluvium, size 5 by 5 feet, depth 16 feet, concrete wall to bottom. Land-surface datum is about 346 feet above msl. Highest water level 4.35 below lsd, Dec. 10, 1948; lowest 11.22 below lsd, Oct. 27, 1942. Records available: 1941-52. Apr. 11, 7.12; July 3, 8.38; Sept. 11, 10.57; Dec. 24, 8.65.

12/3W-9R1. J. H. Swatzka. Dug domestic water-table well in alluvium, diameter 30 inches, depth 19 feet, concrete crib to bottom. Land-surface datum is 272.79 feet above msl. Highest water level 1.70 below lsd, Feb. 23, 1930; lowest 17.89 below lsd, Sept. 24, 1946. Records available: 1928-30, 1935-36, 1938-52. Apr. 11, 6.68; July 3, 7.95.

13/3W-34N1. Keeney School, District 51. Driven unused water-table well in alluvium, diameter $1\frac{1}{4}$ inches, depth 12 feet, screen 10-12. Land-surface datum is 285.0 feet above msl. Highest water level 0.67 below lsd, Jan. 10, 1936; lowest 9.43 below lsd, Dec. 6, 1938. Records available: 1928-30, 1935-36, 1938-46, 1950-52. Apr. 11, 3.29; July 3, 4.83; Sept. 11, 7.53; Dec. 24, 4.27.

Malheur County

15/40-2H1. Max Holloway. Drilled irrigation well in gravel, diameter 12 inches, depth 421 feet. Land-surface datum is about 3,900 feet above msl. Highest water level 18.28 below lsd, Mar. 18, 1951; lowest 24.30 below lsd, Sept. 9, 1952. Records availabe: 1950-52. Apr. 18, 18.80; June 23, 40.75, pumping; Sept. 9, 24.30; Dec. 29, 22.05.

15/40-2N1. Rankin Crow. Drilled irrigation well in gravel, diameter 10 inches, depth 178 feet. Land-surface datum is about 3,900 feet above msl. Highest water level 31.06 below lsd, Mar 18, 1951; lowest 36.29 below lsd Aug. 14, 1951. Records available: 1950-52. Apr. 13, 33.25; June 23, 62.50, pumping; Sept. 9, 38.22; Dec. 29, 36.45.

18/47-17D1. Earl Weaver. Drilled domestic water well, diameter 3 inches, depth 135 feet. Land-surface datum is about 2,160 feet above msl. Highest water level 6.91 below lsd, Sept. 9, 1952; lowest 10.96 below lsd, Mar. 18, 1951. Records available: 1950-52. Apr. 17, 10.96; June 22, 8.24; Sept. 9, 6.91; Dec. 29, 10.73.

21/38-17Q1. Charles Wilson. Dug irrigation water-table well in gravel, diameter 12 inches, depth 14 feet, cribbed with concrete tile to bottom. Land-surface datum is about 2,960 feet above msl. Highest water level 3.07 below lsd, June 23, 1952; lowest 11.14 below lsd, Feb. 12, 1950. Records available: 1945-52. Apr. 18, 8.95; June 23, 3.07; Sept. 7, 5.98; Dec. 29, 8.57.

28/37-23R1. Earl Obenchain. Dug domestic water-table well in gravel, diameter 4 feet, depth 30 feet, cribbed with rock to bottom. Land-surface datum is about 4,060 feet above msl. Highest water level 3.30 below lsd, Apr. 17, 1952; lowest 14.14 below lsd, Oct. 28, 1950. Records available: 1950-52. Apr. 17, 3.30; June 21, 5.61; Sept. 8, 8.49; Dec. 30, 9.17.

28/37-25F1. Earl Obenchain. Drilled stock water-table well in gravel, diameter 4 inches, depth 96 feet, cased to 70. Land-surface datum is about 4,060 feet above msl. Highest water level 55.49 below lsd, Dec. 30, 1952; lowest 57.73 below lsd, Aug. 15, 1951. Records available: 1950-52. Apr. 17, 57.26; June 21, 56.62; Sept. 8, 56.38; Dec. 30, 55.49.

29/37-19A1. George Renick. Drilled unused well, diameter 6 inches, depth 201 feet. Land-surface datum is about 4,067 feet above msl. Highest water level 85.23 below lsd, Dec. 30, 1952; lowest 85.84 below lsd, Apr. 17, 1952. Records available: 1950-52. Apr. 17, 85.84; June 19, 85.54; Sept. 8, 85,38; Dec. 30, 85.23.

32/40-18K1. Keith Wallace. Drilled domestic and public-supply artesian well in volcanic rock, diameter 6 inches, depth 356 feet, cased to 160. Land-surface datum is about 4,000 above msl. Highest water level 235.22 below lsd, Dec. 30, 1952; lowest 236.63 below lsd, Mar. 20, 1951. Records available: 1950-52. June 22, 236.2; Sept. 8, 235.58; Dec. 30, 235.22.

Marion County

4/1W-2C1. W. F. Keil. Drilled domestic water-table well in valley fill, diameter 10 inches, depth 26 feet. Land-surface datum is 186.69 feet above msl. Highest water level 0.65 below lsd, Dec. 9, 1948; lowest 21.66 below lsd, Mar. 20, 1939. Records available: 1926-30, 1935-36, 1938-52. Apr. 10, 1.99; July 2, 15.37; Sept. 10, 15.61; Dec. 23, 17.72.

4/1W-23G1. Julius Sather. Dug unused water-table well in alluvium, diameter 4 feet, depth 60 feet, cribbed with brick to bottom. Land-surface datum is about 175 feet above msl. Highest water level 44.76 below lsd, June 7, 1951; lowest 57.82 below lsd, Sept. 28, 1945. Records available: 1945-52. Apr. 10, 49.49; July 2, 49.45; Sept. 10, 49.73; Dec. 23, 51.05.

4/2W-4C1. W. J. Gering. Dug domestic water-table well in alluvium, diameter 36 inches, depth 23 feet, cribbed with concrete tile to bottom. Land-surface datum is 123.57 feet above msl. Highest water level 7.46 below lsd, Mar. 26, 1951; lowest 19.90 below lsd, Dec. 5, 1939. Records available: 1928-30, 1935-36, 1938-52. Apr. 10, 9.08; July 1, 12.79; Sept. 10, 15.44; Dec. 23, 15.36.

4/2W-34R1. Johnson School. Dug unused water-table well in alluvium, diameter 18 inches, depth 20 feet, cribbed with concrete fill to bottom. Land-surface datum is 172.86 feet above msl. Highest water level 0.71 below lsd, Dec. 9, 1948; lowest 18.52 below lsd, Dec. 5, 1939. Records available: 1928-30, 1935-36, 1938-52. Apr. 10, 3.63; July 2, 13.83; Sept. 10, 17.46; Dec. 23, 17.19.

5/2W-25M1. Agricultural Research Corp. (Sam H. Brown). Drilled irrigation artesian well in sand and gravel, diameter 18 to 6 inches, depth 252 feet, casing perforated 117-147 and 215-245. Land-surface datum is 180.31 feet above msl. Highest water level 13.74 below lsd, Mar. 11, 1948; lowest 24.24 below lsd, Sept. 13, 1951. Records available: 1930, 1935-36, 1938-52. Sept. 10, 25.04; Dec. 23, 23.54.

6/3W-33R1. Gideon E. Stolz. Drilled unused water-table well in gravel and cobbles, diameter 8 to 6 inches, depth 57 feet, perforated at bottom. Land-surface datum is 133.14 feet above msl. Highest water level 17.19 below lsd, Mar. 26, 1951; lowest 26.28 below lsd, Oct. 16, 1935. Records available: 1929-30, 1935-36, 1938-52. Apr. 10, 19.50; July 2, 25.40; Sept. 10, 27.68; Dec. 23, 26.53.

6/1-7M1. Fred Lucht. Dug unused water-table well in gravel, diameter 36 inches, depth 21 feet, cribbed with brick. Land-surface datum is 260.36 feet above msl. Highest water level 0.25 below lsd, Feb. 2, 1930; lowest 17.50 below lsd, Dec. 5, 1939. Records available: 1928-30, 1935-36, 1938-52. Apr. 10, 2.89; July 2, 7.35; Sept. 10, 12.39; Dec. 23, 10.62.

7/3W-11D2. F. G. Kurtz. Drilled public-supply water-table well in sand and gravel, diameter 8 inches, depth 67 feet, perforated 45-50 and 60-67. Land-surface datum is about 140 feet above msl. Highest water level 10.07 below lsd, Mar. 26, 1951; lowest 19.35 below lsd, Sept.10, Dec. 23, 1952. Records available: 1947-52. Apr. 10, 12.31; July 2, 16.07; Sept. 10, 19.35; Dec. 23, 19.35.

7/3W-11G1. Frank Parkhurst. 1170 Candlewood Drive, North Salem. Drilled domestic water-table well in sand and gravel, diameter 4 inches, depth 44 feet. Land-surface datum is 144.19 feet above msl. Highest water level 12.56 below lsd, Mar. 11, 1948; lowest 19.50 below lsd, Dec. 23, 1952. Records available: 1947-52. Apr. 10, 14.80; July 2, 17.65; Sept. 10, 19.15; Dec. 23, 19.50.

7/3W-11H7. Sam James. 1415 Candlewood Drive, North Salem. Driven domestic water-table well in sand and gravel, diameter 2 inches, depth 27 feet. Land-surface datum is 136.11 feet above msl. Highest water level 6.15 below lsd, Mar. 11, 1948; lowest 11.79 below lsd, Nov. 25, 1949. Records available: 1948-52. Apr. 10, 7.76; July 2, 10.22; Sept. 10, 10.93.

Multnomah County

1N/1-34N1. Weisfield & Goldberg. SW. Sixth Ave. and Washington St., Portland. Drilled industrial water-table well in alluvium, diameter 8 inches, depth 155 feet. Land-surface datum is 37.20 feet above msl. Highest water level 24.24 below lsd, June 30, 1943; lowest 37.43 below lsd, Aug. 31, 1950. Records available: 1940-52.

1N/1-34N1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	29.81	Apr. 1	28.10	June 30	a27.28	Sept. 30	a33.48
Feb. 2	28.40	May 2	a28.19	July 31	a30.28	Nov. 4	31.17
29	28.68	June 2	a26.62	Sept. 2	a32.25	Dec. 2	31.85

a Pumping.

Umatilla County

2N/32-1Q1. E. C. Ralls. Dug unused water-table well in alluvium, size 4 by 4 feet, depth 8 feet, cribbed with wood to bottom. Land-surface datum is about 1,117 feet above msl. Highest water level 5.86 below lsd, June 25, 1952; lowest 6.47 below lsd, Sept. 10, 1952. Records available: 1945, 1947-52. Apr. 10, 6.08; June 25, 5.86; Sept. 10, 6.47; Dec. 28, 6.01.

5N/35-1C1. John Clark. Dug irrigation water-table well in gravel, size 6 by 8 feet, depth 37 feet. Land-surface datum is 995.60 feet above msl. Highest water level 13.22 below lsd, Dec. 19, 1946; lowest 35.43 below lsd, Feb. 16, 1937. Records available: 1933-52.

Jan. 31	29.58	May 17	20.98	Aug. 27	28.63	Oct. 30	25.99
Mar. 7	27.99	June 23	23.26	Sept. 26	a21.44	Nov. 29	25.91
Apr. 18	17.20	July 18	27.53				

a Pumping.

5N/35-2C1. E. J. McSherry. Dug irrigation water-table well in alluvium, size 5 by 5 feet, depth 23 feet. Land-surface datum is 975.82 feet above msl. Highest water level 9.91 below lsd, Nov. 28, 1949; lowest 26.01 below lsd, Jan. 25, 1951. Records available: 1933-52.

Jan. 31	18.78	May 17	13.77	Aug. 27	14.02	Oct. 30	17.12
Mar. 7	19.62	June 23	12.95	Sept. 26	15.85	Nov. 29	18.63
Apr. 18	16.25	July 18	14.89				

5N/35-3H1. Walter Miller. Dug domestic water-table well in alluvium, size 42 by 42 inches, depth 37 feet, concrete crib to bottom. Land-surface datum is 958.20 feet above msl. Highest water level 15.00 below lsd, Aug. 21, 1950; lowest dry, Mar. 7, 1952. Records available: 1933-52.

Jan. 31	36.42	May 17	20.60	Aug. 27	16.33	Oct. 30	29.70
Mar. 7	(f)	June 23	16.96	Sept. 26	18.31	Nov. 29	35.99
Apr. 18	36.27	July 18	17.28				

f Dry.

6N/34-13R1. M. O. Beauchamp. Dug domestic water-table well in alluvium, diameter 18 inches, depth 11 feet, cribbed with concrete tile. Land-surface datum is 646.87 feet above msl. Highest water level 3.47 below lsd, Aug. 8, 1933; lowest 9.88 below lsd, Sept. 26, 1952. Records available: 1933-52.

Jan. 31	7.51	May 17	6.91	Aug. 27	8.58	Oct. 30	9.30
Mar 7	8.79	June 23	6.16	Sept. 26	9.88	Nov. 29	6.39
Apr. 18	8.64	July 18	5.32				

6N/35-14L1. Conrad Miller. Dug unused water-table well in alluvium, diameter 7 feet, depth 15 feet, cribbed with concrete to 8. Land-surface datum is 789.76 feet above msl. Highest water level 3.48 below lsd, Mar. 12, 1940; lowest 10.97 below lsd, Aug. 11, 1945. Records available: 1933-52.

Jan. 31	9.33	May 17	8.72	Aug. 27	8.91	Oct. 30	8.47
Mar. 7	9.32	June 23	8.25	Sept. 26	8.34	Nov. 29	9.15
Apr. 18	10.04	July 18	10.07				

6N/35-20G1. McBride. Dug irrigation water-table well in gravel, size 5 by 5 feet, depth 18 feet. Land-surface datum is 736.32 feet above msl. Highest water level 1.08 below lsd, July 5, 1933; lowest 11.60 below lsd, Aug. 21, 1950. Records available: 1933-52.

Jan. 31	8.92	May 17	a20.98	Aug. 27	6.64	Oct. 30	6.11
Mar. 7	9.68	June 23	a20.92	Sept. 26	7.98	Nov. 29	4.36
Apr. 18	a21.51	July 18	2.73				

a Pumping.

6N/35-20Q1. R. P. Lile. Dug irrigation water-table well in gravel, size 5 by 5 feet, depth 38 feet. Land-surface datum is 762.89 feet above msl. Highest water level 22.18 below lsd, Aug. 7, 1951; lowest 38.83 below lsd, Mar. 3, 1949. Records available: 1933-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	36.97	May 17	29.12	Aug. 27	33.37	Oct. 30	29.69
Mar. 7	37.41	June 23	26.40	Sept. 26	35.82	Nov. 29	30.27
Apr. 18	37.32	July 18	26.60				

6N/35-24Q1. Everett Miller. Dug and drilled irrigation water-table well in gravel, size 6 by 6 feet to 10-inch diameter, depth 165 feet. Land-surface datum is 864.30 feet above msl. Highest water level 7.65 below lsd, July 29, 1948; lowest 24.10 below lsd, Aug. 11, 1936. Records available: 1933-52.

Jan. 31	11.03	May 17	9.96	Aug. 27	a17.61	Oct. 30	13.38
Mar. 7	11.18	June 23	a14.87	Sept. 26	12.23	Nov. 29	13.20
Apr. 18	9.57	July 18	15.86				

a Pumping.

6N/35-26C2. Earl Ransom. Dug and drilled irrigation water-table well in gravel, size 6 by 6 feet to 8-inch diameter, depth 46 feet. Land-surface datum is 867.12 feet above msl. Highest water level 7.81 below lsd, May 25, 1939; lowest 28.75 below lsd, Apr. 26, 1941. Records available: 1933-52.

Jan. 31	19.44	May 17	a14.77	Aug. 27	a17.65	Oct. 13	21.39
Mar. 7	24.29	June 23	10.67	Sept. 26	14.47	Nov. 29	20.40
Apr. 18	21.89	July 18	12.82				

a Pumping.

6N/35-28H1. W. J. Rand. Dug irrigation water-table well in gravel, size 4 by 4 feet, depth 16 feet, cribbed with wood to 12. Land-surface datum is 829.06 feet above msl. Highest water level 8.47 below lsd, June 5, 1945; lowest 17.21 below lsd, Feb. 10, 1942. Records available: 1933-52.

Jan. 31	16.13	June 23	9.29	Aug. 27	10.55	Oct. 30	9.85
Apr. 18	12.48	July 18	9.28	Sept. 26	10.42	Nov. 29	10.73
May 17	10.24						

6N/35-28N1. Lottie McKnight. Dug unused water-table well in alluvium, size 7 by 7 feet, depth 37 feet, concrete crib to 16. Land-surface datum is 817.01 feet above msl. Highest water level 5.20 below lsd, June 23, 1952; lowest 29.08 below lsd, Mar. 2, 1949. Records available: 1933-52.

Jan. 31	27.08	May 17	10.09	Aug. 27	18.22	Oct. 30	8.30
Mar. 7	26.63	June 23	5.20	Sept. 26	15.74	Nov. 29	12.46
Apr. 18	17.31	July 18	8.26				

6N/35-30M1. Thad Shepherd. Dug domestic water-table well in gravel, size 5 by 5 feet, depth 30 feet, concrete crib to 10. Land-surface datum is 687.21 feet above msl. Highest water level 11.10 below lsd, June 25, 1946; lowest 28.19 below lsd, Oct. 10, 1940. Records available: 1933-52.

Jan. 31	25.07	May 17	16.06	Aug. 27	24.62	Oct. 30	23.23
Mar. 7	25.79	June 23	14.31	Sept. 26	25.04	Nov. 29	12.53
Apr. 18	24.28	July 18	14.13				

6N/35-34C1. Alpha Reese Estate. Dug irrigation water-table well in gravel, size 8 by 8 feet, depth 54 feet, concrete crib to 20. Land-surface datum is 881.55 feet above msl. Highest water level 13.65 below lsd, May 24, 1939; lowest 52.63 below lsd, Jan. 31, 1952. Records available: 1933-52.

Jan. 31	52.63	May 17	25.87	Aug. 27	a43.62	Oct. 30	33.62
Mar. 7	50.47	June 23	a18.19	Sept. 26	37.54	Nov. 29	46.03
Apr. 18	47.12	July 18	27.46				

a Pumping.

6N/35-36C1. Mr. Redfern. Dug irrigation water-table well in gravel, size 5 by 5 feet, depth 40 feet, concrete crib to 25. Land-surface datum is 925.95 feet above msl. Highest water level 8.75 below lsd, June 12, 1950; lowest 40.75 below lsd, Apr. 11, 1942. Records available: 1933-52.

Jan. 31	35.69	May 17	14.27	July 18	a31.92	Oct. 30	34.24
Mar. 7	31.32	June 23	26.63	Aug. 27	33.08	Nov. 29	29.14
Apr. 18	20.60						

a Pumping.

6N/35-36H1. Walter Hermann. Dug domestic water-table well in gravel, size 4 by 4 feet, depth 44 feet, concrete crib to 18. Land-surface datum is 929.75 feet above msl. Highest water level 5.88 below lsd, June 20, 1933; lowest 42.80 below lsd, Apr. 11, 1941. Records available: 1933-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	29.67	Mar 17	36.28	June 12	11.17	Sept. 29	20.45
6	30.68	20	36.67	15	12.33	Oct. 4	20.55
10	30.34	24	37.15	17	12.82	10	20.35
13	30.95	26	37.32	23	15.09	15	21.30
17	31.52	28	37.34	26	15.07	19	22.67
21	32.12	Apr. 1	36.16	28	15.18	22	23.50
25	32.90	3	35.22	July 3	13.14	27	24.68
28	33.33	8	33.47	6	13.42	29	24.99
31	33.88	12	32.32	12	15.31	30	25.00
Feb. 1	33.95	15	30.93	15	14.48	Nov. 5	26.15
3	34.04	18	29.62	18	14.26	14	29.24
6	33.96	22	26.71	23	15.24	18	29.55
9	32.99	26	22.76	25	15.75	22	29.79
12	31.91	28	20.92	29	16.11	25	29.99
15	31.87	May 2	18.45	Aug. 6	16.78	28	30.26
19	32.53	7	16.55	8	17.31	29	30.39
25	33.79	9	15.70	13	17.28	Dec. 1	30.59
27	34.07	16	13.51	18	17.38	3	30.66
Mar. 1	34.42	17	13.48	24	17.17	8	30.88
4	34.72	20	13.51	30	17.11	16	31.13
7	35.10	24	13.04	Sept. 4	17.17	21	31.42
8	35.17	28	11.81	8	17.28	25	31.82
10	35.38	June 2	11.74	14	17.53	28	32.18
14	35.88	6	11.71	21	18.98		

Union County

1/38-24R1. H. L. Wagner. Drilled irrigation artesian well in basalt, diameter 12 to 8 inches, depth 1,150 feet, cased to bottom. Land-surface datum is about 2,735 feet above msl. Highest water level 107.0 above lsd, Dec. 30, 1951; lowest 53.0 above lsd, Aug. 13, 1951. Records available: 1950-52. Apr. 10, +106; June 23, +93; Sept. 10, +98; Dec. 28, +105.

1/39-17L1. A. F. Furman. Drilled domestic water-table well in sand, diameter 4 inches, depth 46 feet. Land-surface datum is about 2,735 feet above msl. Highest water level 12.97 below lsd, Apr. 10, 1952; lowest 25.55 below lsd, Oct. 21, 1942. Records available: 1940-52. Apr. 10, 12.97; June 23, 13.59; Sept. 10, 14.36; Dec. 28, 14.05.

3/38-10B1. Union County. Dug observation water-table well in sand and gravel, size 18 by 18 inches, depth 11 feet, wood crib to bottom, perforated 12-inch steel casing 7 to 10. Land-surface datum is 2,727.88 feet above msl. Highest water level 5.19 below lsd, Mar. 8, 1949; lowest 8.15 below lsd, Dec. 8, 1939. Records available: 1936, 1938-52.

Jan. 5	6.25	Mar. 27	5.59	June 15	6.41	Sept. 1	6.81
12	6.21	Apr. 5	5.65	22	6.31	10	6.69
19	6.18	10	5.87	23	6.34	11	6.67
26	5.65	12	5.89	29	6.20	20	6.74
Feb. 2	5.51	19	5.96	July 5	6.04	27	6.77
9	5.33	27	8.08	13	6.49	Oct. 4	6.85
16	5.72	May 3	6.08	20	6.52	11	6.91
23	5.69	10	5.81	27	6.62	18	6.85
Mar. 1	5.40	17	6.01	Aug. 3	6.64	23	6.82
8	5.72	24	6.20	10	6.67	27	6.77
15	5.64	June 1	6.47	17	6.73	Nov. 5	6.69
22	5.68	8	6.49	24	6.81	Dec. 28	6.11

3/38-25B1. Union County. Dug observation water-table well in sand and gravel, size 18 by 18 inches, depth 13 feet, wood crib to 12, perforated 12-inch steel casing 9 to 13. Land-surface datum is 2,706.83 feet above msl. Highest water level 6.07 below lsd, Mar. 16, 1948; lowest 11.49 below lsd, Oct. 10, 1940. Records available: 1936, 1938-52. Apr. 10, 7.86; June 22, 7.93; Sept. 10, 9.38; Dec. 28, 9.65.

Wasco County

1N/13-32G1. Milton Martin. Drilled irrigation artesian water-table well in basalt, diameter 8 inches, depth 336 feet, casing to 44. Land-surface datum is 1,170 feet above msl. Highest water level 183.5 above lsd, Dec. 27, 1952; lowest 24.5 above lsd, Aug. 18, 1951. Records available: 1946-52. June 26, +36, pumping; Sept. 12, +115; Dec. 27, +183.5.

1N/13-32H1. Earl Lash. Drilled irrigation and domestic artesian well in basalt, diameter 6 inches, depth 179 feet, casing to 65. Land-surface datum is about 1,200 feet above msl. Highest water level 57.8 above lsd, Mar. 16, 1951; lowest 29.7 above lsd, May 5, 1947. Records available: 1947-51. No measurement made in 1952.

1N/13-23D1. Cherry Hill District Improvement Co. Drilled irrigation well in Yakima basalt, diameter 12 to 10 inches, depth 301 feet, casing to 193. Land-surface datum is about 623 feet above msl. Highest water level 220 below lsd, Oct. 10, 1947; lowest 253 below lsd, Oct. 24, 1950. Records available: 1947-52. May 12, 244; June 26, 248; Sept. 11, 280, pumping; Dec. 27, 249.

2N/12-25R1. Ward Weber. Drilled irrigation water well in sandstone in the Dalles formation, diameter 8 inches, depth 443 feet, casing to 250. Land-surface datum is about 500 feet above msl. Highest water level 104.93 below lsd, Mar. 16, 1951; lowest 142.00 below lsd, Oct. 9, 1947. Records available: 1947-52. May 12, 110.76; June 25, 112.49; Sept. 12, 111.10.

Washington County

1/1W-21R1. Elinore Shively. Drilled domestic and stock artesian water well in basalt, diameter 6 inches, depth 145 feet, casing to 20. Land-surface datum is about 285 feet above msl. Highest water level 98.91 below lsd, May 5, 1948; lowest 130.36 below lsd, Sept. 27, 1952. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	118.39	July 1	120.97	Sept. 27	130.36	Nov. 28	124.67
Feb. 20	117.70	Aug. 1	126.80	Oct. 30	123.49	Dec. 23	120.0
Mar. 18	124.62	22	127.05				

Yamhill County

5/5W-13B1. George Fuller. Drilled domestic and stock artesian well in sand and gravel, diameter 7 inches, depth 64 feet. Land-surface datum is 151.09 feet above msl. Highest water level 9.54 below lsd, Jan. 13, 1936; lowest 35.78 below lsd, Sept. 13, 1951. Records available: 1928-30, 1935-36, 1938-52. Apr. 10, 13.32; July 1, 18.53; Sept. 10, 21.74; Dec. 23, 22.50.

UTAH

By H. A. Waite, W. B. Nelson, B. E. Lofgren, and R. G. Butler

Scope of Water-Level Program

The observation-well program in Utah, begun in 1935, was continued in 1952 in cooperation with the State Engineer. Investigations were continued in areas where water is pumped for irrigation purposes, namely, the Beryl-Enterprise and Milford districts of Escalante Valley, Cedar City Valley, Parowan Valley, Pavant Valley, Sevier Desert, and Beaver Valley. Ground-water investigations were also continued in the East Shore Area in cooperation with the Weber Basin Water Conservancy District. Detailed studies of the geology of the recharge areas in the vicinity of Pineview Reservoir in Ogden Valley were continued during the year as part of a cooperative program with the Utah Water and Power Board. A 354-foot test well on the north side of Pineview Reservoir was completed and a pumping test was conducted to determine performance characteristics. During the year measurements were made in 976 selected wells throughout 42 ground-water areas of the State. In addition, recording gages were operated in 39 wells. The records of 270 of these observation wells, including 19 recording gages, are given in this report. The distribution of the wells is shown in figure 21 . The records for the other observation wells listed in previous annual reports may be examined in the open file at the Utah district office of the Ground Water Branch, U S Geological Survey, 503 Federal Building, Salt Lake City. Some water-level measurements will be included from time to time in project reports that are published separately.

A report entitled "Status of development of selected ground-water basins in Utah" by H. E. Thomas, W. B. Nelson, B. E. Lofgren, and R. G. Butler was published as Technical Publication No. 7 of the State Engineer's 28th biennial report. A report entitled, "Index well in Ogden Valley," by H. E. Thomas was prepared as one of the series entitled "Ground-Water Notes." A paper entitled, "Deep water wells in Utah County, Utah," by H. E. Thomas, George H. Hansen, and Ben E. Lofgren, presented at the May meeting in Salt Lake City of the Rocky Mountain Section of the Geological Society of America, was published in abstract form in the December 1952 Bulletin of the Society.

Precipitation

The weather in Utah during 1952 was characterized by heavy snowfall and low temperatures in the early part of the year, followed by rapid runoff and major floods in the spring, a near-normal summer, and a warm, dry autumn. Irrigation water was plentiful, all storage reservoirs were filled, and Utah Lake and Great Salt Lake rose to their highest levels in decades as the result of Utah's greatest seasonal snowfall in its climatological history. In the autumn, however, Utah experienced one of its longest dry spells of record with no measurable precipitation being reported during the period from September 29 until about mid-November. A new record of 62 days with no rain was established at Salt Lake City Airport. According to records of the United States Weather Bureau, the precipitation in the State during 1952 was above normal in January, March, June, and August, and below normal for the other months. The State average of 12.20 inches for the year was about an inch less than normal. Warm dry weather during late summer, especially in the southern part of the State, was responsible for heavy pumping in many of the principal ground-water basins.

Pumpage

Pumpage was computed for five ground-water basins in Utah where wells are pumped for irrigation. The estimated total pumpage from 468 irrigation wells in these areas amounted to about 109,000 acre-feet. This quantity is believed to be at least 90 percent of the total pumpage from irrigation wells in Utah. However, it should be emphasized that flowing artesian wells constitute an important additional source of water in many parts of the State. The number of wells and the pumpage in acre-feet for several districts are shown in the following table:

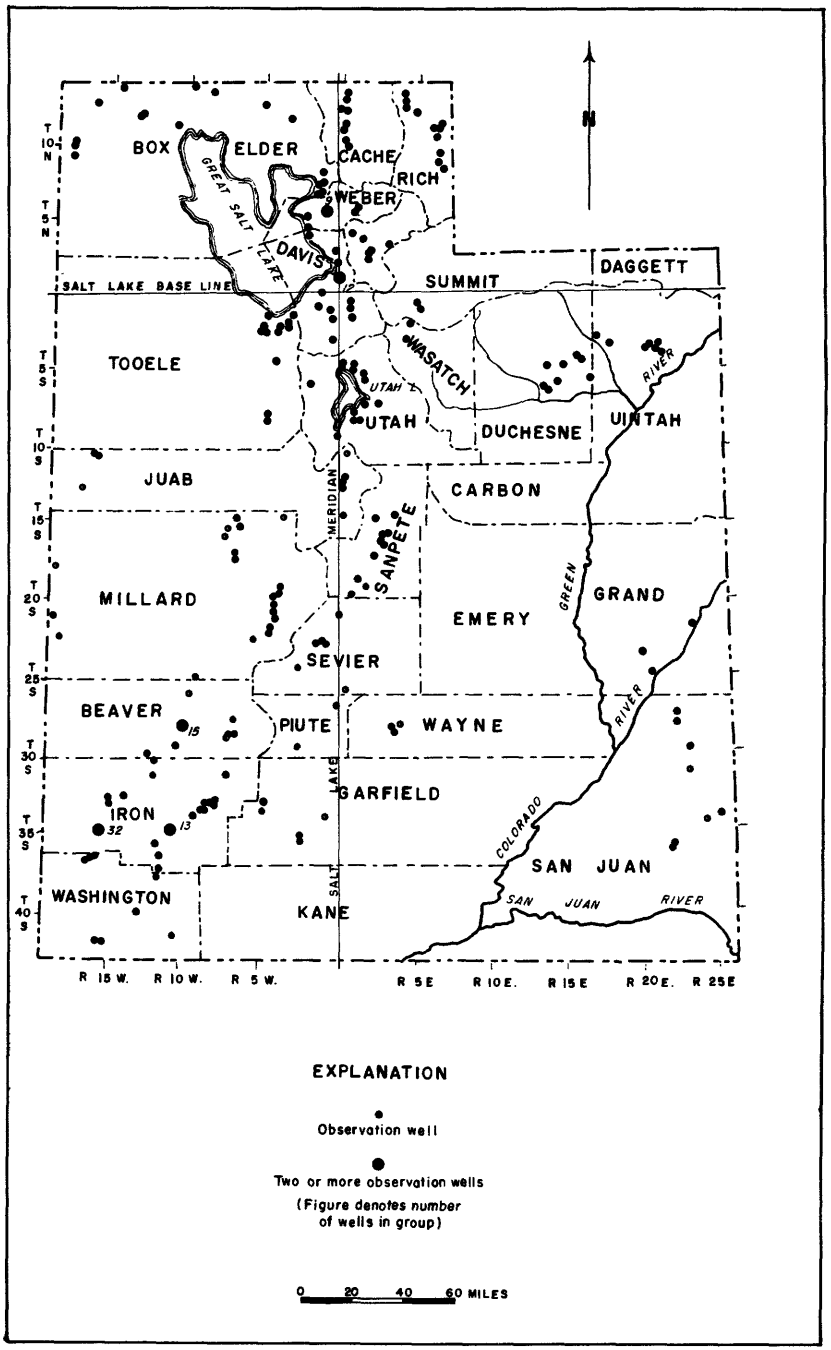


Figure 21.--Location of observation wells in Utah, 1952.

Estimated pumpage from wells for irrigation in several ground-water basins

Area	Number of pumped wells	Pumpage (acre-feet)
Escalante Valley		
Milford	132	32,700
Beryl-Enterprise	179	46,200
Cedar City Valley		
(excluding the Kanarraville area)		
Coal Creek	39	7,500
Iron Springs	8	1,800
Midvalley	5	500
Enoch	12	1,700
Parowan Valley		
Parowan	35	7,100
Little Salt Lake	9	2,100
Summit	8	1,300
Pavant Valley		
Pavant	8	900
Flowell	4	300
Meadow	5	400
Hatton	8	700
Kanosh	4	1,100
Sevier Desert		
Near Leamington	5	2,200
Near McCornick	7	2,900
Totals	468	109,400

Interpretation of Water-Level Fluctuations

Water levels in observation wells in the Weber Delta of the East Shore Area rose 2 to 18 feet during 1952, the highest stages during their respective periods of record. It is believed that these rises were caused by recharge derived from periods of overflow during flood stages of the Weber River in April and May. The water levels in some of the wells in Utah and Jordan valleys reached new highs at the end of the year. The hydrograph for Utah Valley well (D-5-1)14adb-1 (figure 22) showed a net rise of about 11 feet during the period from January 1, 1938 to December 31, 1952. The hydrograph for Jordan Valley well (D-2-1)4dbd-4 (figure 23) showed a net rise of about 12 feet during the period from January 1, 1935 to December 31, 1952. The hydrograph for Sanpete Valley well (D-16-3)32ddc-2 (figure 24) showed a rise during 1952 of about 12 feet and a rise of about 18 feet during the period from January 1, 1939 to December 31, 1952. The hydrograph of Tooele Valley well (C-2-4)33add-1 (figure 23) showed a net rise of about 13 feet from January 1, 1940 to December 31, 1952. The water level in this well rose from 1940 to 1947, inclusive, and thereafter remained relatively constant. The rise in artesian pressure in the Erda district is ascribed partly to recharge by water from the Elton tunnel, used for irrigation of lands 2 to 5 miles south and southeast of Erda. The recharge from this source is assumed to have reached a fairly uniform rate after 1947. Graphs in the East Shore Area are shown in figure 25.

In the Beryl-Enterprise and Milford districts of Escalante Valley water levels have continued to decline in nearly all wells in the area where irrigation wells are concentrated. The hydrograph of well (C-35-17)25cdd-1 in the Beryl-Enterprise district (figure 26) showed a net decline of 10 feet from January 1, 1936 to December 31, 1952. Similarly, the hydrograph of well (C-29-10)6ddc-1 in the Milford district (figure 24) showed a net decline of about 10 feet during the period from January 1, 1939 to December 31, 1952. Both wells are situated in heavily pumped areas and are affected by pumping for irrigation. Agricultural development in Escalante Valley is dependent to a large extent on pumping from wells for irrigation. Approximately 16,000 acres in the Beryl-Enterprise district and 9,000 acres in the Milford district are irrigated from wells. Both districts have been closed to further development by the State Engineer. Water levels in most wells in the Milford district declined from December 1945 to December 1952, the greater part of the decline occurred during the last 3 years. The amount of decline ranged from a few tenths of a foot in the outlying areas to as much as 10 feet in the heavily pumped areas. In 1952 water levels were approximately the same as they were during the drought years of the thirties. Water levels have declined 4 to 5 feet in an area of 9 square miles in the southeastern part of the district, and 3 to 4 feet in an additional area of about 7 square miles during the past 2 years. The area in which water levels have declined appreciably is relatively small in comparison with the total area of the ground-water basin in which the Milford district is situated. Declines of water

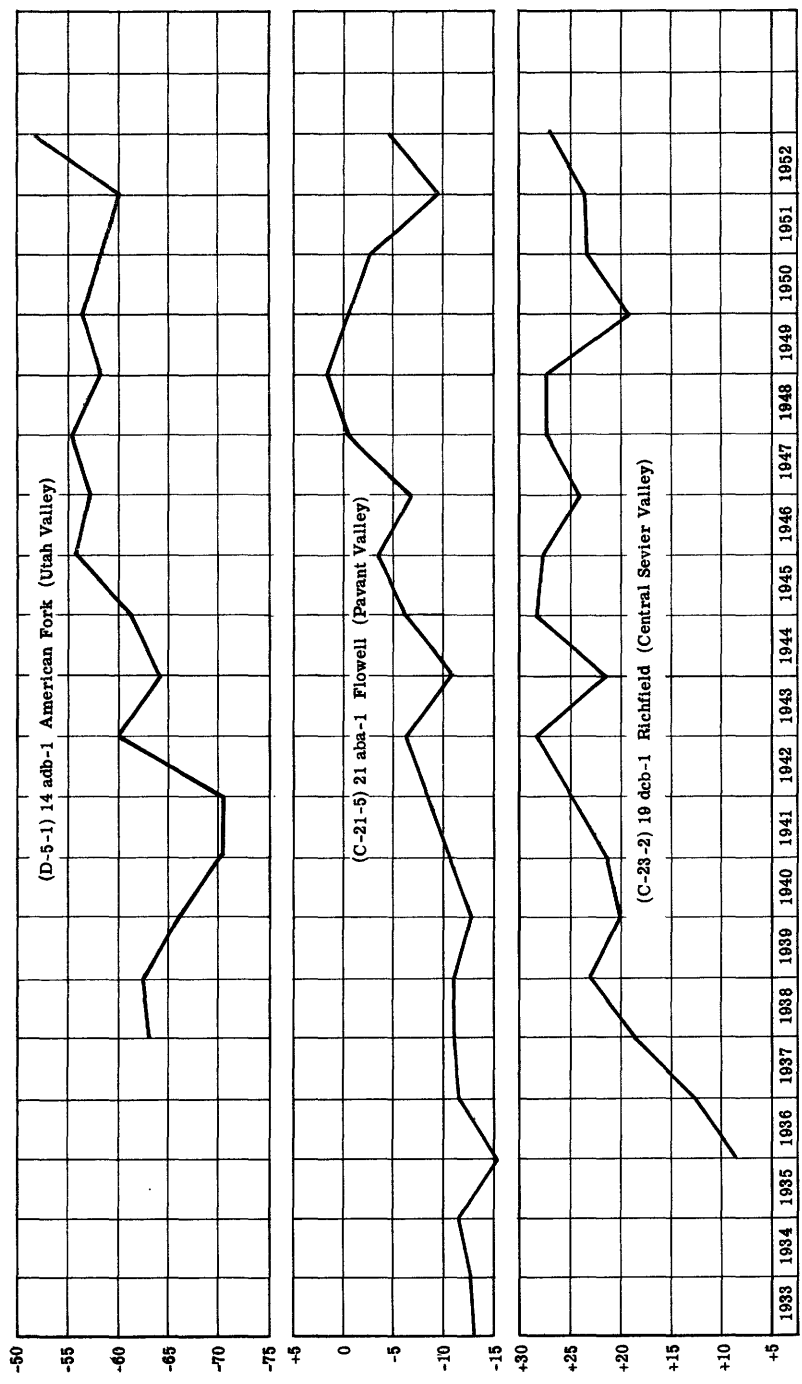


Figure 22. --Water levels in wells (D-5-1)14adb-1, Utah Valley, (C-21-5)21aba-1, Pavant Valley, and (C-23-2)19dcb-1, Central Sevier Valley, Utah.

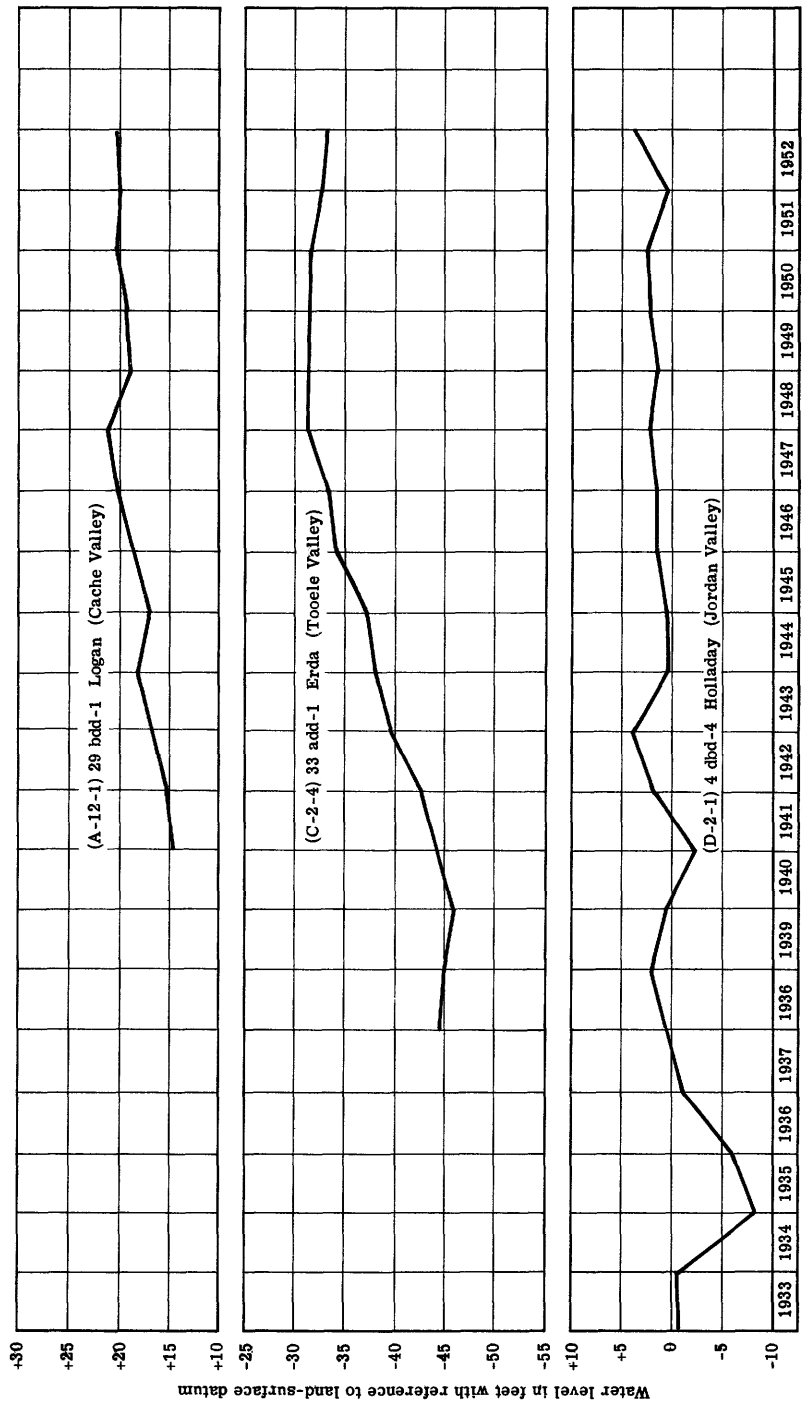


Figure 23.--Water levels in wells (A-12-1)29bdd-1, Cache Valley, (C-2-4)33add1, Tooele Valley, and (D-2-1)4dbd-4, Jordan Valley, Utah.

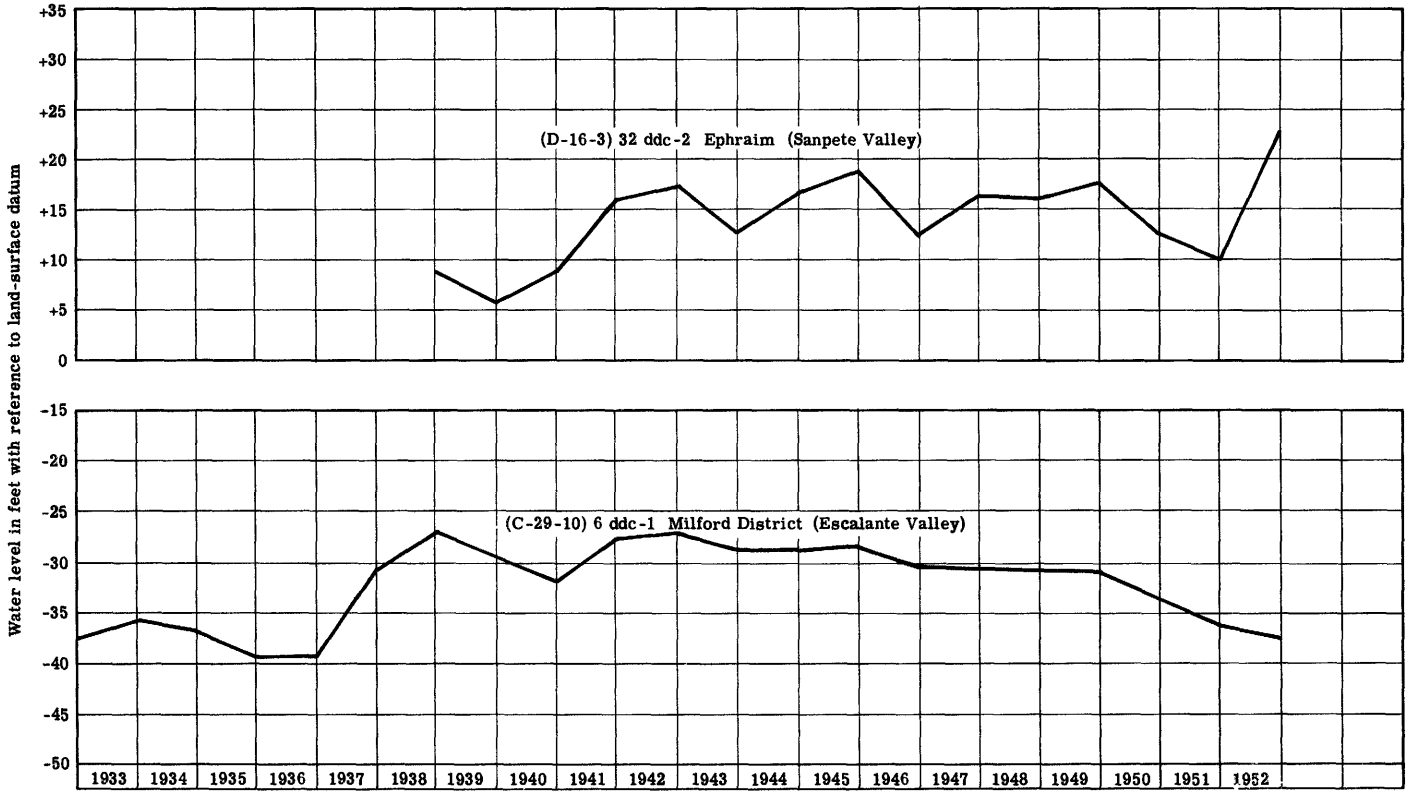


Figure 24. --Water levels in wells (D-16-3)32ddc-2, Sanpete Valley and (C-29-10)6ddc-1, Escalante Valley, Utah.

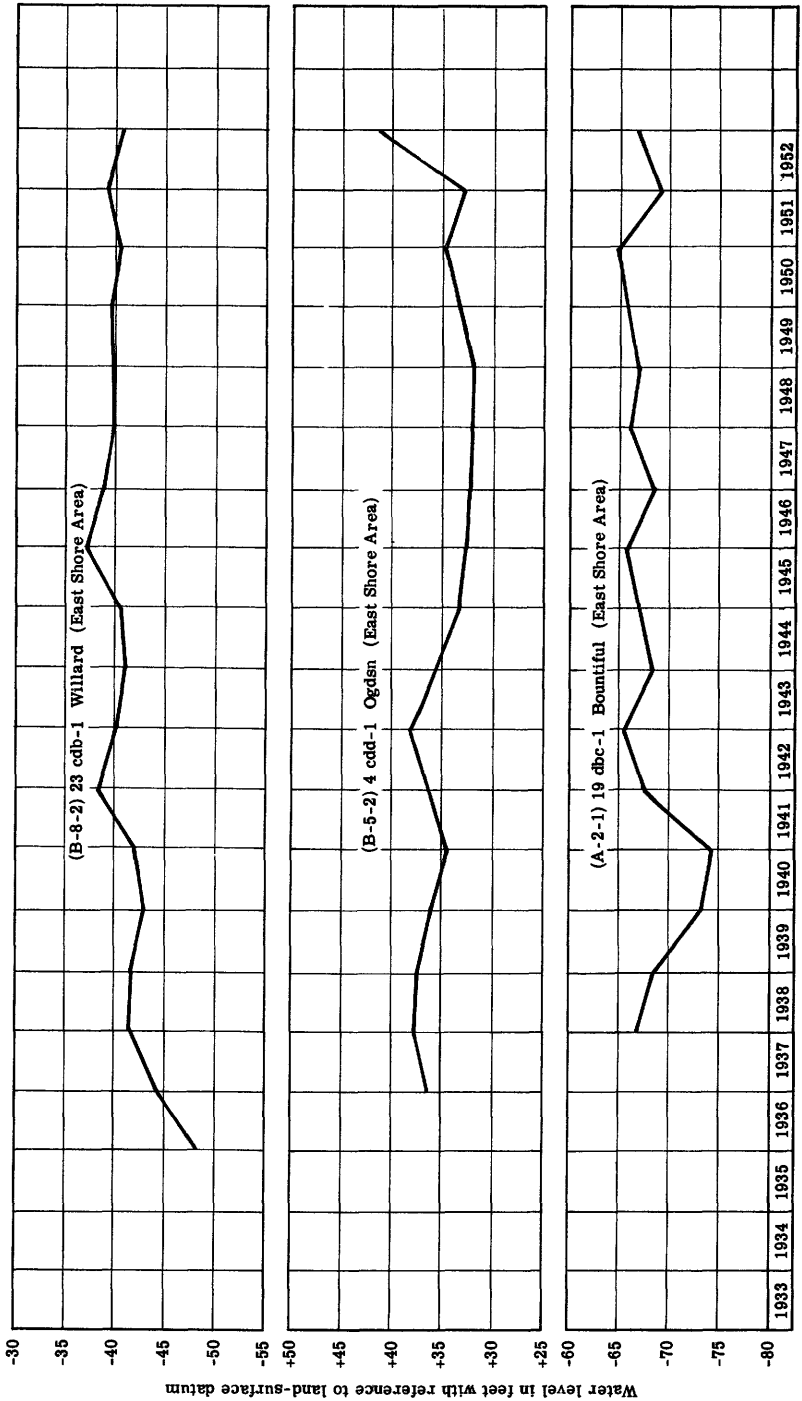


Figure 25.--Water levels in wells (B-8-2)23cdb-1, (B-5-2)4cdd-1, and (A-2-1)19dbc-1, East Shore Area, Utah.

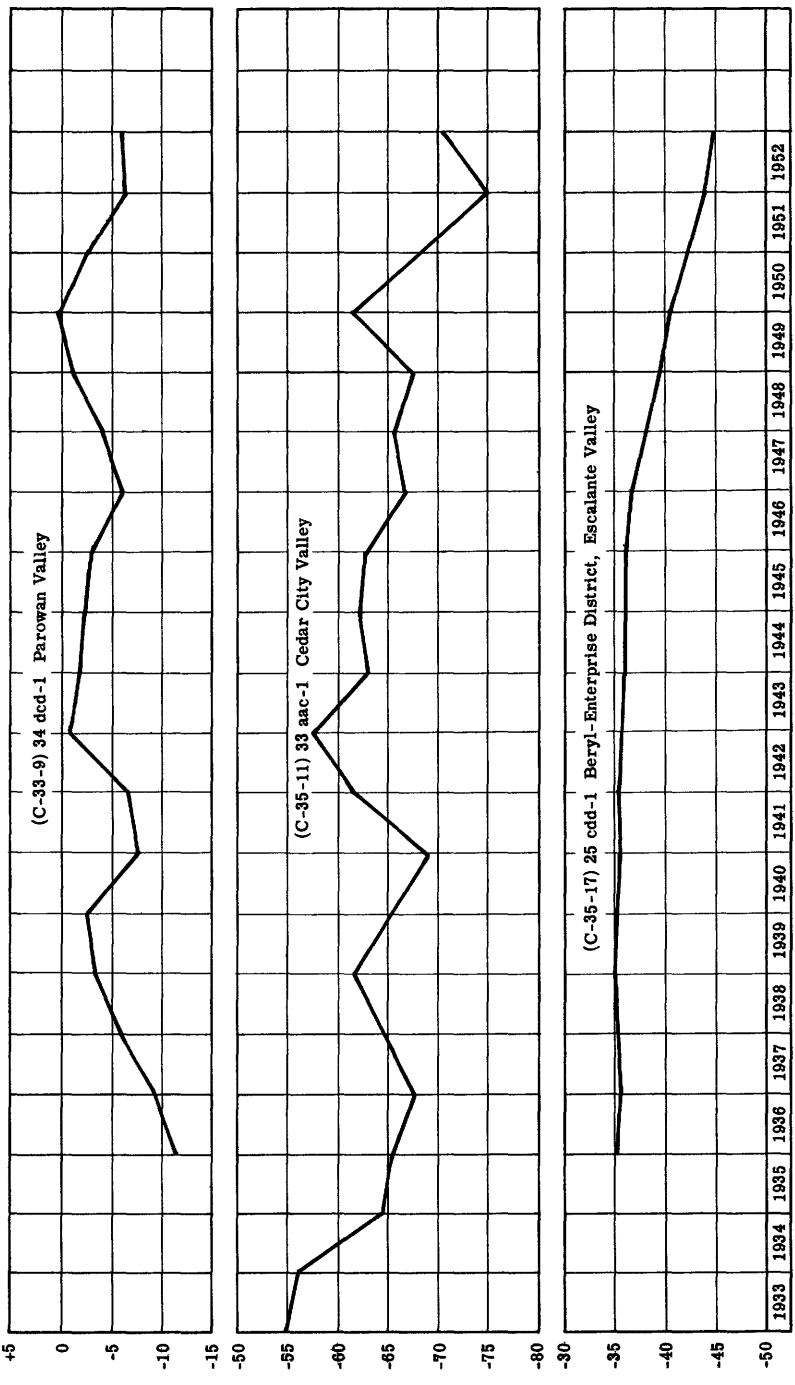


Figure 26.--Water levels in wells (C-33-9)34dcd-1, Parowan Valley, (C-35-11)33aac-1, Cedar City Valley, and (C-35-17)25cdd-1, Escalante Valley, Utah.

level in the Milford district were not so great during 1952 as they were during 1950 or 1951, despite the fact that the amount of pumping during each of the 3 years was about the same. Recharge from Beaver River, which traverses the district, was doubtless greater in 1952 as a result of unprecedented runoff from snowmelt in the late spring. In an area of about 4 square miles, water levels rose slightly during 1952. The amount of water pumped from wells in the Milford district from 1931 through 1944, ranged from 9,500 to 16,000 acre-feet annually. During the period from 1945 through 1952 the total annual discharge ranged from 18,000 to 32,000 acre-feet. The annual pumpage in each of the last 3 years has been more than 30,000 acre-feet. In addition to the water pumped from wells, large amounts of water are lost by evapotranspiration in areas of natural discharge in the western part of the valley. Water levels in most wells in the Beryl-Enterprise district continued to decline during 1952. There has been a gradual decline in water levels in most wells since 1945 when large-scale agricultural development started. The largest decline has been about 12 feet. Water-level measurements begun in 1948 in a number of newly drilled wells show that from December 1948 to December 1952 water levels declined from 7 to 8 feet in an area of 19 square miles. Water levels in wells about 18 miles north of Enterprise have also declined. The amount of water pumped annually from wells has increased from 5,800 acre-feet in 1945 to about 51,300 acre-feet. Since 1950 there has been a slight decrease in total pumpage in this district. High runoff in both Shoal Creek and Mountain Meadow Creek, ranging from 12,000 to 17,000 acre-feet, contributed significantly to ground-water recharge in the southern end of the Escalante Valley. The water level in some wells rose as much as 20 feet in 1952; within a radius of 2.5 miles of Enterprise water levels were from 0.2 to 10 feet higher than they were in December 1948. Practically all of the runoff from Shoal and Mountain Meadow Creeks was dissipated in a distance of 9 miles from Enterprise. The effect of this loss of stream flow was reflected in generally higher water levels in the district and pumping effects were lessened accordingly.

The amount of water pumped from wells for irrigation in Parowan Valley remains nearly constant from year to year because most of the lands are irrigated exclusively from wells. In general, water levels in wells are affected to a large extent by changes in the amount of recharge from year to year. However, pumping is known to stop the flow of many artesian wells during the summer, including some that may be several miles from the pumped wells. At the end of 1952, water levels in wells in the Parowan Valley were still above the low point reached in 1935, but were slightly below the average for their respective periods of record. Development in this area has not proceeded as far as it has in Cedar City Valley to the southwest. The amount of water pumped in 1952 from wells in Pavant Valley was less than the amount pumped in 1951, because, in general, surface-water supplies were more nearly adequate in 1952. At the end of 1952 in Cedar City Valley, the water levels in wells in the principal pumping district were lower than their minimum stage during the drought period of the 30's. Like other areas in the southwestern part of the United States, Cedar City Valley has been subjected to drought conditions during the past several years. This is also reflected in the low runoff of Coal Creek during the same period. The amount of water pumped from wells in Cedar City Valley is governed to some extent by the amount of water flowing in Coal Creek. When runoff is low there is generally an increase in the amount of water pumped from wells for irrigation. Water levels in wells have declined during the past several years in response to increased pumpage from wells.

Acknowledgments

Water-level records from several observation wells in Salt Lake Valley were furnished through informal cooperation with the Salt Lake City Corporation. Records of some observation wells in Wasatch County and 98 wells and 4 recording gages in the East Shore Area in Weber and Davis Counties were furnished by the Bureau of Reclamation.

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. 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. The designation of the township is enclosed in parentheses, and includes one of these letters, the number of the township, and the number of the range. Thus, in the number of the first well of the tabulation (C-26-10)32cad-1, 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 lowercase letters give the location of the well within the section, the first letter indicating the quarter section and succeeding letters showing the location within the quarter-section down to a 10-acre tract. Thus, number (C-26-10)32cad-1 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 manner, and are preceded by the letter U. The State claim or application number given is that used in records of the State Engineer; 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 completed since that date.

Well Descriptions and Water-Level Measurements

Water levels are in feet below land-surface datum unless otherwise indicated. When some measurements in a table are above and others below the plane of reference a plus (+) or minus (-) sign is placed immediately preceding the first entry in each column of each mixed table. Readings between minus (-) signs are below the plane of reference; those between plus (+) signs are above the plane of reference.

Beaver County

Beaver Valley

(C-28-7)21daa-1. E. F. Baldwin. Dug domestic water-table well in alluvium, diameter 48 to 36 inches, depth 30 feet. Land-surface datum is 6,149.1 feet above msl. Highest water level 6.75 below lsd, June 24, 1952; lowest 27.97 below lsd, Apr. 27, 1939. Records available: 1935-52. Mar. 31, 25.27; June 24, 6.75; Aug. 1, 9.90; Dec. 2, 18.36.

(C-29-7)21baa-1. State application 21717. John R. and J. Ellis Yardley. Drilled irrigation artesian well in alluvium, diameter 12 to 6 inches, depth 415 feet, cased to 380. Land-surface datum is 5,865.2 feet above msl. Highest water level 0.08 below lsd, June 24, 1952; lowest 25.84 below lsd, Feb. 4, 1936. Records available: 1935-52. Mar. 31, 25.77; May 23, 3.20; June 24, 0.08; Aug. 1, 0.88; Sept. 10, 6.37; Nov. 10, 16.41; Dec. 2, 20.99.

(C-29-7)19bcd-1. State application 21825. Frank Querry. Drilled irrigation artesian well in alluvium, diameter 16 inches, depth 256 feet, cased to 256, perforations 20-245. Highest water level 9.91 below lsd, Dec. 2, 1952; lowest 21.90 below lsd, Oct. 18, 1951. Records available: 1950-52. Mar. 31, 18.29; Dec. 2, 9.91.

(C-29-8)25cac-1. State claim 13115. Beaver School District. Drilled domestic artesian well in alluvium, diameter 2 inches, depth 290 feet, cased to 250. Highest water level 13.0 above lsd, June 29, 1938; lowest 11.1 above lsd, Dec. 5, 1950. Records available: 1936-52. Mar. 31, +11.9; Dec. 2, +11.6.

Escalante Valley

(For other wells in this valley see Iron, Millard, and Washington Counties.)

(C-26-10)32cad-1. State claim 10257. Burton Smithson. Dug and drilled unused artesian well in alluvium, diameter 48 to 1½ inches, depth 250 feet, cased to 250. Highest water level 11.50 below lsd, Mar. 10, 1948; lowest 17.55 below lsd, Oct. 24, 1939. Records available: 1936-52. Mar. 31, 12.48; Nov. 18, 13.93.

(C-28-10)8cdd-1. J. R. Murdock. Drilled stock water-table well in alluvium, diameter 6 inches, depth 14 feet, cased to 10. Land-surface datum is 4,958.6 feet above msl. Highest water level 1.06 below lsd, Apr. 8, 1943; lowest 4.69 below lsd, Aug. 31, 1948. Records available: 1940-52. Apr. 1, 1.72; Nov. 18, 3.55.

(C-28-10)18cbc-1. State application 17555. Carl Elmer. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 193 feet, cased to 193. Land-surface datum is 4,971.6 feet above msl. Highest water level 9.72 below lsd, Mar. 23, 1950; lowest 13.06 below lsd, Aug. 2, 1952. Records available: 1950-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	11.43	June 25	10.65	Oct. 7	12.02	Nov. 19	11.60
Apr. 1	9.85	Aug. 2	13.06	Nov. 1	10.78	Dec. 12	11.45
May 21	9.90	Sept. 10	12.37				

(C-28-10)19add-1. State claim 6564. Claus Marshal. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 65 feet, cased to 65, perforations 12-65. Land-surface datum is 4,973.9 feet above msl. Highest water level 1.81 below lsd, Mar. 27, 1948; lowest 12.18 below lsd, July 22, 1938. Records available: 1936-52. Mar. 31, 6.10; June 25, 27.6, pumping; Oct. 7, 10.00; Nov. 19, 8.92.

(C-28-10)32baa-2. Duane Yardley. Drilled unused water-table well in alluvium, diameter 6 inches. Land-surface datum is 4,998.40 feet above msl. Highest water level 10.18 below lsd, Apr. 23, 1951; lowest 23.68 below lsd, July 19, 1951. Records available: 1950-52.

(C-28-10)32baa-2 -- Continued.

Daily noon water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	13.87	Nov. 2	13.56	Nov. 20	13.17	Dec. 15	12.79
Mar 21	12.32	3	13.56	21	13.13	16	12.77
June 29	22.97	4	13.56	22	13.13	17	12.74
Oct. 7	14.86	5	13.52	23	13.11	18	12.71
22	13.89	6	13.49	24	13.08	21	13.68
23	13.88	7	13.46	25	13.08	22	13.67
24	13.84	8	13.43	26	13.08	23	13.68
25	13.81	14	13.26	27	13.05	24	13.67
26	13.79	15	13.21	Dec. 11	12.85	25	13.66
27	13.76	16	13.20	12	12.85	26	13.66
28	13.74	17	13.20	13	12.85	27	13.65
29	13.70	18	13.22	14	12.82	28	13.61
Nov. 1	13.57	19	13.22				

(C-28-10)32ccc-1. State claim 2040. Jack Hadley. Drilled unused water-table well in alluvium, diameter 14 to 12 inches, depth 72 feet, cased to 72. Land-surface datum is 5,013.5 feet above msl. Highest water level 14.93 below lsd, Aug. 8, 1939; lowest 29.45 below lsd, Aug. 31, 1951. Records available: 1938-42, 1950-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.48	.....	.....	.....	21.63	.....	22.93	.....	26.92	.....	25.11	.....
2	.....	.....	.....	22.93	21.74	.....	23.19	25.64	26.97	.....	25.09	.....
3	.....	.....	.....	22.94	21.89	.....	23.10	25.72	26.94	.....	25.07	.....
4	.....	.....	.....	22.92	21.90	.....	22.97	25.56	26.92	.....	25.04	.....
5	.....	.....	.....	22.90	21.23	.....	23.10	25.37	26.95	.....	25.01	.....
6	.....	.....	.....	22.88	20.72	.....	23.24	25.46	27.08	25.97	24.98	.....
7	.....	.....	.....	22.84	20.15	.....	23.38	25.54	27.22	25.93	24.96	.....
8	.....	.....	.....	22.87	20.19	.....	23.39	25.33	27.10	25.89	24.93	.....
9	.....	.....	.....	22.82	20.00	.....	23.41	25.44	27.17	25.86	.....	.....
10	.....	.....	.....	.....	19.90	.....	23.24	25.37	27.20	25.84	.....	.....
11	.....	.....	.....	.....	20.20	.....	23.48	25.51	.....	25.82	.....	24.22
12	.....	.....	.....	.....	20.80	.....	23.67	25.59	26.95	25.77	.....	24.21
13	.....	.....	.....	23.75	21.19	.....	23.95	25.69	26.79	25.73	24.78	24.20
14	.....	.....	.....	23.74	21.29	.....	.....	25.77	26.72	.....	24.75	24.17
15	.....	.....	.....	23.74	21.30	.....	24.42	25.77	26.68	25.67	24.73	24.14
16	.....	.....	.....	23.72	21.08	.....	24.54	25.79	26.67	25.62	24.71	24.12
17	.....	.....	.....	23.71	20.67	.....	24.66	25.86	26.78	25.59	24.70	24.10
18	.....	.....	.....	23.69	20.69	.....	25.00	25.98	26.59	25.55	24.69	24.08
19	.....	.....	.....	23.65	20.18	.....	25.16	26.08	.....	25.51	24.67	.....
20	.....	.....	.....	.....	.....	.....	25.37	26.01	.....	25.47	24.65	24.05
21	.....	.....	.....	.....	20.22	.....	25.54	26.04	.....	25.44	24.62	24.07
22	.....	.....	.....	.....	20.40	.....	25.48	26.16	.....	25.40	24.60	24.06
23	.....	.....	.....	.....	20.55	.....	25.10	26.27	26.42	.....	24.58	24.02
24	.....	.....	.....	.....	.....	.....	25.00	.....	.....	.....	24.55	24.00
25	.....	.....	.....	.....	.....	.....	25.18	.....	.....	.....	24.54	23.99
26	.....	.....	.....	.....	.....	22.12	25.24	.....	.....	.....	24.50	23.98
27	.....	.....	.....	.....	.....	22.32	25.38	26.63	.....	.....	24.38	23.95
28	.....	.....	.....	.....	.....	22.50	25.25	26.77	.....	.....	.....	.....
29	.....	.....	.....	.....	.....	22.68	25.30	26.69	.....	.....	.....	.....
30	.....		.....	21.56	.....	22.76	.....	26.78	.....	.....	.....	.....
31	.....		23.00		.....		.....	26.80		.....		.....

(C-28-11)22dab-1. Houston & Goff. Drilled stock water-table well in alluvium, diameter 8 inches, depth 72 feet. Land-surface datum is 5,004 feet above msl. Highest water level 29.90 below lsd, Dec. 7, 1951; lowest 33.45 below lsd, Nov. 19, 1952. Records available: 1941-52. Apr. 1, 31.90; Nov. 19, 33.45.

(C-28-11)24daa-1. State claim 11221. Leo Mayer. Drilled irrigation water-table well in alluvium, diameter 14 to 12 inches, depth 204 feet, cased to 204. Land-surface datum is 4,973.2 feet above msl. Highest water level 5.55 below lsd, Mar. 12, 1944; lowest 11.07 below lsd, Oct. 10, 1951. Records available: 1938-45, 1950-52. Apr. 1, 6.10; May 21, 6.80; Sept. 10, 27.0, pumping; Oct. 7, 9.81; Nov. 19, 9.35.

(C-28-11)36add-1. State claim 20233. George Smith. Drilled unused water-table well in alluvium, diameter 14 inches, depth 62 feet, cased to 62. Highest water level 6.74 below lsd, Mar. 12, 1944; lowest 21.34 below lsd, Aug. 28, 1952. Records available: 1938-52.

(C-28-11)36add-1 -- Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	14.92	Apr. 30	13.16	Aug. 28	21.34	Nov. 1	16.85
Feb. 29	13.50	May 21	14.52	Sept. 10	20.75	20	16.04
Mar. 31	12.80	June 26	18.10	Oct. 7	18.53	Dec. 10	15.43
Apr. 2	12.80	July 29	21.09				

(C-29-10)6ddc-1. State claim 13116. Wilford Thompson. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 73 feet, cased to 73. Land-surface datum is 5,033.0 feet above msl. Highest water level 25.72 below lsd, Nov. 11, 1938; lowest 40.99 below lsd, July 31, 1936. Records available: 1932-52.

Jan. 1	36.48	Aug. 2	40.20	Oct. 26	39.83	Nov. 19	37.48
Apr. 2	35.05	28	a43.98	Nov. 1	37.92	Dec. 10	37.04
May 21	35.40						

a Pumping.

(C-29-11)1add-1. State claim 10290. Orin Williams. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 58 feet, cased to 58, perforations 18-58. Land-surface datum is 5,014 feet above msl. Highest water level 17.62 below lsd, Mar. 10, 1943; lowest 30.56 below lsd, Sept. 17, 1935. Records available: 1935-52. Apr. 2, 23.25; June 26, 43.1, pumping; Oct. 7, 28.79; Nov. 18, 26.50.

(C-29-11)4baa-1. W. H. Child. Dug stock water-table well in alluvium, diameter 4 feet, depth 41 feet. Land-surface datum is 5,022.8 feet above msl. Highest water level 34.10 below lsd, Apr. 1, 1952; lowest 35.60 below lsd, Dec. 7, 1951. Records available: 1941-46, 1948-52. Apr. 1, 34.10; Sept. 18, 35.32.

(C-29-11)11cdd-2. State claim 7540. J. L. Shepherd. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 90 feet, cased to 90, perforations 56-62, 65-69, 78-90. Land-surface datum is 5,018.16 feet above msl. Highest water level 17.10 below lsd, Mar. 23, 1950; lowest 21.47 below lsd, Oct. 7, 1952. Records available: 1937-52. Jan. 1, 19.82; Apr. 1, 18.90; May 21, 20.11; June 28, 36.5, pumping; Oct. 7, 21.47; Nov. 18, 21.20.

(C-29-11)13add-1. State application 18004. Don Olmstead. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 276 feet, cased to 276. Land-surface datum is 5,042.8 feet above msl. Highest water level 33.15 below lsd, Apr. 28, 1948; lowest 41.55 below lsd, Oct. 7, 1952. Records available: 1947-52. Jan. 1, 38.35; Apr. 2, 37.64; May 21, 38.31; June 26, 51.7, pumping; Oct. 7, 41.55; Nov. 18, 40.85.

(C-29-11)22ddd-1. State claim 10667. P. V. Haworth. Drilled unused water-table well in alluvium, diameter 14 to 12 inches, depth 50 feet, cased with wood to 50. Land-surface datum is 5,035.2 feet above msl. Highest water level 24.88 below lsd, Mar. 19, 1947; lowest 29.42 below lsd, July 31, 1936. Records available: 1935-52.

Apr. 1	26.03	Aug. 1	28.03	Oct. 7	27.78	Nov. 20	27.06
May 21	27.37	28	28.12	Nov. 1	27.20	Dec. 11	27.13
June 28	28.57	Sept. 10	28.85				

(C-30-11)4cdd-1. Minersville Livestock Co. Drilled unused water-table well in alluvium, diameter 4 inches, depth 33 feet. Land-surface datum is 5,040.2 feet above msl. Highest water level 25.64 below lsd, Mar. 19, 1947; lowest 27.55 below lsd, Sept. 29, 1937. Records available: 1935-52. Apr. 3, 25.95; May 21, 25.79; Nov. 20, 26.30.

(C-30-13)34bbb-1. Cook Bros. Drilled unused water-table well in alluvium, diameter 14 inches, depth 69 feet, Land-surface datum is 5,087.80 feet above msl. Highest water level 45.64 below lsd, Apr. 23, 1949; lowest 46.03 below lsd, Nov. 26, 1944. Records available: 1940-50, 1952. Apr. 3, 45.72.

Box Elder County

East Shore area

(For other wells in this area see Davis and Weber Counties.)

(B-7-2)11baa-3. State claim 6409. Jack White. Drilled unused water-table well in alluvium, diameter 10 inches, depth 365 feet, cased to 365. Highest water level 25.50 below lsd, Aug. 29, 1949; lowest 37.42 below lsd, May 27, 1948. Records available: 1947-52. Jan. 11, 32.16; Apr. 15, 34.63; May 11, 33.78; Sept. 24, 24.97; Oct. 24, 26.08; Dec. 2, 27.60; Dec. 30, 29.70.

(B-7-2)11cda-1. State claim 1489. Parley Dean. Drilled unused artesian well in alluvium, diameter 10 inches, depth 186 feet, cased to 186, perforations 40-186. Land-surface datum is 4,301.65 feet above msl. Highest water level 15.83 below lsd, Sept. 24, 1952; lowest 20.95 below lsd, Oct. 8, 1936. Records available: 1936-52. Jan. 11, 18.35; Apr. 15, 18.80; Sept. 24, 15.83; Oct. 24, 16.36. Measurement discontinued.

(B-8-2)23cdb-1. State claims 1284 and 8126. Willard Water Co. Drilled irrigation artesian well in coarse gravel, diameter 13 to 10 inches, depth 255 feet, cased to 225, perforations 97-172, 180-197. Land-surface datum is 4,328.8 feet above msl. Highest water level 27.18 below lsd, June 14, 1946; lowest 50.44 below lsd, Oct. 29, 1935. Records available: 1935-52. Jan. 11, 40.72; Apr. 15, 40.03; May 11, 32.15; Sept. 24, 37.77; Oct. 24, 38.95; Dec. 2, 40.31; Dec. 30, 40.66.

(B-8-2)26cac-1. State claim 99. Geo. L. Braegger. Driven irrigation artesian well in alluvium, diameter 3 inches, depth 235 feet, cased to 230. Highest water level 32.0 above lsd, Sept. 24, 1952; lowest 16.15 above lsd, Oct. 3, 1935. Records available: 1935-45, 1951-52. Apr. 15, +30.9; Sept. 24, +32.0.

(B-9-2)35dcd-1. State claim 477. H. F. Hansen. Dug and drilled unused water-table well in alluvium, diameter 6 feet, depth 70 feet, concrete-lined to 55, 4-inch casing, 55-70. Land-surface datum is 4,353.9 feet above msl. Highest water level 30.05 below lsd, July 19, 1945; lowest 46.85 below lsd, Aug. 13, 1936. Records available: 1935-52.

Daily noon water level from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 24	32.50	Oct. 19	34.76	Nov. 13	37.50	Dec. 8	39.12
25	32.71	20	34.88	14	37.57	9	39.18
26	32.82	21	35.02	15	37.67	10	39.23
27	32.93	22	35.15	16	37.76	11	39.27
28	33.09	23	35.35	17	37.85	12	39.32
29	33.27	24	35.44	18	37.93	13	39.37
30	33.45	25	35.57	19	38.00	14	39.40
Oct. 1	33.64	26	35.69	20	38.11	15	39.44
2	33.65	27	35.83	21	38.15	16	39.46
3	33.50	28	35.95	22	38.21	17	39.50
4	33.58	29	36.05	23	38.26	18	39.53
5	33.46	30	36.17	24	38.30	19	39.58
6	33.30	31	36.28	25	38.38	20	39.65
7	33.14	Nov. 1	36.38	26	38.45	21	39.69
8	32.99	2	36.50	27	38.50	22	39.73
9	33.23	3	36.60	28	38.55	23	39.77
10	33.37	4	36.71	29	38.62	24	39.81
11	33.54	5	36.80	30	38.67	25	39.85
12	33.73	6	36.89	Dec. 1	38.73	26	39.89
13	33.92	7	36.98	2	38.79	27	39.93
14	34.04	8	37.08	3	38.85	28	39.97
15	34.20	9	37.17	4	38.92	29	40.00
16	34.34	10	37.28	5	38.95	30	40.04
17	34.49	11	37.36	6	39.00	31	40.07
18	34.62	12	37.43	7	39.06		

(B-12-4)11cb. State claim 14152. Adolph Harris. Drilled unused water-table well in alluvium, diameter 4 inches, depth 150 feet, cased to 150. Highest water level 112.90 below lsd, Aug. 27, 1951; lowest 130.75 below lsd, May 11, Oct. 8, 1936. Records available: 1936-52. Oct. 23, 113.10.

Blue Springs Valley

(B-13-5)17bca-1. State claim 3776. Ross A. Miller. Driven domestic and stock artesian well in alluvium, diameter 6 inches, depth 135 feet, cased to 135. Highest water level 59.75 below lsd, Aug. 27, 1951; lowest 94.50 below lsd, May 27, 1952. Records available: 1935-52. May 27, 94.50; Oct. 23, 64.15.

Curlew Valley

(B-12-11)16cdc-1. U. S. Bureau of Land Management. Drilled unused artesian well in gravel, diameter 8 inches, depth 126 feet, cased to 126. Highest water level 8.24 below lsd, Oct. 25, 1945; lowest 9.95 below lsd, Oct. 10, 1936. Records available: 1935-36, 1938-52. Oct. 24, 8.88.

(B-14-8)11ab. Bealy S. Cutler. Jetted stock artesian well in alluvium, diameter 4 inches, depth 73 feet. Highest water level 39.55 below lsd, Oct. 31, 1951; lowest 48.00 below lsd, Apr. 1, 1940. Records available: 1936-52. Aug. 27, 1951, 40.08; Oct. 31, 1951, 39.55; May 28, 1952, 40.40; Oct. 23, 1952, 40.76.

(B-14-9)10ada-1. Abe Rose. Driven domestic artesian well in alluvium, diameter 6 inches, depth 171 feet, cased to 135. Highest water level 96.00 below lsd, Nov. 15, 1950; lowest 100.50 below lsd, Apr. 6, 1939. Records available: 1936-42, 1944-52. May 28, 98.05; Oct. 23, 97.73.

Grouse Creek Valley

(B-10-18)28dcd-1. State application 13796. U. S. Bureau of Land Management. Drilled stock artesian well in alluvium, diameter 6 inches, depth 252 feet, cased to 210. Highest water level 118.60 below lsd, Sept. 29, 1939; lowest 120.66 below lsd, Oct. 23, 1944. Records available: 1939-52. Oct. 24, 118.73.

(B-11-18)23bb. Central Pacific Railroad. Dug unused water-table well in coarse gravel, diameter 4 feet, depth 27 feet. Highest water level 2.16 below lsd, June 9, 1952; lowest 23.68 below lsd, Oct. 10, 1936. Records available: 1936, 1939-52.

*Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	May	June	July	Aug.	Sept.	Oct.
1	18.69	18.96	19.20	.....	3.29	2.47	4.62	7.51	10.29
2	18.70	18.97	19.21	.....	2.84	2.48	4.59	7.64	10.43
3	18.70	18.98	19.22	.....	2.67	2.28	4.61	7.72	10.58
4	18.72	18.99	19.23	.....	2.65	2.66	4.92	7.80	10.67
5	18.72	18.99	19.24	.....	2.58	3.09	5.19	7.87	10.77
6	18.74	19.00	19.24	.....	2.49	3.35	5.40	7.93	.....
7	18.75	19.01	19.25	.....	2.43	3.54	5.57	8.00	.....
8	18.76	19.01	19.26	.....	2.36	3.71	5.73	8.18	.....
9	18.76	19.02	.....	.....	2.16	3.93	5.90	8.37	.....
10	18.77	19.03	.....	.....	2.19	4.08	6.05	8.56	.....
11	18.78	19.04	.....	.....	2.45	4.01	6.18	8.73	.....
12	18.79	19.05	.....	.....	3.05	3.55	6.33	8.91	.....
13	18.80	19.06	.....	.....	2.60	3.45	6.47	9.06	.....
14	18.81	19.07	.....	.....	2.44	3.21	6.62	9.19	.....
15	18.82	19.08	.....	.....	2.47	3.04	6.50	9.30	.....
16	18.82	19.09	.....	.....	2.60	3.03	6.32	9.41	.....
17	18.82	19.09	.....	.....	2.53	2.94	.....	9.51	.....
18	18.83	19.10	.....	.....	2.54	3.01	.....	9.60	.....
19	18.83	19.11	.....	.....	3.18	3.41	6.31	9.68	.....
20	18.86	19.12	.....	.....	3.49	3.81	6.44	9.76	.....
21	18.86	19.13	.....	.....	3.32	4.10	6.56	9.81	.....
22	18.87	19.13	.....	.....	3.33	4.38	6.67	9.84	.....
23	18.88	19.14	.....	.....	3.11	4.59	6.71	9.88	.....
24	18.89	19.15	.....	.....	2.75	4.77	6.77	9.95	.....
25	18.90	19.16	.....	.....	2.40	4.44	6.87	10.02	.....
26	18.91	19.16	.....	.....	2.62	4.20	6.91	10.06	.....
27	18.92	19.18	.....	.....	2.49	4.46	7.01	10.08	.....
28	18.92	19.18	.....	3.38	2.53	4.69	7.04	10.11	.....
29	18.94	19.19	.....	3.39	2.54	4.84	7.22	10.15	.....
30	18.94		.....	3.38	2.56	4.95	7.36	10.21	.....
31	18.95		.....	3.30		4.69	7.40		.....

*No record for April, November, and December.

(B-11-18)33ada-1. State application 18061. Ross Warburton. Drilled irrigation artesian well in alluvium, diameter 16 inches, depth 59 feet, cased to 59. Highest water level 20.05 below lsd, Oct. 24, 1952; lowest 30.42 below lsd, Oct. 23, 1948. Records available: 1948-52. Oct. 24, 20.05.

Park Valley

(B-12-14)2aa. Albert Hirschie. Dug unused water-table well in alluvium, diameter 4 feet, depth 16 feet, rock lined. Highest water level 7.18 below lsd, Nov. 1, 1951; lowest 11.75 below lsd, Sept. 29, 1939. Records available: 1936, 1938-52. Oct. 24, 8.62.

(B-13-14)25cb. J. Henry Kunzler. Dug domestic water-table well in alluvium, diameter 4 feet, depth 28 feet, lined with rock. Highest water level 9.30 below lsd, Aug. 6, 1942; lowest 16.26 below lsd, Oct. 9, 1940. Records available: 1936, 1938-52. Oct. 24, 14.98.

Raft River Valley

(B-13-17)1dab-1. State claim 18695. Lynn School District. Drilled domestic artesian well in valley fill, diameter 4 inches, depth 180 feet, cased to 180. Highest water level 19.30 below lsd, Aug. 28, 1951; lowest 24.15 below lsd, Oct. 22, 1948. Records available: 1948-52. Oct. 23, 22.96.

(B-14-15)3ddd-1. State claim 19482. Morris A. Smith. Dug domestic water-table well in alluvium, diameter 4 feet, depth 56 feet, lined with rock. Highest water level 28.80 below lsd, May 28, 1952; lowest 51.70 below lsd, Oct. 9, 1940. Records available: 1935-36, 1938-52. May 28, 28.80; Oct. 23, 48.99.

Cache County

Cache Valley

(A-10-1)4ab. O. H. Anderson. Drilled unused artesian well in alluvium, diameter 12 to 10 inches, depth 240 feet, cased to 240. Highest water level 8.53 below lsd, Oct. 7, 1948; lowest 10.50 below lsd, June 2, 1939. Records available: 1936-52. Apr. 14, 10.33; Oct. 22, 8.58.

(A-11-1)30bbd-2. State claim 18191. Wilford Ward. Jetted domestic artesian well in alluvium, diameter 2 inches, depth 200 feet. Highest water level 6.2 above lsd, Oct. 22, 1952; lowest 6.45 below lsd, June 24, 1940. Records available: 1936-52. Apr. 14, -1.48; Oct. 22, +6.2.

(A-12-1)29bdd-1. Arnold Nielsen. Drilled unused artesian well in alluvium, diameter 2 inches, depth 43 feet. Highest water level 22.9 above lsd, Sept. 25, 1950; lowest 13.6 above lsd, Aug. 24, 1940. Records available: 1940-52.

Daily noon water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.0	19.4	18.7	18.4	18.2	18.3	19.7	....	21.5	....	....	21.4
2	19.8	19.3	18.8	....	18.2	18.4	19.3	....	21.8	....	....	21.2
3	19.9	19.3	18.8	18.6	18.2	18.4	....	21.1	21.6	....	....	....
4	19.9	19.4	18.7	18.5	18.2	18.5	....	21.2	21.5	....	....	21.2
5	19.8	....	18.6	18.4	18.3	18.6	....	21.1	21.6	....	....	21.3
6	20.0	....	18.7	18.3	18.3	18.5	20.0	20.9	21.5	....	....	21.2
7	20.1	....	18.7	18.3	18.2	18.7	19.7	21.0	21.6	....	....	21.2
8	20.0	....	18.7	18.3	18.2	18.7	19.6	21.1	....	....	....	21.3
9	19.7	....	18.7	18.2	18.2	18.8	19.6	20.9	....	....	....	21.1
10	19.9	19.2	18.7	....	17.9	18.9	19.6	....	....	....	....	21.0
11	20.0	19.3	18.7	....	18.0	19.1	19.7	....	....	....	....	21.0
12	19.8	19.2	18.5	....	17.8	19.2	19.8	....	....	....	....	21.0
13	20.0	19.0	18.6	18.3	17.9	19.2	20.1	....	....	....	....	....
14	20.1	19.1	18.5	18.3	....	19.1	20.1	....	....	....	....	....
15	20.0	19.1	18.5	18.0	....	19.1	20.1	....	....	....	....	....
16	19.8	19.0	18.5	....	....	19.0	20.2	....	....	....	....	20.7
17	19.9	19.3	18.5	....	....	19.1	20.3	....	....	....	....	20.6
18	19.9	19.3	18.5	....	....	19.2	20.2	....	....	....	....	20.6
19	19.8	19.2	18.4	....	....	19.2	20.1	....	....	....	....	20.6
20	19.8	19.0	18.5	18.0	....	19.1	20.3	....	....	....	....	20.5
21	19.7	19.1	....	18.1	18.0	19.2	20.2	....	....	....	....	20.6
22	19.5	19.1	....	18.1	18.1	19.2	20.2	....	....	....	....	20.6
23	19.4	19.0	18.4	18.0	18.2	19.2	20.3	....	....	....	....	20.5
24	19.5	19.0	18.4	18.0	18.2	19.0	....	....	....	21.8	....	....
25	19.6	19.0	18.4	18.1	....	19.2	....	....	....	21.6	21.4	....
26	19.4	18.7	18.3	18.1	....	19.2	....	....	....	21.8	21.2	....
27	19.5	18.7	18.4	18.2	....	19.2	....	....	....	21.8	21.3	....
28	19.5	18.8	18.4	18.3	....	19.2	....	....	....	....	21.4	20.6
29	19.4	18.9	18.3	18.2	....	19.5	....	....	....	....	21.3	20.6
30	19.3		....	18.2	....	19.6	....	....	....	....	21.4	20.5
31	19.4		....		....		....	21.5		....		20.4

(A-12-1)31dab-1. State claim 2537. R. S. Painter. Drilled stock irrigation artesian well in alluvium, diameter 3 inches, depth 132 feet, cased to 132. Land-surface datum is 4,431.1 feet above msl. Highest water level 42.4 above lsd, Oct. 23, 1952; lowest 27.4 above lsd, Sept. 30, 1937. Records available: 1936-47, 1949-52. Apr. 14, +36.5; Oct. 23, +42.4.

(A-13-1)29bdb-1. State claim 1682. J. C. Cannell. Jetted stock artesian well in alluvium, diameter 2 inches, depth 106 feet, cased to 106. Highest water level 9.9 above lsd, Aug. 14, 1936; lowest 5.40 below lsd, Feb. 20, 1942. Records available: 1936-52. Apr. 14, -0.40; Oct. 22, +6.0.

(A-14-1)22bad-1. State claim 17652. C. B. Stoddard. Jetted stock artesian well in alluvium, diameter 3 inches, depth 114 feet. Land-surface datum is 4,467.36 feet above msl. Highest water level 13.5 above lsd, May 14, 1942; lowest 2.88 above lsd, Dec. 27, 1939. Records available: 1938-52. Apr. 14, +9.0; Oct. 22, +9.4.

(A-14-1)34adb-1. State claim 1373. Crockett Well Co. Drilled irrigation artesian well in alluvium, diameter 12 to 8 inches, depth 150 feet, cased to 100, perforations 10-68. Highest water level 3.76 below lsd, June 24, 1940; lowest 17.99 below lsd, Dec. 27, 1939. Records available: 1935-52. Apr. 14, 8.12; Oct. 22, 13.12.

(B-13-1)30acc-1. State claim 2757. E. R. Ballard. Jetted stock artesian well in fine gravel, diameter 2 inches, depth 90 feet, cased to 90. Highest water level 23.4 above lsd, Aug.9, 1949; lowest 15.7 above lsd, Mar. 6, 1936. Records available: 1936-52. Apr. 14, +21.5; Oct. 23, +23.0.

Davis County

East Shore area

(For other wells in this area see Box Elder and Weber Counties.)

Bountiful district

(A-2-1)6dcd-2. State claim 188. Zions Aid Society. Jetted domestic artesian well in alluvium, diameter $1\frac{3}{4}$ inches, depth 60 feet, cased to 60. Land-surface datum is 4,292.0 feet above msl. Highest water level 17.4 above lsd, June 10, 1947; lowest 10.0 above lsd, Dec. 13, 1948. Records available: 1946-52. Apr. 8, +11.8; Sept. 30, +12.4.

(A-2-1)7aba-4. State claim 14688. Kate M. Chase. Jetted domestic artesian well in alluvium, diameter 3 inches, depth 450 feet, cased to 450. Land-surface datum is 4,279.5 feet above msl. Highest water level 33.6 above lsd, June 10, 1947; lowest 19.1 above lsd, Dec. 13, 1948. Records available: 1946-51. No measurement made in 1952.

(A-2-1)7ddc-1. State claims 4989 and 8155. Centerville City Corp. Drilled municipal artesian well in alluvium, diameter 12 inches, depth 370 feet. Land-surface datum is 4,322.5 feet above msl. Highest water level 4.43 below lsd, June 17, 1947; lowest 13.16 below lsd, Apr. 4, 1946. Records available: 1939, 1945-52. Apr. 8, 11.21; Sept. 30, 7.56.

(A-2-1)17ccb-1. State claim 11318. Will Holbrook. Dug unused water-table well in alluvium, diameter 6 feet, depth 45 feet, cased to 45. Land-surface datum is 4,372.6 feet above msl. Highest water level 21.87 below lsd, Oct. 17, 1941; lowest 37.15 below lsd, Mar. 10, 1941. Records available: 1937-52. Apr. 8, 31.65.

(A-2-1)18abd. T. Q. Williams. Jetted unused artesian well in alluvium, diameter 2 inches, depth 90 feet, cased to 90. Highest water level 31.6 above lsd, June 9, 1944; lowest 10.2 above lsd, Aug. 16, 1940. Records available: 1938-52.

Daily noon water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	20.8	20.6	20.8	21.3	23.0	26.5	28.1	26.4	25.9	23.5	24.0	24.1
2	20.7	20.5	20.7	21.2	23.1	26.6	29.0	26.9	25.1	23.0	23.9	24.1
3	20.7	20.6	20.7	21.3	23.0	26.5	29.6	26.9	25.6	23.3	24.0	24.0
4	20.8	20.7	20.8	21.6	24.1	26.7	28.7	26.7	25.0	24.8	24.1	24.0
5	20.7	20.6	20.7	21.9	24.4	26.6	26.6	25.3	23.0	24.8	24.2	24.1
6	20.8	20.5	20.8	22.1	24.4	27.9	25.9	24.7	23.6	24.8	23.9	24.1
7	20.8	20.6	20.7	22.2	24.6	28.3	23.9	25.7	24.1	25.0	24.5	24.3
8	20.8	20.6	20.7	22.1	24.6	28.3	24.0	25.9	24.0	25.1	24.4	24.2
9	20.6	20.5	20.9	22.2	24.7	26.8	24.1	25.9	24.5	24.8	23.8	24.0
10	20.8	20.6	20.7	22.3	25.1	26.5	26.8	26.0	24.4	24.9	23.9	24.1
11	20.7	20.7	20.7	22.3	24.6	25.6	26.7	26.4	24.5	24.9	23.7	24.2
12	....	20.8	20.7	22.4	24.8	26.3	27.0	26.5	24.2	24.7	23.9	24.1
13	20.9	20.7	20.8	22.6	25.6	25.6	25.7	26.1	24.1	23.6	23.9	23.9
14	20.8	20.6	20.8	22.6	25.7	26.4	26.0	26.3	24.5	23.7	23.9	24.0
15	20.9	20.6	20.8	22.5	25.5	25.9	24.9	25.0	24.2	24.9	23.8	24.0
16	20.7	20.7	20.9	22.4	25.7	26.7	....	25.0	24.5	24.9	23.8	24.0
17	20.6	20.9	20.9	22.6	26.1	27.8	....	23.7	24.5	24.7	23.8	24.0
18	20.7	20.9	20.8	22.8	26.4	28.0	....	23.4	24.3	24.7	23.8	24.1
19	20.6	20.7	20.8	22.9	26.4	26.4	....	24.0	24.2	24.0	23.8	24.0
20	20.7	20.8	20.9	22.9	26.1	26.5	25.8	25.0	24.3	23.2	23.8	24.0

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	20.8	20.8	20.9	23.1	26.6	25.1	24.8	24.9	23.8	23.0	23.9	24.0
22	20.7	20.7	20.9	23.0	26.7	26.3	24.9	25.4	23.8	23.3	24.0	24.1
23	20.6	20.9	21.0	23.2	27.3	26.4	24.2	24.7	23.8	24.3	24.0	24.0
24	20.6	20.9	21.0	23.3	27.4	26.3	24.0	25.6	23.8	24.4	24.0	23.9
25	20.7	20.7	20.9	23.1	27.7	28.0	23.4	25.5	23.6	24.6	24.1	23.9
26	20.5	20.7	20.7	22.9	27.7	28.5	....	25.1	23.7	24.5	....	23.8
27	20.6	20.7	21.3	23.4	27.8	29.3	24.4	25.4	23.3	24.5	....	23.8
28	20.7	20.8	21.5	23.6	26.6	29.8	24.3	25.6	23.7	24.3	....	23.9
29	20.6	20.8	21.2	22.5	26.3	30.0	24.2	25.6	23.8	24.4	....	23.8
30	20.5		21.2	22.7	26.4	29.6	24.4	25.0	23.9	24.3	24.0	23.9
31	20.6		21.2		26.4		25.2	25.7		23.9		23.8

(A-2-1)19dbc-1. State claim 1447. Bountiful City Corp. Drilled municipal artesian well in alluvium, diameter 12 to 8 inches, depth 380 feet, cased to 380. Land-surface datum is 4,367.8 feet above msl. Highest water level 57.12 below lsd, May 31, 1938; lowest 74.01 below lsd, Nov. 28, 1940. Records available: 1937-52. Jan. 11, 69.37; Apr. 8, 69.15.

(B-2-1)24bad-3. State claim 2677. Clyde Jeppson. Jetted irrigation artesian well in alluvium, diameter 3 inches, depth 386 feet, cased to 386. Land-surface datum is 4,247.6 feet above msl. Highest water level 51.5 above lsd, June 6, 1949, May 12-13, 1950; lowest 40.2 above lsd, Aug. 4, 7, 22, 1946. Records available: 1945-52.

Daily noon water level above lsd from recorder graph

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	45.4	Feb. 2	45.1	Mar. 10	44.8	Apr. 3	44.9
2	45.2	3	44.8	11	44.9	4	45.1
3	45.3	4	45.0	12	44.7	5	45.2
7	45.5	5	45.1	13	44.6	6	45.0
13	45.2	6	44.8	14	44.8	7	45.8
14	45.4	7	45.7	15	44.9	8	45.4
15	45.5	8	44.8	16	44.9	9	45.3
16	45.3	9	44.9	17	44.7	10	45.4
17	45.2	10	44.8	18	44.9	11	45.6
18	45.2	11	45.7	19	45.2	12	45.7
19	45.3	12	44.8	20	44.9	13	45.3
20	45.4	13	43.5	21	44.8	14	45.3
21	45.2	14	43.5	23	44.9	15	45.4
22	45.1	17	44.7	24	45.0	16	45.5
23	45.0	18	44.8	25	45.2	17	45.1
24	45.0	19	45.0	26	44.9	18	46.4
25	45.2	29	45.1	27	44.9	19	46.6
26	45.1	Mar. 1	45.0	28	45.2	20	46.4
27	45.2	2	44.8	29	45.1	21	46.6
28	45.1	5	44.6	30	45.0	22	46.6
29	45.1	6	44.6	31	44.9	23	46.7
30	44.9	7	44.7	Apr. 1	45.1	24	46.8
31	45.0	8	44.8	2	45.0	25	46.8
Feb. 1	45.1	9	44.8				

(B-2-1)24bad-5. State claim 11382. George Mann. Jetted unused artesian well in alluvium, diameter 2 inches. Land-surface datum is 4,250.6 feet above msl. Highest water level 32.9 above lsd, Apr. 5-7, 13, 15-16, 1950; lowest 16.1 above lsd, July 23, 1946. Records available: 1946-52.

Daily noon water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.3	28.7	....	29.1	....	25.6	24.7	23.0	22.7	24.2	25.4	28.3
2	29.3	28.6	28.6	29.1	....	26.7	23.7	23.4	23.1	24.5	25.6	28.0
3	29.0	28.6	28.6	29.0	....	25.5	22.8	24.0	23.1	24.9	25.9	28.0
4	29.1	28.7	28.8	29.0	29.0	25.7	22.8	23.7	22.7	25.0	26.5	27.9
5	29.0	27.8	28.8	29.1	29.7	25.6	22.4	22.8	22.6	24.3	26.6	28.0
6	29.0	28.5	28.5	29.1	27.8	25.5	21.7	22.7	23.1	24.8	26.8	28.0
7	29.2	28.1	28.6	29.1	28.0	24.4	22.3	22.7	23.5	24.7	26.6	28.2
8	29.3	28.6	28.6	29.5	28.1	23.0	21.9	22.2	23.4	25.0	26.7	28.0
9	29.2	28.5	28.6	29.5	28.5	23.6	22.0	22.0	23.5	25.0	26.6	28.0
10	29.1	28.5	28.8	28.6	28.8	23.0	21.7	23.1	23.4	24.9	26.8	27.9

(B-2-1)24bad-5 -- Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	29.1	27.8	29.0	28.6	28.5	23.0	22.0	23.9	23.2	24.8	26.5	27.8
12	28.9	27.9	28.8	28.6	27.1	22.0	22.0	23.6	23.5	24.6	26.6	27.8
13	38.9	27.8	28.9	29.7	28.3	22.1	21.7	23.1	23.7	24.7	26.7	28.2
14	29.1	27.8	28.9	30.0	28.0	21.8	21.8	22.2	23.6	24.9	26.5	28.4
15	29.2	27.8	28.8	30.0	27.6	21.7	21.9	22.2	23.1	25.7	27.0	28.6
16	29.0	28.7	28.8	29.9	27.7	21.8	22.2	21.9	24.0	25.4	27.0	28.7
17	28.9	28.7	29.0	30.0	28.6	22.2	21.6	21.6	24.4	25.3	27.2	28.7
18	28.9	27.8	29.0	30.0	28.8	22.0	21.3	21.9	24.6	25.1	27.2	28.7
19	28.7	28.9	28.9	30.1	28.6	22.1	21.9	22.0	24.5	25.6	27.3	28.6
20	27.9	28.7	28.8	30.1	27.6	21.6	21.5	21.6	24.6	25.8	27.2	28.6
21	28.0	28.7	28.7	30.3	29.1	21.9	21.8	21.7	24.3	25.7	27.3	28.8
22	28.0	28.7	28.8	30.4	29.5	22.1	21.4	21.8	23.8	25.9	27.3	28.9
23	28.8	28.6	28.9	30.2	29.3	22.9	22.3	22.1	23.7	26.1	27.6	28.8
24	28.7	....	29.1	30.4	29.9	22.9	22.1	22.1	24.1	26.1	27.8	28.7
25	28.7	....	29.0	30.6	30.0	24.1	21.9	22.3	24.3	25.7	27.0	28.6
26	28.6	....	29.0	30.4	30.1	25.2	21.3	22.4	24.2	....	27.1	28.6
27	28.6	....	28.9	30.4	29.5	26.1	21.3	22.6	....	....	27.8	28.4
28	28.7	....	29.0	30.5	28.0	26.5	21.7	22.5	24.7	....	27.7	28.4
29	27.9	....	29.0	30.4	27.9	26.3	21.8	22.5	24.7	....	27.9	28.6
30	28.7		29.1	30.0	27.3	25.8	21.9	22.2	24.4	....	28.1	28.7
31	28.7		29.1		27.1		22.2	22.5		25.8		28.6

(B-2-1)25caa-4. Adolphus Ellis. Jetted unused artesian well in alluvium, diameter 2 inches. Land-surface datum is 4,305 feet above msl. Highest water level 6.19 below lsd, Sept. 3, 1947; lowest 10.89 below lsd, May 21, 1936. Records available: 1936, 1946-52. Apr. 8, 10.16.

(B-2-1)26aad-1. State claim 3656. N. L. Starrs. Jetted domestic artesian well in alluvium, diameter 3 inches, depth 250 feet, cased to 250. Land-surface datum is 4,243.4 feet above msl. Highest water level 51.5 above lsd, Jan. 1, 1943; lowest 38.55 above lsd, Aug. 3, 1939. Records available: 1936-52. Apr. 8,+45.5; Sept. 30,+47.4; Oct. 20,+47.6; Nov. 21,+48.0; Dec. 18,+48.3.

(B-2-1)36bad-2. State claim 4550. M. P. Parkin. Jetted unused artesian well in alluvium, diameter 2 inches, depth 85 feet, cased to 85. Land-surface datum is 4,307.9 feet above msl. Highest water level 12.00 below lsd, June 27, 1950; lowest 22.98 below lsd, Mar. 16, 1936. Records available: 1936-52. Apr. 8, 17.32; Sept. 30, 12.92; Oct. 20, 13.92; Nov. 21, 14.31; Dec. 18, 14.16.

(B-2-1)36bbd-1. State claim 951. Anna I. Lemon. Jetted irrigation artesian well in alluvium, diameter 3 inches, depth 167 feet, cased to 167. Land-surface datum is 4,281.8 feet above msl. Highest water level 14.6 above lsd, June 17, 1942; lowest 0.5 above lsd, Sept. 19, 1940. Records available: 1931, 1934, 1936-52. Mar. 26,+10.9

Layton district

(B-3-1)15aab-1. State claim 8156. Haights Bench Irrigation Co. Drilled unused artesian well in alluvium, diameter 12 to 8 inches, depth 720 feet, cased to 635. Land-surface datum is 4,282.9 feet above msl. Highest water level 12.63 below lsd, Dec. 18, 1952; lowest 16.35 below lsd, Dec. 11, 1935. Records available: 1935-52. Jan. 11, 12.93; Apr. 9, 12.76; Apr. 30, 12.88; Oct. 1, 13.09; Oct. 17, 12.90; Nov. 21, 12.77; Dec. 18, 12.63.

(B-4-1)34cbc-3. State claim 14733. Kaysville Canning Corp. Jetted industrial artesian well in alluvium, diameter 4 inches, depth 350 feet. Land-surface datum is 4,295.5 feet above msl. Highest water level 0.40 above lsd, Jan. 11, 1952; lowest 4.52 below lsd, May 26, 1946. Records available: 1937-52. Jan. 11, +0.40; Apr. 9, +0.35; Apr. 30, -0.17.

(B-5-3)36ada-1. State claim 3074. Mary Stoddard. Jetted domestic artesian well in alluvium, diameter 3 inches, depth 460 feet, cased to 460, perforations 360-380, 430-450. Land-surface datum is 4,227.02 feet above msl. Highest water level 36.0 above lsd, Dec. 17, 1952; lowest 18.2 above lsd, June 25, 1936. Records available: 1935-52. Jan. 11,+33.5; Apr. 9, +33.6; Oct. 1,+33.9; Oct. 16,+34.2; Nov. 21,+35.5; Dec. 17,+36.0.

Duchesne County

Uinta basin
(For other wells in this basin see Uintah County.)

U(C-1-2)4adc-1. State claim 8162. C. A. Brown. Drilled domestic artesian well in sand, diameter 6 inches, depth 400 feet, cased to 25. Highest water level 13.35 below lsd, Oct. 14, 1947; lowest 17.55 below lsd, Oct. 27, 1952. Records available: 1936-49, 1951-52. Oct. 27, 17.55

U(C-1-2)15bbc-1. State claim 2152. R. M. Clark. Driven domestic and stock artesian well in alluvium, diameter $\frac{3}{4}$ inch, depth 100 feet, cased to 100. Highest water level 14.3 above lsd, Apr. 4, 1949; lowest 10.1 above lsd, Oct. 3, 1949. Records available: 1935-52. Oct. 27, +11.1.

U(C-1-3)28dcd-1. D. H. Allred. Drilled unused artesian well in alluvium, diameter 5 inches, depth 30 feet. Highest water level 4.57 below lsd, Oct. 13, 1947; lowest 9.52 below lsd, Sept. 23, 1940. Records available: 1939-52. Oct. 27, 5.33.

U(C-1-4)28dcc-1. State claim 8170. State of Utah. Drilled domestic artesian well in alluvium, diameter 10 to 6 inches, depth 600 feet, cased to 345. Highest water level 2.72 below lsd, Apr. 4, 1949; lowest 10.09 below lsd, Oct. 4, 1948. Records available: 1939-52. Oct. 27, 7.15.

U(C-2-1)22bcb-1. State claim 958. Stephen Wogac. Drilled domestic artesian well in coarse sand, diameter 6 inches, depth 426 feet, cased to 80. Highest water level 50.7 above lsd, Oct. 30, 1936; lowest 15.48 below lsd, Oct. 27, 1952. Records available: 1935-43, 1945-47, 1949-52. Oct. 27, 15.48.

U(C-2-3)33ccd-1. Eldon B. Thompson. Drilled stock artesian well in alluvium, diameter 2 inches, depth 200 feet, cased to 200. Highest water level 6.35 above lsd, Sept. 6, 1939; lowest 1.95 above lsd, Nov. 7, 1950. Records available: 1939-52. Oct. 27, +3.48.

U(C-3-4)7cad-1. Knight Investment Co. Drilled unused artesian well in alluvium, diameter 6 inches, depth 402 feet, cased to 177. Highest water level 92.16 below lsd, Aug. 1, 1942; lowest 102.33 below lsd, Sept. 5, 1939. Records available: 1936, 1939-40, 1942-52. Oct. 27, 101.95.

U(C-3-4)21aaa-1. Knight Investment Co. Drilled unused artesian well in alluvium, diameter 4 inches, depth 261 feet, cased to 261. Highest water level 90.73 below lsd, Oct. 28, 1936; lowest 128.21 below lsd, Oct. 8, 1951. Records available: 1936-52. Oct. 27, 128.06.

Garfield County

East Sevier Valley

(C-34-2)22dab-1. State claim 8173. State of Utah. Drilled unused artesian well in sandstone, diameter 6 inches, depth 339 feet, cased to 198. Highest water level 149.63 below lsd, Dec. 9, 1949; lowest 176.80 below lsd, Dec. 10, 1947. Records available: 1947-52. Apr. 5, 166.98; Dec. 6, 166.96.

(C-36-3)6dba-1. State application 16993. Civil Aeronautics Administration. Drilled domestic artesian well in alluvium, diameter 6 inches, depth 83 feet, cased to 83. Highest water level 22.70 below lsd, Nov. 8, 1949; lowest 62.70 below lsd, Mar. 25, 1947. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 16	31.17	Mar. 19	32.81	Apr. 29	31.70	Nov. 6	30.30
Feb. 17	32.01	27	34.11	June 18	32.59	Dec. 6	29.58
Mar. 3	33.30	Apr. 5	34.41	Aug. 4	32.30	12	29.17
9	33.49	6	33.21				

(C-36-3)7aac-1. Lillie Stead. Dug domestic water-table well in alluvium, diameter 6 feet, depth 13 feet, lined with rock. Highest water level 1.69 below lsd, Mar. 17, 1942; lowest 10.54 below lsd, Mar. 25, 1951. Records available: 1938-52. Apr. 5, 3.15; Dec. 6, 6.82.

Upper Sevier Valley

(C-33-5)28bcd-1. State application 11739. Annie Wilcock. Drilled domestic artesian well in alluvium, diameter 6 inches, depth 200 feet. Highest water level 42.60 below lsd, July 20, 1948; lowest 52.30 below lsd, Dec. 9, 1951. Records available: 1937-52. Apr. 6, 50.83; Dec. 7, 46.31.

(C-34-5)8adb-2. D. W. Woodard. Driven unused artesian well in alluvium, diameter 5 inches, depth 93 feet, cased to 93, perforations 77-93. Highest water level 9.95 below lsd, Aug. 24, 1937; lowest 20.15 below lsd, Feb. 9, 1937. Records available: 1935-52. Apr. 6, 18.44; Dec. 7, 14.58.

Grand County

Colorado River area - Courthouse Syncline

(D-24-20)22bac-1. State application 13068. U. S. Bureau of Land Management. Drilled unused water-table well in alluvium, diameter 6 inches, depth 52 feet, cased to 41, perforations 19. Highest water level 10.97 below lsd, Dec. 1, 1943; lowest 12.84 below lsd, Aug. 7, 1951. Records available: 1942-44, 1946-52. July 7, 12.77.

Green River Desert

(D-22-24)29cbc-1. State application 13068. U. S. Bureau of Land Management. Drilled unused water-table well in Morrison formation, diameter 8 inches, depth 160 feet, cased to 30. Highest water level 16.80 below lsd, Mar. 31, 1949; lowest 23.11 below lsd, Nov. 1, 1951. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 4	19.85	Apr. 27	18.37	July 30	21.76	Nov. 26	21.62
29	19.08	June 4	19.37	Sept. 3	22.31	Dec. 29	21.30
Mar. 31	18.28	27	20.57	Oct. 3	22.19		

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. Drilled unused water-table well in alluvium, diameter 8 inches, depth 67 feet. Highest water level 34.95 below lsd, June 28, 1952; lowest 38.35 below lsd, Dec. 31, 1952. Records available: 1946-52.

Feb. 3	37.77	Apr. 29	37.00	July 31	35.50	Nov. 26	37.29
Mar. 1	37.81	June 4	35.78	Sept. 4	36.19	Dec. 31	38.35
Apr. 2	37.77	28	34.95	Oct. 3	36.68		

Iron County

Cedar City Valley

(C-34-11)36cbc-2. State Claim 10820. George D. Grimshaw. Drilled unused water-table well in alluvium, diameter 8 inches, depth 195 feet, cased to 195, perforations 18-160. Land-surface datum is 5,448.1 feet above msl. Highest water level 16.38 below lsd, June 17, 1938; lowest 22.65 below lsd, Dec. 4, 1952. Records available: 1937-52. Apr. 3, 1949; Dec. 4, 22.65.

(C-34-11)9cdc-1. D. C. Evans. Jetted unused water-table well in alluvium, diameter 4 inches, depth 61 feet. Land-surface datum is 5,402.3 feet above msl. Highest water level 21.53 below lsd, May 9, 1939; lowest 22.91 below lsd, Mar. 24, 1941. Records available: 1938-52. Apr. 2, 21.99; Dec. 3, 22.56.

(C-35-10)18cbb-1. Richard Williams. Drilled unused water-table well in alluvium, diameter 10 inches, depth 112 feet. Highest water level 41.95 below lsd, Mar. 22, 1943; lowest 73.23 below lsd, Aug. 31, 1951. Records available: 1937-52.

Jan. 3	54.67	Apr. 4	50.64	July 2	59.68	Sept. 3	73.14
Feb. 5	53.00	May 5	50.11	9	71.05	Oct. 7	64.66
Mar. 5	51.82	28	63.50	Aug. 5	69.12	Nov. 6	58.33
20	48.26	June 4	67.00	23	72.82	Dec. 5	54.98

(C-35-11)8cdd-1. State claim 13703. Charles L. Corry. Drilled unused artesian well in alluvium, diameter 6 inches, depth 130 feet, cased to 130, perforations 115-130. Land-surface datum is 5,489.5 feet above msl. Highest water level 8.26 below lsd, Mar. 23, 1943; lowest 28.80 below lsd, Aug. 31, 1951. Records available: 1937-52.

Jan. 3	16.19	Apr. 2	14.64	July 2	19.97	Nov. 6	19.30
Feb. 5	15.54	4	14.72	Aug. 5	25.73	Dec. 4	15.64
12	15.36	May 5	13.68	Sept. 3	25.70	5	15.77
Mar. 5	14.47	June 4	18.87	Oct. 7	22.20		

(C-35-11)15aac-1. State claim 1220. H. D. Haight. Drilled stock artesian well in alluvium, diameter 7 inches, depth 145 feet, cased to 145. Land-surface datum is 5,502.7 feet above msl. Highest water level 5.27 below lsd, June 28, 1938; lowest 10.74 below lsd, Feb. 5, 1952. Records available: 1937-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	9.50	Apr. 4	9.86	Aug. 1	6.30	Nov. 6	8.10
Feb. 5	10.74	May 5	9.32	5	6.50	Dec. 4	8.43
Mar. 5	9.86	June 4	5.82	Sept. 3	7.07	5	8.30
Apr. 3	9.87	July 2	7.22	Oct. 7	7.82		

(C-35-11)21dbd-1. State claim 1222. Ezra Rollo. Drilled unused water-table well in alluvium, diameter 12 to 10 inches, depth 228 feet. Land-surface datum is 5,533.25 feet above msl. Highest water level 20.48 below lsd, Oct. 19, 1943; lowest 31.81 below lsd, Oct. 31, Nov. 30, 1951. Records available: 1939-52.

Jan. 27	31.52	Apr. 30	30.45	Aug. 1	30.27	Oct. 23	30.57
Feb. 29	31.21	May 27	29.37	Sept. 1	30.19	Dec. 4	29.80
Apr. 1	30.84	July 1	29.40	Oct. 1	30.54		

(C-35-11)21dcc-1. State claim 11599. Wilford R. Fife. Drilled irrigation artesian well in alluvium, diameter 12 inches, depth 180 feet, cased to 95. Land-surface datum is 5,538.56 feet above msl. Highest water level 22.90 below lsd, Dec. 15, 1943; lowest 40.60 below lsd, Aug. 23, 1951. Records available: 1931-52. Apr. 3, 34.24; July 31, 51.4, pumping; Sept. 13, 37.90; Dec. 4, 33.87.

(C-35-11)27acc-1. State claim 382. Fernleigh Gardner. Drilled irrigation artesian well in coarse gravel, diameter 12 inches, depth 114 feet, cased to 113, perforations 47-54, 74-76, 89-113. Land-surface datum is 5,553.00 feet above msl. Highest water level 30.14 below lsd, June 25, 1942; lowest 52.42 below lsd, Nov. 30, 1951. Records available: 1931-52.

Jan. 3	49.40	Apr. 4	46.44	Aug. 1	a55.30	Oct. 7	48.38
Feb. 5	48.25	May 5	45.19	5	a55.48	Dec. 4	45.90
Mar. 5	47.00	June 4	45.11	Sept. 3	a56.70	5	45.83
Apr. 3	46.47	July 2	45.70	13	a56.60		

a Pumping.

(C-35-11)31acd-1. State claim 13498. Heber C. Jenson. Drilled unused artesian well in alluvium, diameter 12 inches, depth 248 feet, cased to 248, perforations 81-87, 168-175, 200-202, 222-227, 242-248. Highest water level 15.3 below lsd, Mar. 30, 1933; lowest 39.72 below lsd, Aug. 5, 1952. Records available: 1930-52.

Jan. 3	31.63	Apr. 4	28.26	Aug. 5	39.72	Nov. 6	33.40
Feb. 5	30.03	May 5	27.30	Sept. 3	38.92	Dec. 4	27.60
Mar. 5	29.00	June 4	26.67	Oct. 7	35.45	5	27.48
Apr. 2	28.23	July 2	30.66				

(C-35-11)33aac-1. State claim 5126. Cottonwood Pump and Irrigation Co. Drilled irrigation water-table well, diameter 16 inches, depth 138 feet, cased to 136, perforations 52-136. Land-surface datum is 5,576.65 feet above msl. Highest water level 55.70 below lsd, Mar. 22, 1943; lowest 80.86 below lsd, Oct. 7, 1952. Records available: 1930-52.

Jan. 3	73.66	Apr. 3	69.94	June 4	65.80	Oct. 7	80.86
Feb. 5	72.04	4	70.96	July 31	a114.00	Nov. 6	72.76
13	71.78	May 5	68.82	Sept. 13	a117.00	Dec. 5	70.40
Mar. 5	70.89						

a Pumping.

(C-35-12)34dcd-1. State claim 4873. R. J. and W. M. Shay. Drilled unused artesian well in alluvium, diameter 12 inches, depth 120 feet, casing to 120, perforations 12-120. Land-surface datum is 5,485.38 feet above msl. Highest water level 15.00 below lsd, Apr. 17, 1937; lowest 17.65 below lsd, Dec. 4, 1952. Records available: 1936-52. Apr. 4, 16.46; Dec. 4, 17.65.

(C-36-11)8aab-1. State claim 13494. Leonard Hargrave. Drilled domestic and stock water-table well in alluvium, diameter 10 inches, depth 105 feet, cased to 105, perforations 55-105. Land-surface datum is 5,562.5 feet above msl. Highest water level 45.67 below lsd, Mar. 23, 1943; lowest 68.07 below lsd, Oct. 3, 1951. Records available: 1935-52.

Jan. 3	61.31	Apr. 4	57.80	Aug. 5	65.00	Nov. 6	60.35
Feb. 5	59.50	May 5	55.76	Sept. 3	61.51	Dec. 4	58.01
Mar. 5	57.92	June 4	55.04	Oct. 7	60.88	5	58.07
Apr. 2	57.60	July 2	58.00				

(C-36-12)12dba-1. State claim 15411. Branch Agricultural College. Drilled irrigation artesian well in alluvium, diameter 10 to 8 inches, depth 600 feet, cased to 600, perforations 200-600. Highest water level 10.35 below lsd, Mar. 23, 1943; lowest 22.77 below lsd, Oct. 31, 1951. Records available: 1936-52.

(C-36-12)12dba-1 -- Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	17.00	Apr. 4	17.56	July 31	a44.70	Dec. 4	18.65
Feb. 5	14.80	May 5	15.76	Oct. 7	21.84	5	19.07
Mar. 5	13.66	June 4	16.10	Nov. 6	21.09		

a Pumping.

(C-36-12)20ddc-1. State claim 13516. E. L., H. D., and L. M. Jones. Jetted unused artesian well in alluvium, diameter 2 inches. Land-surface datum is 5,475.7 feet above msl. Highest water level 1.50 below lsd, Mar. 23, 1950; lowest 3.05 below lsd, Dec. 2, 1940. Records available: 1940-52. Apr. 4, 2.42; Dec. 5, 2.51.

(C-37-12)11dbc-1. State claim 20452. Oliver Berkhelder. Drilled unused water-table well in alluvium, diameter 12 inches, depth 24 feet. Land-surface datum is 5,480.8 feet above msl. Highest water level 6.12 below lsd, Apr. 4, 1952; lowest 10.30 below lsd, Dec. 2, 1940. Records available: 1938-52. Apr. 4, 6.12; Dec. 5, 9.34.

(C-38-12)3bcb-1. State application 12845. Ford & Williams. Drilled irrigation water-table well in alluvium, diameter 12 inches, depth 210 feet, cased to 210. Land-surface datum is 5,481.65 feet above msl. Highest water level 65.08 below lsd, Dec. 8, 1945; lowest 71.15 below lsd, Mar. 22, 1941. Records available: 1937-52. Apr. 4, 68.07; Dec. 5, 66.53.

Escalante Valley

(For other wells in this valley see Beaver, Millard, and Washington Counties.)

(C-31-13)1a-1. State claim 6486. Cook Bros. Drilled unused water-table well in alluvium, diameter 12 inches, depth 114 feet. Land-surface datum is 5,071.23 feet above msl. Highest water level 27.48 below lsd, Mar. 20, 1947; lowest 28.66 below lsd, Dec. 10, 1942. Records available: 1938-51. No measurement made in 1952.

(C-32-12)6cbb-1. Geo. A. Lowe, Jr. Dug stock water-table well in alluvium, diameter 5 feet, depth 69 feet, cased to 60. Highest water level 59.92 below lsd, Oct. 11, 1945; lowest 60.36 below lsd, Mar. 15, 1943. Records available: 1940-45, 1948-52. Nov. 20, 60.31.

(C-33-15)12aaa-1. State of Utah. Dug unused water-table well in alluvium, diameter 12 inches, depth 18 feet. Land-surface datum is 5,110.7 feet above msl. Highest water level 15.53 below lsd, Nov. 20, 1952; lowest 17.10 below lsd, May 5, 1939. Records available: 1939-43, 1945-52. Nov. 20, 15.53.

(C-33-15)19bba. Latter Day Saints Church. Drilled stock water-table well in alluvium, diameter 6 inches. Land-surface datum is 5,201 feet above msl. Highest water level 85.00 below lsd, July 11, 1949, Dec. 12, 1950; lowest 85.34 below lsd, Sept. 29, 1950, July 11, 1951, Nov. 20, 1952. Records available: 1949-52. Apr. 3, 85.18; Nov. 20, 85.34.

(C-33-15)31cbb-1. Jesse Carlson. Drilled domestic water-table well in alluvium, diameter 8 inches, depth 53 feet, Colorado casing. Highest water level 25.17 below lsd, Oct. 13, 1951; lowest 26.98 below lsd, Oct. 10, 1946. Records available: 1936-52. Nov. 20, 25.22.

(C-34-14)31ccc-1. U. S. Geol. Survey. Drilled unused water-table well in alluvium, diameter 2 inches, depth 20 feet, cased to 3. Land-surface datum is 5,127.4 feet above msl. Highest water level 12.32 below lsd, Apr. 5, 1952; lowest 15.26 below lsd, Aug. 29, 1946. Records available: 1939-43, 1945-52. Apr. 5, 12.32; Oct. 8, 13.62.

(C-34-16)9cbc-1. Augustus Lott. Drilled unused water table well in alluvium, diameter 10 inches, depth 18 feet. Land-surface datum is 5,131.7 feet above msl. Highest water level 6.11 below lsd, Apr. 3, 1952; lowest 9.12 below lsd, Dec. 13, 1943. Records available: 1937-52. Apr. 3, 6.11; July 2, 6.74; Sept. 18, 7.16; Oct. 8, 7.30; Nov. 20, 7.60.

(C-34-16)28bcc-2. I. M. Matson. Drilled unused water-table well in alluvium, diameter 12 inches, depth 67 feet, perforations 0-67. Land-surface datum is 5,134.4 feet above msl. Highest water level 8.97 below lsd, May 25, 1937; lowest 13.30 below lsd, Oct. 8, 1952. Records available: 1935-52. Apr. 3, 11.18; Sept. 18, 12.40; Oct. 8, 13.30; Nov. 23, 12.00.

(C-34-16)29ccc-1. State application 16524. Monte Miller. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 203 feet, cased to 203. Land-surface datum is 5,141.4 feet above msl. Highest water level 9.85 below lsd, Dec. 9, 1949; lowest 12.85 below lsd, Oct. 13, 1951. Records available: 1949-52. Sept. 16, 55.50, pumping; Nov. 23, 12.25.

(C-34-16)33cdc-2. Utah Land Security. Drilled unused water-table well in alluvium, diameter 6 inches, depth 37 feet. Land-surface datum is 5,141.5 feet above msl. Highest water level 12.06 below lsd, Mar. 31, 1945; lowest 18.32 below lsd, Oct. 13, 1951. Records available: 1939-45, 1948-52. Apr. 3, 14.97; Sept. 16, 16.40; Nov. 23, 16.40.

(C-34-17)24cbb-1. State claim 6835. Marvin H. Hughes. Drilled unused water-table well in alluvium, diameter 8 inches, depth 40 feet, cased to 40, perforations 0-40. Land-surface datum is 5,150.7 feet above msl. Highest water level 14.15 below lsd, Mar. 16, 1943; lowest 16.69 below lsd, Sept. 10, 1949. Records available: 1937-45, 1949-51. No measurement made in 1952.

(C-35-12)18ddd-2. State claim 11258. Columbia Steel Co. Drilled unused water-table well in alluvium, diameter 10 inches, depth 44 feet. Land-surface datum is 5,385.2 feet above msl. Highest water level 10.57 below lsd, May 8, 1939; lowest 13.50 below lsd, Nov. 24, 1952. Records available: 1935-52. Apr. 5, 11.95; Nov. 24, 13.50.

(C-35-15)3dcc-2. State claim 3788. E. J. Graff. Drilled irrigation artesian well in alluvium, diameter 16 inches, depth 350 feet, cased to 350, perforations 60-136, 260-280, 285-308. Land-surface datum is 5,138.37 feet above msl. Highest water level 10.60 below lsd, Apr. 19, 1949; lowest 16.83 below lsd, Apr. 30, 1946. Records available: 1936-52. Apr. 5, 13.45; Sept. 17, 14.70; Nov. 22, 13.58.

(C-35-15)6cdd-1. Frank Bridel. Drilled unused water-table well in alluvium, diameter 12 inches, depth 170 feet. Land-surface datum is 5,139.0 feet above msl. Highest water level 11.40 below lsd, May 23, 1937; lowest 14.92 below lsd, Oct. 13, 1951. Records available: 1936-52. Sept. 17, 14.65; Nov. 22, 14.58.

(C-35-15)10bdc-2. State application 12134. Walter Martin. Drilled irrigation artesian well in alluvium, diameter 18 inches, depth 271 feet. Highest water level 13.88 below lsd, Apr. 21, 1942; lowest 19.33 below lsd, Aug. 25, 1938. Records available: 1936-45, 1949-52. Sept. 17, 44.1, pumping; Nov. 22, 15.22.

(C-35-15)16ddd-1. State application 12838. Kumen Jones. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 315 feet, cased to 315, perforations 50-252. Land-surface datum is 5,156.3 feet above msl. Highest water level 23.96 below lsd, Mar. 28, 1950; lowest 27.15 below lsd, Aug. 8, 1950. Records available: 1949-52. Apr. 5, 25.00; Sept. 17, 27.10; Nov. 22, 25.50.

(C-35-15)28bdc-1. State application 15593. E. J. Graff. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 180 feet, cased to 180. Highest water level 31.30 below lsd, June 12, 1950; lowest 41.75 below lsd, Nov. 22, 1952. Records available: 1949-52. Nov. 22, 41.75.

(C-35-16)6ccc-2. Emily Jones. Drilled unused water-table well in alluvium, diameter 8 inches, depth 60 feet, cased to 60. Land-surface datum is 5,154.77 feet above msl. Highest water level 17.46 below lsd, Apr. 16, 1938; lowest 27.57 below lsd, Oct. 13, 1951. Records available: 1937-39, 1949-52. Apr. 3, 24.60; Oct. 8, 26.80; Nov. 23, 27.20.

(C-35-16)14ddc-1. John McGary. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 100 feet. Land-surface datum is 5,155.19 feet above msl. Highest water level 20.63 below lsd, Dec. 10, 1949; lowest 25.05 below lsd, Nov. 22, 1952. Records available: 1948-52. Oct. 8, 24.63; Nov. 22, 25.05.

(C-35-16)15abb-1. H. G. Dewey. Drilled unused water-table well in alluvium, diameter 12 inches, depth 40 feet, cased to 40. Land-surface datum is 5,151.4 feet above msl. Highest water level 17.32 below lsd, May 28, 1937; lowest 24.87 below lsd, Nov. 22, 1952. Records available: 1937, 1949-52. Nov. 22, 24.87.

(C-35-16)16bbc-1. State application 16835. Marion Beckstrom. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 174 feet, cased to 174, perforations 50-174. Land-surface datum is 5,154.45 feet above msl. Highest water level 20.85 below lsd, Mar. 26, 1950; lowest 25.59 below lsd, Oct. 8, 1952. Records available: 1947, 1949-52. Apr. 3, 23.50; Oct. 8, 25.59; Nov. 23, 25.06.

(C-35-16)20dcc-1. State claim 11630. Eva Hard. Drilled unused water-table well in alluvium, diameter 12 inches, depth 98 feet, cased to 98, perforations 58-98. Land-surface datum is 5,161.9 feet above msl. Highest water level 19.69 below lsd, May 24, 1937; lowest 32.30 below lsd, Sept. 17, 1952; Records available: 1937-40, 1942, 1949-52.

(C-35-16)20dcc-1 -- Continued.

*Daily noon water level from recorder graph

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
1	.....	28.38	29.78	31.23	31.54	.....	31.97	.....
2	.....	28.39	29.85	31.25	31.57	.....	31.93	.....
3	28.72	28.39	29.83	31.30	31.58	.....	31.87	.....
4	28.63	28.43	29.94	31.29	31.64	.....	31.85	.....
5	28.63	28.47	29.97	31.27	31.73	.....	.....	.....
6	28.63	28.48	30.10	31.32	31.76	.....	.....	.....
7	28.64	28.54	30.14	31.30	31.77	.....	.....	.....
8	28.64	28.71	30.19	31.33	31.80	.....	.....	.....
9	28.64	28.74	30.25	31.33	31.70	.....	.....	.....
10	28.65	28.83	30.29	31.32	31.79	.....	31.72	.....
11	28.65	28.92	30.40	31.39	31.83	.....	31.70	.....
12	28.62	28.97	30.50	31.42	31.89	.....	31.67	.....
13	28.62	29.03	30.53	31.45	31.94	.....	.....	.....
14	28.62	29.14	30.63	31.45	31.97	.....	.....	.....
15	28.60	29.24	30.61	31.44	32.00	.....	.....	.....
16	28.58	29.23	.....	31.40	.....	.....	.....	.....
17	.....	29.24	.....	31.43	.....	32.30	.....	.....
18	28.52	29.27	.....	31.51	.....	32.27	.....	30.95
19	28.50	29.38	.....	31.43	.....	.....	.....	.....
20	28.49	29.44	30.80	31.54	.....	.....	.....	.....
21	28.47	29.50	30.85	31.55	.....	.....	.....	.....
22	28.44	29.57	30.90	31.42	.....	32.10	.....	.....
23	28.43	29.50	30.93	31.60	.....	32.06	.....	.....
24	28.42	29.47	30.94	31.66	.....	32.13	.....	.....
25	28.43	29.57	30.98	31.57	.....	32.13	.....	.....
26	28.42	29.63	30.96	31.64	.....	32.13	.....	.....
27	28.41	29.63	31.06	31.70	.....	32.12	.....	.....
28	28.42	29.62	31.10	31.74	.....	.....	.....	.....
29	28.41	29.64	31.13	31.73	.....	.....	.....	.....
30	28.40	29.65	31.18	31.68	.....	.....	.....	.....
31		29.73		31.66	.....		.....	

*No record for January, February, March, and December.

(C-35-16)28bcc-1. State application 15771. Bruno Biasi. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 200 feet, cased to 200. Land-surface datum is 5,167.07 feet above msl. Highest water level 27.45 below lsd, Dec. 8, 1948; lowest 34.54 below lsd, Nov. 23, 1952. Records available: 1948-52. June 30, 49.5, pumping; Nov. 23, 34.54.

(C-35-16)31abc-1. State application a2109. C. E. Mitchell. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 150 feet. Highest water level 36.36 below lsd, Apr. 21, 1949; lowest 46.08 below lsd, Sept. 15, 1952. Records available: 1948-52. Apr. 4, 41.12; July 1, 58.4, pumping; Sept. 15, 46.08; Nov. 23, 45.58.

(C-35-17)3ccc-1. State application 17133. Milt Sevy. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 240 feet, cased to 240. Land-surface datum is 5,190.2 feet above msl. Highest water level 46.64 below lsd, Apr. 20, 1949; lowest 50.60 below lsd, Aug. 20, 1949. Records available: 1949-52. Nov. 21, 49.82.

(C-35-17)13bdc-1. State claim 14228. Austin Moyle. Drilled unused water-table well in alluvium, diameter 24 inches, depth 100 feet. Land-surface datum is 5,164.8 feet above msl. Highest water level 25.99 below lsd, Apr. 16, 1938; lowest 41.30 below lsd, Sept. 4, 1952. Records available: 1937-42, 1949-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.95	32.69	32.35	32.24	33.41	35.13	36.78	38.55	38.11	38.28	36.08	35.20
2	32.94	32.66	32.35	32.22	33.59	35.26	36.88	38.60	38.07	38.15	36.06	35.23
3	32.93	32.63	32.43	32.17	33.67	35.36	36.97	38.62	38.07	38.03	35.99	35.15
4	32.92	32.60	32.38	32.15	33.81	35.39	37.03	38.66	38.26	37.93	35.94	35.14
5	32.92	32.60	32.35	32.18	33.93	35.34	37.06	38.74	38.37	37.84	35.93	34.90
6	32.95	32.64	32.39	32.18	34.04	35.32	37.09	38.79	38.52	37.74	35.90	34.85
7	32.90	32.63	32.40	32.17	34.13	35.32	37.13	38.82	38.60	37.65	35.84	34.85
8	32.84	32.63	32.37	32.17	34.23	35.35	37.19	38.86	38.70	37.55	35.81	34.87
9	32.82	32.62	32.33	32.14	34.34	35.30	37.27	38.88	38.76	37.46	35.78	34.87
10	32.83	32.57	32.40	32.15	34.42	35.35	37.31	38.92	38.73	37.37	35.74	34.91

(C-35-17)13bdc-1 -- Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	32.81	32.54	32.45	32.14	34.50	35.38	37.37	38.89	38.83	37.27	35.69	35.00
12	32.86	32.55	32.42	32.15	34.53	35.42	37.44	38.92	38.88	37.14	35.65	35.13
13	32.90	32.63	32.33	32.10	35.54	35.47	37.51	38.96	38.86	37.12	35.67	35.15
14	32.85	32.61	32.35	32.08	34.59	35.42	37.58	38.96	38.77	37.04	35.61	34.94
15	32.80	32.54	32.32	32.10	34.57	35.32	37.65	38.99	38.64	36.94	35.63	34.85
16	32.78	32.53	32.28	32.10	34.37	35.30	37.69	39.00	38.55	36.88	35.62	34.80
17	32.80	32.53	32.34	32.09	34.42	35.20	37.71	39.01	38.41	36.83	35.57	34.83
18	32.75	32.51	32.38	32.12	34.57	35.14	37.78	38.90	38.36	36.77	35.57	34.74
19	32.79	32.58	32.34	32.11	34.65	35.10	37.87	38.89	38.29	36.69	35.48	34.74
20	32.83	32.53	32.30	32.13	34.70	35.32	37.91	38.85	38.18	36.62	35.45	34.65
21	32.79	32.46	32.28	32.33	34.74	35.54	38.04	38.83	38.13	36.57	35.44	34.76
22	32.73	32.45	32.26	32.49	34.60	35.71	38.05	38.75	38.08	36.53	35.42	34.80
23	32.78	32.47	32.33	32.61	34.55	35.86	38.11	38.85	38.05	36.47	35.38	34.80
24	32.77	32.48	32.27	32.81	34.67	36.03	38.13	38.77	38.08	36.41	35.38	34.75
25	32.72	32.42	32.21	33.00	34.50	36.18	38.20	38.73	38.12	36.36	35.40	34.70
26	32.67	32.38	32.20	33.10	34.40	36.30	38.26	38.57	38.13	36.32	35.35	34.70
27	32.65	32.37	32.20	33.28	34.34	36.39	38.32	38.47	38.09	36.30	35.32	34.65
28	32.66	32.43	32.26	33.39	34.49	36.48	38.31	38.35	38.20	36.24	35.29	34.60
29	32.67		32.20	33.40	34.68	36.60	38.37	38.32	38.11	36.18	35.27	34.62
30	32.65		32.16	33.40	34.85	36.71	38.42	38.31	38.22	36.18	35.25	34.70
31	32.68		32.22		35.00		38.47	38.22		36.12		34.62

(C-35-17)22bcc-2. State application a1946. P. L. Morris. Drilled irrigation domestic stock water-table well in alluvium, diameter 16 inches, depth 163 feet. Land-surface datum is 5,194.79 feet above msl. Highest water level 52.70 below lsd, Apr. 21, 1949; lowest 56.92 below lsd, Nov. 21, 1952. Records available: 1949-52. Apr. 3, 55.55; Nov. 21, 56.92.

(C-35-17)36dcc-1. State application 16425. Marion Crosier. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 200 feet, cased to 200. Land-surface datum is 5,190.5 feet above msl. Highest water level 50.50 below lsd, Dec. 8, 1948; lowest 58.05 below lsd, Sept. 15, 1952. Records available: 1948-52. Apr. 4, 54.75; July 1, 88.5, pumping; Sept. 15, 58.05; Oct. 8, 57.90; Nov. 23, 56.75.

(C-36-15)4cdd-1. State application a 2057. Leo Knell. Drilled unused water-table well in alluvium, diameter 18 inches, depth 245 feet Land-surface datum is 5,249.2 feet above msl. Highest water level 104.25 below lsd, Apr. 25, 1950; lowest 108.70 below lsd, Sept. 17, 1952. Records available: 1949-52. Apr. 5, 107.73; Sept. 17, 108.70; Nov. 22, 107.71.

(C-36-15)19ccc-1. State applications a2101 and a2085. Lonzo Christensen. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 210 feet. Land-surface datum is 5,233.2 feet above msl. Highest water level 75.30 below lsd, Mar. 12, 1948; lowest 88.82 below lsd, Aug. 26, 1951. Records available: 1947-52. Nov. 21, 85.35.

(C-36-16)3ada-1. State application 14709. Coons Estate. Drilled irrigation water-table well in alluvium, diameter 12 inches, depth 115 feet, cased to 115. Land-surface datum is 5,178.2 feet above msl. Highest water level 34.12 below lsd, Mar. 12, 1948; lowest 41.48 below lsd, Nov. 21, 1952. Records available: 1947-52. Apr. 5, 40.70; May 8, 39.90; May 19, 39.90; Sept. 15, 41.42; Nov. 21, 41.48.

(C-36-16)4a-2. State application a2078. Vern Frailey. Drilled irrigation water-table well in alluvium, diameter 16 inches. Land-surface datum is 5,190.4 feet above msl. Highest water level 48.67 below lsd, Apr. 21, 1949; lowest 57.00 below lsd, Aug. 27, 1951. Records available: 1949-52. May 19, 54.30; Oct. 8, 56.93; Nov. 21, 55.95.

(C-36-16)9bcd-1. State application 16253. Wilson Scott. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 272 feet, cased to 272. Land-surface datum is 5,191.1 feet above msl. Highest water level 51.30 below lsd, Apr. 21, 1949; lowest 60.70 below lsd, Aug. 28, 1951. Records available: 1948-52. Apr. 4, 57.25; May 8, 58.00; Oct. 8, 60.13; Nov. 21, 59.30.

(C-36-16)19abb-1. State application 15511. T. W. Jones. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 352 feet, cased to 352, perforations 95-332. Land-surface datum is 5,226.3 feet above msl. Highest water level 75.36 below lsd, Dec. 11, 1945; lowest 89.37 below lsd, Nov. 21, 1952. Records available: 1945-52. Apr. 4, 87.75; May 8, 87.30; May 19, 87.50; June 30, 103.2, pumping; Nov. 21, 89.37.

(C-36-16)27dcd-1. State claim 19283. Ivins Investment Co. Drilled unused water-table well in alluvium, diameter 10 inches, depth 153 feet, cased to 153. Land-surface datum is 5,276.4 feet above msl. Highest water level 122.54 below lsd, May 5, 1945; lowest 134.80 below lsd, Nov. 21, 1952. Records available: 1945-52. Apr. 4, 134.14; May 8, 134.10; May 9, 134.10; July 1, 133.90; Nov. 21, 134.80.

(C-36-16)29daa-1. State application 16189. Weyl-Zuckerman Co. Drilled irrigation water-table well in alluvium, diameter 16 inches, depth 380 feet, cased to 380, perforations 100-350. Land-surface datum is 5,233.4 feet above msl. Highest water level 85.66 below lsd, Oct. 11, 1945; lowest 99.35 below lsd, Oct. 8, 1952. Records available: 1945-52. June 30, 141.8, pumping; Oct. 8, 99.35; Nov. 21, 98.24.

(C-36-16)31ccc-1. State application 16153. Leland Huntsman. Drilled irrigation water-table well in alluvium, diameter 14 inches, depth 222 feet, cased to 222. Land-surface datum is 5,271.1 feet above msl. Highest water level 111.75 below lsd, Mar. 31, 1948; lowest 128.90 below lsd, Oct. 14, 1951. Records available: 1947-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 23, 1951	121.58	Aug. 29, 1951	a148.50	Apr. 4, 1952	124.60	June 30, 1952	128.00
May 25	125.20	Oct. 14	128.90	May 8	122.35	Oct. 8	126.60
July 13	a146.00	Dec. 19	125.94	19	122.40	Nov. 21	123.47

a Pumping.

Parowan Valley

(C-32-8)1ada-1. Iron County. Drilled stock water-table well in alluvium, diameter 6 inches. Land-surface datum is 5,746.6 feet above msl. Highest water level 47.80 below lsd, Mar. 20, 1951; lowest 49.04 below lsd, Feb. 5, 1940. Records available: 1939-52. Apr. 1, 48.03; Dec. 3, 48.08.

(C-33-8)28bbb-1. State claim 15133. Tom Abbott. Drilled stock domestic artesian well in alluvium, diameter 4 inches, depth 350 feet, cased to 350. Land-surface datum is 5,782.2 feet above msl. Highest water level 9.70 below lsd, Mar. 16, 1946; lowest 13.25 below lsd, Dec. 6, 1947. Records available: 1940-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 1	12.01	July 27	11.59	Sept. 28	11.57	Nov. 30	11.35
May 25	11.70	Aug. 31	11.55	Oct. 26	11.60	Dec. 28	11.24
June 29	11.60						

(C-33-9)34cbd-2. State claim 5694. Dee Robinson. Drilled unused artesian well in alluvium, diameter 4 to 2 inches, depth 500 feet, cased to 500, perforations 117-300. Land-surface datum is 5,736.6 feet above msl. Highest water level 17.65 below lsd, Mar. 14, 1943; lowest 66.00 below lsd, Aug. 26, 1951. Records available: 1935-52.

Jan. 27	21.00	Apr. 27	23.70	Aug. 31	b64.00	Nov. 30	29.50
Feb. 24	20.39	May 25	b52.30	Sept. 28	46.43	Dec. 3	28.36
Mar. 30	19.43	June 29	b66.00	Oct. 26	b53.10	28	23.82
Apr. 1	20.54	July 27	b67.75				

b Pumped recently.

(C-33-9)36dcd-1. State claim 494. Hugh L. Adams. Drilled irrigation artesian well in alluvium, diameter 60 to 4 inches, depth 499 feet, cased to 490, perforations 75-490. Land-surface datum is 5,796.76 feet above msl. Highest water level 29.72 below lsd, Mar. 14, 1943; lowest 49.24 below lsd, Apr. 1, 1937. Records available: 1933-52. Apr. 1, 42.87; July 29, 75.0, pumping; Sept. 13, 75.4, pumping; Dec. 3, 48.59.

(C-34-8)5bca-1. Drought Relief Administration. Drilled unused artesian well in alluvium, diameter 12 inches, depth 420 feet. Highest water level 14.05 below lsd, Aug. 28, 1949; lowest 28.95 below lsd, Nov. 21, 1936. Records available: 1935-52.

Jan. 27	19.80	Apr. 27	17.88	Aug. 31	18.39	Nov. 30	19.25
Feb. 24	19.80	May 27	17.35	Sept. 28	18.50	Dec. 3	19.34
Mar. 30	18.00	June 29	17.00	Oct. 26	18.78	28	19.11
Apr. 1	18.02	July 27	17.29				

(C-34-9)8bdd-1. State claim 4868. Peter H. Gurr. Drilled stock artesian well in alluvium, diameter 6 inches, depth 100 feet. Land-surface datum is 5,734.7 feet above msl. Highest water level 13.60 below lsd, May 28, 1950; lowest 28.45 below lsd, Oct. 13, 1938. Records available: 1938-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	16.76	Apr. 27	16.76	Aug. 31	17.58	Nov. 30	18.57
Feb. 24	16.75	May 25	16.30	Sept. 28	18.11	Dec. 3	18.56
Mar. 30	16.64	June 29	16.60	Oct. 26	18.44	28	18.55
Apr. 1	16.59	July 27	17.30				

(C-34-9)10bdd-1. State claim 8801. Clair Rowley. Drilled irrigation artesian well in alluvium, diameter 14 to 3 inches, depth 500 feet, cased to 500. Land-surface datum is 5,817.12 feet above msl. Highest water level 42.90 below lsd, Mar. 14, 1943; lowest 68.95 below lsd, Aug. 31, 1952. Records available: 1937-52.

Jan. 27	59.90	Apr. 27	a68.10	Aug. 31	68.95	Nov. 30	62.93
Feb. 24	57.40	May 25	63.30	Sept. 28	65.22	Dec. 3	62.84
Mar. 30	55.84	June 29	a71.60	Oct. 26	65.66	28	61.38
Apr. 1	55.98	July 27	68.95				

a Pumping.

(C-34-10)24aac-1. State application 16640. Lyle Farrow. Drilled irrigation water-table well in alluvium, diameter 12 inches, depth 195 feet, cased to 195. Highest water level 49.75 below lsd, Mar. 22, 1950; lowest 58.50 below lsd, July 30, 1952. Records available: 1948-52. Apr. 1, 53.16; July 30, 58.50; Sept. 13, 58.35; Dec. 3, 55.20.

Juab County

Juab Valley

(C-15-1)12aba-1. State claim 10223. R. C. Mangelson. Drilled stock artesian well in gravel, diameter 6 inches, depth 117 feet, cased to 117. Land-surface datum is 5,196.9 feet above msl. Highest water level 50.44 below lsd, Mar. 11, 1946; lowest 62.16 below lsd, June 20, 1936. Records available: 1935-52. May 6, 55.58; Dec. 1, 51.08.

(D-11-1)9bbb-4. State claim 3099. J. L. and H. J. Fowkes. Jetted irrigation artesian well in alluvium, diameter 3 inches, depth 90 feet, cased to 75. Land-surface datum is 4,928.0 feet above msl. Highest water level 14.9 above lsd, Dec. 26, 1942; lowest 4.9 above lsd, May 6, 1952. Records available: 1935-52. May 6, +4.9; Dec. 1, +11.7.

(D-12-1)31cdb-1. State application 15106. James H. Eager. Drilled stock artesian well in alluvium, diameter 6 inches, depth 450 feet, cased to 450. Highest water level 26.10 below lsd, Dec. 1, 1952; lowest 34.71 below lsd, Oct. 31, 1951. Records available: 1949-52. Dec. 1, 26.10

(D-13-1)6cbc-1. State claim 8188. Nephi Irrigation Co. Drilled unused artesian well in alluvium, diameter 12 to 10 inches, depth 975 feet, cased to 952, perforations 55-95, plugged 150. Land-surface datum is 5,022.56 feet above msl. Highest water level 13.25 below lsd, June 2, 1942; lowest 30.97 below lsd, Oct. 18, 1951. Records available: 1935-52. May 7, 24.74; Dec. 1, 16.61.

(D-13-1)18bbc-1. State application 16108. Dee Jarrett. Drilled irrigation artesian well in alluvium, diameter 12 inches, depth 235 feet. Highest water level 18.22 below lsd, July 3, 1951; lowest 35.13 below lsd, Oct. 17, 1951. Records available: 1949-51. No measurement made in 1952.

Snake Valley

(For other wells in this valley see Millard County.)

(C-11-16)6ccc. J. H. Guilmette. Jetted unused artesian well in alluvium, diameter 4 feet. Highest water level 15.67 below lsd, Nov. 18, 1938; lowest 23.04 below lsd, Oct. 17, 1949. Records available: 1938-52. Oct. 20, 18.01.

(C-11-17)1bdc-1. State claim 8190. Drought Relief Administration. Jetted unused artesian well in alluvium, diameter 4 inches, depth 221 feet. Highest water level 0.51 below lsd, Sept. 18, 1941; lowest 3.98 below lsd, Nov. 18, 1938. Records available: 1938-52. Oct. 20, 1.95.

(C-13-18)14ddc-1. Will Parker. Drilled unused artesian well in alluvium, diameter 20 to 8 inches, depth 33 feet, cased to 23, perforations 18-23. Highest water level 8.17 below lsd, Aug. 7, 1942; lowest 19.78 below lsd, Oct. 11, 1943. Records available: 1938-48, 1950-52. Oct. 21, 13.63.

Millard County

Escalante Valley

(For other wells in this valley see Beaver, Iron, and Washington Counties.)

(C-25-10)26caa-1. State of Utah. Dug unused water-table well in alluvium, diameter 5 feet. Highest water level 16.12 below lsd, Mar. 10, 1948; lowest 17.76 below lsd, Mar. 11, 1943. Records available: 1941-52. Mar. 31, 16.85; Nov. 18, 16.84.

Pavant Valley

(C-19-4)31bcc-1. State claim 4263. Union Pacific Railroad Co. Drilled unused artesian well in alluvium, diameter 6 inches, depth 178 feet, cased to 163. Land-surface datum is 4,778 feet above msl. Highest water level 5.26 below lsd, Dec. 5, 1949; lowest 18.20 below lsd, Apr. 21, 1938. Records available: 1936-52. Apr. 2, 6.93; July 9, 7.50; Dec. 1, 5.85.

(C-20-5)13dad-1. C. H. Day. Drilled unused artesian well in alluvium, diameter 5 inches, depth 175 feet. Highest water level 35.34 below lsd, Dec. 1, 1952; lowest 47.73 below lsd, Mar. 25, 1941. Records available: 1937-52. Apr. 2, 36.90; Dec. 1, 35.34.

(C-20-5)22bcc-1. State claim 7671. Arnold Lesin. Drilled stock artesian well in alluvium, diameter 6 inches, depth 400 feet, cased to 245. Land-surface datum is 4,665.97 feet above msl. Highest water level 13.7 below lsd, Dec. 1, 1952; lowest 5.6 above lsd, Oct. 3, 1937. Records available: 1936-52. Apr. 2, +11.3; Dec. 1, +13.7.

(C-21-5)9cdc-1. State claim 6221. John Carling. Drilled stock artesian well in alluvium, diameter 7 inches, depth 300 feet. Land-surface datum is 4,715.2 feet above msl. Highest water level 0.2 above lsd, Dec. 5, 1947; lowest 11.95 below lsd, May 31, 1943. Records available: 1943-48, 1950-52. Mar. 31, 8.06; Sept. 9, 11.05; Dec. 2, 4.08.

(C-21-5)21aba-1. State of Utah. Drilled unused artesian well in alluvium, diameter 6 inches, depth 246 feet, cased to 220. Land-surface datum is 4,744.4 feet above msl. Highest water level 1.96 below lsd, Feb. 24, 1949; lowest 25.16 below lsd, Sept. 19, 1935. Records available: 1929-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	8.64	8.52	10.48	16.00	.....	.....	16.50	.....	14.75	10.10	5.82
2	.....	8.52	9.03	11.76	15.99	.....	.....	16.16	.....	14.77	10.06	5.65
3	.....	8.65	8.54	12.28	16.07	.....	.....	15.86	.....	14.79	9.62	5.73
4	.....	8.66	8.36	12.62	16.11	.....	.....	15.85	.....	14.70	9.48	5.74
5	.....	8.63	8.32	12.80	16.12	.....	.....	16.09	.....	14.64	9.31	5.54
6	.....	.....	8.26	.....	16.34	.....	.....	15.84	.....	14.58	9.22	5.52
7	.....	.....	8.26	.....	16.38	.....	.....	.....	.....	14.51	9.20	5.46
8	.....	.....	8.24	.....	16.41	.....	.....	.....	.....	14.47	9.16	5.52
9	.....	.....	.....	.....	.....	.....	.....	.....	15.47	14.48	9.16	5.54
10	.....	.....	.....	.....	.....	.....	16.92	.....	15.70	14.49	9.06	5.41
11	.....	.....	.....	13.40	.....	.....	.....	.....	15.56	14.39	8.97	5.37
12	.....	.....	7.78	13.52	.....	.....	.....	.....	15.56	14.38	8.86	5.42
13	.....	.....	7.65	14.60	.....	.....	.....	.....	15.44	14.36	8.80	5.36
14	.....	.....	7.72	14.62	.....	.....	.....	.....	.....	14.28	8.61	5.29
15	.....	8.84	9.10	14.80	.....	.....	.....	.....	15.00	13.81	8.40	5.21
16	.....	8.76	9.19	14.67	.....	.....	.....	16.60	15.01	12.59	8.19	5.13
17	.....	8.67	9.29	15.00	.....	.....	.....	.....	14.87	12.10	8.13	5.08
18	.....	8.74	9.30	.....	.....	.....	.....	.....	14.81	11.52	.....	4.99
19	.....	8.73	9.30	.....	.....	.....	.....	.....	15.10	11.27	.....	5.00
20	.....	8.72	.....	.....	.....	.....	.....	.....	14.94	11.08	6.67	4.90
21	.....	8.68	.....	.....	.....	.....	.....	.....	14.76	10.93	6.56	4.97
22	8.69	8.70	.....	.....	.....	.....	.....	.....	14.71	10.62	6.41	4.89
23	8.66	8.68	.....	.....	.....	.....	.....	.....	15.03	10.50	6.30	4.86
24	.....	8.76	.....	15.67	.....	16.20	.....	.....	15.04	10.36	6.20	4.81
25	.....	8.75	.....	15.72	.....	16.18	.....	.....	15.03	10.29	6.19	4.81
26	.....	8.70	.....	15.78	.....	16.20	.....	16.50	14.75	10.24	6.15	4.78
27	.....	8.66	.....	15.78	.....	16.21	.....	.....	14.71	10.18	6.04	4.68
28	.....	8.63	.....	15.75	.....	.....	.....	.....	14.74	9.97	6.02	4.58
29	8.60	8.68	.....	15.80	16.52	.....	.....	.....	14.83	9.85	5.97	4.56
30	8.60		.....	15.88	.....	.....	.....	.....	14.77	10.08	5.88	4.47
31	8.56		.....		.....		.....	.....		10.18		4.45

(C-21-5)34baa-1. State claim 17381. Frank Sweeting. Drilled unused artesian well in alluvium, diameter 8 inches, depth 190 feet. Land-surface datum is 4,772.8 feet above msl. Highest water level 25.71 below lsd, Mar. 30, 1949; lowest 44.53 below lsd, Oct. 12, 1943. Records available: 1942-52. Apr. 1, 36.50; Dec. 2, 34.39.

(C-22-5)28dbd-1. State claim 16860. Charles Swallow. Drilled unused water-table well in alluvium, diameter 8 inches, depth 112 feet. Land-surface datum is 4,812.5 feet above msl. Highest water level 30.30 below lsd, July 21, 1949; lowest 41.13 below lsd, Mar. 11, 1944. Records available: 1943-52. Apr. 1, 38.55; Dec. 2, 34.53.

(C-22-5)33cdd-1. State application 13367. LaVoy A. Kimball. Drilled stock and domestic artesian well in alluvium, diameter 12 inches, depth 152 feet, cased to 152. Land-surface datum is 4,834.3 feet above msl. Highest water level 47.68 below lsd, Dec. 1, 1948; lowest 60.35 below lsd, Mar. 11, 1944. Records available: 1943-52. Apr. 1, 59.20; Dec. 2, 58.89.

(C-23-6)8bdb-1. State claim 16582. H. F. and C. H. Watts. Drilled stock water-table well in alluvium, diameter 6 inches, depth 100 feet, cased to 100. Highest water level 24.70 below lsd, Mar. 21, 1951; lowest 31.75 below lsd, Mar. 23, 1943. Records available: 1943-52. Apr. 1, 24.80; Dec. 2, 25.47.

Sevier Desert

(C-15-4)20dcc-1. Spencer Nielson. Jetted unused water-table well in alluvium, diameter 3 inches, depth 186 feet, cased to 180. Highest water level 119.00 below lsd, Dec. 4, 1950; lowest 124.87 below lsd, Mar. 24, 1937. Records available: 1935-52. Apr. 3, 119.62; Nov. 25, 119.30.

(C-15-7)17dad-1. I. H. Losee. Jetted unused artesian well in alluvium, diameter $1\frac{1}{2}$ inches, depth 235 feet. Highest water level 3.42 above lsd, Mar. 24, 1937; lowest 2.10 above lsd, Dec. 2, 1942. Records available: 1937-51. No measurement made in 1952.

(C-16-7)4abb-1. L. N. Hinckley. Jetted unused artesian well in alluvium, diameter $1\frac{1}{4}$ inches, depth 324 feet, cased to 309. Highest water level 10.0 above lsd, Apr. 2, 1952; lowest 6.00 above lsd, Dec. 11, 1940. Records available: 1935-52. Apr. 2, +10.0; Nov. 25, +9.3.

(C-16-8)3add-2. State application 13178. Parley Probst. Jetted stock artesian well in alluvium, diameter 2 inches, depth 166 feet, cased to 166. Highest water level 6.39 above lsd, Dec. 4, 1951; lowest 2.25 above lsd, May 3, 1945. Records available: 1945-52. Apr. 3, +5.37; Nov. 25, +6.30.

(C-16-8)21ddd-1. State claim 768. Herbert Taylor. Jetted stock artesian well in alluvium, diameter 2 inches, depth 125 feet. Highest water level 3.05 above lsd, Dec. 5, 1949; lowest 2.0 below lsd, Jan. 19, 1945. Records available: 1942-52. Apr. 3. +2.95.

(C-17-7)20cbb-1. State claim 12287. W. J. Webb. Driven stock artesian well in alluvium, diameter $1\frac{1}{4}$ inches, depth 356 feet. Land-surface datum is 4,592.4 feet above msl. Highest water level 6.45 above lsd, July 21, 1942; lowest 5.25 above lsd, Aug. 25, 1937. Records available: 1936-52. Apr. 2, +5.9; Nov. 24, +5.6.

(C-18-7)5aaa-2. State claim 7624. S. A. Webb. Jetted domestic stock artesian well in alluvium, diameter $1\frac{1}{4}$ inches, depth 320 feet, cased to 320. Highest water level 7.2 above lsd, Mar. 25, 1941; lowest 4.49 above lsd, July 12, 1948. Records available: 1935-52. Apr. 2, +6.0; Nov. 18, +5.62.

Snake Valley

(C-18-19)20ddd-1. State claim 7420. Louise Robison. Drilled domestic artesian well in alluvium, diameter 6 inches, depth 90 feet, cased to 90. Land-surface datum is 4,989.2 above msl. Highest water level 23.58 below lsd, Aug. 7, 1942; lowest 31.43 below lsd, Nov. 30, 1937. Records available: 1937-52. Oct. 21, 23.91.

(C-22-19)6bcc-1. Dennis Smith. Drilled stock domestic water-table well in alluvium, diameter 5 inches, depth 120 feet, cased to 120, perforations 100-120. Highest water level 54.50 below lsd, Nov. 17, 1938; lowesf 70.84 below lsd, Oct. 10, 1951. Records available: 1934, 1936-40, 1951-52. Oct. 22, 55.23.

(C-23-19)9cdb-1. Thomas Dearden. Drilled unused artesian well in alluvium, diameter 5 inches, depth 270 feet, cased to 270. Highest water level 12.59 below lsd, Oct. 11, 1946; lowest 16.27 below lsd, Dec. 1, 1937. Records available: 1936-48, 1950-52. Oct. 22, 13.80.

Morgan County

Morgan Valley

(A-3-2)24cba-1. State claim 12405. Hyrum Adams. Dug domestic water-table well in alluvium, diameter 24 inches, depth 19 feet. Highest water level 10.47 below lsd, June 22, 1939; lowest 16.80 below lsd, Dec. 27, 1951. Records available: 1936-40, 1942-52. Apr. 17, 12.98; Dec. 29, 15.10.

(A-4-2)8ccd-1. State claim 12133. L. H. Kobabe. Dug domestic water-table well in alluvium, diameter 36 inches, depth 44 feet. Highest water level 14.49 below lsd, Apr. 17, 1952; lowest 35.79 below lsd, Dec. 29, 1952. Records available: 1939-52. Apr. 17, 14.49; Dec. 29, 35.79.

(A-4-2)35cdd-1. State claim 11785. Albert Wiggins. Dug domestic water-table well in alluvium, diameter 30 inches, depth 35 feet. Highest water level 13.33 below lsd, Sept. 18, 1943; lowest 29.20 below lsd, Mar. 30, 1946. Records available: 1936-52. Apr. 17, 17.22; Dec. 29, 15.84.

(A-4-3)31cab-1. State claim 12410. Como Springs Resort. Drilled unused artesian well in limestone and shale, diameter 6 inches, depth 40 feet. Highest water level 1.83 below lsd, Dec. 12, 1950; lowest 3.70 below lsd, Apr. 4, 1940. Records available: 1937-52. Apr. 17, 1.95; Dec. 29, 3.00.

(A-4-4)30aac-2. State claim 5670. J. A. Millyard. Dug unused water-table well in alluvium, diameter 12 inches, depth 14 feet. Highest water level 9.29 below lsd, Apr. 17, 1952; lowest 11.90 below lsd, Mar. 30, 1946. Records available: 1940-52. Apr. 17, 9.29; Dec. 29, 10.90.

(A-5-1)27db. E. R. France. Drilled unused artesian well in alluvium, diameter 6 inches, depth 150 feet. Highest water level 0.18 below lsd, Apr. 17, 1952; lowest 1.95 below lsd, Feb. 7, 1938. Records available: 1936-52. Apr. 17, 0.18; Dec. 29, 0.73.

Piute County

Grass Valley

(For other wells in this valley see Sevier County.)

(C-27-1)27abc-2. State claim 2905. H. B. Crandall. Jetted stock artesian well in alluvium, diameter 2 inches, depth 260 feet. Land-surface datum is 6,739.26 feet above msl. Highest water level 5.33 above lsd, Dec. 20, 1938; lowest 2.69 above lsd, Apr. 6, 1952. Records available: 1937-52. Apr. 6, +2.69; Dec. 7, +3.84.

Upper Sevier Valley

(For other wells in this valley see Garfield County.)

(C-30-3)15bba-1. O. P. Jessen. Dug unused water-table well in alluvium, diameter 24 inches, depth 40 feet, cased to 40. Highest water level 8.13 below lsd, Aug. 24, 1937; lowest 28.05 below lsd, Mar. 26, 1937. Records available: 1935-52. Apr. 6, 26.66; Dec. 7, 18.70.

Rich County

Bear Lake Valley

(A-13-5)10bbb-2. Thomas Hodges. Dug unused water-table well in alluvium, diameter 36 inches, depth 19 feet. Highest water level 12.96 below lsd, Oct. 21, 1952; lowest 17.99 below lsd, Apr. 9, 1940. Records available: 1937-52. Oct. 21, 12.96.

(A-13-5)21ad. State claim 8222. Drought Relief Administration. Drilled unused artesian well in gravel, diameter 15 inches, depth 70 feet, cased to 70. Highest water level 0.40 below lsd, May 3, 1939; lowest 9.25 below lsd, Oct. 8, 1940. Records available: 1936-48, 1950-52. Oct. 21, 5.25.

(A-13-6)30bb. Rich County. Jetted unused artesian well in alluvium, diameter 6 inches, depth 125 feet. Highest water level 8.3 above lsd, Oct. 20, 1948; lowest 3.8 above lsd, Oct. 10, 1941. Records available: 1936-52. Oct. 21, +7.73.

(A-14-5)21bda. J. W. Gibbons. Drilled unused artesian well in alluvium, diameter 6 inches, depth 40 feet, cased to 40. Highest water level 8.07 below lsd, June 22, 1940; lowest 24.93 below lsd, Apr. 23, 1941. Records available: 1936-51. No measurement made in 1952.

Upper Bear River Valley

(A-9-7)9cdc-1. State application 16733. James Stuart. Drilled domestic artesian well in alluvium, diameter 6 inches, depth 57 feet. Highest water level 24.81 below lsd, Oct. 21, 1952; lowest 29.82 below lsd, Oct. 19, 1948. Records available: 1948-52. Oct. 21, 24.81.

(A-9-7)25cbc-2. Deseret Livestock Co. Drilled unused artesian well in alluvium, diameter 6 inches, depth 300 feet. Highest water level 14.38 below lsd, Oct. 27, 1947; lowest 16.70 below lsd, Oct. 19, 1948. Records available: 1946-52. Oct. 21, 15.37.

(A-10-7)20aaa-1. State claim 1886. Joseph E. Hatch. Dug stock water-table well in alluvium, diameter 5 feet, depth 22 feet. Highest water level 2.13 below lsd, June 26, 1941; lowest 13.69 below lsd, Apr. 10, 1940. Records available: 1937-52. Oct. 21, 8.77.

(A-11-7)9cd-1. Frank H. Jackson. Drilled unused water-table well in alluvium, diameter 6 inches, depth 25 feet, cased to 25. Highest water level 8.76 below lsd, Oct. 21, 1952; lowest 16.55 below lsd, Jan. 22, 1941. Records available: 1936-52. Oct. 21, 8.76.

(A-11-7)9cd-2. Frank H. Jackson. Drilled unused artesian well in gravel, diameter 2 inches, depth 310 feet, cased to 310. Highest water level 5.41 below lsd, Oct. 21, 1952; lowest 13.80 below lsd, Oct. 6, 1942. Records available: 1936-52. Oct. 21, 5.41.

(A-11-7)21bc. Loren Jackson. Dug stock water-table well in alluvium, diameter 6 feet, depth 15 feet. Highest water level 4.27 below lsd, June 6, 1939; lowest 11.34 below lsd, Feb. 28, 1940. Records available: 1937-52. Oct. 21, 8.22.

(A-12-7)26bb-2. Wm. Hoffman. Drilled stock artesian well in alluvium, diameter 6 inches, depth 60 feet, cased to 60. Highest water level 2.95 below lsd, June 6, 1939; lowest 9.77 below lsd, Oct. 8, 1940. Records available: 1936-52. Oct. 21, 7.77.

Salt Lake County

Jordan Valley

(B-1-2)36baa-1. State claim 18176. E. J. Jeremy. Jetted stock artesian well in alluvium, diameter 2 inches, depth 464 feet. Land-surface datum is 4,223.6 feet above msl. Highest water level 15.5 above lsd, Dec. 6, 1944; lowest 10.94 above lsd, Mar. 20, 1933. Records available: 1931-33, 1941-52. Jan. 4, +14.2

(C-1-1)33abb-1. State claim 7547. W. D. Hill. Jetted domestic stock artesian well in alluvium, diameter 2 inches, depth 425 feet, cased to 425. Land-surface datum is 4,250.7 feet above msl. Highest water level 22.7 above lsd, Dec. 13, 1950; lowest 10.30 above lsd, July 23, 1936. Records available: 1931, 1935-52. Apr. 14, +18.6.

(C-1-2)22cbb-1. F. E. Fowler. Jetted domestic artesian well in alluvium, diameter 2 inches, depth 110 feet. Land-surface datum is 4,231.61 feet above msl. Highest water level 16.3 above lsd, Dec. 9, 1948; lowest 8.7 above lsd, July 15, 1936. Records available: 1931-32, 1934-52. Apr. 14, +14.1; Dec. 22, +14.9.

(C-2-1)24adc-1. State claim 16012. J. D. Blain. Jetted unused artesian well in alluvium, diameter 2 inches, depth 127 feet. Land-surface datum is 4,343.8 feet above msl. Highest water level 19.88 below lsd, Dec. 28, 1949; lowest 27.22 below lsd, Apr. 13, 1936. Records available: 1931-52. Apr. 8, 20.84; Dec. 16, 19.89.

(C-3-1)27cdd-1. J. R. Dansie and others. Jetted unused artesian well in alluvium, diameter 3 inches, depth 220 feet. Land-surface datum is 4,434.2 feet above msl. Highest water level 3.31 below lsd, Dec. 28, 1951; lowest 40.91 below lsd, Apr. 13, 1936. Records available: 1931-52. Apr. 8, 8.48.

(D-1-1)9aca-1. State claim 4836. Salt Lake City Corp. Drilled unused water-table well in alluvium, diameter 20 inches, depth 502 feet, cased to 502, perforations 180-485. Land-surface datum is 4,658.9 feet above msl. Highest water level 134.26 below lsd, June 16, 1949; lowest 156.26 below lsd, Jan. 20, 1935. Records available: 1934-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	137.81	136.27	135.28	135.27	135.16	135.30	135.49	135.69	135.84
2	140.10	.....	.....	137.73	136.16	135.25	135.47	135.12	135.26	135.52	135.75	135.81
3	.....	.....	.....	137.77	136.09	135.25	135.35	.....	135.25	135.53	135.79	.....
4	.....	.....	.....	137.75	136.04	135.33	135.32	.....	135.26	135.53	135.71	.....
5	.....	.....	.....	137.67	135.90	135.25	135.27	.....	135.30	135.53	135.64	.....

(D-1-1)9aca-1 -- Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	.....	.....	.....	137.61	135.87	135.19	135.32	135.18	135.28	135.57	135.66	.....
7	.....	138.65	.....	137.50	.....	135.27	135.42	135.17	135.27	135.53	135.69	.....
8	.....	.....	.....	137.63	135.87	135.23	135.36	135.23	135.25	135.53	135.67	.....
9	140.12	.....	.....	137.47	135.80	135.16	.....	135.24	135.22	135.53	135.79	.....
10	.....	.....	.....	137.40	135.71	135.27	.....	135.27	.....	135.56	135.76	135.70
11	.....	.....	.....	137.37	135.62	135.10	135.30	135.23	135.42	135.62	135.74	135.70
12	.....	.....	.....	137.45	135.60	135.31	135.39	135.26	135.40	135.60	135.58	135.77
13	.....	138.53	.....	137.33	135.60	135.24	135.40	135.22	135.46	135.58	135.72	135.73
14	.....	.....	.....	137.30	135.46	135.22	135.37	135.21	135.46	135.66	135.60	135.68
15	.....	.....	.....	137.33	135.49	135.39	135.32	135.22	135.38	.....	135.74	135.63
16	140.40	.....	.....	137.21	135.52	135.31	135.31	135.23	135.41	.....	135.71	135.60
17	.....	.....	.....	137.20	135.50	135.26	135.33	135.22	135.43	.....	135.83	.....
18	.....	.....	.....	137.14	135.45	135.26	135.31	135.21	135.46	.....	135.89	135.55
19	.....	.....	137.88	137.00	135.40	135.26	135.32	135.21	135.44	.....	135.60	135.58
20	.....	138.28	137.95	137.03	.....	135.29	135.34	135.20	135.46	.....	135.73	135.54
21	.....	.....	136.04	136.98	135.41	135.29	135.04	135.20	135.49	.....	135.72	135.64
22	.....	.....	138.04	136.92	135.41	135.27	135.10	135.19	135.48	135.63	135.76	135.54
23	.....	.....	137.96	136.85	135.40	135.27	135.06	135.08	135.49	135.61	135.72	135.51
24	.....	.....	137.66	.....	135.37	135.27	135.14	135.08	135.52	135.63	135.71	135.46
25	139.37	.....	137.95	136.70	135.32	135.30	135.15	135.19	135.53	135.61	135.66	.....
26	.....	.....	137.92	136.68	135.37	135.24	135.15	135.19	135.51	135.67	135.82	.....
27	.....	.....	137.90	136.53	135.33	135.24	135.17	135.19	135.48	135.69	135.76	.....
28	.....	.....	137.80	136.47	135.32	135.26	135.14	135.23	135.53	.....	135.76	.....
29	.....	.....	137.77	136.46	135.29	135.27	135.09	135.21	135.54	135.64	135.82	.....
30	138.86		137.81	136.35	135.27	135.30	135.13	135.23	135.54	135.67	135.83	.....
31	.....		137.85		135.22		135.18	135.25		135.69		

(D-1-1)16caa-1. State claim 4847. Salt Lake City Corp. Drilled unused water-table well in alluvium, diameter 20 inches, depth 502 feet, cased to 502, perforations 90-486. Highest water level 48.42 below lsd, July 24, 1936; lowest 70.65 below lsd, Apr. 29, 1935. Records available: 1934-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	.....	.....	51.10	51.39	52.07	52.16	52.05	52.09	52.50	53.06
2	57.48	.....	.....	57.10	51.09	51.42	52.15	52.15	52.06	52.10	52.53	53.06
3	57.48	.....	.....	57.09	51.07	51.46	52.15	52.14	52.07	52.09	52.57	53.10
4	57.49	.....	.....	57.04	51.08	51.51	52.14	52.12	52.07	52.09	.....	53.11
5	57.49	.....	57.70	56.95	51.05	51.52	52.14	52.12	52.10	52.09	52.60	53.11
6	57.50	57.72	57.70	56.83	51.06	51.53	52.14	52.12	52.10	52.09	52.61	53.11
7	57.50	57.72	57.69	56.70	.....	51.58	52.16	52.10	52.09	52.10	52.63	53.11
8	57.51	57.72	57.68	.....	51.06	51.61	52.16	52.08	52.08	52.09	52.66	53.12
9	57.52	57.72	57.67	56.32	51.06	51.63	.....	52.08	52.06	52.09	52.68	53.12
10	57.53	57.72	57.64	56.26	51.08	51.68	.....	52.08	.....	52.09	52.69	53.12
11	57.54	57.72	57.62	56.18	51.08	51.76	52.12	52.07	52.07	52.11	52.69	53.13
12	57.56	57.72	57.62	56.07	51.09	51.78	52.13	52.07	52.06	52.11	52.67	53.14
13	57.56	57.72	57.60	55.93	51.17	51.81	52.14	52.13	52.08	52.11	52.69	53.14
14	57.57	57.73	57.60	55.81	51.16	51.89	52.13	52.12	52.08	52.14	52.67	53.14
15	57.58	57.73	57.56	55.63	51.19	51.91	52.10	52.12	52.07	52.15	52.69	53.14
16	57.60	57.73	57.55	55.62	51.21	51.92	52.05	52.12	52.06	52.16	52.70	53.14
17	.....	57.73	57.55	55.50	51.26	51.94	52.05	52.12	52.07	52.20	52.74	53.15
18	.....	57.73	57.52	55.40	51.29	51.95	52.05	52.12	52.07	52.24	.....	.....
19	.....	57.74	57.49	55.19	51.34	51.97	52.03	52.11	52.07	52.24	.....	.....
20	.....	57.75	57.46	.....	.....	51.97	52.05	.....	52.07	52.24	.....	.....
21	.....	.....	57.47	.....	51.33	51.99	52.13	52.11	.....	.....	.....	.....
22	.....	.....	57.45	.....	51.35	52.02	52.13	52.10	.....	.....	.....	.....
23	57.65	.....	57.43	.....	51.38	52.01	52.16	52.06	.....	.....	.....	.....
24	57.66	.....	57.39	.....	51.38	52.03	52.18	52.06	.....	.....	.....	.....
25	57.66	.....	57.39	51.15	51.36	52.02	52.19	52.05	.....	.....	.....	.....
26	57.67	.....	57.37	51.16	51.36	52.02	52.19	52.04	.....	.....	.....	.....
27	57.67	57.75	57.33	51.17	51.34	52.03	52.18	52.02	.....	.....	.....	.....
28	57.67	.....	57.29	51.10	51.34	52.04	52.17	52.02	.....	.....	.....	.....
29	57.67	.....	57.25	51.12	51.33	52.04	52.16	52.02	.....	.....	.....	.....
30	57.69		57.25	51.11	51.34	52.08	52.16	52.02	.....	.....	.....	.....
31	.....		57.21		51.34		52.17	52.02		.....		.....

(D-2-1)4dbd-4. Eugene Templeman. Jetted unused artesian well in alluvium, diameter 3 inches, depth 310 feet. Land-surface datum is 4,384.13 feet above msl. Highest water level 7.00 above lsd, Aug. 27, 1952; lowest 9.35 below lsd, Nov. 5, 1934. Records available: 1931-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	-0.04	Apr. 28	-0.12	Aug. 1	+4.00	Oct. 29	+5.75
27	-.04	May 28	+1.00	27	+7.00	Nov. 28	+5.20
Mar. 31	-.06	June 26	+2.80	Sept. 24	+6.70	Dec. 31	+3.75

San Juan County

San Juan River area - Moab-Spanish Valley
(For other wells in this valley see Grand County.)

(D-28-22)1caa-1. State application 14265. State Road Commission. Drilled public supply water-table well in Entrada sandstone, diameter 6 inches, depth 114 feet. Highest water level 15.65 below lsd, Oct. 12, 1951; lowest 20.02 below lsd, Oct. 16, 1946. Records available: 1946-51. No measurement made in 1952.

(D-28-23)19dcc-1. State application 13070. U. S. Bureau of Land Management. Drilled stock artesian well in Kayenta formation, diameter 8 inches, depth 450 feet, cased to 42. Highest water level 279.24 below lsd, Oct. 12, 1951; lowest 264.75 below lsd, Oct. 6, 1949. Records available: 1946-51. No measurement made in 1952.

(D-30-23)10add-1. State claim 8429. State Road Commission. Drilled unused water-table well in Navajo sandstone, diameter 4 inches, depth 47 feet, cased to 4. Land-surface datum is 5,712.1 feet above msl. Highest water level 29.65 below lsd, Apr. 8, 1949; lowest 32.44 below lsd, Oct. 13, 1947. Records available: 1946-52. Nov. 1, 30.74.

(D-31-23)23add-1. State claim 8254. U. S. Bureau of Land Management. Drilled unused artesian well in Navajo sandstone, diameter 6 inches, depth 156 feet. Highest water level 100.0 below lsd, Oct. 18, 1946; lowest 101.33 below lsd, Oct. 15, 1947. Records available: 1946-52. Nov. 1, 101.17.

Sage Plain

(D-34-24)25aad-1. State application 16754. C. A. Frost. Drilled unused artesian well in Dakota sandstone, diameter 6 inches, depth 225 feet. Highest water level 171.90 below lsd, Oct. 18, 1946; lowest 176.93 below lsd, Nov. 10, 1950. Records available: 1946-51. No measurement made in 1952.

(D-34-26)4dad-1. State claim 8249. State Land Board. Drilled unused water-table well in Dakota sandstone, diameter 6 inches, depth 100 feet. Highest water level 41.63 below lsd, Apr. 9, 1949; lowest 44.81 below lsd, Oct. 16, 1947. Records available: 1946-51. No measurement made in 1952.

(D-36-22)27ddb-1. M. F. Lyman. Drilled unused water-table well in alluvium, diameter 5 inches, depth 30 feet, cased to 20. Highest water level 12.49 below lsd, Jan. 19, 1951; lowest 23.90 below lsd, Jan. 28, 1944. Records available: 1942-52.

Jan. 4	14.39	Apr. 11	13.51	July 17	15.38	Oct. 10	17.05
11	12.40	16	14.40	24	15.36	17	17.18
18	13.35	25	14.69	28	15.49	24	17.20
25	13.03	May 2	14.75	Aug. 2	15.42	30	17.20
Feb. 1	12.90	9	14.71	8	15.62	Nov. 7	17.20
8	12.78	16	14.68	15	15.91	14	17.20
15	12.79	23	14.95	22	16.10	21	17.50
22	12.82	29	13.61	29	16.23	28	17.35
26	13.00	June 5	15.01	Sept. 5	16.41	Dec. 5	17.53
Mar. 7	13.33	12	14.90	12	16.42	12	17.72
14	13.76	19	14.84	19	16.71	19	17.61
22	14.10	26	15.04	26	16.88	26	17.40
28	14.03	July 3	15.28	29	16.91	29	17.33
Apr. 4	14.30	10	15.22	Oct. 3	17.01		

(D-36-22)27ddb-2. M. F. Lyman. Drilled unused artesian well in Dakota sandstone, diameter 5 inches, depth 150 feet, cased to 34. Highest water level 49.04 below lsd, Nov. 16, 1952; lowest 54.90 below lsd, Sept. 25, 1946. Records available: 1942-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	50.09	.....	50.23	.....	49.89	49.96	49.88	.....	49.78	49.45	49.60
2	.....	49.65	49.55	50.13	50.09	49.97	50.01	49.82	.....	.....	49.53	49.29
3	.....	50.02	49.95	50.07	50.09	49.92	50.05	49.83	.....	.....	49.86	49.39
4	.....	.....	50.01	50.22	50.09	.....	50.07	49.80	.....	.....	49.70	49.83
5	50.99	.....	50.08	50.25	50.07	.....	50.01	.....	.....	.....	49.64	49.68
6	51.02	.....	50.13	50.25	49.99	49.92	49.96	.....	49.89	.....	49.58	49.42
7	50.64	.....	50.05	.....	50.00	49.93	.....	.....	49.88	49.92	49.62	49.41
8	50.68	50.14	49.86	.....	49.98	49.93	50.02	.....	.....	49.86	49.51	49.39
9	51.10	.....	49.64	.....	49.87	49.87	49.96	.....	49.80	49.83	49.61	49.64
10	51.12	.....	49.79	.....	50.04	49.82	49.94	.....	49.60	49.83	49.69	49.81
11	50.95	.....	49.65	.....	49.99	49.82	49.87	.....	49.56	49.88	49.74	49.71
12	50.89	.....	49.92	49.83	50.00	49.84	49.89	.....	49.57	49.88	49.55	49.84
13	50.78	.....	49.79	50.01	49.98	49.90	.....	.....	49.74	.....	49.45	49.82
14	50.83	.....	.....	49.85	49.78	49.94	.....	.....	49.86	49.78	49.34	49.75
15	50.84	.....	50.14	.....	49.60	49.92	.....	49.87	49.81	49.80	49.24	49.75
16	50.79	49.90	49.74	50.02	.....	50.02	.....	49.80	49.82	.....	49.09	49.57
17	50.93	49.76	49.68	50.03	49.82	50.01	49.84	49.84	49.81	.....	49.69	49.46
18	50.67	49.74	49.98	50.00	49.97	49.96	49.84	49.82	49.80	49.95	.....	49.34
19	50.80	49.84	49.95	49.90	49.96	49.90	49.82	49.83	49.81	49.82	.....	49.53
20	50.75	50.01	49.73	49.79	.....	49.80	.....	49.88	49.83	49.77	49.60	49.51
21	50.59	49.99	49.76	.....	.....	49.78	.....	.....	.....	49.82	49.36	49.29
22	50.81	50.04	.....	.....	.....	49.82	.....	49.86	.....	49.86	49.40	49.46
23	51.00	50.06	50.11	.....	.....	49.76	.....	.....	.....	49.92	49.37	49.37
24	50.87	50.13	49.93	.....	50.03	49.65	.....	.....	.....	49.83	49.29	49.58
25	50.70	50.38	49.95	50.13	49.93	49.69	49.98	.....	.....	49.79	49.44	49.62
26	.....	50.40	50.03	50.07	.....	49.76	50.00	.....	49.93	.....	49.56	49.72
27	.....	50.22	50.18	49.82	.....	49.86	49.97	.....	.....	.....	49.61	49.68
28	.....	49.98	50.15	.....	.....	49.97	49.94	.....	.....	.....	49.45	49.56
29	.....	49.98	50.03	.....	49.90	50.03	49.85	49.80	49.80	.....	49.64	49.54
30	.....		49.92	.....	49.80	50.01	.....	.....	49.81	49.66	49.45	49.51
31	.....		49.94		49.83		49.95	.....		49.63		49.42

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. Drilled irrigation water-table well in alluvium, diameter 12 inches, depth 186 feet, cased to 186, perforations 50-186. Land-surface datum is 5,500 feet above msl. Highest water level 29.52 below lsd, Dec. 6, 1945; lowest 37.58 below lsd, Sept. 5, 1935. Records available: 1935-52. Apr. 7, 32.12; Dec. 8, 29.55.

(D-20-1)20aaa-1. State claim 6356. Federal Land Bank. Dug domestic stock water-table well in alluvium, diameter 4 feet, depth 66 feet. Highest water level 28.49 below lsd, Dec. 13, 1948; lowest 48.52 below lsd, Apr. 22, 1936. Records available: 1935-52. Apr. 7, 39.52; Dec. 8, 33.52.

Sanpete Valley

(D-15-3)8cda-3. State claim 13671. William Prestwich. Jetted stock artesian well in alluvium, diameter 1½ inches, depth 75 feet. Land-surface datum is 5,510.72 feet above msl. Highest water level 3.83 above lsd, Mar. 20, 1944; lowest 1.25 above lsd, Oct. 14, 1939. Records available: 1937-52. Apr. 8, +2.24; Dec. 9, +3.17.

(D-15-4)4dda-1. State claim 3606. Twin Creek Irrigation Co. Drilled irrigation artesian well in alluvium, diameter 12 inches, depth 245 feet, perforations 18-240. Land-surface datum is 5,820.05 feet above msl. Highest water level 4.82 below lsd, Aug. 11, 1942; lowest 31.31 below lsd, Mar. 2, 1936. Records available: 1935-52. Apr. 8, 27.23; Dec. 9, 9.29.

(D-16-3)14dca-1. State claim 65. Chris Larsen. Drilled unused water-table well in alluvium, diameter 10 inches, depth 275 feet. Highest water level 10.58 below lsd, July 23, 1948; lowest 14.51 below lsd, Oct. 14, 1939. Records available: 1938-52. Apr. 8, 11.86; Dec. 9, 11 71

(D-16-3)15aca-1. State claim 8492. Federal Land Bank. Jetted stock water-table well in alluvium, diameter 3 inches, depth 70 feet, cased to 70. Highest water level 25.93 below lsd, Dec. 9, 1952; lowest 38.96 below lsd, Feb. 7, 1940. Records available: 1937-52. Apr. 8, 32.36; Dec. 9, 25.93.

(D-16-3)32ddc-2. George L. Beal. Jetted unused artesian well in alluvium, diameter 1½ inches, depth 145 feet, cased to 130. Land-surface datum is 5,461.5 feet above msl. Highest water level 27.9 above lsd, Aug. 19, 1952; lowest 3.57 below lsd, June 18, 1936. Records available: 1935-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	11.0	10.3	9.9	10.1	11.1	16.3	25.1	....	26.6	25.9	24.8	23.4
2	....	10.2	10.0	9.9	11.2	16.9	25.6	....	26.7	....	....	23.2
3	....	10.3	10.3	9.9	11.2	16.7	25.7	....	26.8	....	....	23.1
4	10.8	10.4	10.1	10.0	11.3	16.3	25.3	....	26.9	....	24.5	23.2
5	10.5	10.2	10.0	9.9	11.5	18.0	25.3	....	26.8	25.9	24.4	23.1
6	10.5	10.5	10.2	....	11.6	18.3	25.7	....	26.7	26.0	24.6	23.2
7	10.6	10.6	10.2	10.2	11.7	18.8	....	27.2	26.8	26.1	24.5	23.1
8	10.5	10.5	10.1	10.1	11.8	19.8	....	27.3	26.5	25.9	24.4	23.1
9	10.5	10.3	10.1	10.2	11.8	20.2	....	27.4	26.6	25.8	....	....
10	10.5	10.4	10.4	10.3	....	20.8	....	27.4	26.6	25.7	....	23.2
11	10.6	10.6	....	....	....	21.1	....	27.5	26.3	....	24.3	22.9
12	....	10.2	....	....	12.8	21.2	26.5	....	....	....	24.4	22.9
13	....	....	....	....	12.8	....	26.8	....	....	25.3	24.2	22.8
14	10.5	10.5	....	....	12.7	....	26.8	....	26.7	25.4	24.0	22.8
15	....	10.5	10.3	10.6	12.9	....	26.9	....	26.6	25.4	23.9	22.8
16	....	10.3	10.0	10.5	12.8	....	27.1	27.3	....	25.7	24.0	22.7
17	....	10.3	10.3	10.6	13.1	....	....	27.4	....	....	23.7	22.6
18	....	10.1	10.1	10.7	13.8	....	....	27.5	....	....	24.0	22.6
19	....	....	9.9	10.7	13.8	22.6	....	27.9	....	....	23.8	23.1
20	....	....	10.0	10.7	....	22.8	27.5	27.1	26.0	24.9	23.7	22.5
21	10.7	10.5	9.9	10.8	14.1	22.9	27.4	26.9	26.2	25.0	23.6	22.6
22	10.5	10.3	9.9	10.8	14.1	23.1	27.2	26.5	26.0	25.0	23.8	22.9
23	10.3	10.0	10.2	10.7	14.3	23.3	26.8	25.5	26.2	25.1	23.8	22.5
24	10.5	10.2	10.3	10.9	14.6	23.0	....	25.9	....	23.9	23.5	22.8
25	10.6	10.3	10.1	10.9	14.8	23.4	....	25.9	....	24.0	23.4	22.7
26	....	10.3	10.1	10.9	....	....	....	25.7	....	25.2	23.8	22.5
27	10.6	10.0	9.9	11.3	....	24.1	....	25.9	....	24.0	23.5	....
28	10.6	....	....	11.1	....	24.6	....	26.1	25.9	23.9	23.6	....
29	10.5	10.0	....	11.0	....	24.7	27.0	26.5	26.0	23.8	23.4	....
30	10.3		....	10.9	16.1	24.8	27.0	27.0	26.0	23.9	23.4	....
31	10.4		....		16.1		27.1	26.6		23.9		....

(D-17-3)9cbd-1. State claims 4446 and 8260. S. E. Christensen. Drilled irrigation artesian well in alluvium, diameter 10 inches, depth 285 feet, cased to 276, perforations 80-240. Land-surface datum is 5,518.8 feet above msl. Highest water level 12.49 below lsd, Aug. 10, 1942; lowest 51.87 below lsd, Apr. 24, 1936. Records available: 1935-52. Apr. 7, 40.67; Dec. 8, 18.68.

(D-18-2)1da. L. H. Hougaard. Drilled unused artesian well in alluvium, diameter 12 inches, depth 205 feet, cased to 205. Land-surface datum is 5,554.9 feet above msl. Highest water level 58.04 below lsd, July 23, 1937; lowest 81.60 below lsd, Apr. 23, 1936. Records available: 1935-52. Apr. 7, 79.72; Dec. 8, 65.27.

(D-19-2)17aad-1. State claim 13462. W. G. Frischknecht. Jetted stock artesian well in alluvium, diameter 2 inches, depth 107 feet, cased to 107. Highest water level 0.23 above lsd, Dec. 6, 1945; lowest 7.79 below lsd, Mar. 27, 1951. Records available: 1935-52. Apr. 7, 6.88; Dec. 8, 1.63.

Sevier County

Central Sevier Valley

(For other wells in this valley see Garfield, Piute, and Sanpete Counties.)

(C-21-1)27aad-1. State claim 8407. E. A. Thorsen. Driven domestic stock artesian well in alluvium, diameter 3 inches, depth 211 feet. Land-surface datum is 5,129.6 feet above msl. Highest water level 1.87 below lsd, Dec. 6, 1945; lowest 5.65 below lsd, Apr. 7, 1952. Records available: 1935-52. Apr. 7, 5.65; Dec. 8, 3.85.

(C-23-2)15bdd-3. State claim 1989. Sevier School District. Jetted unused artesian well in alluvium, diameter 3 inches, depth 167 feet, cased to 167. Land-surface datum is 5,233.5 feet above msl. Highest water level 9.25 above lsd, Dec. 7, 1942; lowest 4.55 above lsd, Apr. 22, 1936. Records available: 1936-52. Apr. 7, +5.8; Dec. 8, +8.1.

(C-23-2)19dab-1. State claim 8447. Wm. Hallows. Jetted unused artesian well in alluvium, diameter 2 inches, depth 310 feet, cased to 310. Highest water level 30.3 above lsd, Aug. 10, 1942; lowest 8.0 above lsd, Sept. 6, 1935. Records available: 1935-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	15.8	....	15.0	15.4	21.6	25.6	26.0	26.3	26.5	....	....
2	....	15.7	....	14.9	15.6	21.8	25.6	26.2	26.2	26.5	....	....
3	....	15.6	....	14.8	15.8	21.9	25.5	26.1	26.3	26.4	....	....
4	....	15.6	....	14.7	16.0	22.0	25.4	26.2	26.4	26.5	....	....
5	....	15.8	....	14.8	16.4	22.3	25.4	26.2	26.4	26.5	....	....
6	....	15.6	....	14.7	16.7	22.6	25.4	26.3	26.3	26.3	....	....
7	....	15.6	....	14.8	17.0	22.8	25.6	26.1	26.3	26.4	....	26.6
8	....	15.7	....	15.0	17.1	23.1	25.7	26.2	26.4	26.5	....	26.6
9	....	15.8	....	15.0	17.4	23.5	25.7	26.3	26.6	26.5	26.9	26.5
10	....	15.8	....	14.9	17.6	23.8	25.3	26.5	26.6	26.4	26.9	26.4
11	....	15.7	....	15.4	18.1	24.1	25.4	26.4	26.6	26.4	26.9	26.4
12	16.2	15.8	....	14.6	18.4	24.2	25.6	26.4	26.3	26.4	27.2	26.5
13	16.2	....	....	15.0	18.6	24.4	25.4	26.4	....	26.5	27.1	26.5
14	16.1	....	....	14.9	18.7	24.6	25.5	26.4	26.3	26.4	27.0	26.6
15	16.3	....	....	15.0	18.7	25.0	25.6	26.5	26.4	....	26.9	26.7
16	16.2	....	....	15.0	18.7	25.1	25.7	26.5	26.5	....	26.9	26.5
17	16.0	15.6	....	14.9	18.7	25.1	26.7	26.3	26.4	....	26.8	26.5
18	16.2	....	....	14.9	18.9	25.2	25.8	26.4	26.4	....	26.7	26.5
19	16.0	....	....	15.0	19.1	25.4	25.8	26.3	26.5	26.5	26.5	26.4
20	16.3	....	....	15.0	19.2	25.5	25.8	26.3	26.4	26.4	26.9	26.2
21	16.1	....	....	15.0	19.3	25.3	25.8	26.3	26.4	26.5	26.8	26.4
22	16.1	....	....	15.0	19.4	25.5	25.9	26.3	26.3	26.5	26.7	26.1
23	15.9	....	....	15.2	19.4	25.3	25.9	26.3	26.4	26.6	26.7	26.1
24	16.0	....	14.8	15.1	19.6	25.2	25.9	26.3	26.5	....	....	26.2
25	16.1	....	14.8	15.4	20.0	25.2	25.8	26.3	26.5	....	26.6	26.1
26	15.7	....	14.7	15.3	20.2	25.4	....	26.4	26.5	....	....	26.0
27	15.7	....	14.7	15.3	20.4	25.0	25.9	26.2	26.5	....	....	26.0
28	15.7	....	15.0	15.5	20.7	25.0	25.9	26.4	26.7	....	26.4	26.3
29	15.9	....	15.7	15.6	20.9	25.5	25.9	26.2	26.5	....	26.5	26.0
30	15.9		14.9	15.6	21.3	25.5	26.1	....	26.4	....	....	26.1
31	15.7		14.9		21.5		26.1	....		....		26.1

(C-23-2)26cdb-1. State claim 323. N. C. Johnson. Jetted stock artesian well in alluvium, diameter 4 inches, depth 48 feet, cased to 48. Land-surface datum is 5,249.9 feet above msl. Highest water level 8.5 above lsd, Dec. 8, 1952; lowest 2.80 above lsd, Aug. 22, 1939. Records available: 1935-52. Apr. 7, +6.1; Dec. 8, +8.5.

(C-25-4)2db. R. W. Pinney. Drilled unused water-table well in alluvium, diameter 3 inches, depth 89 feet, cased to 89. Highest water level 44.86 below lsd, July 21, 1948; lowest 53.63 below lsd, Apr. 7, 1952. Records available: 1939-52. Apr. 7, 53.63; Dec. 8, 47.16.

Grass Valley

(C-26-1)25acc-1. State claim 3159. A. R. Brown. Jetted stock artesian well in alluvium, diameter 2 inches, depth 127 feet, cased to 50. Land-surface datum is 6,862.9 feet above msl. Highest water level 18.5 above lsd, Apr. 18, 1939; lowest 11.6 above lsd, Aug. 9, 1942. Records available: 1935-52. Dec. 7, +17.5.

Summit County

Rhodes Valley

(D-1-6)19dad-1. State claim 3699. A. W. Frazier. Dug unused water-table well in alluvium, diameter 60 to 8 inches, depth 35 feet. Highest water level 1.87 below lsd, June 22, 1939; lowest 17.95 below lsd, Mar. 9, 1942. Records available: 1938-52. Apr. 17, 9.15; Dec. 29, 14.95.

(D-2-6)5dbb. Burton Peterson. Dug unused water-table well in alluvium, diameter 8 inches, depth 10 feet. Highest water level 2.28 below lsd, June 4, 1941; lowest 8.72 below lsd, Mar. 9, 1942. Records available: 1938-52. Apr. 17, 5.88; Dec. 29, 7.38.

Tooele County

Rush Valley

(C-5-5)2bcb-1. Alma Young. Dug stock domestic water-table well in alluvium, diameter 5 feet, depth 34 feet. Highest water level 23.11 below lsd, Apr. 10, 1952; lowest 26.95 below lsd, Sept. 13, 1940. Records available: 1935-52. Apr. 10, 23.11; Dec. 31, 23.38.

(C-8-5)31aad-1. D. J. Fredrickson. Drilled unused artesian well in alluvium, diameter 14 inches. Highest water level 18.18 below lsd, May 13, 1941; lowest 20.58 below lsd, Dec. 20, 1948. Records available: 1941-52. Nov. 25, 18.82.

(C-9-5)6bca-1. State claim 8285. Vernon Irrigation Co. Drilled unused artesian well in alluvium, diameter 15 inches, depth 75 feet, cased to 60. Highest water level 15.66 below lsd, Feb. 18, 1939; lowest 20.18 below lsd, Oct. 20, 1942. Records available: 1936-52. Apr. 10, 16.87; Nov. 23, 17.15.

Tooele Valley

(C-2-4)1bcc-1. Jesse Long. Dug unused water-table well in alluvium, diameter 4 feet, depth 50 feet, cased to 50. Highest water level 31.74 below lsd, Dec. 15, 1940; lowest 36.99 below lsd, Feb. 24, 1941. Records available: 1940-52. Apr. 10, 34.42; Dec. 22, 32.72.

(C-2-4)16aad-2. State claim 14209. Utah Wool Pulling Co. Jetted unused artesian well in alluvium, diameter 4 inches, depth 300 feet, cased to 300. Land-surface datum is 4,261.8 feet above msl. Highest water level 5.13 below lsd, Dec. 28, 1949; lowest 7.07 below lsd, Oct. 1, 1940. Records available: 1940-52. Apr. 10, 5.62; Dec. 22, 5.35.

(C-2-4)33add-1. State claim 899. Ida Clegg. Drilled unused artesian well in alluvium, diameter 6 inches, depth 165 feet, cased to 160, perforations 60-100. Land-surface datum is 4,417.92 feet above msl. Highest water level 30.16 below lsd, Apr. 9, 1950; lowest 46.90 below lsd, Oct. 9, 1939. Records available: 1937-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.71	32.53	32.30	32.29	32.23	33.49	34.38	34.75	35.12	34.92	34.70	33.86
2	32.75	32.50	32.30	32.23	32.25	33.52	34.53	34.75	35.11	34.89	34.73	33.78
3	32.75	32.57	32.41	32.28	32.23	33.54	34.53	34.70	35.08	34.89	34.74	33.85
4	32.71	32.54	32.38	32.29	32.30	33.61	34.53	34.70	35.06	34.92	34.69	33.87
5	32.69	32.53	32.39	32.27	32.30	33.61	34.56	34.77	35.06	34.93	34.64	33.78
6	32.65	32.54	32.38	32.23	32.32	33.61	34.59	34.79	35.06	34.94	34.62	33.77
7	32.55	32.48	32.37	32.17	32.49	33.70	34.64	34.80	35.10	34.94	34.60	33.67
8	32.62	32.47	32.36	32.22	32.60	33.71	34.65	34.80	35.11	34.91	34.47	33.76
9	32.71	32.47	32.29	32.26	32.66	33.75	34.66	34.81	35.11	34.96	34.48	33.80
10	32.61	32.48	32.23	32.19	32.68	33.82	34.66	34.85	35.10	35.00	34.46	33.75
11	32.56	32.45	32.24	32.14	32.69	33.83	34.67	34.83	35.14	35.03	34.44	33.72
12	32.56	32.42	32.32	32.22	32.77	34.05	34.55	34.85	35.12	35.03	34.39	33.75
13	32.59	32.47	32.27	32.22	32.82	34.06	34.64	34.87	35.16	35.02	34.39	33.72
14	32.56	32.49	32.33	32.16	32.88	34.10	34.60	34.87	35.11	35.05	34.30	33.68
15	32.62	32.48	32.33	32.23	32.96	34.20	34.63	34.87	35.08	35.01	34.31	33.66
16	32.60	32.40	32.21	32.24	32.98	34.22	34.68	34.98	35.04	34.97	34.28	33.63
17	32.71	32.33	32.25	32.23	33.06	34.22	34.74	35.01	35.05	35.01	34.34	33.60
18	32.64	32.38	32.25	32.21	33.09	34.24	34.75	35.03	35.05	35.01	34.34	33.57
19	32.64	32.41	32.27	32.16	33.10	34.27	34.75	35.03	35.04	34.86	34.31	33.59
20	32.51	32.41	32.25	32.19	33.09	34.30	34.73	35.11	35.04	34.84	34.25	33.56
21	32.56	32.39	32.32	32.21	33.13	34.21	34.75	35.14	35.03	34.83	34.20	33.60
22	32.56	32.41	32.29	32.23	33.17	34.22	34.77	35.14	35.02	34.82	34.16	33.57
23	32.58	32.35	33.35	32.23	33.18	34.21	34.77	35.15	35.01	34.80	34.07	33.55
24	32.52	32.41	32.25	32.22	33.25	34.27	34.72	35.12	35.02	34.79	34.00	33.55
25	32.48	32.49	32.31	32.22	33.26	34.28	34.73	35.14	35.02	34.69	34.00	33.54
26	32.52	32.48	32.33	32.18	33.30	34.27	34.72	35.15	35.01	34.64	33.99	33.54
27	32.63	32.40	32.28	32.18	33.36	34.28	34.69	35.15	34.97	34.63	33.96	33.53
28	32.62	32.36	32.24	32.25	33.36	34.30	34.68	35.18	34.95	34.59	33.93	33.49
29	32.56	32.39	32.24	32.27	33.40	34.31	34.70	35.18	34.95	34.53	33.92	33.48
30	32.54		32.24	32.27	33.45	34.35	34.72	35.25	34.94	34.69	33.87	33.45
31	32.53		32.27		33.45		34.75	35.12		34.68		33.42

(C-2-5)5acc-3. A. Searle. Jetted unused artesian well in alluvium, diameter 3 inches, depth 153 feet. Highest water level 0.19 below lsd, Apr. 10, 1952; lowest 1.42 below lsd, Oct. 4, 1940. Records available: 1940-42, 1944-52. Apr. 10, 0.19.

(C-2-5)25aab-1. State of Utah. Jetted stock artesian well in alluvium, diameter 2 inches, depth 300 feet. Highest water level 12.2 above lsd, Apr. 10, 1952; lowest 9.2 above lsd, Dec. 22, 1952. Records available: 1935-47, 1949-52. Apr. 10, +12.2; Dec. 22, +9.2.

(C-2-5)36caa-1. State claim 13692. J. A. and S. W. Smith. Drilled unused artesian well in alluvium, diameter 6 inches, depth 145 feet. Land-surface datum is 4,318.8 feet above msl. Highest water level 30.35 below lsd, Mar. 21, 1950; lowest 33.49 below lsd, Aug. 10, 1939. Records available: 1937-52. Apr. 10, 30.61; Dec. 22, 31.55.

(C-2-6)36bac-1. State application 12189. J. R. Clark. Drilled unused artesian well in alluvium, diameter 6 inches, depth 302 feet, cased to 302. Land-surface datum is 4,321.5 feet above msl. Highest water level 19.07 below lsd, Dec. 22, 1952; lowest 23.15 below lsd, Aug. 5, 1940. Records available: 1940-52. Apr. 10, 19.58; Dec. 22, 19.07.

(C-2-6)36cdd-1. E. C. Walk. Drilled unused artesian well in alluvium, diameter 6 inches, depth 176 feet, cased to 166. Land-surface datum is 4,373.7 feet above msl. Highest water level 72.82 below lsd, June 11, 1952; lowest 81.23 below lsd, Nov. 23, 1940. Records available: 1937, 1940-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.13	78.10	77.05	77.54	76.87	72.99	73.22	.....	.....	76.06	.....	77.02
2	78.14	78.11	77.05	77.54	76.79	72.93	73.27	.....	.....	76.08	.....	77.03
3	78.11	78.11	76.94	77.57	76.82	.....	73.28	.....	.....	76.10	.....	77.10
4	78.08	78.09	76.99	77.58	76.75	.....	.....	.....	.....	76.12	.....	77.09
5	78.07	78.11	76.99	77.57	.....	72.89	.....	.....	.....	76.15	.....	77.01
6	78.10	78.15	76.97	.....	.....	72.88	.....	.....	.....	76.20	.....	.....
7	78.11	78.12	77.00	77.53	.....	72.91	.....	.....	.....	76.21	.....	76.90
8	78.05	78.13	77.03	77.57	.....	72.90	.....	.....	.....	76.22	.....	77.00
9	78.05	78.12	77.05	77.53	.....	72.86	.....	.....	.....	76.25	76.70	77.03
10	78.05	78.12	77.08	77.47	.....	72.88	.....	.....	.....	76.28	.....	77.00
11	78.05	78.10	77.14	77.47	.....	72.82	.....	.....	.....	76.29	.....	77.02
12	78.03	78.10	77.21	77.50	.....	72.92	.....	.....	.....	76.29	.....	77.06
13	78.02	.....	77.22	77.45	.....	72.87	74.40	.....	.....	76.30	.....	77.05
14	.....	.....	77.29	77.44	.....	72.85	.....	.....	.....	76.34	.....	77.04
15	77.99	78.00	.....	77.41	.....	72.92	.....	.....	.....	76.33	.....	77.02
16	78.05	77.89	77.32	77.38	.....	72.86	.....	.....	75.68	76.34	.....	77.02
17	78.03	77.83	77.31	77.33	.....	72.83	73.55	.....	75.71	76.37	76.82	77.02
18	78.05	77.80	77.34	77.34	.....	.....	.....	.....	75.75	76.38	76.84	77.02
19	78.03	77.73	77.36	77.31	.....	.....	.....	.....	75.77	76.39	76.83	77.05
20	78.05	77.63	77.40	.....	.....	.....	.....	.....	75.80	.....	76.80	77.04
21	78.07	77.59	77.43	77.32	.....	.....	.....	.....	75.84	.....	76.79	77.07
22	.....	77.46	.....	77.29	.....	72.89	.....	.....	75.86	.....	76.80	77.05
23	78.08	77.31	.....	77.25	.....	72.91	.....	.....	75.84	.....	76.82	77.07
24	78.07	77.27	77.42	77.20	.....	72.91	.....	.....	75.88	.....	76.80	77.06
25	78.10	77.18	77.45	77.16	.....	72.97	.....	.....	75.90	.....	76.84	77.08
26	78.14	77.13	77.49	77.06	.....	72.98	.....	.....	75.92	.....	76.85	77.08
27	78.17	77.04	77.49	.....	73.85	73.02	.....	.....	75.93	.....	76.83	77.05
28	78.15	77.05	77.26	77.05	73.56	73.07	.....	.....	75.96	.....	76.86	.....
29	78.14	.....	77.47	77.01	73.30	73.17	.....	.....	75.99	.....	77.04	.....
30	78.11		.....	76.94	73.13	73.23	.....	.....	76.04	.....	77.00	77.04
31	78.11		77.53		73.01		.....	.....		.....		77.05

(C-3-5)6dda-1. State application 9952. Federal Land Bank. Jetted unused water-table well in alluvium, diameter 3 inches, depth 120 feet, cased to 120, perforations 110-120. Land-surface datum is 4,362.4 feet above msl. Highest water level 50.32 below lsd, May 15, 1949; lowest 56.82 below lsd, Feb. 24, 1941. Records available: 1940-52. Apr. 10, 51.04; Dec. 22, 50.84.

Uintah County

Uinta Basin
(For other wells in this basin see Duchesne County.)

U(B-1-1)2caa-2. Ralph Redfoot. Drilled unused water-table well in alluvium, diameter 8 inches, depth 50 feet, cased to 50. Highest water level 5.70 below lsd, June 29, 1937; lowest 34.42 below lsd, Oct. 23, 1946. Records available: 1936-52. Oct. 28, 25.80.

U(D-1-1)23abb-1. Albert Daniels. Drilled domestic artesian well in alluvium, diameter 5 inches, depth 250 feet, cased to 75. Highest water level 10.80 below lsd, Aug. 2, 1942; lowest 19.11 below lsd, Oct. 8, 1942. Records available: 1935-46, 1949-52. Oct. 28, 12.25.

(D-4-21)12acc-1. Lonzo McCarrel. Dug unused water-table well in alluvium, diameter 4 feet, depth 16 feet. Land-surface datum is 5,256.7 feet above msl. Highest water level 1.43 below lsd, July 6, 1950; lowest 15.54 below lsd, Apr. 30, 1946. Records available: 1939-52. Oct. 28, 7.70.

(D-4-21)16bba-1. Wm. Schaefermeyer. Dug unused water-table well in alluvium, diameter 6 inches, depth 25 feet. Land-surface datum is 5,529.5 feet above msl. Highest water level 8.62 below lsd, July 6, 1950; lowest 20.42 below lsd, Feb. 3, 1949. Records available: 1948-52. Feb. 7, 19.32; Oct. 28, 17.82.

(D-4-21)23dbb-2. State application 16752. Ella Preas. Drilled unused water-table well in alluvium, diameter 4 inches, depth 18 feet. Land-surface datum is 5,319.1 feet above msl. Highest water level 7.48 below lsd, June 7, 1948; lowest 10.23 below lsd, Feb. 5, 1951. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	10.11	Apr. 3	9.31	July 23	8.37	Oct. 28	8.60
14	10.07	14	8.93	29	8.40	Nov. 6	9.79
21	10.00	24	9.11	Aug. 5	8.43	12	9.99
Feb. 4	9.88	May 14	8.99	13	8.45	26	10.05
12	9.78	20	8.69	23	8.50	Dec. 3	10.07
20	9.83	June 2	8.50	Sept. 10	8.67	15	10.09
27	9.91	13	8.37	23	8.61	22	10.04
Mar. 13	9.80	July 11	8.34	30	8.63	31	10.08
24	9.57						

(D-4-22)32dcd-1. Standard Oil of California. Drilled unused water-table well in alluvium, diameter 6 inches, depth 56 feet. Land-surface datum is 5,097.55 feet above msl. Highest water level 1.53 below lsd, Oct. 28, 1952; lowest 3.83 below lsd, Apr. 6, 1949. Records available: 1948-52. Oct. 28, 1.53.

(D-5-21)2dcb-1. State application 18686. George C. Davis. Drilled stock water-table well in alluvium, diameter 6 inches, depth 50 feet. Land-surface datum is 5,410.4 feet above msl. Highest water level 4.74 below lsd, June 7, 1948; lowest 13.58 below lsd, Feb. 5, 1951. Records available: 1948-52. Feb. 6, 13.15; Oct. 28, 10.86.

Utah County

Cedar Valley

(C-6-2)29cac-1. Marsh Williams. Drilled unused artesian well in alluvium, diameter 4 inches. Land-surface datum is 4,876.3 feet above msl. Highest water level 6.4 above lsd, Dec. 31, 1952; lowest 3.42 above lsd, Mar. 24, 1944. Records available: 1943-50, 1952. Apr. 22, +3.6; Dec. 31, +6.4.

Goshen Valley

(C-10-1)2aad-1. State claim 5206. Albert Morgan. Jetted unused artesian well in alluvium, diameter 2 inches, depth 84 feet, cased to 84. Highest water level 7.31 below lsd, Nov. 25, 1941; lowest 13.48 below lsd, Aug. 26, 1938. Records available: 1938-52. Apr. 4, 13.07; Nov. 17, 12.48.

Utah Lake Valley - North Utah Basin

(D-5-1)14adb-1. State claim 8371. American Fork Irrigation Co. Drilled unused artesian well in alluvium, diameter 14 to 10 inches, depth 350 feet, cased to 350, perforations 230-240, 259-346. Land-surface datum is 4,648.42 feet above msl. Highest water level 45.02 below lsd, July 5, 1952; lowest 65.76 below lsd, May 20, 1941. Records available: 1937-52.

(D-5-1)14adb-1 -- Continued.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	55.62	55.73	56.21	57.00	56.83	.....	.....	45.45	.....	.....	46.60	47.20
2	55.75	55.53	56.29	56.83	56.91	.....	.....	45.49	.....	.....	46.83	46.93
3	55.58	55.87	56.28	.....	56.79	.....	45.45	.....	.....	46.40	46.87	47.24
4	55.47	55.86	56.11	.....	56.65	.....	45.22	.....	.....	.....	46.80	47.47
5	55.52	55.87	55.96	.....	56.65	.....	45.02	.....	.....	.....	46.67	47.12
6	55.38	55.90	55.86	.....	56.48	.....	45.18	.....	.....	.....	46.65	47.03
7	55.11	.....	55.99	.....	.....	.....	.....	.....	.....	.....	.....	46.95
8	55.38	55.78	55.62	.....	.....	.....	.....	.....	.....	.....	.....	47.19
9	55.78	55.81	.....	.....	56.77	.....	.....	.....	45.21	.....	.....	47.48
10	55.56	55.77	.....	56.86	56.76	.....	.....	.....	.....	.....	.....	47.34
11	55.38	55.73	.....	56.76	56.46	.....	45.24	.....	.....	.....	.....	.....
12	55.39	55.62	56.45	57.04	56.21	48.09	45.14	.....	.....	.....	46.63	47.48
13	55.25	55.86	56.26	57.08	56.05	48.03	45.12	45.83	.....	.....	46.69	47.42
14	55.43	56.00	.....	.....	55.90	47.64	45.22	46.06	.....	.....	46.59	47.29
15	55.43	.....	.....	.....	55.64	.....	.....	.....	.....	.....	46.58	47.13
16	55.40	55.80	.....	.....	55.25	.....	.....	.....	.....	.....	46.61	47.03
17	55.71	55.65	.....	57.09	55.20	.....	.....	.....	47.59	.....	46.89	46.96
18	.....	55.77	56.56	56.79	55.03	47.29	.....	.....	.....	46.57	47.15	46.97
19	.....	56.01	56.53	56.83	54.70	47.07	.....	.....	.....	.....	47.11	47.01
20	.....	56.03	56.56	56.90	54.39	46.90	45.43	.....	.....	.....	46.92	46.93
21	.....	55.90	56.75	56.93	53.90	46.70	45.42	45.86	.....	.....	46.79	46.95
22	.....	56.09	56.89	56.87	53.66	46.47	45.43	46.03	.....	.....	46.92	47.04
23	55.72	55.98	56.78	56.80	53.28	46.26	45.62	.....	.....	.....	46.98	46.95
24	55.59	56.19	56.52	57.07	53.00	46.10	45.60	.....	.....	.....	46.95	46.95
25	55.44	56.38	56.72	.....	52.62	.....	45.56	.....	.....	.....	47.10	46.93
26	55.73	56.43	56.79	.....	52.38	45.44	45.38	.....	46.52	.....	47.26	.....
27	55.95	56.42	56.91	.....	52.26	45.16	45.25	.....	.....	.....	47.18	46.96
28	55.86	56.40	56.74	.....	51.96	45.21	45.45	.....	.....	.....	47.21	46.78
29	55.71	56.25	56.61	.....	.....	45.25	.....	.....	.....	.....	47.27	46.77
30	55.66		56.60	56.82	.....	45.46	.....	.....	.....	.....	47.15	46.70
31	55.62		56.78		.....		.....	.....		46.85		46.58

(D-5-1)20aba-1. State claim 6860. Jacob G. Cox. Jetted irrigation artesian well in alluvium, diameter 3 inches, depth 292 feet, cased to 292. Land-surface datum is 4,522.1 feet above msl. Highest water level 56.5 above lsd, Dec. 18, 1945; lowest 35.4 above lsd, Sept. 25, 1935. Records available: 1935-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	Day	Jan.	Feb.	Mar.	Apr.	May
1	....	....	51.0	....	51.0	17	52.3	50.8	51.2	51.7	....
2	....	52.2	50.9	....	51.1	18	52.5	50.9	50.8	51.7	....
3	52.5	52.1	50.8	....	51.0	19	52.1	50.8	50.9	51.8	....
4	52.6	51.9	50.9	....	51.2	20	52.2	51.0	50.8	51.8	....
5	52.3	52.0	51.0	....	51.4	21	52.2	50.8	50.7	51.7	....
6	52.4	52.2	51.0	51.7	51.2	22	52.2	51.2	50.7	51.6	....
7	52.4	52.2	50.8	51.7	51.2	23	52.2	50.8	50.8	51.2	....
8	52.3	52.2	50.9	51.8	51.2	24	52.2	50.8	50.9	51.5	....
9	52.3	52.0	51.0	51.8	51.1	25	52.4	50.9	....	51.7	....
10	52.4	52.0	50.9	51.8	50.8	26	52.2	50.8	....	51.6	....
11	52.2	52.2	50.8	51.8	50.8	27	52.1	50.9	....	51.5	....
12	52.0	52.3	50.9	51.8	50.7	28	52.3	51.0	....	51.7	....
13	52.2	52.2	51.0	51.6	50.5	29	52.2	50.9	....	51.4	....
14	52.2	51.0	50.8	51.6	....	30	52.0		....	51.2	....
15	52.2	51.0	51.0	51.7	50.0	31	52.1		....		....
16	52.5	50.8	51.0	51.6	50.2						

(D-5-1)20aba-2. State claim 6861. Jacob G. Cox. Jetted unused artesian well in alluvium, diameter $2\frac{1}{2}$ to 2 inches, depth 154 feet, cased to 152. Land-surface datum is 4,522.0 feet above msl. Highest water level 36.4 above lsd, Mar. 30, 1948; lowest 9.55 above lsd, Sept. 25, 1935. Records available: 1935-52.

(D-5-1)20aba-2 -- Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	31.6	Feb. 19	31.4	Apr. 8	35.1	May 1	31.5
16	31.2	20	31.2	13	34.4	2	32.1
17	31.2	21	31.3	14	34.4	3	31.8
18	31.3	28	30.4	15	34.3	4	31.8
19	31.3	Mar. 4	30.9	16	34.2	5	31.5
20	31.1	5	31.1	23	34.0	8	29.9
23	31.3	7	31.5	24	34.1	7	30.2
24	31.2	13	31.2	25	33.5	8	30.2
25	31.3	14	31.5	26	33.1	9	30.1
28	31.3	24	32.2	27	32.9	10	29.4
27	31.2	25	32.1	28	32.3	11	29.5
Feb. 1	31.5	Apr. 6	33.9	29	31.9	16	26.5
2	31.4	7	35.0	30	31.6		

(D-5-1)23dab-3. State claim 17054. City of American Fork. Drilled unused artesian well in alluvium, diameter 3 inches, depth 265 feet, cased to 265. Land-surface datum is 4,566.0 feet above msl. Highest water level 30.0 above lsd, Dec. 11, 1952; lowest 12.8 above lsd, Mar. 17, 1941. Records available: 1940-52. Apr. 8, +21.2; Dec. 11,+30.0.

(D-6-2)10add-1. State claim 3123. City of Orem. Drilled irrigation water-table well in alluvium, diameter 12 inches, depth 101 feet, cased to 101. Land-surface datum is 4,780 feet above msl. Highest water level 37.35 below lsd, June 18, 1940; lowest 53.80 below lsd, Feb. 28, 1940. Records available: 1940-52. Apr. 8, 37.44; Dec. 11, 38.55.

(D-6-2)28bad-1. State claim 2087. Henry Williamson. Jetted irrigation artesian well in alluvium, diameter 4 inches, depth 110 feet, cased to 110. Land-surface datum is 4,516.8 feet above msl. Highest water level 17.2 above lsd, Dec. 18, 1945; lowest 7.35 above lsd, Dec. 14, 1935. Records available: 1935-52. Apr. 8, +14.8.

South Utah Basin

(D-8-1)13aaa-1. State claim 14076. R. G. Francis. Jetted irrigation artesian well in alluvium, diameter 4 to 2 inches, depth 358 feet, cased to 358. Land-surface datum is 4,498.56 feet above msl. Highest water level 18.6 above lsd, Dec. 17, 1946; lowest 8.8 above lsd, Aug. 8, 1936. Records available: 1936-51. No measurement made in 1952.

(D-8-2)4cba-2. State claim 10844. Mary G. Barney. Jetted irrigation well in alluvium, diameter 2 inches, depth 330 feet. Land-surface datum is 4,501.09 feet above msl. Highest water level 38.1 above lsd, Dec. 16, 1952; lowest 23.3 above lsd, Aug. 25, 1938. Records available: 1937-52. Apr. 9, +35.0; Dec. 16, +38.1.

(D-8-3)4cad-1. State application 11830. Springville Canning Co. Jetted industrial artesian well in alluvium, diameter 4 inches, depth 231 feet. Highest water level 36.0 above lsd, Dec. 11, 1952; lowest 16.7 above lsd, Aug. 31, 1935. Records available: 1935-52. Apr. 8, +24.3; Dec. 11, +36.0.

(D-9-1)1cbc-2. State claim 8344. Drought Relief Administration. Drilled unused artesian well in alluvium, diameter 8 inches. Highest water level 0.58 below lsd, Apr. 9, 1952; lowest 3.10 below lsd, Jan. 21, 1941. Records available: 1940-52. Apr. 9, 0.56; Dec. 16, 1.35.

(D-9-2)5ddc-2. State claim 1139. Payson City Corp. Jetted unused artesian well in alluvium, diameter 3 inches, depth 170 feet, cased to 170. Land-surface datum is 4,577 feet above msl. Highest water level 20.2 above lsd, Aug. 22, 1943; lowest 6.55 above lsd, July 31, 1935. Records available: 1935-52. Apr. 9, +14.9; Dec. 16, +20.0.

Wasatch County

Heber Valley

(D-2-5)20cc. Lee Bros. Dug domestic stock water-table well in alluvium, diameter 24 inches, depth 29 feet. Land-surface datum is 6,021.2 feet above msl. Highest water level 18.90 below lsd, Apr. 16, 1952; lowest 29.00 below lsd, Dec. 16, 1952. Records available: 1936-52.

(D-2-5)20cc -- Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 16	18.90	June 21	25.20	Sept. 24	26.25	Dec. 16	29.00
17	20.70	July 20	25.70	Oct. 18	25.95	29	26.29
May 17	22.88	Aug. 17	26.08	Nov. 18	25.90		

(D-3-5)29cac-1. Miles Clyde. Dug domestic water-table well in alluvium, diameter 4 feet, depth 15 feet. Highest water level 0.80 below lsd, June 24, 1949; lowest 10.82 below lsd, Mar. 9, 1942. Records available: 1936-52. Apr. 17, 3.51; Dec. 29, 7.96.

Washington County

Escalante Valley

(For other wells in this valley see Beaver, Iron, and Millard Counties.)

(C-37-16)6ccc-1. State application a2298. LeRoy Adams. Drilled irrigation well in alluvium, diameter 14 inches, depth 200 feet, cased to 200. Land-surface datum is 5,285.2 feet above msl. Highest water level 76.60 below lsd, May 19, 1952; lowest 105.34 below lsd, Oct. 14, 1951. Records available: 1945, 1947-52. Apr. 4, 95.40; May 8, 77.80; May 19, 76.60; June 30, 81.75; Oct. 8, 88.28; Nov. 21, 86.10.

(C-37-17)12cbc-1. Charles Sides. Drilled irrigation artesian well in alluvium, diameter 14 inches. Land-surface datum is 5,300 feet above msl. Highest water level 17.50 below lsd, May 8, 1952; lowest 37.85 below lsd, Oct. 14, 1951. Records available: 1941-52. Apr. 4, 27.45; May 8, 17.50; July 1, 29.5, pumping; Oct. 8, 31.37; Nov. 21, 30.17.

(C-37-17)14adc-1. John C. Bosshardt. Dug stock water-table well in alluvium, diameter 4 feet, depth 60 feet. Highest water level 31.84 below lsd, Mar. 21, 1947; lowest 47.25 below lsd, Oct. 16, 1951. Records available: 1941-52. Nov. 21, 40.12.

Virgin River Valley

(C-38-12)20bba-1. State application 16635. E. G. Graff. Drilled irrigation artesian well in alluvium, diameter 12 inches, depth 220 feet. Highest water level 40.26 below lsd, Mar. 27, 1950; lowest 44.65 below lsd, Dec. 7, 1951. Records available: 1947-52. Apr. 4, 42.06; Dec. 5, 43.19.

(C-41-13)7dba-1. State application 17859. Clair Sterling. Drilled unused artesian well in alluvium, diameter 12 inches, depth 98 feet. Highest water level 0.14 below lsd, June 2, 1952; lowest 8.29 below lsd, Dec. 7, 1951. Records available: 1947-52. Jan. 30, 4.93; Apr. 4, 3.76; Apr. 19, 3.67; June 2, 0.14; July 23, 2.15; Dec. 5, 2.49.

(C-42-11)3ac. Drought Relief Administration. Drilled domestic stock water-table well in alluvium, diameter 6 to 5 inches, depth 62 feet, cased to 62, perforations 40-62. Highest water level 17.09 below lsd, Dec. 6, 1937; lowest 19.12 below lsd, Mar. 24, 1940. Records available: 1934, 1936-52. Dec. 6, 18.59.

(C-42-16)22cba-1. State application 18001. Clyde Graff. Drilled irrigation artesian well in alluvium, diameter 16 inches, depth 92 feet. Highest water level 20.08 below lsd, Mar. 28, 1950; lowest 21.76 below lsd, Dec. 7, 1950. Records available: 1947-52. Apr. 4, 21.40; Dec. 5, 20.88.

(C-42-16)24bba-1. State application 20557. Bryon Thornton. Drilled industrial artesian well in alluvium, diameter 4 inches, depth 185 feet. Highest water level 24.68 below lsd, Mar. 25, 1951; lowest 35.07 below lsd, Dec. 7, 1951. Records available: 1949-52. Apr. 4, 26.55; Dec. 5, 34.89.

Wayne County

Fremont Valley

(D-28-4)36cdb-1. V. A. Lee. Drilled unused water-table well in alluvium, diameter 6 inches, depth 112 feet, cased to 112. Highest water level 8.14 below lsd, June 8, 1937; lowest 14.96 below lsd, Dec. 9, 1950. Records available: 1936-52. Apr. 6, 13.61; Dec. 7, 14.84.

(D-29-4)6bbd-1. State claim 19179. Reed Maxfield. Drilled domestic artesian well in alluvium, diameter 6 inches, depth 92 feet, cased to 92. Highest water level 15.47 below lsd, Dec. 10, 1951; lowest 19.68 below lsd, Apr. 6, 1952. Records available: 1948-52. Apr. 6, 19.68; Dec. 7, 16.97.

(D-29-4)15cbd. W. P. Coleman. Drilled stock artesian well in alluvium, diameter 3 inches, depth 192 feet, cased to 100. Highest water level 1.45 above lsd, Dec. 5, 1944; lowest 22.22 below lsd, Sept. 29, 1936. Records available: 1936-52. Apr. 6, -6.54; Dec. 7, +0.12.

Weber County

East Shore Area

(For other wells in this area see Box Elder and Davis Counties.)

(B-5-2)4aaa-2. State claim 5523. Florian Prevedel. Jetted domestic artesian well in alluvium, diameter 1¼ inches, depth 263 feet. Land-surface datum is 4,258.8 feet above msl. Highest water level 6.25 above lsd, Dec. 17, 1952; lowest 0.02 below lsd, Oct. 10, 1948. Records available: 1944-52. Apr. 9, +4.40; Apr. 30, +4.75; Aug. 14, +4.41; Sept. 24, +3.50; Oct. 16, +2.75; Nov. 20, +5.83; Dec. 17, +6.25.

(B-5-2)4cdd-1. State application 11889. Donas Ward. Jetted domestic stock artesian well in alluvium, diameter 3 inches, depth 640 feet, perforations 622-640. Land-surface datum is 4,259 feet above msl. Highest water level 41.3 above lsd, Dec. 17, 1952; lowest 28.8 above lsd, Aug. 8, 1945. Records available: 1936-52. Jan. 2, +32.8; Apr. 9, +34.8; Sept. 24, +38.4; Oct. 16, +39.5; Nov. 20, +40.8; Dec. 17, +41.3.

(B-5-3)13ddc-1. State claim 1298. J. D. Hooper. Jetted domestic artesian well in alluvium, diameter 2 to 1¼ inches, depth 615 feet, cased to 615. Land-surface datum is 4,242.02 feet above msl. Highest water level 38.3 above lsd, Nov. 20, 1952; lowest 26.7 above lsd, July 2, 1948. Records available: 1937-52. Jan. 4, +35.1; Apr. 9, +34.9; Oct. 1, +36.1; Oct. 16, +36.0; Nov. 20, +38.3; Dec. 17, +37.0.

(B-6-1)21add-1. State claim 8389. Drought Relief Administration. Drilled unused artesian well in alluvium, diameter 12 to 10 inches, depth 270 feet, cased to 210, perforations 126-157, 170-210. Land-surface datum is 4,346.7 feet above msl. Highest water level 43.92 below lsd, Oct. 12, 1942; lowest 49.62 below lsd, Sept. 7, 1948. Records available: 1938-52. Jan. 4, 46.14; Apr. 7, 46.32; Sept. 24, 47.43; Oct. 15, 46.45; Nov. 19, 45.11; Dec. 16, 44.32.

(B-6-1)29abb-1. State application 13003. Becker Products Co. Drilled unused artesian well in alluvium, diameter 10 to 8 inches, depth 464 feet, cased to 464. Land-surface datum is 4,292 feet above msl. Highest water level 20.4 above lsd, June 13-14, 1943; lowest 9.3 above lsd, Sept. 16, 1948. Records available: 1943-52.

Daily noon water level above lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	Day	Jan.	Feb.	Mar.	Apr.	May
1	....	16.4	16.4	16.7	17.2	17	....	16.6	16.0	17.0	17.7
2	....	16.5	16.4	16.7	17.2	18	16.6	16.5	16.2	17.0	17.7
3	....	16.5	16.5	16.8	17.4	19	16.4	16.6	16.3	17.0	17.7
4	....	16.4	16.1	16.8	17.4	20	16.6	16.7	16.4	17.1	17.4
5	16.9	16.3	16.1	16.8	17.4	21	16.5	16.5	....	17.1	17.6
6	16.9	16.4	16.2	16.9	17.6	22	16.5	16.3	16.4	17.0	17.8
7	16.9	16.4	16.1	17.0	17.7	23	16.4	16.5	16.5	17.0	17.9
8	16.9	16.5	16.1	16.9	17.7	24	16.5	16.3	16.6	17.0	18.0
9	16.7	16.5	16.1	16.9	17.7	25	16.6	16.4	16.8	17.1	18.1
10	16.9	16.5	16.2	16.9	17.9	26	16.6	16.5	16.9	17.0	18.1
11	16.8	16.5	16.1	16.9	18.1	27	16.3	16.3	17.0	17.1	17.3
12	....	16.6	16.0	16.9	18.5	28	16.5	16.4	17.0	17.1	17.0
13	....	16.4	16.1	17.0	18.5	29	16.4	16.3	17.0	17.1	16.6
14	....	16.6	16.0	17.0	18.0	30	16.4		17.0	17.2	16.4
15	....	16.5	15.9	16.8	....	31	16.4		16.9		....
16	....	16.5	15.9	16.8	17.4						

(B-6-1)30cca-1. State claim 1030. California Packing Corp. Drilled unused artesian well in alluvium, diameter 10 inches, depth 756 feet, cased to 756, perforations 224-250, 526-535. Land-surface datum is 4,317.12 feet above msl. Highest water level 28.34 below lsd, June 17, 1944; lowest 31.86 below lsd, Oct. 3, 1947. Records available: 1943-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.40	30.32	30.16	30.03	29.82	29.49	29.87	30.41	30.50	30.76	30.10	28.79
2	30.44	30.25	30.17	29.98	29.88	29.52	29.94	30.40	30.51	30.77	30.09	28.67
3	30.41	30.34	30.26	29.99	29.85	29.52	29.97	30.40	30.50	30.78	30.14	28.71
4	30.39	30.33	30.26	30.00	29.89	29.55	30.01	30.39	30.50	30.77	30.03	28.75
5	30.38	30.33	30.26	29.98	29.83	29.54	30.03	30.39	30.53	30.77	29.96	28.65

(B-6-1)30cca-1 -- Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	30.34	30.35	30.26	29.94	29.82	29.54	30.05	30.39	30.55	30.75	29.94	28.62
7	30.24	30.31	30.25	29.87	29.82	29.58	30.08	30.37	30.54	30.75	29.85	28.53
8	30.31	30.31	30.25	29.90	29.82	29.59	30.01	30.34	30.54	30.72	29.74	28.61
9	30.39	30.30	30.23	29.94	29.84	29.55	29.98	30.32	30.53	30.69	29.74	28.66
10	30.29	30.30	30.19	29.88	29.80	29.54	30.10	30.27	30.51	30.70	29.67	28.63
11	30.25	30.28	30.15	29.83	29.76	29.50	30.15	30.25	30.53	30.71	29.60	28.60
12	30.23	30.23	30.22	29.89	29.74	29.55	30.18	30.25	30.55	30.72	29.50	28.62
13	30.25	30.29	30.15	29.89	29.72	29.54	30.29	30.24	30.60	30.69	29.44	28.61
14	30.24	30.30	30.15	29.84	29.72	29.53	30.31	30.23	30.65	30.69	29.38	28.57
15	30.27	30.29	30.14	29.85	29.71	29.58	30.31	30.24	30.64	30.66	29.29	28.54
16	30.26	30.21	30.05	29.85	29.65	29.61	30.32	30.26	30.63	30.61	29.24	28.53
17	30.35	30.16	30.05	29.84	29.70	29.61	30.38	30.29	30.66	30.62	29.28	28.50
18	30.29	30.18	30.06	29.87	29.76	29.60	30.43	30.29	30.67	30.60	29.30	28.48
19	30.35	30.21	29.99	29.86	29.74	29.60	30.48	30.29	30.67	30.57	29.26	28.50
20	30.30	30.21	29.96	29.88	29.69	29.66	30.52	30.32	30.67	30.56	29.19	28.48
21	30.32	30.18	30.02	29.88	29.64	29.69	30.36	30.34	30.70	30.64	29.11	28.51
22	30.33	30.21	30.06	29.86	29.65	29.75	30.29	30.35	30.72	30.51	29.10	28.46
23	30.35	30.19	30.04	29.88	29.63	29.78	30.30	30.34	30.71	30.48	29.10	28.44
24	30.32	30.29	29.94	29.88	29.63	29.74	30.30	30.34	30.71	30.38	29.05	28.48
25	30.22	30.31	29.98	29.82	29.60	29.76	30.33	30.35	30.72	30.37	29.04	28.45
26	30.30	30.28	29.99	29.85	29.61	29.77	30.33	30.36	30.72	30.39	29.03	28.47
27	30.37	30.26	30.02	29.81	29.59	29.78	30.37	30.38	30.70	30.35	28.99	28.43
28	30.36	30.21	29.98	29.79	29.55	29.81	30.42	30.40	30.72	30.32	28.97	28.41
29	30.35	30.22	29.96	29.84	29.49	29.83	30.41	30.40	30.74	30.24	28.90	28.39
30	30.34		29.96	29.84	29.48	29.88	30.40	30.45	30.77	30.20	28.83	28.35
31	30.31		29.99		29.48		30.42	.....		30.18		28.34

(B-6-2)11dad-1. State claim 5613. Jerome Wheeler. Jetted stock artesian well in alluvium, diameter 2 inches, depth 285 feet, cased to 285. Land-surface datum is 4,241.62 feet above msl. Highest water level 26.4 above lsd, Nov. 19, Dec. 17, 1952; lowest 18.0 above lsd, Oct. 29, 1947. Records available: 1937-52. Feb. 7, +25.0; Apr. 9, +25.6; Aug. 29, +25.4; Sept. 23, +25.8; Oct. 15, +24.7; Nov. 19, +26.4; Dec. 17, +26.4.

(B-6-3)26bbb-1. State claim 7505. Mrs. F. G. Kelly. Jetted domestic stock artesian well in alluvium, diameter 2 inches, depth 512 feet, cased to 512. Land-surface datum is 4,219.3 feet above msl. Highest water level 33.5 above lsd, May 1, 1940; lowest 24.1 above lsd, Jan. 2, 1952. Records available: 1935-52. Jan. 2, +24.1; Feb. 7, +27.9; Oct. 1, +26.5; Oct. 15, +26.6; Nov. 19, +26.2; Dec. 17, +27.1.

(B-7-1)33baa-5. State claim 16832. J. P. Spackman. Jetted irrigation artesian well in alluvium, diameter 4 inches, depth 126 feet, cased to 126. Highest water level 36.4 above lsd, July 28, 1952; lowest 5.0 above lsd, Aug. 4, 1943. Records available: 1943-52. Feb. 7, +24.9; Apr. 7, +17.1; July 28, +36.4; Sept. 25, +30.8; Oct. 21, +26.3; Nov. 18, +26.3; Dec. 16, +25.4.

(B-7-2)32aca-1. State application 15170. Dean Baker. Jetted stock artesian well in alluvium, diameter 2 inches, depth 630 feet, cased to 630. Highest water level 39.2 above lsd, Apr. 7, 1947; lowest 27.2 above lsd, July 12, 1945. Records available: 1945-52. Jan. 2, +37.9; Apr. 9, +38.2; Sept. 23, +34.3; Oct. 15, +33.8; Nov. 19, +34.4; Dec. 17, +34.5.

(B-7-2)36cdd-1. State application 14082. J. D. Brown. Jetted domestic stock artesian well in alluvium, diameter 2 inches, depth 617 feet, cased to 617. Highest water level 41.0 above lsd, Dec. 11, 1943, Apr. 7, 1947; lowest 24.9 above lsd, Aug. 6, 1943. Records available: 1943-52. Jan. 4, +36.4; Apr. 9, +33.5; Sept. 24, +31.5; Oct. 15, +35.4; Nov. 19, +37.0; Dec. 16, +37.6.

Ogden Valley

(A-6-1)11dc-1. U. S. Bureau of Reclamation. Drilled unused artesian well in alluvium, diameter 10 inches, depth 152 feet, cased to 152. Highest water level 4.27 below lsd, June 7, 1945; lowest 43.11 below lsd, Nov. 24, 1935. Records available: 1935-52.

Daily noon water level from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	32.66	36.11	36.08	21.72	22.08	17.75	24.00	28.00	31.26	32.84	31.56
2	.....	32.90	36.11	35.68	21.76	21.98	17.82	24.08	28.13	31.34	32.87	31.54
3	.....	33.03	36.11	35.42	21.98	21.97	18.53	24.17	28.38	31.42	32.90	31.52
4	.....	33.36	36.11	35.38	22.31	21.96	19.41	24.26	28.50	31.49	32.92	31.50
5	.....	33.57	36.11	35.36	22.62	21.96	20.10	24.37	.....	31.57	32.95	31.49

(A-6-1)11dc-1 -- Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	.....	33.79	36.12	35.34	22.89	21.96	20.66	24.48	.....	31.64	32.97	31.47
7	.....	33.98	36.13	35.25	23.16	21.96	21.13	24.66	.....	31.71	32.98	31.46
8	.....	34.18	36.14	34.42	23.42	21.95	21.50	24.88	.....	31.78	33.00	31.45
9	.....	34.37	36.15	33.17	23.66	21.95	21.82	25.13	.....	31.83	.....	31.44
10	.....	34.55	36.16	32.14	23.69	21.00	22.09	25.36	.....	31.89	33.11	31.44
11	.....	34.73	36.18	31.48	23.68	20.38	22.32	24.29	.....	31.96	33.12	31.43
12	.....	34.85	36.21	30.89	23.67	20.14	22.56	22.97	.....	32.02	33.13	31.42
13	.....	.....	36.22	30.18	23.68	20.15	22.75	22.93	.....	32.08	33.15	31.42
14	.....	.....	36.24	29.40	23.74	20.30	22.94	23.34	.....	32.14	33.17	31.41
15	.....	.....	36.25	28.63	23.78	20.53	23.12	23.70	.....	32.20	33.18	31.41
16	.....	.....	36.26	28.03	23.86	20.75	23.27	24.24	.....	32.26	33.18	31.40
17	.....	.....	36.27	26.41	23.92	20.92	23.43	24.80	.....	32.31	33.21	31.40
18	.....	.....	36.27	25.46	23.93	21.12	23.58	25.09	.....	32.36	33.21	31.39
19	.....	.....	36.28	24.54	23.92	21.29	23.71	25.43	.....	32.41	33.23	31.38
20	.....	.....	36.30	23.62	23.92	21.43	23.71	.....	30.31	32.46	33.24	31.37
21	.....	.....	36.32	22.78	23.92	21.57	23.67	.....	30.41	32.51	33.03	31.37
22	.....	.....	36.33	22.29	23.91	21.69	23.63	.....	30.49	32.55	32.46	31.36
23	.....	.....	36.35	22.03	23.74	21.71	23.51	.....	30.58	32.60	32.14	31.35
24	.....	.....	36.36	21.83	23.47	21.89	23.58	.....	30.67	32.64	31.95	31.34
25	.....	36.07	36.36	21.61	23.25	19.51	23.57	26.84	30.75	32.67	31.81	31.33
26	.....	36.08	36.36	21.69	23.04	18.54	23.61	27.05	30.84	32.71	31.73	31.33
27	.....	36.09	36.36	21.62	22.83	18.23	23.66	27.22	30.92	32.76	31.67	31.32
28	.....	36.10	36.36	21.66	22.68	17.99	23.71	27.39	31.00	32.79	31.63	31.31
29	32.16	36.11	36.36	21.70	22.52	17.88	23.78	27.56	31.10	32.82	31.60	31.31
30	32.31		36.35	21.70	22.37	17.80	23.84	27.71	31.18	32.80	31.58	31.31
31	32.45		36.34		22.21		23.93	27.87		32.81		31.31

(A-6-1)12aa-1. City of Ogden. Drilled unused artesian well in alluvium, diameter 8 inches, depth 108 feet, cased to 108. Land-surface datum is 4,880 feet above msl. Highest water level 10.08 above lsd, May 21, 1938; lowest 14.36 below lsd, Oct. 6, 1934. Records available: 1932-52.

Daily noon water level above and below lsd from recorder graph

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-2.52	-2.52	....	....	....	+7.14	+8.05	+3.60	+0.05	....	-2.70	-2.95
2	2.52	2.51	....	....	....	7.16	7.81	3.46	-.08	....	2.71	2.95
3	2.50	2.55	....	....	....	7.27	7.42	3.42	.20	....	2.77	3.03
4	2.48	2.56	....	....	....	7.32	7.28	3.32	.28	....	2.79	3.13
5	2.47	2.54	....	....	....	7.33	7.12	3.05	.44	....	2.82	3.13
6	2.46	2.53	....	....	....	7.42	7.04	2.90	.59	....	2.85	3.13
7	2.43	2.48	....	....	....	7.50	6.86	2.72	.73	....	2.87	3.17
8	2.45	....	....	....	....	7.55	6.75	2.53	.84	....	2.89	3.27
9	2.52	....	....	....	....	7.61	6.63	2.36	.94	....	2.94	3.26
10	2.49	....	....	-0.70	....	7.83	6.53	2.23	1.05	....	2.96	....
11	2.48	....	....	.60	....	7.91	6.42	2.34	1.17	....	2.96	....
12	2.49	....	....	....	....	7.94	6.27	2.09	1.30	....	2.96	3.50
13	2.50	....	....	....	....	7.77	6.12	2.17	1.42	....	2.96	3.56
14	2.51	....	....	....	....	7.61	5.99	2.40	1.53	....	2.96	3.58
15	2.52	....	....	....	+5.06	7.49	5.89	2.21	1.59	....	2.93	3.62
16	2.53	....	....	....	4.91	7.45	5.75	2.08	1.66	....	2.97	3.67
17	2.57	....	....	....	4.93	7.45	5.59	1.94	1.73	....	3.01	3.69
18	2.57	....	....	....	5.23	7.45	5.46	1.81	1.77	....	3.07	3.72
19	2.57	....	....	....	5.40	7.40	5.37	1.70	1.83	....	3.06	3.80
20	2.57	....	....	....	5.50	7.51	5.32	1.57	1.86	....	3.03	3.83
21	2.56	....	....	....	5.77	7.56	5.30	1.43	1.91	....	2.88	3.90
22	2.56	....	....	....	5.84	7.67	5.34	1.31	1.96	....	2.79	3.94
23	2.57	....	....	....	5.96	7.57	5.12	1.20	2.01	....	2.77	3.99
24	2.57	....	....	....	5.99	7.45	5.01	1.10	2.04	....	2.74	4.04
25	2.48	-2.39	....	....	6.09	7.65	4.81	.95	2.08	....	2.74	4.10
26	2.49	....	....	....	6.32	7.88	4.60	.80	2.10	....	2.80	4.16
27	2.51	....	....	....	6.47	7.98	4.40	.66	2.11	....	2.81	4.20
28	2.48	....	....	....	6.56	8.02	4.20	.53	2.13	....	2.84	4.24
29	2.42	....	....	+4.80	6.77	8.06	4.06	.41	2.14	....	2.89	4.29
30	2.40		....	....	6.94	+8.04	3.90	....	-2.14	-2.71	-2.91	4.34
31	-2.44		....		+7.10		+3.75	+.19		-2.71		-4.38

WASHINGTON

By Glen D. Holmberg

Scope of Water-Level Program

The observation-well program in Washington was continued in 1952 in cooperation with the State Department of Conservation and Development. Wells were measured periodically in several areas in connection with investigations of the ground-water resources of counties or other areas. Investigational projects included the Lake Washington-Sammamish Lake area in King County, Lewis County, and the Ahtanum Valley area in Yakima County. Ground-water investigations completed included those in Kitsap County, and in the Yelm area of Thurston and Pierce Counties. Also completed was an investigation of streamflow as related to the ground-water hydrology of the Yakima River basin. Two reports, "Progress report on ground water in the Columbia Basin Project, Washington" and "Records of wells, water levels, and quality of ground water in the Spokane Valley, Spokane County, Washington" were approved for public release. Measurements for 90 wells are included in this report. Five recording and nine nonrecording gages were operated during the year. See fig. 27.

Precipitation

The Cascade Range divides the State into eastern and western parts which have distinctly different climatic conditions. Annual precipitation in most of the eastern part of the State generally ranges from 7 to 15 inches except along the eastern border and in the southeastern corner. Average precipitation in these two areas ranges from 20 to 25 inches, and 20 to 40 inches, respectively. In western Washington, average precipitation for most of the central part of the area ranges from 40 to 60 inches annually. Along the west slope of the Cascades and also along the Pacific Coast average annual precipitation at many stations is as much as 100 inches.

The first of the following tables shows monthly distribution of precipitation at three representative stations. The normal precipitation is shown in comparison with precipitation for 1952. Records of the Olympia station are representative of western Washington and the records of the Ellensburg and Spokane stations are representative of eastern Washington. The second table shows precipitation for the year ending December 31, 1952 at 10 representative stations in the State; and also the ratio, in percent, of the 1952 precipitation to the normal annual precipitation for each of those stations. Precipitation data were obtained from the U. S. Weather Bureau.

Monthly precipitation at three selected stations

Month	Olympia		Ellensburg		Spokane	
	Normal (inches)	1952 (inches)	Normal (inches)	1952 (inches)	Normal (inches)	1952 (inches)
January	6.69	5.65	1.35	0.94	2.16	2.41
February	6.16	3.96	.98	.84	1.81	1.33
March	4.50	3.13	.53	.08	1.20	1.14
April	2.34	2.25	.47	.02	1.13	.28
May	1.66	.85	.59	.43	1.42	.63
June	1.28	1.22	.62	1.16	1.28	2.44
July	.72	.10	.25	T	.69	.06
August	.66	.74	.20	.27	.62	.18
September	1.80	.43	.51	.24	.90	.52
October	4.50	1.55	.57	.02	1.17	.11
November	6.77	1.39	1.47	.39	2.09	.80
December	8.66	8.65	1.49	1.00	4.01	3.10
Annual	45.74	29.92 65.41	9.03	5.39 59.69	16.66	13.00 78.03

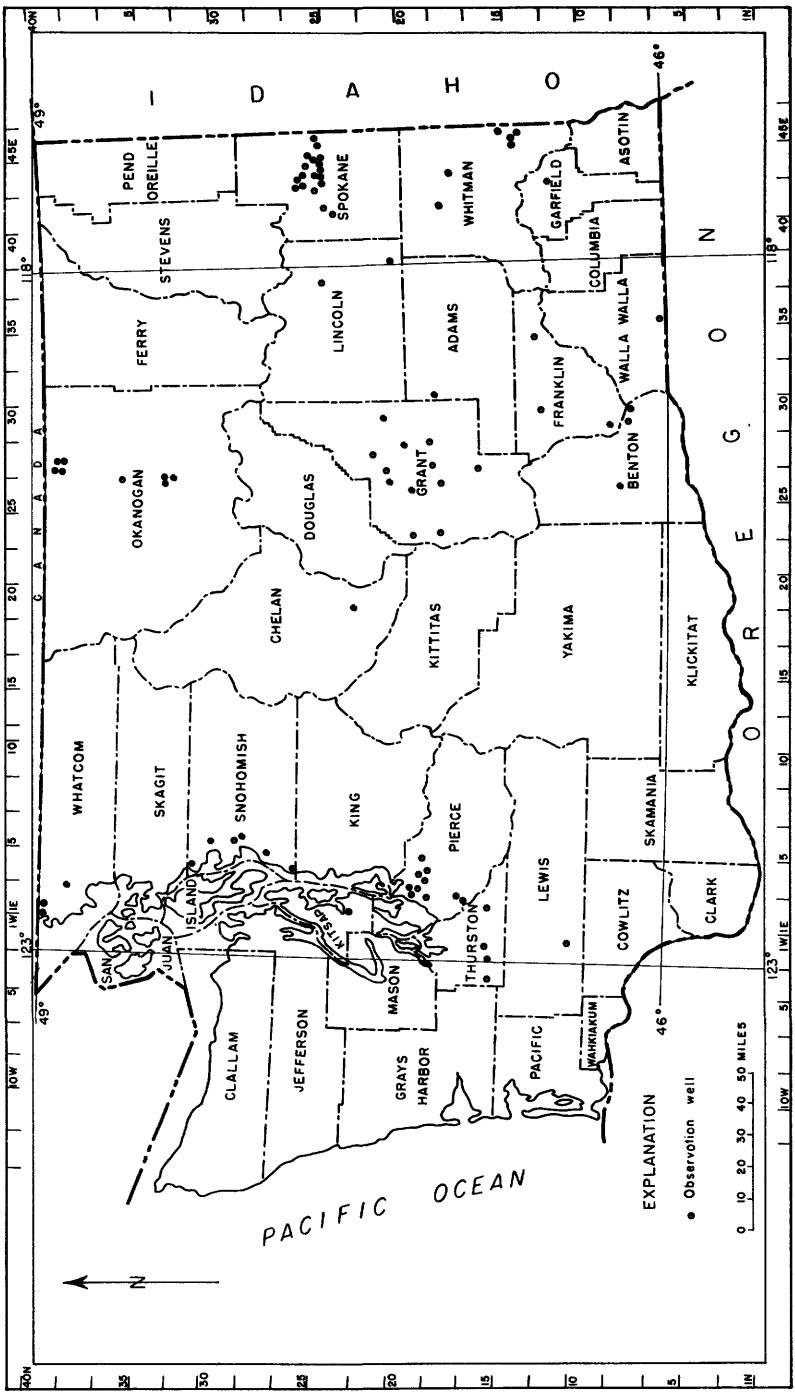


Figure 27.--Location of observation wells in Washington, 1952.

Annual precipitation at ten selected stations

Province	Station and County	Annual normal (inches)	1952	
			(inches)	Percent of normal
North Coast Ranges	Port Angeles, Clallam	27.36	14.75	53.9
	Aberdeen, Grays Harbor	82.96	58.88	71.0
Puget-Willamette Trough	Olga, San Juan	28.98	19.90	68.6
	Seattle, King	35.55	19.94	56.1
	Vancouver, Clark	37.32	27.17	72.8
Columbia Plateau	Waterville, Douglas	11.23	9.11	81.1
	Kennewick, Benton	7.00	5.61	80.1
	Walla Walla, Walla Walla	17.06	11.32	66.3
Northern Rocky Mountains	Lakeside, Chelan	10.85	8.20	75.6
	Colville, Stevens	16.54	13.04	78.8

Interpretation of Water-Level Fluctuations

East of the Cascades, precipitation is generally low to moderate. Most aquifers are never full, but maintain a position of equilibrium between recharge and discharge. The water table in much of the area is at a considerable depth, at places being several hundred feet below the land surface. Precipitation available for recharge is rarely rejected; recharge occurs during winter and spring months when precipitation is greatest, and evaporation and transpiration demands are least. For these reasons during a wet cycle, which may continue for a number of years, the water table will show a general rise on which is superimposed the annual fluctuations. During a period of several dry years, of course, the converse is true, and there will be a general decline extending over the period. In contrast, many of the aquifers west of the Cascades are relatively shallow. The water table is near the surface and they are filled to overflowing nearly every year. Continued heavy rainfall, after a certain point is reached, does not raise the water table any farther. The water table generally reaches a maximum fairly early in the rainy season, continued rainfall holds it at that level without raising it materially. In these aquifers the annual range of fluctuation is much greater than the range owing to cycles of wet and dry years.

Water levels in the State were generally below normal during 1952 owing to below-normal precipitation over the entire State. The following examples show the water-level trends in the major aquifers of the State. Well 20/3-30C2, in Tacoma, is a drilled well, 244 feet deep, in sand and gravel. Water levels in this well were below average all year with new monthly minimums recorded in May, June, October, November, and December. This well is representative of Tacoma public-supply wells and adjacent wells in Pierce County. Owing to below-normal precipitation throughout the year, the water level in well 30/5-22A1 in Snohomish County declined steadily to establish a new low in November. The water level in well 23/1-2C2 in Kitsap County, representative of wells in glacial sand and gravel near Puget Sound, was above average during the year, but owing to below-normal precipitation, declined several feet from the record high of 1951. Well 23/19-4E2 in the town of Cashmere, is representative of shallow wells in the river valleys on the eastern slopes of the Cascade Range. This is a dug well, 23.5 feet deep, in sand and gravel. The water level in well 23/19-4E2 remained near normal through June and then declined steadily to a new low in December. Well 18/30-34M1, in the Columbia Basin Project area of Grant County is 147 feet deep. It is characteristic of the many wells in the central part of the State which obtain water from the extensive basaltic lava flows. The 1952 water level remained above the 10-year average until December when it dropped a little below average. Well 25/45-16C1 is dug 129 feet in the very permeable glacial gravels of the Spokane Valley. This well is representative of wells in the Spokane River valley. Water levels were above average for the year, apparently owing to recharge from the extremely heavy snow pack of the winter of 1951-52.

In contrast to the below-normal water levels in most parts of the State, water levels in parts of the Columbia Basin Project area rose as much as 170 feet as a result of recharge from irrigation and leakage from the irrigation distribution system. The most conspicuous effect of the leakage from the distribution system was the appearance of a number of large springs. A number of these issue from the scarp on the east side of Crab Creek about 6 to 8 miles north of Moses Lake. It was reported that for a time one of the large laterals, several miles east of this area, lost water along a mile of its length at the rate of 50 cubic feet per second.

The water levels in 17 wells show rises ranging from 8 to 170 feet. Records of 3 of these wells are included in this report; the remaining 14 are project wells, the records of which are not included in this report. Adjacent to the Potholes Reservoir, south and southeast of Moses Lake, 4 project wells reflect the filling of the reservoir and show water level rises of 25 to 43 feet. In an area east of Moses Lake water levels have risen 30 to 170 feet in 3 project wells, while farther north, well 21/28-34A1 and 2 project wells near the large springs show rises of 29 to 55 feet. Near Ephrata the water level rose 8 and 16 feet in 2 project wells. To the southwest in well 20/26-18R1 the water level rose 42 feet and in a project well a few miles west rose 17 feet. West of Winchester the water level rose 23 and 61 feet in 2 project wells, and in a project well, 8 miles to the south, 20 feet.

Water-level measurements extending back to 1916 show that recharge and discharge of ground water in the area has been in a state of equilibrium for many years. Thus, the water table has been comparatively stable. Over the area the water table generally has been at least 200 to 300 feet below the land surface, and in places has been more than 700 feet below the surface. Irrigation of the area has upset that equilibrium by increasing the recharge, and it is probable that when equilibrium is reestablished the water table will be close to the land surface throughout much of the area.

Water levels in selected wells, 1952

County and well number	Average yearly		All time		1952		Lowest 1952	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Above+ below- 1951 lowest	Above+ below- average yearly lowest
Adams								
19/31-19B1	184.23	184.68	183.97	187.00	184.14	184.30	+.96	+.38
Benton								
9/27-19G1	12.93	15.01	11.47	17.83	15.50	17.83	-1.50	-2.82
Chelan								
23/19-4E2	14.18	17.83	12.58	19.22	14.39	18.79	-1.33	-1.16
Franklin								
9/29-25D1	31.85	36.32	28.03	38.17	30.10	35.14	+.82	+1.18
Grant								
19/26-34D1	92.36	92.73	92.20	94.25	93.20	93.70	-.63	-.97
19/27-16N1	67.06	67.87	64.77	70.50	64.77	65.70	-.44	+2.17
21/28-34A1	89.85	93.67	42.92	96.91	42.92	79.06	+10.53	+14.61
Kitsap								
23/1-2C2	50.89	54.69	43.20	60.32	49.39	52.81	-3.42	+1.88
Lincoln								
25/37-14M1	16.87	19.72	2.90	22.91	2.90	14.63	-.02	+5.09
Okanogan								
34/26-28A1	30.94	32.83	28.86	33.38	30.43	31.92	+.88	+1.11
40/27-28G1	14.92	17.90	13.35	18.61	15.21	18.13	-.40	-.23
Pierce								
19/4-7A1	17.61	35.67	13.30	36.90	19.67	36.17	+.06	+.50
20/3-35G1	179.69	181.14	178.57	182.27	180.26	181.17	-.92	-.03
Spokane								
25/42-14L1	89.14	97.92	81.73	101.24	87.82	98.12	+.32	-.20
25/45-16C1	97.61	106.85	88.85	114.53	92.85	103.18	-1.25	+3.67
Whatcom								
40/1-4J1	66.63	68.69	64.92	75.23	68.74	75.03	-7.21	-6.34
Whitman								
14/45-11N1	4.37	7.81	2.39	9.48	2.73	6.60	+.22	+1.21

Well-Numbering System

Wells are numbered in accordance with the Bureau of Land Management system of land subdivision. For example, in the well number 25/43-15P1, the part preceding the hyphen indicates township and range (T. 25 N., R. 43 E.) north and east of the Willamette base line and meridian. (Because all townships in Washington are north of the Willamette base line the letter N, indicating north, is omitted; and because most of the State is east of the Willamette meridian the letter E is omitted for those ranges east of the Willamette meridian, but W is included when the range lies west of the Willamette meridian.) The first digit following the hyphen indicates the section (sec. 15) and the letter (P) gives the 40-acre subdivision of the section as shown in the diagram. The last digit (1) is the serial of the well in that particular 40-acre tract. Thus, the first well recorded in the $SE\frac{1}{4}SW\frac{1}{4}$ sec. 15, T. 25 N., R. 43 E., would have the number 25/43-15P1, and the second well would have the number 25/43-15P2.

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Acknowledgments

Measurements for Tacoma city wells are furnished by the Tacoma Water Department

Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Adams County

19/31-19B1. Barbara Dormaier. Drilled unused water table well in Yakima basalt, diameter 6 inches, depth 218 feet. Land-surface datum is about 1,454 feet above msl. Highest water level 183.97 below lsd, July 18, 1947; lowest 187.00 below lsd, Mar. 22, 1939. Records available: 1939-52. Feb. 20, 184.20; Apr. 13, 184.16; June 10, 184.25; Oct. 21, 184.14; Dec. 12, 184.30.

Benton County

8/29-1D1. Garber Dairy. Kennewick. Dug domestic and stock water-table well in gravel, diameter 4 feet, depth 75 feet, lined with concrete. Land-surface datum is about 402 feet above msl. Highest water level 61.87 below lsd, Aug. 10, 1948; lowest 67.78 below lsd, Mar. 9, 1949, Apr. 6, 1950, Apr. 20, 1952. Records available: 1948-52. Feb. 17, 67.48; Apr. 20, 67.78; June 11, 63.23; Aug. 14, 62.94; Oct. 24, 63.60; Dec. 17, 66.10.

8/30-9E1. E. Dague. Dug and drilled domestic water-table well in sand and gravel, diameter 8 inches, depth 33 feet, cased to 33. Land-surface datum is about 350 feet above msl. Highest water level 18.22 below lsd, Oct. 5, 1950; lowest 24.09 below lsd, Dec. 17, 1952. Records available: 1948-52. Feb. 17, 23.01; Apr. 20, 22.92; June 11, 19.91; Aug. 14, 24.49, pumping; Oct. 24, 20.29; Dec. 17, 24.09.

9/27-19G1. Harold Egbert. Formerly Paul Root. Kiona. Dug domestic water-table well in gravel, diameter 4 feet, depth 27 feet, lined with concrete. Land-surface datum is about 502 feet above msl. Highest water level 11.47 below lsd, June 30, 1950; lowest 17.83 below lsd, June 13, 1952. Records available: 1940-52. Feb. 17, 15.50; Apr. 20, 16.55; June 13, 17.83; Aug. 14, 16.59; Oct. 17, 16.80; Dec. 8, 16.81.

Chelan County

23/19-4E2. City of Cashmere natatorium well. Near Sunset Ave. and Paton St. Dug public-supply water-table well in sand and gravel, diameter 6 feet, depth 24 feet, lined with concrete. Land-surface datum is about 784 feet above msl. Highest water level 12.58 below lsd, Apr. 7, 1951; lowest 19.22 below lsd, Nov. 30, 1948. Records available: 1945-52.

Daily water level from non-recording gage

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	16.50	17.11	16.54	15.62	14.59	15.16	15.78	16.94	17.36	17.87	18.32	18.73
2	16.34	17.10	16.53	15.78	14.56	15.14	15.82	16.80	17.37	18.00	18.32	18.74
3	16.18	17.10	16.50	15.90	14.69	a15.63	15.91	16.65	17.50	18.14	18.34	18.70
4	15.94	17.00	16.62	15.91	14.74	15.49	15.92	16.50	17.52	18.18	18.40	18.68
5	15.85	16.95	16.63	15.92	14.78	15.36	15.98	16.40	17.60	18.20	18.45	18.68
6	15.82	16.53	16.58	15.76	14.78	15.38	15.98	16.35	17.67	18.21	18.50	18.69
7	15.80	16.44	16.54	15.37	14.75	15.50	16.00	16.28	17.66	18.28	18.55	18.67
8	15.69	16.35	16.50	15.39	14.78	15.72	15.99	16.26	17.64	18.28	18.61	18.65
9	15.96	16.24	16.47	15.38	14.86	15.82	15.99	16.27	17.62	18.28	18.62	18.64
10	16.19	16.18	16.49	15.35	14.75	15.45	16.02	16.29	17.69	18.29	18.62	18.67
11	16.17	16.16	16.42	15.39	14.65	15.38	16.09	16.29	17.77	18.28	18.65	18.70
12	16.43	16.14	16.40	15.20	14.55	15.43	16.24	16.38	17.82	18.28	18.67	18.74
13	16.53	16.11	16.40	15.05	14.67	15.44	16.28	16.53	17.85	18.28	18.63	18.73
14	16.59	16.11	16.39	15.00	14.55	15.44	16.34	16.63	17.90	18.32	18.62	18.70
15	16.67	16.12	16.35	15.00	14.72	.....	16.25	16.68	17.95	18.32	18.63	18.68

23/19-4E2--Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
16	16.74	16.09	16.32	14.98	14.79	15.46	16.24	17.00	17.98	18.33	18.65	18.69
17	16.68	16.06	16.30	14.96	14.65	15.44	16.28	17.20	17.95	18.35	18.68	18.69
18	16.80	16.12	16.27	14.87	14.55	15.53	16.34	17.40	18.06	18.37	18.68	18.70
19	16.81	16.16	16.40	14.74	14.64	15.55	16.36	17.40	18.05	18.37	18.69	18.70
20	16.83	16.24	16.34	14.70	14.82	15.42	16.40	.....	18.13	18.39	18.70	18.70
21	16.88	16.30	16.25	14.67	14.82	15.50	16.43	.....	18.16	18.36	18.70	18.70
22	16.90	16.33	16.16	14.69	14.82	15.52	16.37	.....	18.17	18.40	18.73	18.70
23	16.94	16.36	16.10	14.74	14.92	15.60	16.36	.....	18.14	18.40	16.73	18.72
24	16.95	16.38	16.08	14.75	14.92	15.75	16.34	.....	16.10	18.40	16.75	18.75
25	16.98	16.36	16.05	14.69	14.93	15.68	16.34	.....	17.99	18.39	18.74	18.75
26	17.09	16.36	15.85	14.50	14.94	15.55	16.64	.....	17.98	18.38	18.75	18.76
27	17.14	16.46	15.70	14.45	14.99	15.59	16.71	.....	17.97	18.38	18.75	18.76
28	17.09	16.46	15.71	14.39	15.05	15.55	16.64	17.48	17.97	18.33	18.74	18.78
29	17.22	16.51	15.72	14.52	15.12	15.59	16.49	17.47	17.91	18.30	18.74	18.79
30	17.18		15.67	14.59	15.15	15.66	16.77	17.40	17.87	18.29	18.73	18.79
31	17.14		15.63		15.19		16.84	17.35		18.29		.....

a Pumping.

Douglas County

25/22-22C1. City of Waterville. Dug sump and gallery in basalt, lined with concrete. Land-surface datum is about 2,605 feet above msl. Highest water level 2.66 below lsd, Mar. 10, 1949; lowest 16.67 below lsd, July 22, 1947. Records available: 1945-52. Feb. 13, 3.43; Apr. 10, 2.98; June 9, 6.01; Oct. 27, 5.63; Dec. 16, 4.05.

Franklin County

9/29-25D1. E. T. Lindar. Road 36 and Court St. Pasco. Dug unused water-table well in terrace gravel of Columbia River, diameter 5 feet, depth 45 feet, lined with concrete. Land-surface datum is about 369 feet above msl. Highest water level 28.03 below lsd, July 8, 1950; lowest 38.17 below lsd, Apr. 7, 1942. Records available: 1940-52. Feb. 21, 35.08; Apr. 14, 35.14; June 11, 30.76; Aug. 21, 30.10; Oct. 24, 31.98; Dec. 17, 33.76.

13/30-26G2. M. M. Poe. Near Mesa. Dug stock water-table well in glacial-outwash gravel, diameter 6 feet, depth 35 feet, cribbed with wood. Land-surface datum is about 674 feet above msl. Highest water level 26.65 below lsd, Feb. 2, 1951; lowest 30.61 below lsd, Oct. 24, 1952. Records available: 1940-52. Feb. 21, 28.37; Apr. 14, 29.06; June 11, 30.43, nearby well being pumped; Aug. 22, 31.13, nearby well being pumped; Oct. 24, 30.61; Dec. 17, 29.04.

13/34-4G1. City of Kahlotus. State Highway 11B and Kahlotus Lind Rd. Dug public-supply water-table well in gravel deposit in Washtucna Coulee, diameter 4 feet, depth 53 feet, lined with concrete. Land-surface datum is about 900 feet above msl. Highest water level 41.45 below lsd, Apr. 14, 1952; lowest 52.48 below lsd, Oct. 27, 1948. Records available: 1938-52. Feb. 21, 42.16; Apr. 14, 41.45; June 11, 43.23, pumping; Oct. 24, 43.55; Dec. 17, 42.44.

Garfield County

12/42-34Q1. W. E. Greatorex. Dug domestic water-table well in alluvial deposit in Pataha Creek valley, diameter 4 feet, depth 25 feet. Land-surface datum is about 2,050 feet above msl. Highest water level 20.59 below lsd, Apr. 3, 1951; lowest 25.02 below lsd, Oct. 23, 1948. Records available: 1946-52. Apr. 20, 21.79; Aug. 15, 21.94; Oct. 18, 22.47; Dec. 9, 22.13.

Grant County

17/26-34D2. James P. Needham. Drilled unused water-table well in basalt, diameter 6 inches, depth 161 feet. Land-surface datum is about 1,085 feet above msl. Highest water level 150.52 below lsd, June 7, 1952; lowest 154.45 below lsd, Oct. 3, 1949. Records available: 1949-52. Feb. 22, 150.89; Apr. 12, 150.80; June 7, 150.52.

18/30-34M1. Andrew and Adeline Cruden. Drilled unused water-table well in basalt, diameter 6 inches, depth 147 feet. Land-surface datum is about 1,175 feet above msl. Highest water level 102.31 below lsd, Aug. 15, 1943; lowest 108.70 below lsd, Oct. 29, 1947. Records available: 1943-52. Feb. 20, 102.80; Apr. 14, 102.67; June 1, 102.48; Aug. 22, 102.71; Oct. 24, 102.99; Dec. 17, 104.15.

19/23-34R1. John Kuder. Drilled unused water-table well in basalt, diameter 6 inches, depth 243 feet. Land-surface datum is about 1,302 feet above msl. Highest water level 221.93 below lsd, Dec. 18, 1951; lowest 223.46 below lsd, Aug. 19, 1952. Records available: 1949-52. Feb. 19, 222.34; Apr. 11, 222.38; June 7, 222.39; Aug. 19, 223.46; Oct. 25, 222.66; Dec. 15, 222.69.

19/26-34D1. E. B. Cole. Drilled unused water-table well in sand, diameter 6 inches, depth 96 feet, cased to 96. Land-surface datum is about 1,172 feet above msl. Highest water level 92.20 below lsd, Dec. 20, 1939; lowest 94.25 below lsd, Sept. 18, 1950. Records available: 1939-52. Apr. 12, 93.35; June 7, 93.26; Aug. 19, 93.70; Oct. 25, 93.60; Dec. 13, 93.20.

19/27-16N1. John H. Dills, Jr. Dug irrigation water-table well in glacial outwash gravel, diameter 6 feet, depth 77 feet, lined with concrete. Land-surface datum is about 1,094 feet above msl. Highest water level 64.77 below lsd, Apr. 11, 1952; lowest 70.50 below lsd, Apr. 10, 1948. Records available: 1942-52. Feb. 19, 65.04; Apr. 11, 64.77; Oct. 22, 65.70; Dec. 13, 65.59.

19/28-15L1. Mattson & Reisner. Dug irrigation and domestic water-table well in gravel, size 4 by 4 feet, depth 63 feet, cribbed with wood. Land-surface datum is about 1,104 feet above msl. Highest water level 56.68 below lsd, Feb. 11, 1950; lowest 62.00 below lsd, Sept. 8, 1939. Records available: 1939-52. Feb. 23, 58.97, pumping; Apr. 16, 57.78; June 12, 59.52, pumping; Aug. 23, 58.35; Oct. 26, 57.17; Dec. 18, 58.68.

20/23-28J1. George Weber. Drilled domestic and stock water-table well in basalt, diameter 6 inches, depth 322 feet. Land-surface datum is about 1,380 feet above msl. Highest water level 229.04 below lsd, Mar. 15, 1950; lowest 239.76 below lsd, Dec. 19, 1952. Records available: 1949-52. Feb. 19, 233.93; Oct. 25, 239.78, pumped recently; Dec. 19, 239.76.

20/26-18R1. D. J. Law. Drilled unused water-table well in basalt, diameter 6 inches, depth 178 feet. Land-surface datum is about 1,246 feet above msl. Highest water level 119.32 below lsd, Dec. 13, 1952; lowest 163.09 below lsd, Oct. 18, 1950. Records available: 1939-52. Feb. 19, 163.09; Apr. 11, 162.92; June 8, 163.00; Aug. 19, 128.90; Oct. 25, 119.46; Dec. 13, 119.32.

21/28-34A1. Ethel A. Bunnell. Drilled unused water-table well in basalt, diameter 12 inches, depth 118 feet. Land-surface datum is 1,256.69 feet above msl. Highest water level 42.92 below lsd, Oct. 26, 1952; lowest 96.91 below lsd, Sept. 11, 1946. Records available: 1939-52. Feb. 20, 77.78; Apr. 15, 79.06; June 6, 63.59; Oct. 26, 42.92; Dec. 18, 52.50.

22/27-30P1. L. G. and E. B. Fretwell. Drilled irrigation water-table well in basalt, diameter 10 inches, depth 304 feet. Land-surface datum is about 1,154 feet above msl. Highest water level 41.44 below lsd, Dec. 18, 1952; lowest 52.41 below lsd, Oct. 29, 1947. Records available: 1939-52. Feb. 20, 45.76; Apr. 15, 46.89; June 10, 72.95, pumping; Aug. 20, 72.72, pumping; Oct. 26, 42.17; Dec. 18, 41.44.

22/28-6R1. Charles A. Kennedy. Dug domestic and irrigation water-table well in glacial outwash gravel, diameter 36 inches, depth 177 feet. Land-surface datum is about 1,282 feet above msl. Highest water level 150.82 below lsd, Aug. 13, 1948; lowest 177.00 below lsd, Mar. 15, 1939. Records available: 1939-52. Feb. 20, 157.97; Apr. 15, 154.35.

22/30-18M1. Chris Larsen. Dug unused water-table well in sand and gravel, diameter 24 inches, depth 20 feet, lined with concrete. Land-surface datum is about 1,346 feet above msl. Highest water level 15.68 below lsd, Apr. 5, 1951; lowest 18.00 below lsd, Mar. 18, 1939. Records available: 1939-52. Feb. 23, 16.70; Apr. 13, 16.97; June 6, 17.08; Aug. 20, 17.15; Oct. 21, 17.15; Dec. 12, 17.19.

Grays Harbor County

16/11W-18N4. City of Westport. Drilled observation water-table well in coarse sand and pea gravel, diameter 4 inches, depth 48 feet, cased to 48. Land-surface datum is 13.00 feet above msl. Measurement by City Water Department. Highest water level 3.61 below lsd, Feb.15, 1952; lowest 8.81 below lsd, Oct. 15, 1952. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	3.91	Apr. 12	5.61	Aug. 2	7.61	Oct. 15	8.81
Feb. 15	3.61	May 21	6.01	Sept. 4	8.31	Nov. 13	8.61
Mar. 15	4.51	June 20	6.71				

Kitsap County

23/1-2C2. W. A. Hiersch. Dug domestic water-table well in fluvioglacial sand, diameter 36 inches, depth 61 feet, cased to 60. Land-surface datum is about 280 feet above msl. Highest water level 43.20 below lsd, June 10, 1951; lowest 60.32 below lsd, Mar. 26, 1945. Records available: 1932-52. Jan. 27, 50.70; Apr. 10, 50.58; June 8, 49.39; July 24, 50.28; Aug. 12, 50.85; Oct. 16, 52.51; Nov. 25, 52.81.

Kittitas County

20/15-25Q1. Mr. Ackerlund. Dug domestic water-table well in alluvium of floodplain along Yakima River, diameter 5 feet, depth 10 feet, cribbed with wood. Land-surface datum is about 1,905 feet above msl. Highest water level 3.18 below lsd, Mar. 12, 1949; lowest 9.17 below lsd, Dec. 8, 1952. Records available: 1946-52. Feb. 12, 7.60; Apr. 10, 8.23; June 2, 7.09; Aug. 25, 7.71; Oct. 27, 8.47; Dec. 8, 9.17.

Lewis County

11/1W-5H1. Mrs. Joseph Sommer. Dug domestic and stock water-table well in sand, diameter 4 feet, depth 46 feet. Land-surface datum is about 345 feet above msl. Highest water level 32.59 below lsd, Dec. 6, 1950; lowest 44.50 below lsd, Oct. 22, 1943. Records available: 1942-52. Feb. 28, 37.48; Apr. 24, 37.36; July 22, 39.42; Nov. 6, 40.80.

Lincoln County

21/38-24G2. Clifford Daweritz. Driven unused water-table well in gravel, diameter $1\frac{1}{2}$ inches, depth 22 feet, cased to 22. Land-surface datum is about 1,890 feet above msl. Highest water level 5.59 below lsd, Apr. 7, 1950; lowest 19.07 below lsd, Nov. 2, 1947. Records available: 1946-52. Feb. 15, 10.42; Apr. 18, 7.45; June 5, 10.89; Aug. 15, 13.79; Oct. 18, 16.88; Dec. 9, 17.14.

25/37-14M1. Charles Straub, Sr. Dug unused water-table well in basalt, diameter 4 feet, depth 27 feet, cribbed with brick. Land-surface datum is about 2,400 feet above msl. Highest water level 2.90 below lsd, Apr. 16, 1952; lowest 22.91 below lsd, Nov. 1, 1947. Records available: 1941-52. Feb. 13, 14.63; Apr. 16, 2.90; June 6, 7.75; Aug. 17, 9.48; Oct. 21, 10.81; Dec. 12, 11.60

Okanogan County

34/26-26Q1. City of Omak well 1. First Ave. North and East First St. Dug public-supply water-table well in stream gravel of Okanogan River, diameter 12 feet, depth 30 feet, lined with concrete. Land-surface datum is about 850 feet above msl. Highest water level 5.10 below lsd, May 16, 1949; lowest 20.59 below lsd, Oct. 28, 1948. Records available: 1939-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	13.10	Apr. 13	13.19	July 20	13.15	Oct. 12	13.92
13	13.08	20	12.55	27	13.37	19	13.95
19	13.31	27	11.32	Aug. 3	13.88	23	14.13
27	13.19	May 4	11.20	10	13.91	27	14.04
Feb. 3	13.32	5	10.95	17	13.95	Nov. 2	14.08
12	13.13	18	9.87	18	13.97	9	14.15
17	13.50	25	8.97	24	13.87	17	14.19
24	13.63	June 2	9.71	Sept. 1	13.85	24	14.25
Mar. 2	13.77	9	10.75	6	13.95	30	14.23
9	13.68	15	11.47	14	13.85	Dec. 7	14.20
16	13.67	21	12.87	21	13.85	14	14.30
23	13.68	29	11.35	29	13.88	22	14.33
31	13.57	July 6	11.95	Oct. 5	13.90	28	14.30
Apr. 6	13.45	13	12.37				

34/26-28A1. Charles Byrd. Dug irrigation water-table well in terrace gravel deposit, diameter 36 inches, depth 43 feet, lined with concrete to 43. Land-surface datum is about 1,300 feet above msl. Highest water level 28.86 below lsd, June 26, 1950; lowest 33.38 below lsd, May 9, 1940. Records available: 1939-52. Feb. 24, 31.39; Apr. 10, 31.92; June 9, 30.43; Oct. 23, 30.55; Dec. 16, 31.47.

34/26-28P1. Samuel Peterson. Dug irrigation water-table well in terrace gravel deposit, size 4 by 4 feet, depth 21 feet, cribbed with wood. Land-surface datum is about 1,270 feet above msl. Highest water level 9.51 below lsd, Aug. 20, 1951; lowest 17.15 below lsd, Dec. 30, 1940. Records available: 1939-52. Feb. 24, 14.58; Apr. 10, 13.14; June 9, 11.49; Aug. 18, 10.60; Oct. 23, 12.30; Dec. 16, 13.76.

34/26-35R1. City of Omak well 4. South end East 4th St. Dug public-supply water-table well in coarse alluvial deposit of Okanogan River, diameter 14 feet, depth 37 feet, lined with concrete. Land-surface datum is about 850 feet above msl. Highest water level 17.95 below lsd, June 16, 1948; lowest 28.28 below lsd, Sept. 27, 1947. Records available: 1944-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	26.40	Apr. 6	26.71	July 6	24.02	Oct. 5	27.42
13	26.34	13	26.73	13	26.21	12	27.31
19	26.30	20	26.80	20	26.76	19	27.46
27	26.33	27	26.76	27	26.88	27	27.54
Feb. 3	26.38	May 4	26.72	Aug. 3	26.63	Nov. 2	27.43
12	26.32	11	26.63	10	27.12	9	27.40
17	26.47	18	26.51	18	27.28	17	27.38
24	26.58	25	26.52	24	27.49	24	27.40
Mar. 2	26.71	June 2	25.80	Sept. 7	27.10	Dec. 7	27.50
9	26.80	8	25.84	14	27.05	14	27.53
16	26.72	15	25.90	21	27.10	22	27.54
23	26.58	22	24.02	29	27.21	28	27.62
30	26.68	29	24.10				

36/26-13K1. Victor Lesamiz. Dug unused water-table well in fluvioglacial deposit, diameter 6 inches, depth 49 feet, cased to 49. Land-surface datum is about 1,050 feet above msl. Highest water level 0.15 above lsd, Mar. 11, 1949; lowest 35.30 below lsd, Aug. 14, 1942. Records available: 1942-52. Apr. 10, 19.57; June 9, 24.04; Aug. 18, 23.88; Oct. 23, 23.71; Dec. 16, 17.92.

40/27-21K1. City of Oroville. Dug stock water-table well in sand and gravel, diameter 4 feet, depth 21 feet, lined with concrete. Land-surface datum is about 930 feet above msl. Highest water level 15.40 below lsd, June 18, 1951; lowest 20.02 below lsd, Apr. 26, 1949. Records available: 1947-52.

Feb. 8	18.62	June 9	17.19	Aug. 18	15.96	Oct. 26	16.83
16	18.70	15	16.97	24	16.37	Nov. 2	17.20
Apr. 13	19.35	22	16.07	31	16.41	9	17.49
20	19.30	29	16.67	Sept. 7	16.65	17	16.85
27	19.20	July 6	16.54	14	16.57	23	17.99
May 4	19.10	13	16.45	21	16.64	30	18.19
11	18.67	20	16.45	28	16.78	Dec. 7	18.29
18	18.33	27	16.61	Oct. 5	16.83	14	18.45
25	17.84	Aug. 3	16.45	12	16.84	16	18.25
June 1	18.37	10	16.21	19	16.80	21	18.66
8	17.26	17	16.25	23	16.53	29	18.84

40/27-27N1. Williams-Zosel Lumber Co. Oroville. Dug industrial water-table well in alluvial deposit of Okanogan River, diameter 36 inches, depth 12 feet, lined with concrete. Land-surface datum is 920 feet above msl. Highest water level 3.65 below lsd, June 19, 1950; lowest 9.58 below lsd, Mar. 2, 1948. Records available: 1946-52.

Feb. 8	7.13	June 9	7.21	Aug. 18	7.55	Oct. 26	7.58
16	8.42	15	6.90	24	7.46	Nov. 2	7.78
Apr. 10	7.88	22	7.11	31	7.35	9	7.82
13	8.18	29	6.86	Sept. 7	7.50	17	7.74
20	8.20	July 6	6.61	14	7.58	23	7.72
27	7.55	13	7.46	21	7.55	30	7.79
May 4	7.20	20	7.19	28	7.64	Dec. 7	7.65
11	7.21	27	7.29	Oct. 5	7.38	14	7.90
18	6.97	Aug. 3	7.62	12	7.57	16	7.93
25	7.50	10	7.47	19	7.80	21	7.75
June 1	6.59	17	7.51	23	7.73	29	7.98
8	7.48						

40/27-28G1. City of Oroville well 1. Dug public-supply water-table well in alluvial deposit of Okanogan River, diameter 4 feet, depth 26 feet, lined with concrete to 26. Land-surface datum is about 930 feet above msl. Highest water level 13.35 below lsd, June 19, 1950; lowest 18.61 below lsd, Mar. 15, 1948. Records available: 1939-52.

40/27-28G1--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 8	17.21	June 8	15.43	Aug. 17	17.27	Oct. 26	17.70
16	17.48	15	15.39	24	17.28	Nov. 2	17.80
Apr. 13	17.86	22	15.92	31	17.30	9	17.83
20	17.58	29	16.92	Sept. 7	17.29	17	17.92
27	17.17	July 6	15.93	14	17.20	23	17.91
May 4	16.66	13	16.39	21	17.34	30	17.96
11	16.57	20	16.69	28	17.42	Dec. 7	18.00
18	16.00	27	16.85	Oct. 5	17.44	14	18.08
25	15.37	Aug. 3	17.11	12	17.50	21	18.08
June 1	15.21	10	17.21	19	17.66	29	18.13

Pierce County

17/2-16Q4. James Gonia. Drilled domestic artesian well in sand, diameter 6 inches, depth 115 feet. Land-surface datum is about 315 feet above msl. Highest water level 4.08 below lsd, Mar. 29, 1951; lowest 11.34 below lsd, Feb. 28, 1952. Records available: 1943-52. Feb. 28, 11.34; Apr. 24, 5.98; Nov. 6, 8.62.

17/2-16Q5. Roy Gonia. Drilled domestic and stock water-table well, diameter 6 inches, depth 96 feet. Land-surface datum is about 320 feet above msl. Highest water level 22.04 below lsd, Mar. 29, 1951; lowest 28.86 below lsd, Oct. 10, 1951. Records available: 1950-52. Feb. 28, 23.60; Apr. 24,26.10;July 22, 27.53; Nov. 6, 28.83.

18/2-34N1. Frank Betchard. Dug domestic water-table well in sand and gravel, diameter 36 inches, depth 15 feet, lined with concrete to 15. Land-surface datum is about 310 feet above msl. Highest water level 3.38 below lsd, Dec. 6, 1950; lowest 12.47 below lsd, Nov. 6, 1952. Records available: 1945-52. Feb. 28, 5.05; Apr. 24, 6.15; July 22, 8.41; Nov. 6, 12.47.

19/2-10F1. Lakewood Water District. Gravelly Lake Rd. and Lake City Rd. Drilled unused water-table well in gravel, diameter 12 inches, depth 174 feet. Land-surface datum is 262.64 feet above msl. Highest water level 39.92 below lsd, Apr. 24, 1951; lowest 49.67 below lsd, Jan. 5, 1945. Records available: 1940-52. Feb. 27, 45.74; Apr. 28, 46.02.

19/3-3Q1. D. Stuart. Lakeview-Puyallup Highway and Portland Ave. Dug unused water-table well in gravel, diameter 4 feet, depth 158 feet, lined with concrete. Land-surface datum is about 408 feet above msl. Highest water level 146.18 below lsd, June 13, 1951; lowest 156.80 below lsd, Dec. 29, 1944. Records available: 1940-52. Feb. 27, 149.07; Apr. 28, 148.83; July 23, 150.20; Nov. 20, 153.90.

19/4-7A1. Ada Lilja. Lakeview-Puyallup Highway and Woodland Rd. Dug unused water-table well in cemented gravel, diameter 4 feet, depth 37 feet. Land-surface datum is about 423 feet above msl. Highest water level 13.30 below lsd, Mar. 19, 1951; lowest 36.90 below lsd, Nov. 4, 1943. Records available: 1940-52.

Jan. 21	26.48	Apr. 21	23.55	July 15	32.81	Oct. 6	35.21
27	25.68	28	24.37	21	33.10	13	35.37
Feb. 7	20.41	May 5	25.19	28	33.42	20	35.50
11	19.67	12	25.93	Aug. 4	33.66	27	35.62
19	19.67	19	26.73	11	33.90	Nov. 3	35.71
25	20.19	26	27.71	18	34.13	11	35.80
Mar. 5	20.41	June 2	28.45	25	34.27	24	35.92
12	20.21	9	29.24	Sept. 2	34.43	Dec. 4	35.97
17	20.38	16	30.22	8	34.55	9	36.02
24	21.30	23	31.03	15	34.70	17	36.09
31	21.80	30	31.79	23	34.86	22	36.13
Apr. 10	22.04	July 7	32.38	30	35.04	29	36.17
14	22.74						

20/2-13H1. City of Tacoma well 4-A. S. 38th St. and S. Tacoma Way. Drilled public-supply water-table well in sand and gravel, diameter 38 to 26 inches, depth 204 feet. Land-surface datum is 244.80 feet above msl. Highest water level 10.58 below lsd, Feb. 8, 1938; lowest 19.19 below lsd, Dec. 5, 1952. Records available: 1930, 1932, 1934-52. Mar. 3, 14.88; Apr. 16, 14.84; July 2, 16.01; Aug. 27, 20.00, nearby well being pumped; Oct. 3, 18.61; Nov. 5, 17.97; Dec. 5, 19.19.

20/2-13J1. City of Tacoma well 6-A. S. 45th St. (extended) and S. Tacoma Way. Drilled public-supply water-table well in gravel, diameter 38 to 26 inches, depth 179 feet. Land-surface datum is 266.39 feet above msl. Highest water level 31.28 below lsd, Apr. 10, 1950; lowest 40.03 below lsd, Oct. 3, 1952. Records available: 1939-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	35.98	July 2	36.76	Aug. 27	39.62	Nov. 5	38.85
Mar. 3	35.31	Aug. 15	c45.07	Oct. 3	40.03	Dec. 5	39.47
Apr. 16	35.53						

c Nearby well being pumped.

20/3-16D1. City of Tacoma well 2-A. S. 35th and Lawrence Sts. Drilled public-supply well in sand and gravel, diameter 38 to 26 inches, depth 161 feet. Land-surface datum is 244.01 feet above msl. Highest water level 19.62 below lsd, Feb. 8, 1938; lowest 35.98 below lsd, Jan. 31, 1947. Records available: 1930, 1934, 1937-52. Mar. 3, 28.28; Apr. 16, 29.34; July 2, 29.71; Oct. 3, 31.46; Nov. 5, 31.98; Dec. 5, 31.88.

20/3-19P1. City of Tacoma well 1-A. S. 64th St. and Clement Ave. Drilled public-supply water-table well in sand and gravel, diameter 38 to 26 inches, depth 305 feet. Land-surface datum is 260.99 feet above msl. Highest water level 25.00 below lsd, Aug. 7, 1937; lowest 34.81 below lsd, July 30, 1941. Records available: 1930, 1932, 1934-52.

Jan. 30	30.70	Apr. 16	31.35	Aug. 27	32.25	Nov. 5	32.90
Feb. 29	30.77	July 2	32.16	Oct. 3	32.45	Dec. 5	33.76

20/3-19P4. City of Tacoma well 11. S. 62d St. and Clement Ave. Drilled observation water-table well in sand and gravel, diameter 14 to 12 inches, depth 240 feet. Land-surface datum is 263.98 feet above msl. Highest water level 30.65 below lsd, Feb. 8, 1938; lowest 35.32 below lsd, Apr. 1. 1952. Records available: 1907-9, 1925-31, 1937-40 1945-52. Measurements made by U. S. Geol. Survey.

Jan. 1	33.53	Jan. 20	33.43	Feb. 29	33.57	June 2	34.60
5	33.44	25	33.60	Apr. 1	35.32	July 2	34.90
10	33.43	30	33.58	16	34.19	Nov. 5	d36.46
15	33.51						

d Nearby well pumped recently.

20/3-30C2. City of Tacoma well 5. S. 64th St. and Clement Ave. Drilled observation water-table well in sand and gravel, diameter 12 to 10 inches, depth 244 feet. Land-surface datum is 267.38 feet above msl. Highest water level 33.72 below lsd, Mar. 31, 1938; lowest 41.22 below lsd, Oct. 31, 1949. Records available: 1908-9, 1925-31, 1937-52. Measurement made by Geol. Survey.

Jan. 2	36.82	Apr. 28	37.24	Aug. 1	c41.82	Oct. 31	40.65
30	36.88	June 2	37.83	Sept. 2	c40.20	Dec. 1	39.68
Mar. 3	36.85	30	39.32	29	c41.26	29	39.51
31	37.19	July 29	c43.12				

c Nearby well being pumped.

20/3-30C4. City of Tacoma well 8-A. S. 66th St. and Clement Ave. Drilled public-supply water-table well in gravel, diameter 38 to 26 inches, depth 307 feet. Land-surface datum is 267.80 feet above msl. Highest water level 33.50 below lsd, Mar. 31, 1947; lowest 40.94 below lsd, June 27, 1952. Records available: 1939-52.

Jan. 30	37.02	June 27	40.94	Aug. 27	39.26	Nov. 5	39.54
Feb. 29	36.53	July 2	37.94	Oct. 3	39.51	Dec. 5	39.67
Apr. 16	37.36						

20/3-30L5. City of Tacoma well 7-A. S. 74th St. and Clement Ave. Drilled public-supply water-table well in gravel, diameter 38 to 26 inches, depth 307 feet. Land-surface datum is 255.68 feet above msl. Highest water level 18.85 below lsd, Mar. 9, 1951; lowest 27.41 below lsd, Nov. 3, 1942. Records available: 1939-52.

Jan. 30	20.96	June 4	21.80	July 2	22.29	Oct. 3	23.03
Feb. 29	20.81	27	22.45	Aug. 27	22.94	Nov. 5	23.31
Apr. 16	21.45						

20/3-30N1. City of Tacoma well 3-A. S. 78th St. (extended) and S. Warner St. Drilled public-supply water-table well in gravel, diameter 38 to 26 inches, depth 313 feet. Land-surface datum is 271.63 feet above msl. Highest water level 36.00 below lsd, Apr. 24, 1935; lowest 43.10 below lsd, Nov. 22, 1932. Records available: 1931-52.

Jan. 30	38.90	June 4	39.18	Aug. 15	41.23	Oct. 3	41.81
Feb. 29	38.51	27	40.24	27	41.13	Nov. 5	41.31
Apr. 16	38.98	July 3	39.77				

20/3-35G1. I. S. Broxson. E. 84th St. and Waller Rd. Dug domestic water-table well in sand and gravel below Vashon till, diameter 27 inches, depth 185 feet, lined with concrete to 185. Highest water level 178.57 below lsd, Mar. 18, 1951; lowest 182.27 below lsd, Mar. 18, 1945. Records available: 1940-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	180.30	Apr. 20	180.38	July 21	180.48	Oct. 19	180.91
13	180.30	27	180.34	23	180.49	26	180.94
Feb. 3	180.42	May 4	180.30	27	180.51	Nov. 2	180.98
12	180.49	12	180.29	Aug. 3	180.55	9	180.99
17	180.47	20	180.26	11	180.62	16	181.00
24	180.52	25	180.26	17	180.64	23	181.03
27	180.52	June 1	180.25	24	180.65	Dec. 5	180.98
Mar. 2	180.50	8	180.26	31	180.66	6	181.11
9	180.50	16	180.29	Sept. 7	180.75	8	180.97
16	180.55	23	180.39	15	180.78	14	180.96
27	180.47	28	180.35	28	180.83	21	181.03
Apr. 7	180.41	July 6	180.37	Oct. 5	180.88	28	181.17
14	180.43	13	180.45	12	180.90		

20/4-36H2. Frank Chervenka. Pioneer Way and Sumner-Orting road. Drilled irrigation water-table well, diameter 6 inches, depth 77 feet. Land-surface datum is about 82 feet above msl. Highest water level 3.73 below lsd, Dec. 8, 1950; lowest 8.79 below lsd, Oct. 13, 1939. Records available: 1938-52. Feb. 27, 5.71; Apr. 28, 6.27; July 23, 7.66; Nov. 20, 8.46.

Snohomish County

27/4-30A2. Don Schaffer. State Highway No. 1 and 212th St. S. Drilled unused water-table well in Pleistocene sand (pre-Vashon), diameter 5 inches, depth 180 feet. Land-surface datum is about 410 feet above msl. Highest water level 133.84 below lsd, Aug. 16, 1951; lowest 144.20 below lsd, May 18, 1945. Records available: 1945-52. Feb. 29, 134.74; Apr. 30, 134.59; July 1, 134.94; Aug. 29, 133.99; Nov. 7, 135.39.

28/4-13H1. Oscar Eberhard. Formerly A. H. Dorr. Beverly Park, Mukilteo Rd. and State Highway No. 1. Dug domestic water-table well in sand and gravel, interbedded in Vashon till, diameter 40 inches, depth 22 feet, lined with concrete to 22. Land-surface datum is about 530 feet above msl. Highest water level 3.11 below lsd, Feb. 27, 1946; lowest 10.61 below lsd, Nov. 7, 1952. Records available: 1945-52. Feb. 29, 5.13; Apr. 30, 6.51; July 1, 7.65; Aug. 29, 9.21; Nov. 7, 10.61.

29/5-2F1. L. Falkner. Dug domestic water-table well in Pleistocene gravel (pre-Vashon), diameter 6 feet, depth 115 feet, lined with concrete to 115. Land-surface datum is about 276 feet above msl. Highest water level 109.54 below lsd May 6, 1948; lowest 112.50 below lsd, Aug. 15, 1944. Records available: 1944-52. Feb. 29, 110.98; Apr. 30, 110.87; July 1, 111.49; Aug. 29, 111.48; Nov. 7, 111.94.

30/5-22A1. G. Torie. Dug domestic water-table well in Vashon outwash sand and gravel, diameter 36 inches, depth 42 feet, lined with concrete to 42. Land-surface datum is about 75 feet above msl. Highest water level 15.18 below lsd, Mar. 27, 1951; lowest 24.07 below lsd, Nov. 7, 1952. Records available: 1944-52. Feb. 29, 18.30; Apr. 30, 18.78; July 1, 21.34; Aug. 29, 23.07; Nov. 7, 24.07.

31/5-10J3. J. W. Monigar. Drilled domestic water-table well in Pleistocene sand (pre-Vashon), diameter 6 inches, depth 120 feet. Land-surface datum is about 75 feet above msl. Highest water level 21.85 below lsd, May 6, 1948; lowest 29.49 below lsd, Nov. 7, 1952. Records available: 1945-52. Feb. 29, 27.56; Apr. 30, 26.44; July 1, 27.63; Aug. 29, 28.55; Nov. 7, 29.49.

32/4-5Q1. Elmer Norgaard. Drilled unused water-table well in sub-till sand and gravel, diameter 6 inches, depth 149 feet. Land-surface datum is about 235 feet above msl. Highest water level 127.35 below lsd, Feb. 29, 1952; lowest 133.93 below lsd, Nov. 18, 1949. Records available: 1946-52. Feb. 29, 127.35; Apr. 30, 127.86; July 1, 130.18; Aug. 29, 129.48; Nov. 7, 132.95.

Spokane County

25/42-13B1. Empire Cold Storage Co. Sinto Ave. and Oak St., Spokane. Dug industrial water-table well in fluvioglacial gravel, diameter 41 inches, depth 200 feet, lined with concrete to 200. Land-surface datum is 1,883.37 feet above msl. Highest water level 179.17 below lsd, June 13, 1950; lowest 193.42 below lsd, Nov. 4, 1946. Records available: 1930-52. Feb. 13, 187.80; Apr. 17, 185.17; June 3, 181.59; Oct. 20, 190.75; Dec. 9, 190.75. Pumping at time of measurement.

25/42-14L1. Riverside Park Cemetery Association. Dug irrigation water-table well in fluvioglacial outwash gravel, diameter 6 feet, depth 110 feet, lined with concrete to 82, perforations 82-100. Land-surface datum is about 1,787 feet above msl. Highest water level 81.73 below lsd, June 7, 1948; lowest 101.24 below lsd, Sept. 20, 1942. Records available: 1941-52. Measurement made by Cemetery employees.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	95.36	Mar. 19	94.51	June 26	92.33	Oct. 13	97.90
5	95.34	22	94.47	28	92.60	18	97.81
8	95.35	26	94.37	July 1	92.58	22	97.73
10	95.30	29	94.21	3	92.91	28	97.72
12	95.35	Apr. 2	94.03	5	92.97	Nov. 1	97.68
16	95.40	5	93.90	14	94.10	5	97.67
19	95.39	15	92.79	23	95.31	8	97.70
22	95.34	21	91.80	31	96.26	10	97.69
26	95.41	28	90.52	Aug. 4	96.25	13	97.71
28	95.47	May 1	89.69	9	97.00	15	97.73
Feb. 4	95.62	3	89.08	11	96.81	18	97.73
8	95.36	6	88.41	13	97.02	21	97.74
12	95.11	8	88.14	25	97.65	23	97.73
14	95.01	12	87.86	27	97.56	26	97.74
16	94.91	15	87.82	30	97.72	28	97.75
20	94.80	19	87.82	Sept. 2	97.72	Dec. 3	97.74
23	94.76	22	88.00	4	97.74	8	97.74
27	94.78	24	88.18	6	98.43	12	97.74
29	97.80	June 3	88.66	10	98.12	15	97.71
Mar. 5	94.86	7	89.20	13	97.98	18	97.70
7	94.94	11	89.58	Oct. 2	97.75	20	97.69
10	94.93	17	90.76	4	97.73	26	97.68
14	94.69	21	91.85	8	97.86	29	97.71
17	94.51	23	91.86				

25/43-11G3. City of Spokane well 3. Trent Ave. and Waterworks St. Dug public-supply water-table well in fluvioglacial gravel, diameter 24 to 29 feet, depth 41 feet, lined with concrete. Land-surface datum is 1,902.11 feet above msl. Highest water level 9.31 below lsd, May 31, 1948; lowest 30.11 below lsd, Sept. 2, 1946. Records available: 1938-52. Measurements furnished by City of Spokane.

Feb. 4	24.90	Apr. 28	14.53	July 28	27.33	Oct. 19	g27.23
11	23.82	May 5	13.60	Aug. 4	28.38	20	27.23
16	g23.73	12	15.32	11	28.39	27	27.42
18	23.90	19	15.79	17	g28.42	Nov. 3	27.53
25	24.58	26	16.84	18	28.59	10	27.22
Mar. 3	25.22	June 2	18.53	25	28.69	17	27.05
10	25.24	3	g18.87	Sept. 1	28.75	24	27.04
12	25.32	9	22.15	8	27.43	Dec. 1	27.05
24	25.30	16	25.61	15	27.34	8	g27.01
31	23.28	23	24.38	22	27.43	10	g27.02
Apr. 7	21.22	30	23.46	29	27.46	15	27.05
14	18.93	July 7	25.13	Oct. 6	28.63	22	27.03
17	g17.84	14	26.61	13	27.59	29	27.24
21	16.28	21	27.21				

g By Geol. Survey.

25/43-11G6. City of Spokane gage well 1. Trent Ave. and Waterworks St. Dug observation water-table well in fluvioglacial gravel, diameter 30 inches, depth 64 feet, lined with concrete to 64 feet. Land-surface datum is 1,934.31 feet above msl. Highest water level 39.07 below lsd, Dec. 26, 27, 1933; lowest 60.87 below lsd, July 9, 1931. Records available: 1926-52. Feb. 16, 54.71; Apr. 17, 49.20; June 3, 49.82; Aug. 17, 58.28; Oct. 19, 58.19; Dec. 10, 57.99.

25/43-11K1. City of Spokane gage well 2. Airport St. and Rutter Ave. Dug observation water-table well in fluvioglacial gravel, diameter 36 to 18 inches, depth 70 feet, lined with concrete to 70. Land-surface datum is 1,945.37 feet above msl. Highest water level 51.53 below lsd, Dec. 27, 1933; lowest 70.33 below lsd, Dec. 20, 1930. Records available: 1929-52. Feb. 16, 64.79; Apr. 14, 59.86; Dec. 10, 67.90.

25/43-14K1. Ohio Match Co. Broadway and Yardley Sts., Spokane. Dug unused water-table well in fluvioglacial gravel, diameter 41 inches, depth 83 feet, lined with concrete to 83. Land-surface datum is 1,927.40 feet above msl. Highest water level 35.17 below lsd, May 25, 1948; lowest 50.67 below lsd, Jan. 29, 1931. Records available: 1920-52. Feb. 16, 45.27; Apr. 17, 41.43; June 3, 39.88; Aug. 15, 48.32; Oct. 21, 47.99; Dec. 10, 47.94.

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25/43-17D1. New Method Laundry. Mission Ave. and Pearl St., Spokane. Dug industrial water-table well in fluvioglacial gravel, diameter 30 inches, depth 63 feet, cribbed with brick. Land-surface datum is 1,909.22 feet above msl. Highest water level 40.42 below lsd, May 25, 1948; lowest 51.22 below lsd, Feb. 7, 1931. Records available: 1928-52. June 3, 44.75; Dec. 9, 46.73.

25/44-2B1. Trentwood Irrigation District. Dug public-supply water-table well in fluvioglacial gravel, diameter 6 feet, depth 127 feet, lined with concrete. Land-surface datum is 2,035.30 feet above msl. Highest water level 86.05 below lsd, June 13, 1950; lowest 109.73 below lsd, Dec. 23, 1930. Records available: 1928-52. Apr. 17, 93.68: June 3, 90.02, pumping; Oct. 21, 99.50.

25/44-15E1. Modern Electric Water Co. well 5. Records available: 1914-50. Measurement discontinued.

25/44-19D1. Edgecliff Sanitarium. U. S. Highway 10 and Park Rd. Dug public-supply water-table well in fluvioglacial gravel, diameter 60 to 29 inches, depth 88 feet. Land-surface datum is 1,969.57 feet above msl. Highest water level 67.97 below lsd, June 13, 1950; lowest 82.82 below lsd, Dec. 8, 1931. Records available: 1920, 1928-52. Apr. 17, 74.41; June 3, 71.50, pumping; Oct. 21, 80.11, pumped recently; Dec. 10, 79.85.

25/44-21J1. Modern Electric Water Co. well 3. Records available: 1912-14, 1920, 1926-50. Measurement discontinued.

25/44-22N1. Modern Electric Water Co. well 7. Records available: 1942-50. Measurement discontinued.

25/44-23D1. E. E. Gooding. U. S. Highway 10 and Evergreen Rd. Dug irrigation water-table well in fluvioglacial gravel, diameter 48 to 18 inches, depth 97 feet, lined with concrete to 97 feet. Land-surface datum is 2,016.74 feet above msl. Highest water level 77.85 below lsd, Apr. 8, 1950; lowest 95.40 below lsd, Dec. 8, 1931. Records available: 1931-52. Feb. 16, 86.52; Apr. 17, 83.64; June 3, 84.83, pumping; Dec. 10, 89.27.

25/45-10C1. Mrs. George Clark. Dug unused water-table well in fluvioglacial gravel, diameter 36 inches, depth 67 feet, lined with terra cotta tile. Land-surface datum is 2,019.54 feet above msl. Highest water level 45.12 below lsd, June 29, 1950; lowest 68.73 below lsd, Sept. 20, 1930. Records available: 1928-52. Oct. 19, 58.90; Dec. 10, 60.44.

25/45-16C1. Inland Empire Paper Co. Dug domestic and irrigation water-table well in fluvioglacial gravel, diameter 8 feet, depth 129 feet. Land-surface datum is 2,055.89 feet above msl. Highest water level 88.85 below lsd, June 29, 1950; lowest 114.53 below lsd, Dec. 8, 1931. Records available: 1920, 1929-52. Feb. 16, 100.14; Apr. 17, 97.56; June 3, 92.85; Aug. 15, 99.61, pumping; Oct. 19, 101.90; Dec. 10, 103.18.

26/43-7Q1. C. E. Marr. Dug unused water-table well in fluvioglacial gravel, diameter 6 feet, depth 87 feet, cribbed with brick. Land-surface datum is about 1,795 feet above msl. Highest water level 74.35 below lsd, July 28, 1949; lowest 79.63 below lsd Apr. 7, 1948. Records available: 1942-52. Apr. 17, 75.58; June 3, 75.83; Aug. 17, 75.76; Oct. 19, 76.30; Dec. 10, 76.38.

26/43-16D1. Permanente Metals Corp.test well. Drilled observation water-table well in fluvioglacial gravel, diameter 8 inches, depth 247 feet. Land-surface datum is about 1,937 feet above msl. Nearby well being pumped. Measurement by Company. Highest water level 155.40 below lsd, May 19, 1948; lowest 162.20 below lsd, Nov. 13, 20, 27, 1944. Records available: 1943-52. Measurements by Corporation.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	160.10	Apr. 2	160.50	June 18	160.35	Sept. 10	160.99
9	160.85	9	160.73	25	160.31	17	161.16
16	160.85	16	160.69	July 2	160.51	24	161.16
23	160.90	23	160.62	9	160.51	Nov. 5	161.39
30	160.80	30	160.81	16	160.81	12	161.80
Feb. 6	160.81	May 1	160.71	23	160.79	19	161.10
13	160.78	8	160.56	30	160.95	26	161.15
20	160.80	15	160.60	Aug. 6	161.15	Dec. 3	161.14
27	160.68	22	160.70	13	161.31	10	161.20
Mar. 5	160.74	29	160.55	20	161.23	17	161.50
12	160.68	June 4	160.60	27	161.29	24	161.13
19	160.63	11	160.75	Sept. 3	161.32	31	161.16
26	160.63						

26/43-19A1. Country Homes Estates. Holland and Ivanhoe Rds. Dug public-supply and irrigation water-table well in fluvioglacial gravel, diameter 6½ feet, depth 161 feet, lined with concrete to 161. Land-surface datum is 1,935.91 feet above msl. Highest water level 133.72 below lsd, Mar. 15, 1934; lowest 138.50 below lsd, Jan. 29, 1931. Records available: 1930-52. Feb. 15, 136.75, pumping; Apr. 17, 137.94; June 3, 136.87; Dec. 10, 137.23.

26/43-34P1. Great Northern Ry. Co. Hillyard railroad yard. Dug railroad water-table well in fluvioglacial gravel, diameter 6 to 10 feet, depth 240 feet, cribbed with brick to 164, steel casing to 240. Land-surface datum is 2,035.98 feet above msl. Highest water level 163.12 below lsd, May 15, 1928; lowest 179.85 below lsd, Oct. 5, 1945. Records available: 1928-51. No measurement made in 1952.

26/44-32R1. Hutton Settlement. Dug institutional and irrigation water-table well in fluvioglacial gravel, diameter 6 to 4 feet, depth 113 feet. Land-surface datum is 2,002.08 feet above msl. Highest water level 87.47 below lsd, June 13, 1950; lowest 104.60 below lsd, Dec. 12, 1947. Records available: 1928-52. Apr. 17, 96.87; June 3, 90.69, pumped recently.

Thurston County

16/1W-19G1. Town of Tenino. Garfield and Sheridan Sts. Dug unused water-table well in fluvioglacial gravel, size 10 by 10 feet, depth 42 feet. Land-surface datum is about 138 feet above msl. Highest water level 3.27 below lsd, Dec. 6, 1950; lowest 13.67 below lsd, Nov. 6, 1952. Records available: 1941-52. Feb. 28, 5.84; Apr. 24, 7.36; July 22, 9.64; Nov. 6, 13.67.

16/2W-29E1. E. J. Poore. Drilled domestic water-table well in sand and gravel, diameter 8 inches, depth 61 feet. Land-surface datum is about 209 feet above msl. Highest water level 14.22 below lsd, Mar. 29, 1951; lowest 33.90 below lsd, Nov. 6, 1952. Records available: 1947-52. Feb. 28, 19.19; Apr. 24, 22.25; July 22, 27.34; Nov. 6, 33.90.

16/3W-29N1. Charles F. Norrie. Drilled unused water-table well in gravel, diameter 6 inches, depth 58 feet. Land-surface datum is about 138 feet above msl. Highest water level 33.26 below lsd, Mar. 1, 1949; lowest 40.95 below lsd, Sept. 6, 1949. Records available: 1947-52. Feb. 28, 36.95; Apr. 24, 39.85.

17/1W-4C2. W. R. Rowe. Drilled domestic water-table well in sand and gravel, diameter 8 inches, depth 36 feet, cased to 36. Land-surface datum is about 200 feet above msl. Highest water level 17.72 below lsd, Mar. 29, 1951; lowest 33.14 below lsd, Nov. 6, 1952. Records available: 1949-52. Feb. 28, 28.02; Apr. 24, 28.59; July 22, 29.21; Nov. 6, 33.14.

17/2-19M2. Town of Yelm. Northern Pacific Railway tracks and State Highway 5-1. Drilled unused water-table well in glacial sand and gravel, diameter 8 inches, depth 97 feet, cased to 97. Land-surface datum is about 350 feet above msl. Highest water level 25.12 below lsd, Feb. 26, 1952; lowest 32.86 below lsd, Dec. 5, 1952. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	27.75	Feb. 26	25.12	Apr. 22	26.77	Nov. 7	32.54
15	27.48	Mar. 12	25.31	May 6	27.38	Dec. 2	32.84
29	27.12	25	25.69	20	28.04	5	32.86
Feb. 12	25.23	Apr. 8	26.13				

Walla Walla County

6/35-16B1. Claude Winn. Dug and drilled irrigation water-table well in alluvial gravel, diameter 48 to 8 inches, depth 74 feet. Land-surface datum is 730.81 feet above msl. Highest water level 0.64 below lsd, Jan. 15, 1937; lowest 9.28 below lsd, July 7, 1949. Records available: 1933, 1935-51. No measurement made in 1952.

Whatcom County

39/2-25R1. J. W. Elsbree. Smith and Meridian Rds. Dug domestic water-table well in sand and gravel, diameter 24 inches, depth 57 feet, lined with concrete to 57. Land-surface datum is about 165 feet above msl. Highest water level 54.06 below lsd, Apr. 20, 1950; lowest 58.60 below lsd, Aug. 14, 1947. Records available: 1946-52. Feb. 29, 57.38; Apr. 30, 55.77; July 1, 56.00; Aug. 29, 56.12; Nov. 7, 56.10.

40/1-4J1. City of Blaine. Drilled public-supply water-table well in fluvioglacial sand and gravel, diameter 12 inches, depth 746 feet. Land-surface datum is about 175 feet above msl. Highest water level 64.92 below lsd, May 11, 1940; lowest 75.23 below lsd, July 3, 1946. Records available: 1938-52. Apr. 30, 75.03; July 1, 70.35; Nov. 7, 68.74.

41/1-31Q1. City of Blaine. Twelfth and G Sts. Drilled unused artesian well in fluvioglacial gravel, diameter 12 inches, depth 247 feet. Land-surface datum is about 52 feet above msl. Highest water level 22.50 above lsd, Apr. 17, 1947; lowest 13.50 above lsd, May 17, 1945. Records available: 1939-52, 1944-52. Feb. 29, +22; Apr. 30, +22; July 1, +22; Aug. 29, +21; Nov. 7, +21.

Whitman County

14/45-4N1. Emory Crawford. Drilled domestic and stock artesian well in basalt, diameter 6 inches, depth 100 feet. Land-surface datum is 2,381.96 feet above msl. Highest water level 36.82 below lsd, Mar. 7, 1935; lowest 57.07 below lsd, Oct. 18, 1952. Records available: 1932-52. Feb. 15, 55.55; Apr. 18, 55.19; June 5, 56.01; Aug. 15, 56.90; Oct. 18, 57.07; Dec. 9, 56.92.

14/45-5B1. Washington State College well 1. Drilled institutional artesian well in basalt, diameter 4 inches, depth 145 feet. Land-surface datum is 2,363.04 feet above msl. Highest water level 22.02 below lsd, Mar. 15, 1935; lowest 39.84 below lsd, Aug. 15, 1952. Records available: 1935-52. Feb. 15, 38.46; Apr. 18, 38.18; June 5, 40.29, nearby well being pumped; Aug. 15, 39.84; Oct. 18, 39.83; Dec. 9, 39.52.

14/45-5D2. Standard Lumber Co. U. S. Highway 195 and Grand St., Pullman. Drilled unused artesian well in basalt, diameter 6 inches, depth 162 feet. Land-surface datum is 2,336.35 feet above msl. Highest water level 7.07 feet above lsd, Mar. 7, 1935; lowest 12.05 below lsd, Dec. 13, 1951. Records available: 1933-52. Feb. 15, 11.72. Measurement discontinued.

14/45-11N1. U. S. Geol. Survey. Driven observation water-table well in gravel, diameter 1½ inches, depth 15 feet. Land-surface datum is about 2,523 feet above msl. Highest water level 2.39 below lsd, Apr. 21, 1937; lowest 9.48 below lsd, Oct. 3, 1940. Records available: 1934-52. Feb. 15, 2.73; Apr. 18, 3.44; June 5, 4.66; Aug. 15, 6.58; Oct. 18, 6.60; Dec. 9, 6.12.

15/46-20K1. J. D. Carson. Dug unused water-table well in Palouse formation, diameter 30 inches, depth 15 feet, cribbed with brick. Land-surface datum is about 2,579 feet above msl. Highest water level 3.43 below lsd, Apr. 7, 1950; lowest 8.40 below lsd, Jan. 3, 1937. Records available: 1934-37, 1939 1942-52. Feb. 15, 3.57; Apr. 18, 3.45; June 5, 5.55; Aug. 15, 5.89; Oct. 18, 7.45; Dec. 9, 6.79.

18/43-1B1. Inland Empire Milling Co. Park and Front Sts., St. John. Drilled unused well in basalt, diameter 6 inches, depth 84 feet. Land-surface datum is about 2,100 feet above msl. Highest water level 2.01 below lsd, Dec. 9, 1952; lowest 7.04 below lsd, Aug. 15, 1952. Records available: 1945-52. Feb. 15, 2.38; Apr. 18, 2.40; June 5, 3.69; Aug. 15, 7.04; Oct. 18, 2.32; Dec. 9, 2.01.

18/43-35P1. G. H. Noe. Drilled unused water-table well in basalt, diameter 6 inches, depth 132 feet. Land-surface datum is about 2,320 feet above msl. Highest water level 5.10 below lsd, Mar. 20, 1949; lowest 16.23 below lsd, Oct. 7, 1945. Records available: 1940-52. Feb. 15, 9.10; Apr. 18, 8.18; June 5, 10.21; Aug. 15, 12.64; Oct. 18, 13.72; Dec. 9, 12.97.

WYOMING

By John R. Rapp

Scope of Water-Level Program

The observation-well program in Wyoming was continued in 1952 in cooperation with the State Engineer, the city of Cheyenne, and as part of the program for the development of the water resources of the Missouri River Basin. Measurement of water levels were made in 109 wells. In addition to the water-level measurements given in this report, many additional measurements of water levels were made during project studies and have been published in the project reports. A report entitled reconnaissance of the geology and ground-water resources of the Pass Creek Flats area, Carbon County, Wyo., was issued as U. S. Geol. Survey Circular 188. (Figs. 28-33.)

Interpretation of Water-Level Fluctuations

Water levels fluctuate in response to precipitation, surface runoff in streams, the amount of water used in irrigated areas, the amount of water pumped from wells and the amount of ground water withdrawn by plants. The Cheyenne municipal well field, Laramie County, was expanded during 1952. In the old part of the field there was an average decline in water levels of 2.1 feet during 1952. This was owing to heavy pumping of wells. In the new part of the field that was brought into production in the latter part of 1952, the average decline in water levels was 3.2 feet. In the Egbert-Pine Bluffs-Carpenter area, Laramie County, the September water levels declined an average of almost 2 feet from the September 1951 levels and were about 0.5 foot lower than in September 1941. In the area along the North Platte River in Goshen County, the use of water for irrigation caused an appreciable fluctuation of water levels. Water levels rise in the spring and continue to rise until irrigation is discontinued in the fall. In September 1952 water levels in many wells were at record highs, and the average water level was more than 0.5 foot higher than in September 1951. In the Wheatland Flats area, Platte County, the water levels in wells rose rapidly as soon as irrigation water was applied in the spring and continued to rise until fall, mainly September, when irrigation was discontined. In 1952 the September water levels were at about the same stage as that for the previous September levels.

During the past year there has been no significant change in water levels in the Pass Creek Flats area, Carbon Co.; the Laramie Plains, Albany Co.; the La Prele area, Converse Co.; the Owl Creek Project, Hot Springs Co.; the Paintrock Project, Big Horn Co.; and the Riverton Project, Fremont Co. Water levels in wells in these areas followed about the same seasonal fluctuations in 1952 as they did in 1951.

Well-Numbering System

Wells are numbered in accordance with the Bureau of Land Management system of land subdivision. The first segment of a well number indicates the township, the second the range, and the third the section. The lowercase letters, a, b, c, and d, following the section number indicate the location of the well within the section; the first letter denotes 160-acre tract; the second the 40-acre tract; and the third the 10-acre tract. When more than one well is in the smallest significant tract, consecutive numbers beginning with 1 are added as suffixes. Figure shows a graphical illustration of this method of well numbering within a section of 640 acres. Well numbers preceded by the capital letters A, B, C, and D designate wells in the northeast, northwest, southwest, and southeast quadrants, respectively, of the Wind River meridian and base line system. Well numbers not preceded by a capital letter designate wells in the sixth principal meridian and base line system.

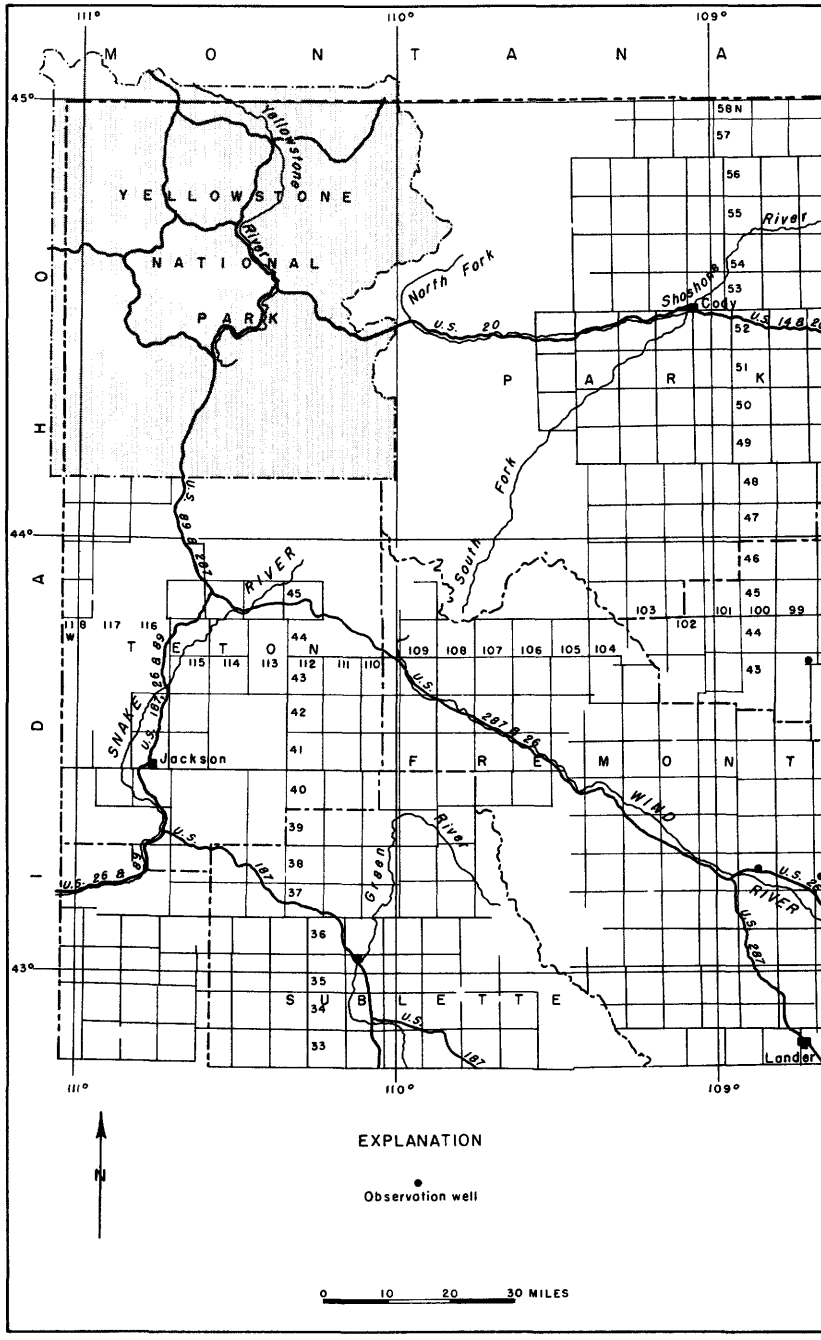


Figure 28. --Location of observation wells in northwestern Wyoming, 1952.

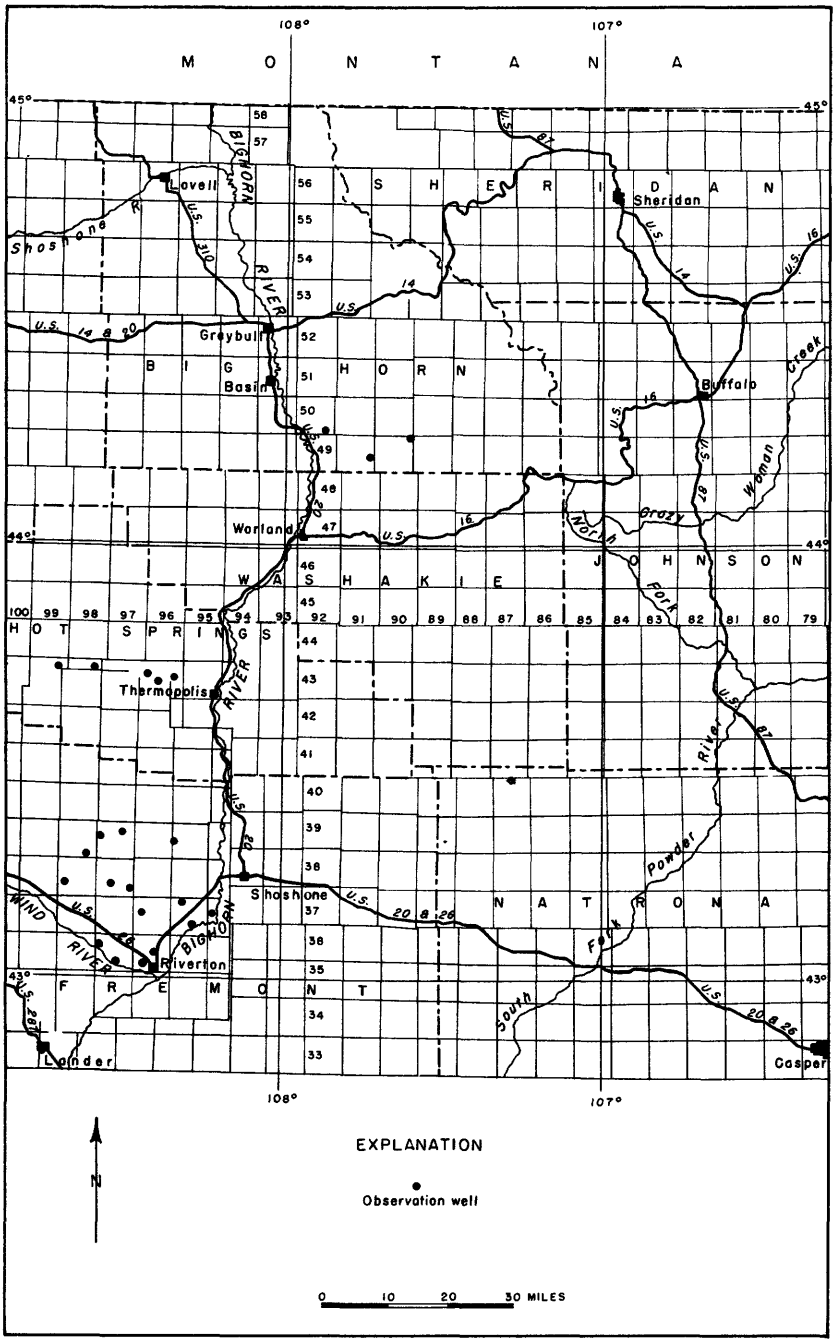


Figure 29.--Location of observation wells in north-central Wyoming, 1952.

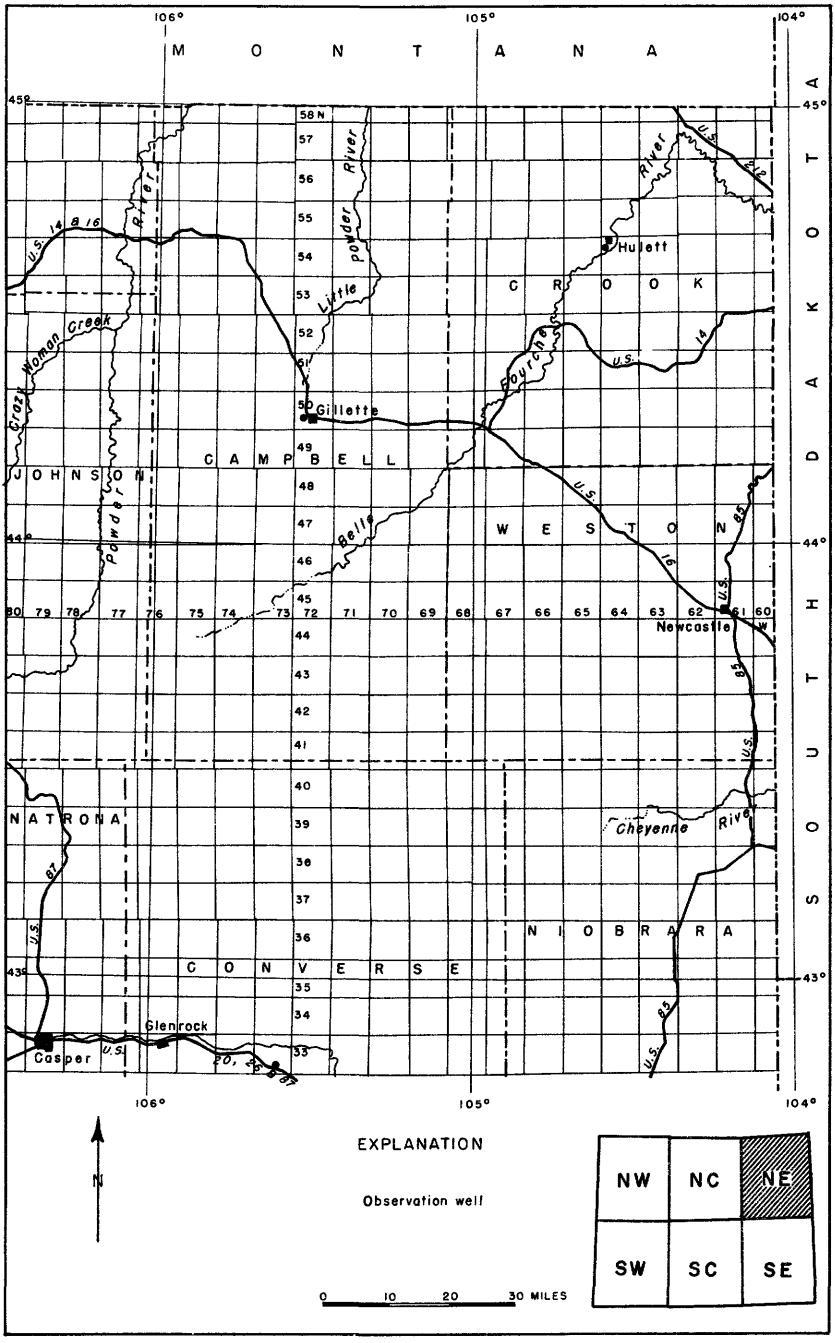


Figure 30. --Location of observation wells in northeastern Wyoming, 1952.

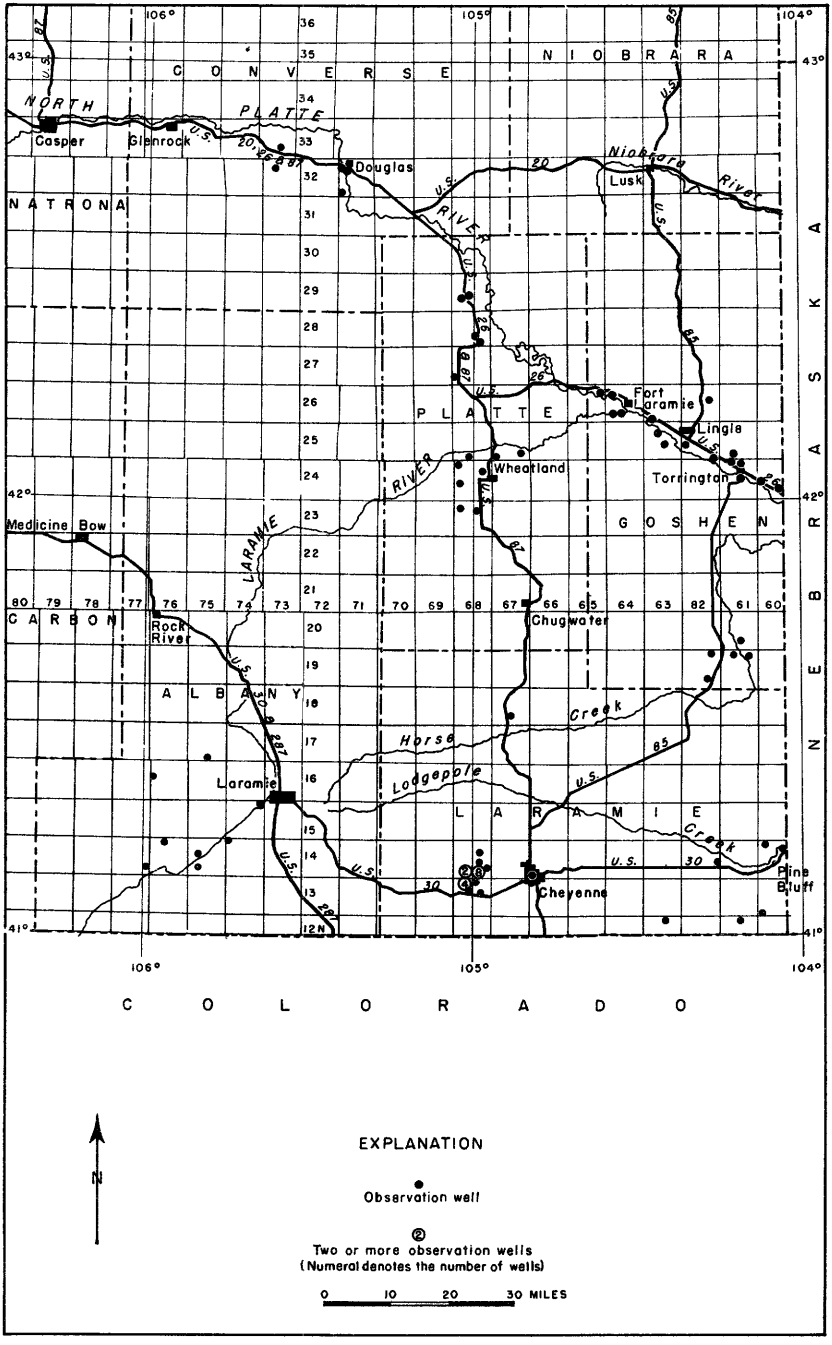


Figure 31. --Location of observation wells in southeastern Wyoming, 1952.

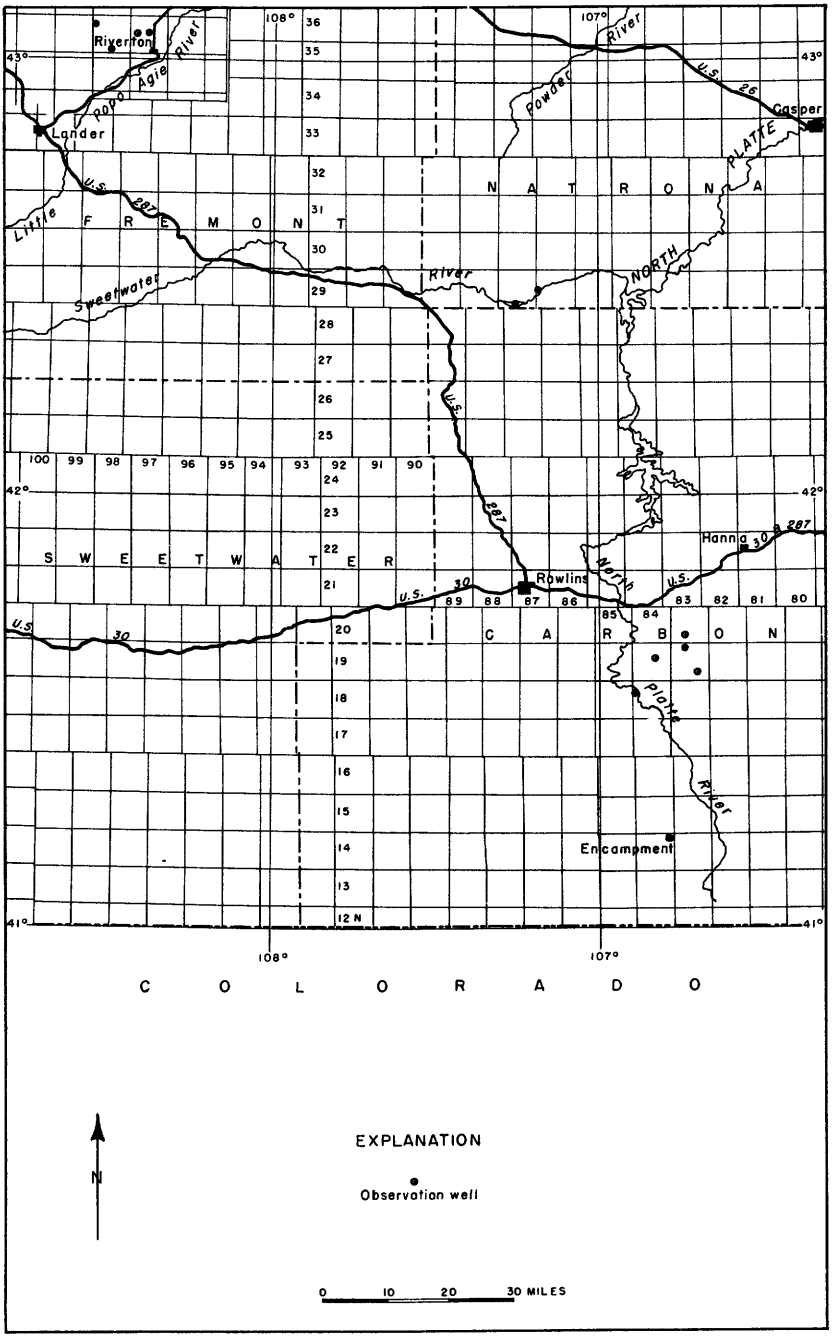


Figure 32. --Location of observation wells in south-central Wyoming, 1952.

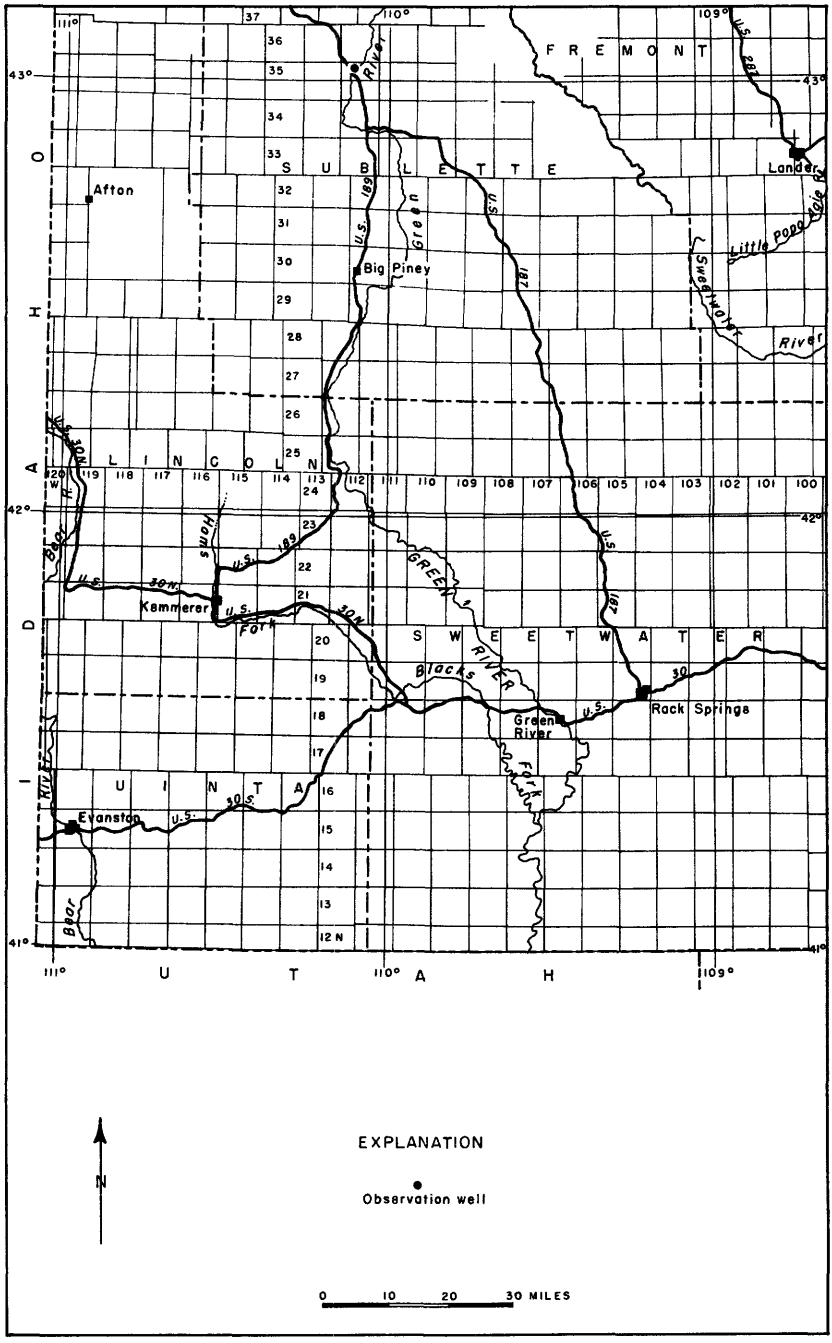
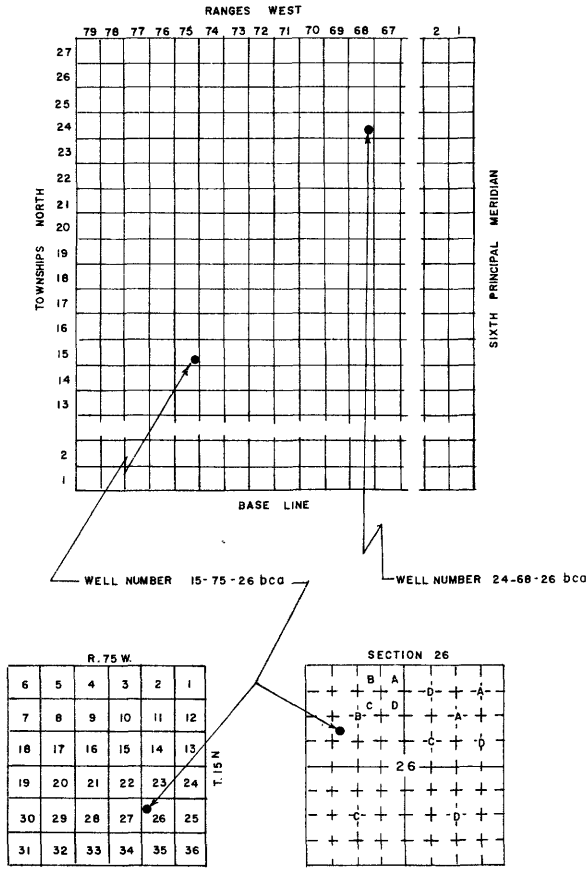


Figure 33. --Location of observation wells in southwestern Wyoming, 1952.



Well Descriptions and Water-Level Measurements

(Water levels are in feet below land-surface datum unless otherwise indicated.)

Albany County

14-74-6dac. Monolith Portland Midwest Co. Drilled unused water-table well in gravel of alluvium, diameter 4 inches, depth 54 feet. Land-surface datum is 7,151.4 feet above msl. Highest water level 3.72 below lsd, May 24, 1951; lowest 6.39 below lsd, Sept. 23, 1952. Records available: 1948-52. Mar. 11, 5.10; Sept. 23, 6.39.

14-75-17aac. Ray Moeller. Dug domestic and stock water-table well in gravel of terrace deposits, diameter 4 feet, depth 8 feet, cribbed with concrete. Land-surface datum is 7,275 feet above msl. Highest water level 2.90 below lsd, July 8, 1949; lowest 6.87 below lsd, Jan. 22, 1951. Records available: 1948-52. Mar. 11, 6.23; Sept. 23, 6.55.

14-75-29adb. Oda Mason. Dug unused water-table well in alluvium, diameter 5 feet, depth 10 feet, cribbed with wood to 8. Highest water level 1.61 below lsd, May 24, 1951; lowest 5.64 below lsd, Nov. 15, 1949. Records available: 1948-52. Sept. 23, 5.12.

14-76-4aab. John A. Conners. Drilled unused water-table well in gravel of terrace deposits, diameter 6 inches, depth 12 feet. Highest water level 3.48 below lsd, June 21, 1949; lowest 6.58 below lsd, Sept. 23, 1952. Records available: 1948-52. Mar. 11, 5.20; Sept. 23, 6.58.

14-77-25dcd. Mr. Embree. Drilled stock water-table well in gravel of terrace deposits, diameter 8 inches, depth 75 feet. Land-surface datum is 7,417.1 feet above msl. Highest water level 24.92 below lsd, Sept. 21, 1951; lowest 32.77 below lsd, July 20, 1950. Records available: 1948-52. Mar. 11, 30.09; Sept. 23, 25.07.

15-74-1aaa. Maurice Laycock. Dug stock water-table well in alluvium, diameter 24 inches, depth 11 feet, cribbed with brick. Land-surface datum is 7,079.5 feet above msl. Highest water level 2.61 below lsd, Mar. 27, 1950; lowest 6.67 below lsd, Mar. 22, 1951. Records available: 1948-52. Mar. 11, 6.60; Sept. 23, 4.65.

16-76-18dbb. Dr. Markley. Drilled unused water-table well in alluvium, diameter 6 inches, reported depth 15 feet. Land-surface datum is 7,329.4 feet above mls. Highest water level 0.00 July 8, 1949, May 24, July 23, 1951; lowest 6.02 below lsd, Sept. 23, 1952. Records available: 1948-52. Sept. 23, 6.02.

17-75-34cdd. Ralph May. Dug unused water-table well in alluvium, diameter 4 feet, depth 10 feet, cribbed with wood. Highest water level 0.87 below lsd, June 21, 1949; lowest 6.42 below lsd, Dec. 14, 1948. Records available: 1948-52. Mar. 11, 2.01; Sept. 23, 6.03.

Big Horn County

49-90-1daa1. Owner unknown. Dug unused water-table well in sand and gravel of alluvium, diameter 4 feet, depth 14 feet, cribbed with rock. Land-surface datum is 4,456.4 feet above msl. Highest water level 3.00 below lsd, June 29, 1949; lowest 9.43 below lsd, Apr. 3, 1952. Records available: 1947-52. Jan. 4, 8.55; Jan. 30, 9.15; Feb. 29, 9.30; Apr. 3, 9.43; May 9, 7.02; July 1, 7.29.

49-91-24bba. U. S. Geol. Survey. Jetted unused water-table well in alluvium, diameter $\frac{3}{4}$ inch, depth 11 feet, screen 10-11. Land-surface datum is 4,110.8 feet above msl. Highest water level 7.32 below lsd, June 28, 1951; lowest 9.32 below lsd, Apr. 27, 1951. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 16, 1951	9.22	July 31, 1951	(f)	Dec. 7, 1951	9.04	Apr. 3, 1952	9.06
27	9.32	Sept. 5	8.07	Jan. 4, 1952	8.99	May 9	8.82
May 29	(f)	Oct. 3	8.40	30	8.90	July 1	7.49
June 28	7.32	Nov. 7	8.76	Feb. 29	8.95		

f Dry.

50-92-31bba1. Manderson Hotel (Johnson). Drilled unused artesian well in Fort Union formation, diameter 5 inches, depth 48 feet. Land-surface datum is 3,893.2 feet above msl. Highest water level 8.88 below lsd, July 26, 1948; lowest 19.04 below lsd, Aug. 31, 1950. Records available: 1947-52. Jan. 4, 12.31; Jan. 30, 11.04; Feb. 29, 10.66; Apr. 4, 10.44; May 9, 11.21.

50-92-35adc. U. S. Geol. Survey. Jetted unused water-table well in alluvium, diameter $\frac{3}{4}$ inch, depth 22 feet, screen at 21.5-22.0. Land-surface datum is 3,970.8 feet above msl. Highest water level 12.63 below lsd, July 31, 1951; lowest 17.59 below lsd, Apr. 27, 1951. Records available: 1951-52.

Apr. 16, 1951	17.43	July 31, 1951	12.63	Dec. 7, 1951	15.74	Apr. 3, 1952	16.81
27	17.59	Sept. 5	13.15	Jan. 4, 1952	16.08	May 9	17.03
May 29	17.30	Oct. 3	14.34	30	16.02	July 1	15.23
June 28	15.97	Nov. 7	14.84	Feb. 29	16.49		

f Dry.

Campbell County

50-72-20add. State of Wyoming. Drilled observation artesian well in sandstone of Wasatch formation, diameter 3 inches, depth 320 feet, cased to 180. Land-surface datum is 4,567.14 feet above msl. Highest water level 76.21 below lsd, Sept. 4, 1951; lowest 78.18 below lsd, Oct. 6, 1952. Records available: 1949-52.

50-72-20add--Continued.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	77.49	Apr. 1	78.01	July 2	78.09	Oct. 6	78.18
Feb. 4	77.70	May 6	77.80	Sept. 4	77.95	Nov. 12	78.00
Mar. 10	77.61	June 11	77.92				

Carbon County

18-84-7dad. H. G. Carpening. Dug domestic water-table well in sand and gravel of alluvium, diameter 6 feet, depth 12 feet, cribbed with wood. Highest water level 6.47 below lsd, June 25, 1951; lowest 9.83 below lsd, Oct. 27, 1950. Records available: 1950-52. Apr. 16, 9.01; Sept. 23, 8.53.

19-83-4dda. A. L. Welton. Drilled domestic water-table well in sand and gravel of alluvium, diameter 8 inches, depth 17 feet, cased to 17. Highest water level 3.91 below lsd, May 23, 1951; lowest 7.80 below lsd, Sept. 22, 1951. Records available: 1950-52. Apr. 16, 6.58; Sept. 23, 7.59.

19-83-26cad. R. Welton. Dug stock water-table well in sand and gravel of alluvium, diameter 6 feet, depth 10 feet, cribbed with wood to 10. Highest water level 0.23 below lsd, July 31, 1951; lowest 2.77 below lsd, Sept. 23, 1952. Records available: 1950-52. Apr. 16, 0.52; Sept. 23, 2.77.

19-84-15dbd. Rocky Mountain Sheep Co. Drilled unused water-table well in sand of North Park formation, diameter 4 inches, reported depth 600 feet. Highest water level 115.07 below lsd, July 31, 1951; lowest 116.23 below lsd, Nov. 17, 1950. Records available: 1950-52. Apr. 16, 115.27; Sept. 23, 115.47.

20-83-28bab. State of Wyoming. Drilled unused water-table well in sand of North Park formation, diameter 3 inches, depth 33 feet. Highest water level 17.03 below lsd, Dec. 12, 1950; lowest 18.35 below lsd, Aug. 1, 1950. Records available: 1950-52. Apr. 16, 17.40; Sept. 23, 17.48.

Converse County

32-71-7dcd. Town of Douglas. Drilled unused water-table well in sand and gravel of alluvium, diameter 12 inches, depth 51 feet. Highest water level 6.96 below lsd, Mar. 13, 1952; lowest 13.96 below lsd, June 26, 1951. Records available: 1950-52. Mar. 13, 6.96.

32-71-8acb. U. S. Geol. Survey. Driven observation water-table well in sand and gravel of alluvium, diameter2 inches, depth 8 feet, cased to 8. Highest water level 2.32 below lsd, July 25, 1951; lowest 5.36 below lsd, Oct. 26, 1950. Records available: 1950-52. Sept. 24, 3.29. Measurement discontinued.

32-71-31aaa. Mrs. Sallie Edwards. Drilled domestic water-table well in siltstone of White River group, diameter 6 inches, depth 84 feet, cased to 84. Highest water level 13.34 below lsd, Feb. 9, 1951; lowest 20.32 below lsd, July 10, 1950. Records available: 1950-52. Mar. 13, 13.87; Sept. 24, 14.27.

32-73-9bdd. U. S. Geol. Survey. Drilled observation water-table well in silt and clay of slope wash, diameter $\frac{3}{4}$ inch, depth 14 feet. Highest water level 1.03 below lsd, Sept. 25, 1950; lowest 10.67 below lsd, Apr. 4, 1952. Records available: 1950-52. Apr. 4, 10.67. Measurement discontinued.

33-73-27abc. U. S. Geol. Survey. Drilled observation water-table well in silt of slope wash, diameter $\frac{3}{4}$ inch, depth 14 feet. Highest water level 2.73 below lsd, Apr. 4, 1952; lowest 6.45 below lsd, Aug. 24, 1950. Records available: 1950-52. Apr. 4, 2.73; Sept. 24, 5.97.

33-73-34ccc. Joe L. Carmin. Drilled unused water-table well in siltstone of White River group, diameter 6 inches, depth 120 feet. Highest water level 25.38 below lsd, May 23, 1951; lowest 26.96 below lsd, July 25, 1951. Records available: 1950-51. Measurement discontinued.

Crook County

54-64-7bcc. Charles Martin. Dug observation water-table well in alluvium, diameter 5 feet, depth 20 feet. Highest water level 13.50 below lsd, Apr. 7, 1949; lowest 16.13 below lsd, Mar. 25, 1946. Records available: 1942-52.

Jan. 8	15.00	May 21	14.51	Aug. 21	14.64	Nov. 21	15.03
Feb. 4	15.12	June 23	14.71	Sept. 22	14.93	Dec. 24	15.05
May 5	14.53	July 21	14.59	Oct. 23	14.92		

Fremont County

A-1-3-7ad3. U. S. Geol. Survey. Jetted unused water-table well in alluvium, diameter ¾ inch, depth 29 feet, screen 28-29. Land-surface datum is 5,163.5 feet above msl. Highest water level 8.29 below lsd, Aug. 30, 1952; lowest 21.23 below lsd, May 14, 1952. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 30, 1951	20.12	July 31, 1951	11.91	Nov. 28, 1951	15.24	Mar. 28, 1952	20.23
Apr. 28	20.84	Aug. 28	9.97	Dec. 28	16.64	May 14	21.23
June 1	21.02	Oct. 1	11.81	Jan. 29, 1952	18.14	Aug. 30	8.29
26	18.10	29	12.84	Feb. 29	19.31		

A-1-3-27bb. U. S. Geol. Survey. Jetted unused water-table well in alluvium, diameter ¾ inch, depth 25 feet, screen 24-25. Land-surface datum is 5,080.7 feet above msl. Highest water level 3.59 below lsd, Aug. 30, 1952; lowest 6.49 below lsd, May 14, 1952. Records available: 1951-52.

Mar. 30, 1951	6.05	July 31, 1951	4.34	Nov. 28, 1951	5.68	Mar. 28, 1952	6.03
Apr. 28	6.24	Aug. 28	3.65	Dec. 28	6.14	May 14	6.49
June 1	5.90	Oct. 1	4.75	Jan. 29, 1952	6.33	Aug. 30	3.59
26	5.10	29	4.94	Feb. 29	6.34		

A-1-4-15dd3. U. S. Geol. Survey. Jetted unused water-table well in terrace deposits, diameter ¾ inch, depth 26 feet, screen at 25-26. Land-surface datum is 4,957.9 feet above msl. Highest water level 3.72 below lsd, July 30, 1951; lowest 6.00 below lsd, Jan. 28, 1952. Records available: 1951-52.

Mar. 30, 1951	5.63	July 30, 1951	3.72	Nov. 27, 1951	5.21	Mar. 27, 1952	5.86
Apr. 28	5.55	Aug. 27	4.34	Dec. 26	5.56	May 12	4.99
June 4	5.24	Sept. 28	4.34	Jan. 28, 1952	6.00	Aug. 29	3.77
26	4.26	Oct. 26	4.91	Feb. 28	5.69		

A-1-4-29bd2. City of Riverton. Drilled unused artesian well in sandstone of Wind River formation, diameter 12 inches, depth 578 feet, cased to 578. Land-surface datum is 5,184.6 feet above msl. Highest water level 170.50 below lsd, Mar. 27, 1950; lowest 203.97 below lsd, Oct. 28, 1949. Records available: 1949-52. May 13, 184.70; July 6, 187.23; Aug. 2, 189.20; Aug. 30, 190.77; Sept. 27, 190.91.

A-2-4-17da. U. S. Bureau of Reclamation. Drilled unused water-table well in alluvium, diameter 3 inches, depth 8 feet, perforations 0-8. Land-surface datum is 5,262.0 feet above msl. Highest water level 1.97 below lsd, Aug. 27, 1951; lowest 5.18 below lsd, Feb. 29, 1952. Records available: 1951-52.

Mar. 30, 1951	3.37	July 30, 1951	3.00	Nov. 28, 1951	4.57	Apr. 27, 1952	4.96
Apr. 28	3.91	Aug. 27	1.97	Dec. 26	4.88	May 13	3.85
June 1	3.40	Sept. 28	3.84	Jan. 28, 1952	4.12	Aug. 29	3.11
26	2.52	Oct. 26	4.05	Feb. 29	5.18		

A-2-5-5aa3. U. S. Bureau of Reclamation. Drilled unused water-table well in alluvium, diameter 3 inches, depth 29 feet, perforations 0-28. Land-surface datum is 4,916.0 feet above msl. Highest water level 2.22 below lsd, Sept. 28, 1951; lowest 8.88 below lsd, Aug. 29, 1952. Records available: 1951-52.

Mar. 30, 1951	5.48	July 30, 1951	3.77	Nov. 27, 1951	3.28	Mar. 27, 1952	5.45
Apr. 28	5.72	Aug. 27	2.74	Dec. 26	4.22	May 13	5.58
June 1	5.76	Sept. 28	2.22	Jan. 28, 1952	4.82	Aug. 29	8.88
26	4.64	Oct. 26	2.84	Feb. 28	4.87		

A-2-5-28ca. U. S. Geol. Survey. Jetted unused water-table well in terrace deposits, diameter ¾ inch, depth 18 feet, screen at 17-18. Land-surface datum is 4,860.1 feet above msl. Highest water level 1.79 below lsd, Aug. 29, 1952; lowest 13.98 below lsd, Apr. 28, 1951. Records available: 1951-52.

Mar. 30, 1951	13.12	July 30, 1951	4.85	Nov. 27, 1951	8.83	Mar. 27, 1952	13.88
Apr. 28	13.98	Aug. 27	2.34	Dec. 26	10.23	May 12	12.28
June 4	12.02	Sept. 28	4.83	Jan. 28, 1952	11.66	Aug. 29	1.79
26	8.68	Oct. 26	7.22	Feb. 28	11.94		

A-2-6-18da. U. S. Geol. Survey. Jetted unused water-table well in terrace deposits, diameter $\frac{3}{4}$ inch, depth 22 feet, screen at 21-22. Land-surface datum is 4,814.6 feet above msl. Highest water level 6.61 below lsd, Aug. 27, 1951; lowest 15.74 below lsd, Apr. 28, 1951. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 30, 1951	14.11	July 30, 1951	7.97	Nov. 27, 1951	10.53	Mar. 27, 1952	13.74
Apr. 28	15.74	Aug. 27	6.61	Dec. 26	10.66	May 12	14.39
June 4	15.24	Sept. 28	7.14	Jan. 28, 1952	11.91	Aug. 29	6.64
26	10.37	Oct. 26	8.61	Feb. 28	12.76		

B-3-1-15dc. T. P. Haslin. Dug unused water-table well in alluvium, diameter 36 inches, depth 17 feet, cased to 17. Land-surface datum is 5,490.29 feet above msl. Highest water level 5.76 below lsd, July 31, 1951; lowest 15.48 below lsd, Feb. 28, 1952. Records available: 1949-52.

Dec. 28, 1949	13.13	Aug. 15, 1950	7.17	Apr. 28, 1951	13.89	Nov. 28, 1951	11.65
Jan. 27, 1950	13.79	28	8.45	June 1	13.74	Dec. 27	12.56
Feb. 28	14.14	Sept. 25	6.22	26	7.70	Jan. 29, 1952	12.23
Mar. 27	14.32	Oct. 30	9.98	July 31	5.76	Feb. 28	15.48
Apr. 26	14.62	Dec. 6	11.98	Aug. 29	7.98	Mar. 28	14.10
May 29	13.60	Jan. 3, 1951	12.74	Oct. 1	8.11	May 13	14.24
July 6	8.42	Feb. 2	13.33	29	10.35	Aug. 29	12.57

A-3-2-20cd. Joe Eiseman. Drilled unused water-table well in alluvium, diameter 8 inches, depth 48 feet. Land-surface datum is 5,348.8 feet above msl. Highest water level 16.49 below lsd, Aug. 26, 1949; lowest 26.31 below lsd, Apr. 30, 1950. Records available: 1948-52.

July 16, 1948	19.67	Aug. 1, 1949	17.69	July 31, 1950	18.40	July 30, 1951	18.10
Aug. 8	16.86	26	16.49	Aug. 31	17.67	Aug. 31	17.44
Sept. 23	16.73	Sept. 23	17.25	Sept. 30	18.49	Oct. 2	17.42
Nov. 10	20.86	Oct. 24	20.24	Oct. 31	21.20	31	20.75
Dec. 3	21.91	Nov. 30	24.37	Nov. 30	22.41	Nov. 30	22.24
Jan. 12, 1949	24.17	Dec. 31	25.84	Dec. 31	23.57	Dec. 31	23.54
Feb. 9	25.07	Jan. 31, 1950	24.71	Jan. 30, 1951	24.85	Jan. 4, 1952	23.94
Mar. 8	25.46	Feb. 28	25.58	Feb. 28	25.55	Feb. 29	25.14
Apr. 6	26.00	Mar. 31	26.03	Mar. 31	26.03	Mar. 28	25.77
26	26.22	Apr. 30	26.31	Apr. 30	25.85	May 13	25.73
June 2	25.41	May 31	25.07	May 31	25.65	Aug. 29	16.83
July 5	21.00	June 30	21.91	June 30	22.86		

A-3-3-21ad2. H. W. Roland. Drilled unused artesian well in sandstone of Wind River formation, diameter 6 inches, depth 425 feet, cased to 403. Land-surface datum is 5,272.8 feet above msl. Highest water level 146.29 below lsd, Dec. 1, 1950; lowest 149.87 below lsd, Aug. 3, 1949. Records available: 1948-52.

Dec. 2, 1948	147.21	Oct. 28, 1949	147.24	Aug. 26, 1950	147.47	Sept. 28, 1951	147.11
Feb. 9, 1949	147.25	Nov. 28	147.15	Oct. 26	146.89	Oct. 26	147.27
Mar. 8	147.13	Dec. 30	147.24	Dec. 1	146.29	Nov. 28	147.32
Apr. 5	147.22	Jan. 30, 1950	147.04	26	146.60	Dec. 26	147.56
26	147.45	Mar. 1	147.21	Feb. 2, 1951	147.13	Jan. 29, 1952	147.44
June 1	147.28	30	146.84	Mar. 30	146.88	Feb. 29	147.20
July 5	147.22	May 5	147.05	Apr. 28	147.10	Mar. 28	147.29
Aug. 3	149.87	29	147.19	June 26	147.13	May 13	147.36
26	147.26	July 6	146.80	July 31	147.23	Aug. 29	147.36
Sept. 23	147.33	Aug. 3	147.06	Aug. 27	146.98		

A-3-3-25bb. U. S. Bureau of Reclamation. Drilled unused water-table well in alluvium, diameter 3 inches, depth 28 feet, perforations 0-28. Land-surface datum is 5,150.8 above msl. Highest water level 10.23 below lsd, Sept. 28, 1951; lowest 13.64 below lsd, Nov. 28, 1951. Records available: 1951-52.

Mar. 30, 1951	13.12	July 31, 1951	11.63	Nov. 28, 1951	13.64	Mar. 27, 1952	13.57
Apr. 28	13.42	Aug. 27	11.01	Dec. 26	12.98	May 13	13.53
June 1	12.51	Sept. 28	10.23	Jan. 29, 1952	13.16	Aug. 29	11.81
25	11.97	Oct. 26	11.82	Feb. 29	13.04		

A-4-2-35cc. U. S. Bureau of Reclamation. Drilled unused water-table well in alluvium, diameter 3 inches, depth 20 feet, perforations 0-20. Land-surface datum is 5,393.7 feet above msl. Highest water level 5.95 below lsd, Oct. 1, 1951; lowest 13.20 below lsd, Apr. 28, 1951. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 30, 1951	12.00	July 30, 1951	7.22	Nov. 28, 1951	6.99	Mar. 28, 1952	9.27
Apr. 28	13.20	Aug. 28	6.51	Dec. 27	7.57	May 13	7.93
June 1	12.86	Oct. 1	5.95	Jan. 29, 1952	7.89	Aug. 29	7.44
25	9.71	29	6.44	Feb. 28	8.69		

A-4-3-11ab. U. S. Bureau of Indian Affairs. Drilled unused artesian well in sandstone of Wind River formation, diameter 5 inches, depth 102 feet. Highest water level 59.43 below lsd, Sept. 28, 1951; lowest 73.23 below lsd, June 26, 1951. Records available: 1947-52.

Sept. 30, 1947	71.30	Aug. 25, 1949	70.83	Aug. 3, 1950	72.91	Aug. 27, 1951	65.03
Aug. 18, 1948	71.22	Sept. 22	70.78	Sept. 1	73.14	Sept. 28	59.43
Sept. 23	71.21	Nov. 2	71.62	27	72.94	Oct. 26	59.68
Oct. 19	70.76	30	71.66	Oct. 26	71.98	Nov. 27	61.68
Dec. 1	70.82	Dec. 27	71.84	Nov. 30	72.81	Dec. 27	63.38
Mar. 7, 1949	71.32	Jan. 30, 1950	71.94	Dec. 26	73.04	Jan. 28, 1952	64.95
Apr. 5	71.23	Mar. 4	72.09	Jan. 31, 1951	73.14	Feb. 28	65.60
25	71.20	30	72.30	Mar. 30	73.04	Mar. 27	63.45
May 27	71.30	May 5	72.54	Apr. 28	73.04	May 13	66.43
July 1	71.17	31	72.72	June 26	73.23	Aug. 30	60.65
29	70.47	July 1	72.80	July 30	70.71		

A-4-3-18cb. U. S. Bureau of Reclamation. Drilled unused water-table well in alluvium, diameter 3 inches, depth 27 feet, perforations 0-27. Land-surface datum is 5,340.0 feet above msl. Highest water level 4.47 below lsd, Aug. 27, 1951; lowest 22.16 below lsd, Nov. 27, 1951. Records available: 1951-52.

July 30, 1951	7.82	Oct. 26, 1951	18.84	Jan. 28, 1952	20.96	May 13, 1952	21.85
Aug. 27	4.47	Nov. 27	22.16	Feb. 28	20.70	Aug. 30	7.65
Sept. 28	5.88	Dec. 27	22.12	Mar. 27	21.04		

A-4-5-18dc. U. S. Bureau of Indian Affairs. Drilled unused artesian well in sandstone of Wind River formation, diameter 5 inches, depth 168 feet. Land-surface datum is 4,935.8 feet above msl. Highest water level 69.68 below lsd, Dec. 1, 1948; lowest 78.88 below lsd, Aug. 30, 1952. Records available: 1947-52.

Oct. 1, 1947	75.07	July 29, 1949	73.79	July 1, 1950	76.49	July 30, 1951	78.14
July 19, 1948	71.30	Aug. 25	75.11	Aug. 3	76.50	Aug. 27	78.19
Aug. 18	70.66	Sept. 23	75.18	Sept. 1	76.70	Sept. 28	78.28
Sept. 23	71.17	Nov. 1	75.86	26	76.70	Oct. 26	78.30
Oct. 19	71.06	30	75.84	Oct. 26	77.13	Nov. 27	78.45
Dec. 1	69.68	Jan. 4, 1950	76.72	Nov. 30	77.32	Dec. 27	78.48
Jan. 12, 1949	70.07	30	75.74	Dec. 26	77.48	Jan. 28, 1952	78.56
Mar. 7	70.88	Feb. 24	75.44	Jan. 31, 1951	77.19	Feb. 28	78.61
Apr. 5	71.15	Mar. 30	75.59	Mar. 30	77.76	Mar. 27	78.62
May 27	71.43	May 5	75.90	Apr. 28	77.78	May 12	78.70
July 1	73.40	31	75.99	June 26	77.90	Aug. 30	78.88

Goshen County

19-61-2ccd. City of LaGrange. Drilled unused water-table well in sand and gravel of alluvium, diameter 4 inches, depth 30 feet. Land-surface datum is 4,577.2 feet above msl. Highest water level 13.77 below lsd, Apr. 1, 1949; lowest 19.90 below lsd, Mar. 23, 1951. Records available: 1943, 1949-52. Jan. 30, 17.02; Mar. 28, 19.57; May 17, 17.23; Sept. 25, 17.98.

19-61-4cdd. Hugh Stemler. Drilled irrigation water-table well in alluvium, diameter 4 feet, depth 33 feet, cased to 33. Land-surface datum is 4,557.3 feet above msl. Highest water level 4.07 below lsd, June 4, 1949; lowest 9.03 below lsd, Mar. 23, 1951. Records available: 1943, 1948-52. Jan. 30, 7.78; Mar. 28, 8.19; May 17, 7.91.

19-62-2add. Edward Krohn. Drilled unused water-table well in siltstone of Brule formation, diameter 4 inches, depth 92 feet. Land-surface datum is 4,683.6 feet above msl. Highest water level 57.23 below lsd, Mar. 28, 1952; lowest 58.58 below lsd, May 3, 1943. Records available: 1943, 1949-52. Jan. 30, 57.40; Mar. 28, 57.23; May 17, 58.45: Sept. 25, 57.56.

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19-62-26dba. F. E. Jones. Drilled stock water-table well in siltstone of Brule formation, diameter 5 inches, depth 42 feet. Highest water level 22.54 below lsd, Apr. 1, 1949; lowest 28.61 below lsd, Jan. 30, 1952. Records available: 1948-52. Jan. 30, 28.61; Mar. 28, 28.09; Sept. 25, 27.96.

20-61-27ddc. Curtis Templin. Drilled unused water-table well in gravel of alluvium, diameter 6 inches, depth 86 feet. Land-surface datum is 4,527.9 feet above msl. Highest water level 28.57 below lsd, July 27, 1943; lowest 31.36 below lsd, Apr. 1, 1949. Records available: 1943, 1949-52. Jan. 30, 30.15; Mar. 28, 30.50; May 17, 30.29; Sept. 25, 30.57.

24-60-19bad. Frank Graham. Drilled irrigation water-table well in alluvium, diameter 18 inches, depth 32 feet. Land-surface datum is 4,071.2 feet above msl. Highest water level 10.19 below lsd, July 21, 1950; lowest 14.82 below lsd, Feb. 20, 1951. Records available: 1948-52. Jan. 28, 14.10; Mar. 31, 14.34; May 19, 12.88; Sept. 22, 10.39.

24-60-27cdd. Edgar Ginter. Drilled domestic and stock water-table well in sandstone of Chadron formation, diameter 6 inches, depth 73 feet, cased to 35. Land-surface datum is 4,185.1 feet above msl. Highest water level 7.90 below lsd, Sept. 22, 1952; lowest 22.59 below lsd, Mar. 23, 1951. Records available: 1948-52. Jan. 28, 18.80; Mar. 31, 21.02; May 19, 21.90; Sept. 22, 7.90.

24-61-5cbb. University of Wyoming. Drilled irrigation water-table well in sand and gravel of alluvium, diameter 18 inches, depth 93 feet. Land-surface datum is 4,124.4 feet above msl. Highest water level 18.23 below lsd, Sept. 26, 1952; lowest 24.32 below lsd, Apr. 17, 1951. Records available: 1948-52. Jan. 29, 23.17; Mar. 28, 23.59; May 20, 22.25; Sept. 26, 18.23.

24-61-10cdc. St. Joseph's Orphanage. Dug irrigation water-table well in sand and gravel of alluvium, diameter 7 feet, depth 36 feet, cribbed with concrete. Land-surface datum is 4,098.1 feet above msl. Highest water level 18.45 below lsd, Sept. 25, 1952; lowest 20.93 below lsd, Apr. 17, 1951. Records available: 1948-52. Jan. 29, 20.55; Mar. 28, 20.55; May 20, 19.69; Sept. 25, 18.45.

24-61-15cdb. Yellowstone Potato Co. Drilled industrial water-table well in sand and gravel of alluvium, diameter 18 to 14 inches, depth 38 feet. Land-surface datum is 4,083.7 feet above msl. Highest water level 8.18 below lsd, Oct. 17, 1951; lowest 14.60 below lsd, Nov. 29, 1950. Records available: 1948-52. Jan. 29, 11.29; Mar. 28, 11.08; May 20, 9.77; Sept. 25, 9.51.

25-61-28dbc. M. W. Berry. Drilled irrigation water-table well in gravel of terrace deposits, diameter 24 inches, depth 108 feet. Land-surface datum is 4,223.1 feet above msl. Highest water level 37.48 below lsd, Oct. 16, 1951; lowest 49.39 below lsd, May 5, 1943. Records available: 1943, 1948-52. Jan. 30, 43.58; Mar. 31, 46.88; May 20, 48.03.

25-62-19aac. Lester C. Stroud. Drilled irrigation water-table well in gravel of alluvium, diameter 18 inches, depth 83 feet, cased to 83. Land-surface datum is 4,172.4 feet above msl. Highest water level 18.07 below lsd, Sept. 26, 1952; lowest 25.48 below lsd, May 22, 1951. Records available: 1948-52. Jan. 29, 23.72; Mar. 28, 25.18; May 20, 24.65; Sept. 26, 18.07.

25-62-36cad. W. W. Weckwerth. Driven irrigation water-table well in sand and gravel of alluvium, diameter $1\frac{1}{2}$ inches, depth 10 feet. Land-surface datum is 4,116.3 feet above msl. Highest water level 2.77 below lsd, Sept. 26, 1952; lowest 7.74 below lsd, Apr. 17, 1951. Records available: 1948-52. Jan. 29, 6.69; Mar. 28, 7.01; Sept. 26, 2.77.

25-63-9ccb. Emery Bright. Drilled irrigation water-table well in alluvium, diameter 24 inches, depth 61 feet. Land-surface datum is 4,196.8 feet above msl. Highest water level 16.34 below lsd, Sept. 26, 1952; lowest 23.82 below lsd, May 30, 1950. Records available: 1943, 1948-52. Jan. 29, 22.89; Mar. 28, 23.47; May 20, 21.70; Sept. 26, 16.34.

25-63-22aab. Greenwald Estate. Drilled irrigation water-table well in sand and gravel of alluvium, diameter 18 inches, depth 60 feet. Land-surface datum is 4,177.2 feet above msl. Highest water level 13.96 below lsd, Sept. 26, 1952; lowest 20.65 below lsd, Apr. 17, 1951. Records available: 1948-52. Jan. 29, 19.75; Mar. 28, 20.23; May 20, 19.15; Sept. 26, 13.96.

26-62-14bba. Arthur Damrow. Drilled irrigation water-table well in gravel of alluvium, diameter 18 inches, depth 62 feet, cased to 62. Highest water level 12.09 below lsd, Sept. 26, 1952; lowest 13.63 below lsd, Dec. 8, 1948. Records available: 1948-52. Jan. 29, 12.17; Mar. 28, 12.15; May 20, 12.10; Sept. 26, 12.09.

26-63-32dac. Joseph Spikner. Drilled irrigation water-table well in gravel of alluvium, diameter 18 inches, depth 80 feet, cased to 80. Land-surface datum is 4,204.6 feet above msl. Highest water level 17.97 below lsd, Sept. 26, 1952; lowest 24.64 below lsd, Apr. 17, 1951. Records available: 1948-52. Jan. 29, 23.69; Mar. 28, 24.47; May 20, 22.39; Sept. 26, 17.97.

26-64-8cdb. W. H. McDonald. Dug and drilled irrigation water-table well in sand and gravel of alluvium, diameter 24 inches, depth 45 feet, cribbed with galvanized iron. Highest water level 17.48 below lsd, Aug. 30, 1949; lowest 26.40 below lsd, Mar. 22, 1951. Records available: 1948-52. Jan. 29, 26.35; Mar. 28, 26.38; May 20, 20.67.

26-64-28bbb. National Park Service. Drilled domestic water-table well in gravel of alluvium, diameter 18 inches, depth 29 feet, cased to 29. Highest water level 13.99 below lsd, June 21, 1952; lowest 17.10 below lsd, Nov. 29, 1949. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	16.77	Apr. 19	15.69	July 22	14.94	Oct. 21	15.20
Feb. 21	16.78	May 20	15.24	Aug. 20	15.64	Nov. 20	16.06
Mar. 20	16.72	June 21	13.99	Sept. 19	14.49	Dec. 20	16.30

26-64-29ada. National Park Service. Dug observation water-table well in sand and gravel of alluvium, diameter 36 inches, depth 43 feet, cribbed with rock. Highest water level 16.12 below lsd, July 10, 1947; lowest 18.86 below lsd, Jan. 22, 1952. Records available: 1942-43, 1946-52.

Jan. 22	18.86	Apr. 19	17.37	July 22	17.69	Oct. 21	17.65
Feb. 21	17.48	May 20	17.24	Aug. 20	17.99	Nov. 20	17.89
Mar. 20	17.54	June 21	16.63	Sept. 19	17.86	Dec. 20	18.40

26-65-11baa. U. S. Bureau of Reclamation. Drilled domestic water-table well in gravel of alluvium, diameter 6 inches, depth 28 feet. Land-surface datum is 4,270.8 feet above msl. Highest water level 12.19 below lsd, July 21, 1950; lowest 20.17 below lsd, Jan. 29, 1952. Records available: 1948-52. Jan. 29, 20.17; Mar. 28, 18.43; May 20, 15.00; Sept. 26, 14.46.

Hot Springs County

43-96-7ccc. U. S. Geol. Survey. Jetted unused water-table well in terrace deposits, diameter $\frac{3}{4}$ inch, depth 12 feet, screen 11-12. Land-surface datum is 4,921.9 feet above msl. Highest water level 2.44 below lsd, June 29, 1951; lowest 7.07 below lsd, May 31, 1951. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 26, 1951	6.78	Sept. 4, 1951	6.09	Jan. 3, 1952	6.26	Apr. 4, 1952	6.39
May 31	7.07	Nov. 5	5.55	30	6.67	May 6	5.35
June 29	2.44	Dec. 12	5.60	Feb. 29	6.60	July 1	3.95
July 30	3.69						

43-96-14bda. Leonard Thorton. Drilled unused artesian well, diameter 6 inches, depth 44 feet. Land-surface datum is 4,698.6 feet above msl. Highest water level 15.53 below lsd, July 30, 1947; lowest 28.65 below lsd, Mar. 29, 1950. Records available: 1946-52. Jan. 3, 25.35; Jan. 30, 25.86; Feb. 29, 26.40; Apr. 4, 26.74; May 6, 25.42; July 1, 19.17.

A-8-4-10dcc. U. S. Geol. Survey. Jetted unused water-table well in alluvium, diameter $\frac{3}{4}$ inch, depth 15 feet, screen 14-15. Land-surface datum is 4,780.2 feet above msl. Highest water level 9.23 below lsd, May 31, 1951; lowest 10.28 below lsd, Apr. 26, 1951. Records available: 1951-52.

Apr. 26, 1951	10.28	Sept. 4, 1951	9.60	Jan. 3, 1952	10.09	Apr. 4, 1952	9.92
May 31	9.23	Nov. 8	9.89	30	10.07	May 6	9.65
June 29	9.55	Dec. 12	9.93	Feb. 29	10.09	July 1	9.30
July 30	9.23						

A-9-1-36ccc. D. B. Whetstone. Drilled unused water-table well in alluvium, diameter 28 inches, depth 21 feet, cased to 21. Land-surface datum is 5,764.6 feet above msl. Highest water level 6.30 below lsd, May 13, 1947; lowest 8.24 below lsd, Mar. 12, 1947. Records available: 1946-52. Jan. 3, 7.72; Jan. 30, 7.39; Feb. 29, 7.85; Apr. 4, 7.97; May 6, 6.58; July 1, 6.75.

A-9-2-35aab. U. S. Geol. Survey. Jetted unused water-table well in alluvium, diameter $\frac{3}{4}$ inch, depth 13 feet, screen at 12-13. Land-surface datum is 5,384.2 feet above msl. Highest water level 3.86 below lsd, June 29, 1951; lowest 9.88 below lsd, Apr. 4, 1952. Records available: 1951-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 26, 1951	9.61	Sept. 4, 1951	6.72	Jan. 3, 1952	9.39	Apr. 4, 1952	9.88
May 31	6.38	Oct. 1	8.44	30	9.45	May 6	7.48
June 29	3.86	Nov. 5	9.04	Feb. 29	9.71	July 1	5.81
July 30	6.99	Dec. 12	9.30				

Laramie County

12-61-3abb. H. E. Anderson. Drilled irrigation water-table well in gravel of terrace deposits, diameter 24 inches, depth 110 feet, cased to 110. Highest water level 31.08 below lsd, Dec. 4, 1950; lowest 34.99 below lsd, Apr. 8, 1945. Records available: 1945-52. Apr. 1, 31.80; Sept. 8, 34.52.

12-63-3baa. Roy L. Gasurant. Dug unused water-table well in siltstone of Brule formation, diameter 8 feet, depth 49 feet, cribbed partly with wood. Land-surface datum is 5,411.6 feet above msl. Highest water level 40.31 below lsd, May 31, 1950; lowest 47.92 below lsd, Aug. 28, 1942. Records available: 1942-52. Apr. 1, 43.82; Sept. 8, 43.67.

13-60-31aa. W. T. Young, Jr. Drilled irrigation water-table well in siltstone of Brule formation, diameter 20 inches, depth 100 feet. Land-surface datum is 5,184.8 feet above msl. Highest water level 35.56 below lsd, May 21, 1942; lowest 43.62 below lsd, Aug. 2, 1949. Records available: 1940-52. Apr. 1, 36.32; Sept. 8, 41.20.

13-68-3bba. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 10 to 8 inches, depth 187 feet, cased to 181. Land-surface datum is 6,555.48 feet above msl. Highest water level 77.59 below lsd, June 27, 1945; lowest 82.92 below lsd, Oct. 30, 1951. Records available: 1944-52. Jan. 31, 82.37; Mar. 31, 82.91; May 28, 83.30; Sept. 1, 91.54; Sept. 23, 92.78; Dec. 4, 92.90; Dec. 31, 91.26.

13-68-4aad. City of Cheyenne. Drilled unused water-table well in sand and gravel of Ogallala formation, diameter 10 to 8 inches, depth 202 feet, cased to 202. Land-surface datum is 6,596.1 feet above msl. Highest water level 71.79 below lsd, May 29, 1944; lowest 90.90 below lsd; Sept. 23, 1952. Records available: 1944-52. Mar. 31, 77.94; May 28, 78.17; July 28, 82.05; Sept. 1, 89.30; Sept. 23, 90.90; Dec. 4, 87.99; Dec. 31, 88.96.

13-68-4acd. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 10 to 8 inches, depth 255 feet, cased to 248. Land-surface datum is 6,596.00 feet above msl. Highest water level 98.23 below lsd, Mar. 23, 1945; lowest 112.71 below lsd, Dec. 9, 1952. Records available: 1944-52. Jan. 31, 101.79; Mar. 31, 102.85; May 28, 103.11; Dec. 9, 112.71.

13-68-4cbd. City of Cheyenne. Drilled municipal water-table well in gravel of Ogallala formation, diameter 12 inches, depth 230 feet. Land-surface datum is 6,673.81 feet above msl. Highest water level 169.28 below lsd, Feb. 26, 1946; lowest 177.45 below lsd, Dec. 9, 1952. Records available: 1945-48, 1950-52. Jan. 31, 174.68; Mar. 31, 174.91; May 28, 175.11; Dec. 9, 177.45.

13-68-4dcc. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 10 to 8 inches, depth 200 feet, cased to 184. Land-surface datum is 6,623.8 feet above msl. Highest water level 117.70 below lsd, Mar. 23, 1945; lowest 130.81 below lsd, Dec. 9, 1952. Records available: 1944-48, 1950-52. Jan. 31, 122.55; Mar. 31, 122.76; May 28, 123.05; Sept. 23, 129.31; Dec. 9, 130.81.

13-68-14cbd. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 10 inches, depth 210 feet. Land-surface datum is 6,560.80 feet above msl. Highest water level 41.89 below lsd, Sept. 17, 1945; lowest 58.68 below lsd, Aug. 1, 1945. Records available: 1945-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	47.38	May 28	48.30	Sept. 3	49.45	Dec. 4	48.85
Mar. 31	47.52	July 29	49.15	23	49.58	31	49.60

13-68-16dbd. City of Cheyenne. Drilled observation water-table well in gravel of Ogallala formation, diameter 10 to 8 inches, depth 300 feet. Highest water level 104.16 below lsd, Nov. 30, 1949; lowest 113.91 below lsd, Dec. 31, 1952. Records available: 1949-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 31	110.57	May 5	110.97	July 29	112.04	Nov. 13	112.16
Mar. 5	110.78	28	111.80	Sept. 3	112.21	Dec. 4	112.74
31	110.88	July 1	111.86	23	112.32	31	113.91

14-60-5bcc. C. C. Gross. Drilled irrigation water-table well in siltstone of Brule formation, diameter 20 inches, depth 100 feet. Highest water level 27.93 below lsd, Mar. 5, 1946; lowest 36.44 below lsd, Sept. 4, 1950. Records available: 1943-52. Apr. 1, 31.14; Sept. 8, 36.14.

14-60-11bcc1. M. L. Larson. Drilled irrigation water-table well in sand and gravel of alluvium, diameter 24 inches, reported depth 60 feet, cased to 60. Highest water level 8.47 below lsd, Oct. 29, 1945; lowest 26.65 below lsd, May 31, 1950. Records available: 1943-52. Apr. 1, 16.14; Sept. 8, 18.97.

14-62-24ad. Union Pacific Railroad Co. Dug industrial water-table well in siltstone of Brule formation, diameter 16 feet, depth 36 feet, cribbed with rock to 36. Land-surface datum is 5,285.2 feet above msl. Highest water level 27.80 below lsd, July 20, 1942; lowest 32.34 below lsd, Oct. 9, 1950. Records available: 1940-52. Apr. 1, 30.66; Sept. 8, 30.92.

14-66-31bdd. City of Cheyenne. Drilled observation water-table well in sand and gravel of Ogallala formation, diameter 12 inches, depth 258 feet. Land-surface datum is 6,089 feet above msl. Highest water level 9.43 below lsd, July 2, 1950; lowest 13.76 below lsd, Nov. 27, 1943. Records available: 1942-45, 1950-52.

Jan. 31	11.95	Apr. 28	11.80	Aug. 7	10.11	Oct. 27	11.30
Feb. 28	12.05	May 28	11.00	Sept. 3	10.75	Dec. 31	12.14
Mar. 31	11.95	June 30	10.20	29	10.70		

14-68-14cb. City of Cheyenne. Drilled observation water-table well in sand and gravel of alluvium, diameter 12 inches, depth 188 feet. Land-surface datum is 6,300 feet above msl. Highest water level 7.09 below lsd, Feb. 26, 1944; lowest 10.24 below lsd, July 28, 1951. Records available: 1941-48, 1950-52.

Jan. 31	8.79	May 28	8.58	Sept. 1	9.39	Nov. 10	9.35
Mar. 31	8.91	July 1	9.31	23	9.46	Dec. 31	9.26
May 5	9.04	28	9.42				

14-68-23ddc. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 10 inches, depth 248 feet. Land-surface datum is 6,389.2 feet above msl. Highest water level 23.63 below lsd, Sept. 4, 1941; lowest 69.08 below lsd, June 3, 1951. Records available: 1940-47, 1949-52. Jan. 31, 65.14; July 28, 63.04; Sept. 1, 66.87; Sept. 23, 64.40; Dec. 4, 65.89.

14-68-25dda. City of Cheyenne. Drilled municipal water-table well in gravel of Ogallala formation, diameter 12 inches, depth 368 feet. Land-surface datum is 6,376.4 feet above msl. Highest water level 32.10 below lsd, Jan. 28, 1946; lowest 53.58 below lsd, Sept. 1, 1952. Records available: 1941-52. July 28, 38.90; Sept. 1, 53.58; Sept. 23, 46.41; Dec. 4, 52.85; Dec. 31, 40.50.

14-68-26cbc1. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 10 inches, depth 220 feet. Land-surface datum is 6,438.0 feet above msl. Highest water level 10.58 below lsd, Nov. 11, 1940; lowest 41.70 below lsd, Dec. 4, 1952. Records available: 1940-52. Jan. 31, 33.20; Mar. 31, 37.76; July 28, 39.95; Sept. 1, 40.89; Sept. 23, 40.90; Dec. 4, 41.70; Dec. 31, 40.79.

14-68-27dcc. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 10 inches, depth 250 feet. Land-surface datum is 6,482.9 feet above msl. Highest water level 9.81 below lsd, Nov. 11, 1940; lowest 64.66 below lsd, Oct. 3, 1951. Records available: 1940, 1942-52. Jan. 31, 53.80; Dec. 9, 61.38; Dec. 31, 58.59.

14-68-33abc. City of Cheyenne. Drilled municipal water-table well in gravel of Ogallala formation, diameter 10 inches, depth 230 feet. Land-surface datum is 6,569.8 feet above msl. Highest water level 120.16 below lsd, Feb. 11, 1950; lowest 134.67 below lsd, Oct. 3, 1951. Records available: 1947-52.

Jan. 31	126.58	May 28	129.74	Sept. 1	131.59	Dec. 4	134.37
Mar. 31	127.98	July 28	129.52	23	132.23	31	133.93

14-68-33dcc. City of Cheyenne. Drilled municipal water-table well in gravel of Ogallala formation, diameter 10 inches, depth 225 feet. Land-surface datum is 6,634.00 feet above msl. Highest water level 139.34 below lsd, Apr. 28, 1947; lowest 157.18 below lsd, Oct. 26, 1948. Records available: 1945-48, 1950-52. Jan. 31, 144.14; Mar. 31, 144.32; May 28, 144.49; Dec. 4, 155.03.

14-68-34aab. City of Cheyenne. Drilled municipal water-table well in gravel of Ogallala formation, diameter 10 inches, depth 233 feet. Land-surface datum is 6,469.1 feet above msl. Highest water level 19.79 below lsd, Nov. 14, 1940; lowest 56.40 below lsd, Oct. 3, 1951. Records available: 1940, 1942-52. Jan. 31, 38.02; Dec. 9, 51.84; Dec. 31, 47.21.

14-68-34ddd. City of Cheyenne. Drilled municipal water-table well in gravel of Ogallala formation, diameter 10 inches, depth 230 feet, cased to 224. Land-surface datum is 6,542.0 feet above msl. Highest water level 84.64 below lsd, Apr. 1, 1950; lowest 104.47 below lsd, Dec. 4, 1952. Records available: 1944-48, 1950-52. Jan. 31, 89.66; Mar. 31, 92.10; May 28, 93.16; July 28, 101.54; Dec. 4, 104.47; Dec. 31, 97.85.

14-68-35cac. City of Cheyenne. Drilled municipal water-table well in gravel of Ogallala formation, diameter 12 inches, depth 235 feet. Land-surface datum is 6,516.8 feet above msl. Highest water level 74.18 below lsd, Sept. 24, 1945; lowest 95.82 below lsd, Sept. 1, 1952. Records available: 1945-52. Jan. 31, 78.78; Mar. 31, 83.26; May 28, 85.20; Sept. 1, 95.82; Dec. 4, 91.73; Dec. 31, 86.06.

14-68-36acc. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 10 inches, depth 188 feet, cased to 188. Land-surface datum is 6,409.1 feet above msl. Highest water level 17.54 below lsd, Oct. 16, 1941; lowest 43.59 below lsd, Sept. 23, 1952. Records available: 1941-52. Jan. 31, 33.40; Mar. 31, 39.92; July 28, 38.33; Aug. 29, 42.50; Sept. 23, 43.59; Dec. 4, 38.03; Dec. 31, 36.04.

14-68-36adb. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 12 inches, depth 152 feet. Land-surface datum is 6,365.5 feet above msl. Highest water level 8.58 below lsd, May 20, 1942; lowest 33.86 below lsd, Feb. 16, 1951. Records available: 1941-52. Jan. 31, 25.74; Mar. 31, 29.87; July 28, 33.41; Dec. 4, 32.69; Dec. 31, 32.14.

14-68-36bca. City of Cheyenne. Drilled municipal water-table well in sand and gravel of Ogallala formation, diameter 12 inches, depth 214 feet, cased to 193. Land-surface datum is 6,428.0 feet above msl. Highest water level 10.86 below lsd, June 10, 1941; lowest 62.04 below lsd, Aug. 29, 1952. Records available: 1941-52. Jan. 31, 32.09; Mar. 31, 40.31; Aug. 29, 62.04; Dec. 4, 40.46; Dec. 31, 37.63.

18-67-28cac. Ernest Nimmo. Dug domestic water-table well in gravel of alluvium, diameter 6 feet, depth 50 feet, cribbed with rock. Highest water level 4.69 below lsd, Apr. 4, 1952; lowest 11.41 below lsd, Mar. 27, 1950. Records available: 1949-52. Apr. 4, 4.69; Sept. 25, 9.94.

Natrona County

29-86-19cc. James Grieves (Dumbell Ranch). Drilled stock water-table well in alluvium, diameter 6 inches, depth 20 feet. Highest water level 5.89 below lsd, Sept. 15, 1949; lowest 9.65 below lsd, Jan. 15, 1943. Records available: 1942-43, 1946-52. Jan. 9, 9.14; Feb. 7, 9.27; Mar. 11, 9.37; May 6, 6.96; July 8, 6.59; Oct. 16, 8.21; Nov. 24, 8.89.

29-87-33ca. State of Wyoming. Drilled observation water-table well in alluvium, diameter 2 inches, depth 9 feet, cased to 9. Highest water level 3.00 below lsd, June 21, 1950; lowest 7.32 below lsd, Oct. 13, 1947. Records available: 1942-43, 1946-52. Jan. 9, 6.30; Feb. 7, 6.24; Mar. 11, 6.21; May 6, 5.92; July 8, 4.39; Oct. 16, 6.27; Nov. 24, 6.32.

Platte County

23-68-7bcb. G. H. Rhoades. Dug unused water-table well in gravel of terrace deposits, diameter 4 feet, depth 11 feet, cribbed with wood to 11. Highest water level 2.98 below lsd, July 24, 1950; lowest 6.16 below lsd, June 23, 1952. Records available: 1946-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	3.88	June 23	6.16	Aug. 25	5.03	Oct. 20	4.38
Apr. 4	3.03	July 22	3.92	Sept. 25	5.74	Dec. 3	4.42
May 26	4.59						

23-68-10ddd. School District. Drilled unused water-table well in gravel of terrace deposits, diameter 5 inches, depth 31 feet. Highest water level 11.03 below lsd, July 22, 1952; lowest 19.04 below lsd, Apr. 28, 1949. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	16.82	June 23	13.15	Aug. 25	11.89	Oct. 20	12.90
Apr. 4	17.56	July 22	11.03	Sept. 25	13.35	Dec. 3	15.00
May 26	13.84						

24-68-6abb. Verne Cook. Dug unused water-table well in gravel of terrace deposits, diameter 36 inches, depth 3 feet, cribbed with galvanized steel to 3. Highest water level 0.76 below lsd, July 24, 1951; lowest 5.87 below lsd, May 23, 1950. Records available: 1948-52.

Jan. 24	1.65	May 26	2.95	July 22	1.38	Sept. 25	1.12
Apr. 4	2.59	June 23	2.25	Aug. 25	2.14	Oct. 20	.86

24-68-11cdd. A. F. Bowen. Dug unused water-table well in sand and gravel of terrace deposits, diameter 36 inches, depth 16 feet, cribbed with rock. Highest water level 0.90 below lsd, July 22, 1949; lowest 2.67 below lsd, May 23, 1950. Records available: 1948-52.

Jan. 24	2.16	May 26	2.09	July 22	1.52	Sept. 25	1.56
Apr. 4	2.30	June 23	2.42	Aug. 25	1.30	Oct. 20	1.65

24-68-19dcc. Homer Cochran. Drilled stock water-table well in sand and gravel of terrace deposits, diameter 6 inches, depth 16 feet. Highest water level 1.35 below lsd, July 24, 1950; lowest 12.07 below lsd, May 22, 1951. Records available: 1948-52. Jan. 24, 7.86; Apr. 4, 9.77; June 23, 3.32; Sept. 25, 2.22; Oct. 20, 3.30; Dec. 3, 4.61.

25-67-27ccc. Lester Cobb. Drilled stock water-table well in undivided sediments of Tertiary age, diameter 6 inches, depth 150 feet. Highest water level 77.12 below lsd, Jan. 24, 1952; lowest 90.77 below lsd, Sept. 20, 1951. Records available: 1948-52. Jan. 24, 77.12; Apr. 4, 77.53; June 23, 89.64; July 22, 88.99; Aug. 25, 89.95; Sept. 25, 89.28.

25-67-31ccc. E. T. Hall. Dug and drilled domestic water-table well in gravel of terrace deposits, diameter 36 inches, depth 28 feet, cribbed with concrete. Highest water level 9.70 below lsd, June 23, 1952; lowest 21.00 below lsd, May 22, 1951. Records available: 1948-52.

Jan. 24	17.60	June 23	9.70	Aug. 25	9.96	Oct. 20	10.10
Mar. 13	13.80	July 22	11.80	Sept. 25	11.26	Dec. 3	15.81
May 26	12.60						

25-68-33dcd. Lester Pitts. Dug unused water-table well in terrace deposits, diameter 24 inches, depth 8 feet, cribbed with concrete to 8. Highest water level 0.20 above lsd, Jan, 24, 1950; lowest 1.94 below lsd, Sept. 4, 1948. Records available: 1948-52. Apr. 4, 0.06; May 26, 0.04; June 23, 0.04. Measurement discontinued.

27-68-30acc. M. L. Coleman. Drilled irrigation water-table well in sand and gravel of alluvium, diameter 4 inches, depth 22 feet, cased to 17. Highest water level 6.88 below lsd, July 24, 1951; lowest 10.24 below lsd, Nov. 3, 1948. Records available: 1948-52.

Jan. 24	9.75	June 23	6.22	Aug. 25	9.24	Oct. 20	9.60
Apr. 4	10.10	July 22	7.83	Sept. 25	9.50	Dec. 3	9.73

28-68-27abb. D. W. Brown. Drilled unused water-table well in sandstone of Brule formation, diameter 6 inches, depth 58 feet, cased to 12. Highest water level 22.64 below lsd, Mar. 27, 1951; lowest 31.18 below lsd, Sept. 16, 1949. Records available: 1949-52.

Jan. 24	28.84	June 23	28.53	Aug. 25	29.40	Oct. 20	28.90
Mar. 13	28.17	July 22	28.25	Sept. 25	29.65	Dec. 3	29.25
May 26	27.92						

28-68-27abc. D. W. Brown. Dug domestic and irrigation water-table well in gravel of alluvium, size 4 by 5 feet, depth 12 feet, cribbed with wood and rock. Highest water level 3.05 below lsd, Nov. 16, 1949; lowest 8.76 below lsd, Sept. 16, 1949. Records available: 1949-52.

Jan. 24	3.21	May 26	3.55	July 22	3.77	Oct. 20	3.85
Mar. 13	3.13	June 23	3.72	Aug. 25	4.00	Dec. 3	3.82

29-68-21bbb. Clark Coleman. Drilled stock water-table well in sandstone of Brule formation, diameter 6 inches, depth 94 feet, cased to 45. Highest water level 26.45 below lsd, May 26, 1952; lowest 35.16 below lsd, Nov. 4, 1948. Records available: 1948-52.

Jan. 24	29.57	June 23	28.86	Aug. 25	30.57	Oct. 20	30.45
Mar. 13	29.66	July 22	28.95	Sept. 25	30.97	Dec. 3	30.64
May 26	26.45						

29-68-21dad. Hauf Bros. Drilled domestic water-table well in sand and gravel of alluvium, diameter 6 inches, depth 58 feet, cased to 15. Highest water level 5.94 below lsd, Oct. 27, 1949; lowest 11.89 below lsd, Mar. 28, 1950. Records available: 1948-52.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 24	8.77	June 23	8.77	Aug. 25	9.12	Oct. 20	8.99
Apr. 4	8.71	July 22	8.75	Sept. 25	8.98	Dec. 3	9.11
May 26	6.27						

Sublette County

35-111-8db. Robert Albert. Dug observation water-table well in alluvium, size 10 by 10 feet to 14 feet, 4 by 4 feet to 32 feet, depth 32 feet, cribbed with concrete to 32. Highest water level 20.92 below lsd, July 23, 1952; lowest 29.78 below lsd, May 12, 1945. Records available: 1942-52.

Jan. 23	28.10	Apr. 29	29.07	Sept. 3	23.21	Oct. 17	25.59
Feb. 14	29.67	June 4	26.22	22	24.39	Nov. 21	26.86
Mar. 14	28.67	July 23	20.92				

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