

STATE OF UTAH

WAYNE D. CRIDDLE, State Engineer



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**A COMPILATION OF
CHEMICAL QUALITY DATA FOR
GROUND AND SURFACE WATERS IN UTAH**

By

J. G. CONNOR, C. G. MITCHELL

and Others

U. S. GEOLOGICAL SURVEY

Prepared cooperatively by the

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T. B. NOLAN, Director

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INTRODUCTION

An accelerated use of water resulting from a growing population, industrial expansion, and irrigation has brought into focus the importance of the quality as well as the quantity of this natural resource in Utah. As new demands are made on the existing supply, a search goes on for new sources of ground and surface water. These new sources must not only meet quantity requirements, but also must fall within certain limits of chemical composition — in relation to its proposed use.

The prime purpose of this report is to compile into one volume all of the available information that exists on the quality of ground and surface water in Utah. The various sources of information, named in the preface, have supplied data obtained through their own organizations. Analyses from these sources may be identified by reference to the indicated 2-letter code on the data sheets.

Data compiled herein are basic and no attempt is made to interpret the relationship between the dissolved mineral constituents and source, and water use. The analyses are grouped into two sections, (1) ground-water sources, and (2) surface-water sources.

Ground-water data include the chemical analyses of water samples collected from wells and springs and grouped by counties, together with a county map and pertinent information about each source.

Surface-water data include the chemical analyses of samples collected from rivers, creeks and canals, in the following areas in Utah: (1) The Colorado River Basin, including Upper and Lower Basin drainage, (2) the Great Basin, including Great Salt Lake and Sevier Lake drainage and (3) a small portion of the Snake River Basin in the northwestern part of the state.

Records of surface-water quality at daily, weekly and miscellaneous stations in the Colorado River Basin and Great Basin are published in the U. S. Geological Survey Water Supply Papers, Parts 9 and 10. Analytical results for daily and weekly samples collected in the 1955 water year are tabulated herein. Data for the years prior to 1955 have been summarized by tabulating the maximum, minimum, and average, or weighted average, analyses for each year. For stations discontinued prior to, or started after, the 1955 water year, the latest annual record is shown.

Some of the information contributed by the cooperating agencies has also been published in reports or bulletins issued by those organizations. Publications referred to and from which some of the analyses are reprinted are listed under "Literature Cited" (page 24).

Records of sediment concentrations and loads and water temperatures are collected at several stations in the Colorado River Basin by the U. S. Geological Survey as part of its total quality-of-water program. These records are available at the Quality of Water Branch office at Fort Douglas, Salt Lake City, Utah.

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EXPRESSION OF RESULTS

The dissolved mineral constituents are reported in parts per million. A part per million is a unit weight of a constituent in a million unit weights of water. Equivalents per million are not given in this report although the expression of analyses in equivalents per million is sometimes preferred. An equivalent per million is a unit chemical combining weight of a constituent in a million unit weights of water and is calculated by dividing the concentration in parts per million by the chemical combining weight of the constituent. For convenience in making this conversion the reciprocals of chemical combining weights of the most commonly reported constituents (ions) are given in the following table:

Constituent	Factor	Constituent	Factor
Iron (Fe^{++})	0.0358	Carbonate (CO_3^{--})	0.0333
Iron (Fe^{+++})	.0537	Bicarbonate (HCO_3^-)	.0164
Calcium (Ca^{++})	.0499	Sulfate (SO_4^{--})	.0208
Magnesium (Mg^{++})	.0822	Chloride (Cl^-)	.0282
Sodium (Na^+)	.0435	Fluoride (F^-)	.0526
Potassium (K^+)	.0256	Nitrate (NO_3^-)	.0161

Results given in parts per million can be converted to grains per United States gallon by dividing by 17.12. A calculated quantity of sodium and potassium is given in some analyses and is the quantity of sodium needed in addition to the calcium and magnesium to balance the acid constituents.

The hardness, as calcium carbonate (CaCO_3), is calculated from the equivalents of calcium and magnesium. The hardness caused by calcium and magnesium (and other ions if significant) equivalent to the carbonate and bicarbonate is called carbonate hardness; the hardness in excess of this quantity is called noncarbonate hardness. The "Total Hardness" shown in the tables is calcium, magnesium hardness.

In the analyses of most surface waters used for irrigation, the quantity of dissolved solids is given in tons per acre-foot as well as in parts per million. Percent sodium is computed for those analyses where sodium and potassium are reported separately by dividing the equivalents per million of sodium by the sum of the equivalents per million of calcium, magnesium, sodium, and potassium and multiplying the quotient by 100. In analyses where sodium and potassium are calculated and reported as a combined value, the value reported for percent sodium will include the equivalent quantity of potassium.

The discharge of streams is reported in cubic feet per second (cfs), (see "Stream Flow," page 24). Specific conductance values are expressed in reciprocal ohms times 10^6 (micromhos at 25°C). Hydrogen-ion concentration (pH) is given as the negative logarithm of the number of moles of ionized hydrogen per liter of water.

For most daily surface-water sampling stations, an average of analyses (arithmetical or weighted) is given for the water year. An arithmetical average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the river each day for the water year. A weighted average represents approximately the composition of water passing a given station during the year after thorough mixing in the reservoir. The weighted average of the analyses is computed by multiplying the discharge for the sampling period by the quantities of the individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges.

A COMPILATION OF CHEMICAL QUALITY DATA FOR GROUND AND SURFACE WATERS IN UTAH

By

J. G. CONNOR, C. G. MITCHELL

and Others

U. S. GEOLOGICAL SURVEY

PREFACE

This report was prepared as part of a cooperative, statewide quality-of-water program under the direction of S. K. Love, Chief, Quality of Water Branch of the U. S. Geological Survey, and Wayne D. Criddle, State Engineer of Utah.

Acknowledgment and appreciation are extended to the U. S. Bureau of Reclamation, Region IV, U. S. Department of Agriculture Soil Conservation Service, Utah State University, Utah State Health Department, and the City of Salt Lake for their cooperation in furnishing available data to be included herein. The appreciation of the authors is also extended to personnel of the State Engineer's Office and the U. S. Geological Survey Ground Water and Surface Water Branches, for the assistance provided in obtaining well information and streamflow records included in the ground-water and surface-water sections of this report.

become turbid with the insoluble reddish ferric oxide produced by oxidation. Surface waters, therefore, seldom contain as much as 1 part per million of dissolved iron, although some acid waters carry large quantities of iron in solution. Iron causes reddish-brown stains on white porcelain or enameled ware and fixtures and on fabrics washed in the water.

Calcium (Ca)

Calcium is dissolved from practically all rocks and soils, but the highest concentrations are usually found in waters that have been in contact with limestone, dolomite, and gypsum. Calcium and magnesium make water hard and are largely responsible for the formation of boiler scale. Most waters associated with granite or silicious sands contain less than 10 parts per million of calcium; waters in areas where rocks are composed of dolomite and limestone contain from 30 to 100 parts per million; and waters that have come in contact with deposits of gypsum may contain several hundred parts per million.

Magnesium (Mg)

Magnesium is dissolved from many rocks, particularly from dolomitic rocks. Its effect in water is similar to that of calcium. The magnesium in soft waters may amount to only 1 or 2 parts per million, but water in areas that contain large quantities of dolomite or other magnesium-bearing rocks may contain from 20 to 100 parts per million or more of magnesium.

Sodium and potassium (Na and K)

Sodium and potassium are dissolved from practically all rocks. Sodium is the predominant cation in some of the more highly mineralized waters found in the western United States. Natural waters that contain only 3 or 4 parts per million of the two ions together are likely to carry almost as much potassium as sodium. As the total quantity of these constituents increases, the proportion of sodium becomes much greater. Moderate quantities of sodium and potassium have little effect on the usefulness of the water for most purposes, but waters that carry more than 50 or 100 parts per million of the two may require careful operation of steam boilers to prevent foaming. More highly mineralized waters that contain a large proportion of sodium salts may be unsatisfactory for irrigation.

Sodium is considered much more harmful than potassium in irrigation waters because of its adsorption on clay, which makes the soil tight and impedes drainage. It also causes soil to become alkaline and ties up the nutrients, making them unavailable for plant growth.

Carbonate and bicarbonate (CO_3 and HCO_3)

Bicarbonate occurs in waters largely through the action of carbon dioxide, which enables the water to dissolve carbonates of calcium and magnesium. Carbonate as such is not usually present in appreciable quantities in natural waters. The bicarbonate in waters that come from relatively insoluble rocks may amount to less than 50 parts per million; many waters from limestone contain from 200 to 400 parts per million. Bicarbonate in moderate concentrations in water has no effect on its value for most uses. Bicarbonate or carbonate is an aid in coagulation for the removal of suspended matter from water. Agricultural experiments using irrigation waters containing more than 300 parts per million of bicarbonate have shown some evidence of lime induced chlorosis in several plants.

INFORMATION ABOUT THE ANALYTICAL DATA

SAMPLE COLLECTION AND ANALYSIS

Ground-water samples for chemical analysis are generally collected as near to the source as possible, in glass or plastic containers, and under conditions that would be representative of the source. A sample collected from a continuous flowing well would be considered representative. A sample from a pumped well should be representative if collected after the "standing" water in the well had been removed. This applies particularly to wells that are pumped infrequently. Sample bottles are generally closed with an air-tight cap immediately after the samples are collected and then transported to the laboratory for analysis. Analyses are usually completed within one to six weeks, depending upon laboratory schedules. Storage is maintained in a darkened cabinet or room to avoid algae growth and changes in composition.

Surface-water samples from daily, or weekly, basic record stations are collected at, or near, points on streams where gaging stations are maintained for measurement of water discharge. Most of the analyses for daily stations are made on 10-day composites of consecutive samples collected during the year. Three composite samples are usually prepared each month by mixing together equal volumes of daily samples collected from the 1st to the 10th, from the 11th to the 20th, and during the remainder of the month. For some streams that are subject to sudden and large changes in chemical composition or concentration, samples are composited for shorter periods on the basis of the concentration of dissolved solids indicated by measurements of specific conductance of daily samples. The analyses for weekly sampling stations are usually made on one monthly composite of equal portions of the weekly samples for that period. A large change in concentration for one or more of the weekly samples, as indicated by measurements of specific conductance, requires smaller composites or individual analysis.

Miscellaneous samples are collected at, or near, gaging stations, or at a specific location on a stream. These samples are usually collected near the center of the channel or at several equi-distant points in the cross-section, to insure true representation of the stream. Sampling points immediately below the confluence of two streams, below the vicinity of known mineralized springs, or below suspected inflow of contamination, are avoided, unless specific information at that point is desired.

Samples are analyzed according to reliable methods regularly used in each laboratory. These methods are essentially the same as or are modifications of methods described in recognized authoritative publications for the mineral analysis of water samples. (Am. Public Health Assoc., 1946, Assoc. of Official Agricultural Chemistry, 1940, U. S. Geological Survey Water Resources Division, 1950.)

For those surface waters containing moderately large quantities of soluble salts, the calculated value reported for dissolved solids is the sum of the quantities of the various determined constituents, using the carbonate equivalent of the reported bicarbonate. In other analyses the value reported as dissolved solids is the residue on evaporation after drying at 180°C for 1 hour. Specific conductance is given for most analyses and is determined by means of a conductance bridge using a standard potassium chloride solution as reference.

in arid and semiarid region of the Southwest and West where irrigation is practiced or contemplated, but most of the surface waters analyzed have no harmful concentrations of boron.

Dissolved solids

The reported quantity of dissolved solids — the residue on evaporation or the sum calculated from determined constituents — consists mainly of the dissolved minerals in the water. It may also contain some organic matter and water of crystallization. Waters with less than 500 parts per million of dissolved solids are usually satisfactory for domestic and some industrial uses. Waters containing several thousand parts per million of dissolved solids are sometimes successfully used for irrigation where practices permit the removal of soluble salts through the application of large volumes of water on well-drained lands.

PROPERTIES AND CHARACTERISTICS OF WATER

Specific conductance (micromhos at 25°C)

The specific conductance of a water is a measure of its capacity to conduct a current of electricity. The conductance varies with the concentration and degree of ionization of the different minerals in solution and with the temperature of the water. When considered in conjunction with results of determinations for other constituents, specific conductance is a useful determination and plays an important part in indicating changes in concentration of the total quantity of dissolved minerals in surface and ground waters.

Hydrogen-ion concentration (pH)

The degree of acidity or alkalinity of water, as indicated by the hydrogen-ion activity, expressed as pH, is related to the corrosive properties of water, and is useful in determining the proper treatment for coagulation that may be necessary at water-treatment plants. A pH value of 7.0 indicates that the water is neither acid nor alkaline. Waters having pH values progressively lower than 7.0 denote increasing acidity, whereas values progressively higher than 7.0 denote increasing alkalinity. The pH of most natural surface waters ranges between 6 and 8. Some alkaline surface waters have pH values greater than 8.0, and waters containing free mineral acid usually have pH values less than 4.5.

Hardness

Hardness is the characteristic of water that receives the most attention in industrial and domestic use. It is usually recognized by the increased quantity of soap required to produce lather. The use of hard water is also objectionable because it contributes to the formation of scale in boilers, water heaters, radiators, and pipes, with the resultant decrease in rate of heat transfer, possibility of boiler failure, and loss of flow.

Hardness is caused almost entirely by compounds of calcium and magnesium. Other constituents — such as iron, manganese, aluminum, barium, strontium, and free acid — also cause hardness, although they usually are not present in quantities large enough to have any appreciable effect. Water that has less than 60 parts per million of hardness is usually rated as soft and suitable for many purposes without further softening. Waters with hardness ranging from 61 to 120 parts per million may be

Water as represented by the weighted average is less concentrated than that represented by the average of the individual analyses for most streams because at times of high discharge the rivers generally have lower concentrations of dissolved solids.

COMPOSITION OF NATURAL WATERS

All natural waters contain dissolved mineral matter. Water in contact with soils or rocks, even for only a few hours, will dissolve some rock materials. The quantity of dissolved mineral matter in a natural water depends primarily on the type of rocks or soils through which the water has passed and the length of time it has been in contact with the rocks or soils. Some streams are fed by both surface runoff and underground water from springs or seeps. Such streams reflect the chemical character of their concentrated underground sources during dry periods and are more dilute during the periods of heavy rainfall. The concentration of dissolved solids in a river water is frequently increased by drainage from mines or oil fields, by the addition of industrial or municipal wastes, or—in irrigated regions—by return drain waters.

Underground water is usually more highly concentrated than surface runoff as it remains in contact with the rocks and soils for much longer periods. Similarly, the chemical character of ground water is subject to change more slowly than that of surface water because:

- (1) The rate of movement is usually much slower,
- (2) The rate of dilution is much slower, and
- (3) The effect of evaporation is negligible, except at shallow depths.

The mineral constituents and physical properties of natural waters reported in the tables of analyses include those that have a practical bearing on the value of the waters for most purposes. The analyses generally include results for silica, iron, calcium, magnesium, sodium, potassium (or sodium and potassium together as sodium), bicarbonate, sulfate, chloride, fluoride, nitrate, boron, and dissolved solids. Specific conductance, pH, acidity, and other physical properties are reported for certain streams. The source and significance of the different constituents and properties of natural waters are discussed in the following paragraphs.

MINERAL CONSTITUENTS IN SOLUTION

Silica (SiO_2)

Silica is dissolved from practically all rocks. Some natural surface waters contain less than 5 parts per million of silica and few contain more than 50 parts, but the more common range is from 10 to 30 parts per million. Silica affects the usefulness of a water because it contributes to the formation of boiler scale; it usually is removed from feed water for high-pressure boilers. Silica also forms troublesome deposits on the blades of steam turbines.

Iron (Fe)

Iron is dissolved from many rocks and soils. On exposure to air, normal basic waters that contain more than 1 part per million of iron soon

STREAMFLOW

Most of the records of stream discharge used in conjunction with the chemical analyses and in the computation of salt loads in this volume, are published in Geological Survey reports on the surface-water supply of the United States. The discharge reported for a composite sample is usually the average of the mean daily discharges for the normal composite period. For analyses in which the composite periods differ from the normal 10 or 11-day period, the discharges reported are the averages of the mean daily discharges for the days indicated. Discharges reported in the tables of single analyses (Miscellaneous samples) are either daily mean discharges or are discharges for the time at which samples were collected, computed from a stage-discharge relation or from a discharge measurement.

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Quality of Surface Waters of the United States,

Number	Year	Number	Year	Number	Year
942	1941	1050	1946	1189	1950
950	1942	1102	1947	1200	1951
970	1943	1133	1948	1253	1952
1022	1944	1163	1949	1293	1953
1030	1945			1353	1954

Sulfate (SO_4)

Sulfate is dissolved from many rocks and soils -- in especially large quantities from gypsum and from beds of shale. It is formed also by the oxidation of sulfides of iron and is therefore present in considerable quantities in waters from mines. Sulfate in waters that contain much calcium and magnesium causes the formation of hard scale in steam boilers and may increase the cost of softening the water.

Chloride (Cl)

Chloride is dissolved from rock materials in all parts of the country. Surface waters in the humid regions are usually low in chloride, whereas streams in arid or semiarid regions may contain several hundred parts per million of chloride leached from soils and rocks, especially where the streams receive return drainage from irrigated lands or are affected by ground-water inflow carrying appreciable quantities of chloride. Large quantities of chloride may affect the industrial use of water by increasing the corrosiveness of waters that contain large quantities of calcium and magnesium.

Fluoride (F)

The quantity of fluoride in natural surface waters is ordinarily very small compared to that of chloride. Recent investigations indicate that the incidence of dental caries is less when there are small amounts of fluoride present in the water supply than when there is none. However, excess fluoride in water is associated with the dental defect known as mottled enamel if the water is used for drinking by young children during calcification or formation of the teeth (Dean, 1936, p. 1269-1272). This defect becomes increasingly noticeable as the quantity of fluoride in water increases above 1.5 to 2.0 parts per million.

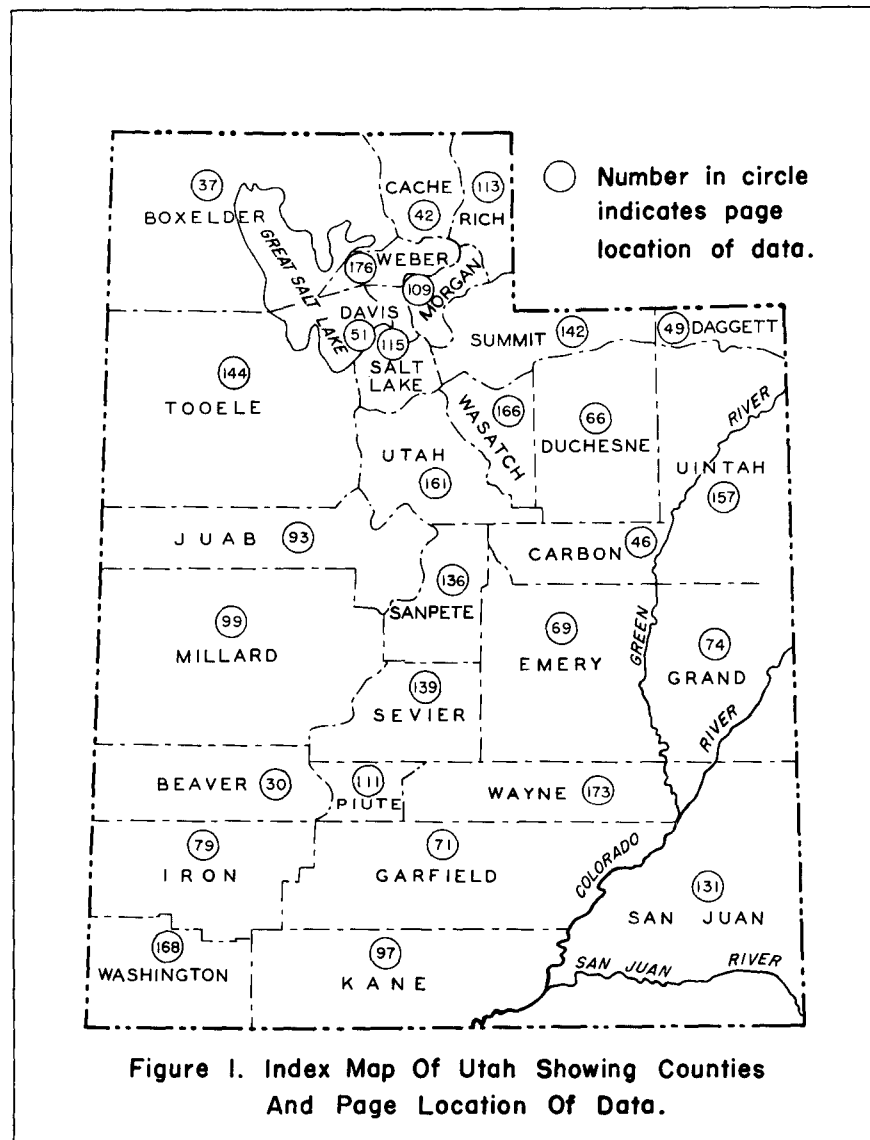
Nitrate (NO_3)

Nitrate in water is considered a final oxidation product of nitrogenous material and in some instances may indicate previous contamination by sewage or other organic matter. The quantities of nitrate present in surface waters usually amount to less than 5 parts per million (as NO_3) and have no effect on the value of the water for ordinary uses.

It has been reported that as much as 2 parts per million of nitrate in boiler water tends to decrease intercrystalline cracking of boiler steel. Studies made in Illinois indicate that nitrates in excess of 70 parts per million (as NO_3) may contribute to methemoglobinemia ("blue babies") (Faucett and Miller, 1946, p. 593), and more recent investigations conducted in Ohio show that drinking water containing nitrates in the range of 44 to 88 parts per million or more (as NO_3) may be the cause of methemoglobinemia in infants (Waring, 1949). In a report published by the National Research Council, (Maxcy 1950, p. 271) it was concluded that a nitrate content in excess of 44 parts per million (as NO_3) should be regarded as unsafe for infant feeding.

Boron (B)

Boron in small quantities has been found essential for plant growth, but irrigation water containing more than 1 part per million boron may be detrimental to some fruits and other boron-sensitive crops. Some Utah crops, such as sugar beets, alfalfa, cabbage, carrots, etc., have a greater tolerance for boron. Boron is reported in Survey analyses of surface waters



considered moderately hard, but this degree of hardness does not seriously interfere with the use of water for many purposes except for use in high-pressure steam boilers and in some industrial processes. Waters with hardness ranging from 121 to 200 parts per million are considered hard, and laundries and industries may profitably soften such supplies. Water with hardness above 200 parts per million usually requires some softening before being used for most purposes.

Corrosiveness

The corrosiveness of a water is that property which makes the water aggressive to metal surfaces and frequently results in the appearance of the "red water" caused by solution of iron. The disadvantages of iron in water have been discussed previously. Additionally, corrosion causes the deterioration of water pipes, steam boilers, and water-heating equipment. Many waters that do not appreciably corrode cold-water lines will aggressively attack hot-water lines. Oxygen, carbon dioxide, free acid, and acid-generating salts are the principal constituents in water that cause corrosion. In a general way, very soft waters of low mineral content tend to be more corrosive than hard waters containing appreciable quantities of carbonates and bicarbonates of calcium and magnesium.

Percent sodium

Percent sodium is reported in most of the analyses of waters collected from streams in the western part of the country where irrigation is practiced extensively. The proportion of sodium to all the basic constituents in the water has a bearing on the suitability of a water for irrigation. Waters in which the percent sodium is more than 60 may be injurious when applied to certain types of soils, particularly when adequate drainage is not provided (Magistad and Christiansen, 1944, p. 8-9; Wilcox, 1948, p. 6).

Sodium-adsorption-ratio

Sodium-adsorption-ratio (SAR) is the relative proportion of sodium to other cations in an irrigation water, and is defined by the equation:

$$SAR = \frac{Na}{\sqrt{\frac{Ca + Mg}{2}}}$$

where the ionic concentrations are expressed in milliequivalents per liter (or equivalents per million).

The term is used for soil extracts and irrigation waters to express the relative activity of sodium ions in exchange reactions with soil. SAR provides an estimate of the sodium or alkali hazard and reportedly is more significant for interpreting water quality than percent sodium because it relates more directly to the exchangeable sodium percentage the soil will attain when it and the water are in equilibrium.

The U. S. Salinity Laboratory diagram (U. S. Department of Agriculture Handbook 60 p. 80) for classifying waters for irrigation divides water into four classes with respect to sodium hazard, the dividing points being at SAR values of 10, 18, and 26. They range from low-sodium water that can be used for irrigation on almost all soils to very high-sodium water which is generally unsatisfactory for irrigation.

ARRANGEMENT OF THE DATA

In Figure I, on page 26, a map of Utah shows the arrangement of counties within the state. A circled number indicates the page on which the information for that county begins.

The following data are arranged by counties in alphabetical order. Preceding the tabulated information is a map of the county showing approximate locations, by sections, of the areas for which chemical analyses are included. Township numbers are shown along the left side and Range numbers are shown along the top side of the map. Because of the difference in size of counties some maps are reduced proportionately to fit within the page.

LOCATION AND WELL INFORMATION

Information concerning the source of the ground waters precedes the chemical analyses for each county. A well coordinate number is given for each source in the first column at the left of each page. This number also appears to the left of the chemical analyses pertaining to that source.

The well coordinate number may also be used to locate the source of the samples on each county map. Wells are numbered in accordance with the well numbering system of the Utah State Engineer. The land survey of Utah is based on the Salt Lake Base Line and Meridian, which divide the state into four quadrants. These quadrants are designated by the capital letters A, B, C, and D. All lands north and east of the base point (the intersection of Main and South Temple Streets in Salt Lake City) are in "A" quadrant; those north and west are in "B" quadrant, and so on through "C" and "D" quadrants. One section of the state, in Duchesne and parts of Uintah and Wasatch Counties, is based on the Uintah Base Survey. Well coordinate numbers in this area are prefixed by the letter "U". 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 lower case 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 with the northeast quarter of the section. If the location is known within the 10-acre tract, three lower case letters are shown in the well number. When there is more than one well in the smallest tract, consecutive numbers, beginning with 1, are added as suffixes.

The sections, usually 36, within each township, are numbered consecutively starting at the northeast corner and counting west. The first six sections (1-6) are north of and adjacent to the second six sections (7-12) numbered from west to east, etc. For example, refer to diagram of well coordinate number (D-4-5)20caa, (Figure 2, page 29).

If the well has a claim or application number filed in the Utah State Engineer's office, that number is shown in the second column of the information sheet.

In the third column is listed the name of the present owner or former owner with whom the well was identified.

The remainder of the information on the well-data sheets pertains to the well or spring. The diameter of wells is shown in inches and the depth in feet. The letter "R" or "M" preceding the figures in the depth column indicates a reported or measured depth. The column headed "Type of well" shows the method of drilling and the following column, the year in which the drilling occurred, if known. The last known use of the water from the well is reported under the "use" column. (Abbrevia-

Quality of Surface Waters for Irrigation Western United States,

Number	Year	Number	Year
1362	1952	1380	1953

U. S. Salinity Laboratory Staff, 1954, Diagnosis and improvement of saline and alkali soils: U. S. Dept. Agriculture Handbook 60, p. 1-81.

Waring, F. Holman, 1949, Significance and nitrates in water supplies: Jour. Am. Water Works Assoc., v. 72, no. 2.

Wilcox, L. V., 1948, Explanation and interpretation of analyses of irrigation waters: U. S. Dept. Agriculture Circ. 784, p. 6.

tions for use include: P.S.—public supply, Irr.—irrigation, Ind.—industrial, Dom.—domestic, St.—stock, and R.R.—railroad.) The remaining two columns on the well-data sheets show the date of measurement and water level as measured from land-surface datum (L.S.D.) The L.S.D. is a reasonably permanent fixed point, such as the edge of a well casing, from which the depth to water is measured. Water levels below this reference point are prefixed by a minus (–) sign and those above (usually indicative of artesian condition) are prefixed by a plus (+) sign.

CHEMICAL ANALYSES

The chemical analysis of a water may range from the measurement of a few properties to the complete analysis of all constituents. Analytical data in this report differ as to the number of individual determinations, but are mostly complete. The physical properties and constituents listed on the following pages include those considered most essential in describing the general quality of a water.

The chemical analyses are arranged in tabular form to the right of the well coordinate numbers in a column on the left side of the page. More than one analysis representing samples collected on different dates may be listed for one well. Generally, the well information applies to the last sample analyzed for the same coordinate number. For single samples, the latest measurement is used.

The date of sample collection is listed next to the well coordinate number.

The order in which the physical properties and constituents appear on the analysis sheets from left to right are as follows: Specific conductance (micromhos at 25°C), silica (SiO₂), iron (Fe), calcium (Ca), magnesium (Mg), sodium (Na), Na + K (calculated), potassium (K), bicarbonate (HCO₃), sulfate (SO₄), chloride (Cl), fluoride (F), nitrate (NO₃) total dissolved solids, total hardness as CaCO₃, and percent sodium. Specific conductance is expressed in micromhos at 25°C and percent sodium in percent of 100. All other items on the analysis sheets are expressed in parts per million (ppm). The significance of these constituents and properties is explained briefly under the section "Information About The Analytical Data," pages 19 to 23.

An asterisk (*) following the dissolved solids value indicates that the "sum" of constituents determined has been used in place of the "residue on evaporation" figure. The "sum" figure is reported in lieu of the "residue" figure only when the analysis is nearly complete and the residue figure is greater than 1,000 ppm, or when the character of the water indicates the residue figure may be misleading.

The last column on the analysis sheet lists the agency or organization that analyzed the sample and made the results available for this publication. The two-letter code indicates the following:

- AC—Agricultural Experiment Station, Utah State University (formerly identified as Utah Agricultural College, Logan, Utah) — in cooperation with the U. S. Department of Agriculture — Soil Conservation Service.
- BR—U. S. Department of the Interior, Bureau of Reclamation, Region IV, Salt Lake City, Utah.
- GS—U. S. Department of the Interior, Geological Survey, Quality of Water Branch, Fort Douglas, Salt Lake City, Utah.
- PH—Utah State Department of Public Health, State Capitol Building, Salt Lake City, Utah
- SL—Salt Lake City Corporation, City Chemist, Salt Lake City, Utah.

**CHEMICAL ANALYSES
OF
GROUND WATERS
IN
UTAH**

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-26-9)34deb		Roosevelt Hot Springs			Spring		Baths		
(C-26-10)32cad-2	RC 10257	Burton Smithson	6"	R 332	Drilled	1949	St., Dom.	11-30-55	-13.17
(C-27-13)26cba		Squaw Spring			Spring		Dom.		
(C-28-10)7aad-1	C- 13337	City of Milford	8-12	R 478	Drilled		P. S.		
(C-28-10)7aad-1	C-13337"R"	City of Milford	12	R 467	Drilled	1951	P. S.		
(C-28-10)7aad-2	C-13338	City of Milford	10	R 468	Drilled		P. S.		
(C-28-10)7adb-1	A-18261	City of Milford	12	R 533	Drilled	1947	P. S.		
(C-28-10)7daa	C- 4279	U. P. R. R.	12-8	R 538	Drilled		R. R.		
(C-28-10)17ccc-1	C-17173	G. C. Goodwin	14	R 92	Drilled	1934	Irr.	7-14-53	- 7.2
(C-28-10)17cdc-1	C- 1087	G. C. Goodwin	14	M 42	Drilled		Irr.	6-24-52	-24.0
(C-28-10)18aca-2	C- 1091	G. C. Goodwin	6	R 450	Drilled		Dom. St.		
(C-28-10)18ada	Test well	G. C. Goodwin	8	R 10	Dug, Bored	1950	Irr.		
(C-28-10)19abc-1	C- 3358	Ezra Walker	$8\frac{1}{2}$	R 260	Jetted	1904		12-18-39	+ 4.38
(C-28-10)19bbc-1	C- 6353	Carl Elmer	14	R 71	Drilled	1935	St. Irr.	11-25-44	- 7.00
(C-28-10)19dcc-2	A-18250	H. L. Tolley	6	R 300	Drilled		Dom.		
(C-28-10)20ccd-1	C- 2044	R. W. Jones	14	R 42	Drilled	1924	Irr.	12-9-42	-10.02
(C-28-10)20odd-1	C- 197	E. C. McCain	10	R 48	Drilled		Dom., Irr.	5-4-53	-21.69
(C-28-10)21ccd-1	A-18125	Geo. Mayer	12	R 316	Drilled	1946	Irr.	12-6-51	-26.27
(C-28-10)29bcc-1	C-13803	State Land Board	14	R 70	Drilled	1933		12-9-42	- 8.48
(C-28-10)29bdd-1	C- 3453	Duard Evans	14	R 60	Drilled		St. & Irr.	10-7-52	-14.60
(C-28-10)29cdc-1	A-11742	J. H. Hanlon	8	R 212	Drilled		Irr.	12-6-50	-12.90
(C-28-10)30adc-1	C-17791	O. R. Williams	14	R 100	Drilled	1935	Irr.	12-9-53	-17.53
(C-28-10)30bdc-1	C-14102	Dr. Bybee	16	R 47	Drilled	1920	Irr.	3-17-53	-18.94
(C-28-10)30bdd-1	C-13813	Parley Fisher	16	R 58	Drilled	1952	St., Irr.	5-6-53	-38.5
(C-28-10)30cdc-1	C- 4056	Morgan Griffiths	14	R 54	Drilled	1924	Dom., St. Irr.	10-7-54	-28.58
(C-28-10)32ccd-1	C- 3837	Robt. Ricketts	14	R 60	Drilled		Dom., St. Irr.	6-10-50	-33.70
(C-28-10)33aba-1	C-10281	Duluth Land Co.	8	R 140	Drilled	1916	Dom., St.	12-6-41	-12.57
(C-28-11)10acd-1	A-19166	U.S.B.L.M.	3	R 227	Drilled	1947	St.		
(C-28-11)13dca-1	C-10324	New Majestic Mining Co.	$4\frac{1}{2}$	R 600	Jetted	1903	Not used	3-11-43	+ 0.6
(C-28-11)23aab-1	Test Well	Beaver Co.	14	R 57	Bored		Not used	3-28-45	-20.98
(C-28-11)25abd-1	C-10323	Pacific Bond and Mort. Co.	14	R 77	Drilled	1928	Dom., St. Irr.	3-28-45	- 5.80
(C-28-11)25dcd-1	A-12079	Jacob Boumbock	14	R 431	Drilled			3-17-53	- 9.71
(C-28-11)25ddd-1	C- 3392	Kent Smith	14	R 73	Drilled		Irr.	10-10-51	-15.20
(C-28-11)35ddd-1	C- 3619	Mrs. W. M. Bond	14	R 74	Drilled	1927	St., Dom. Irr.	12-6-50	-13.95
(C-28-11)36baa-3	A-20880	Wm. J. Steward	4	R 150			Irr.		

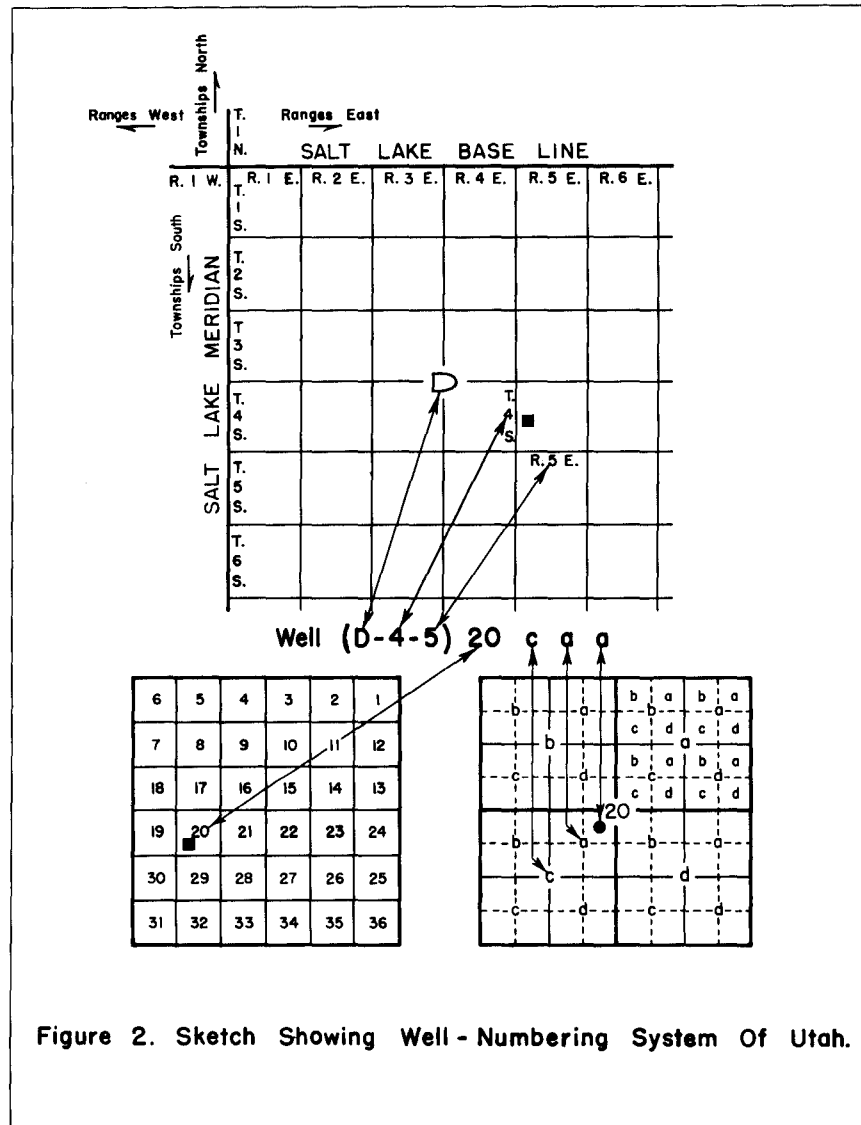
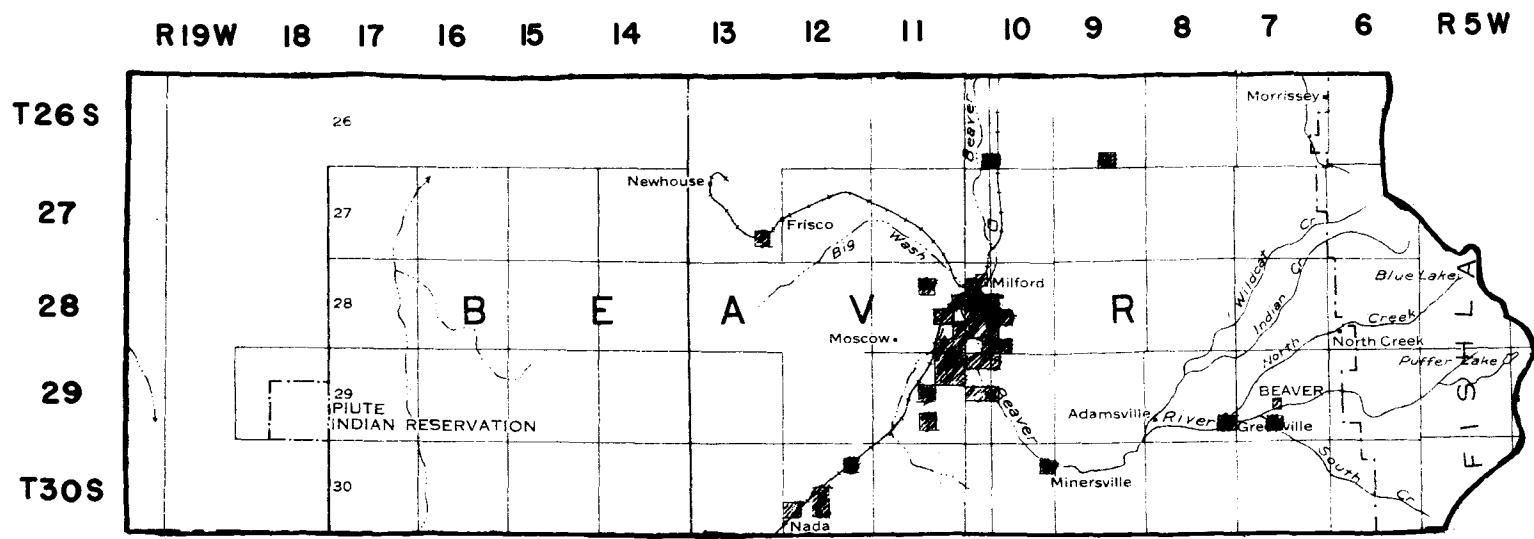


Figure 2. Sketch Showing Well - Numbering System Of Utah.

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(C-26-9)34dcb	11/4/50	11,500	405	.04	19	3.3	2,080		472	158	65	3,810	7.1	1.9	7,040	61	87	GS
(C-26-10)32cad-2	6/21/50	3,430	32		90	92		481		304	16	980		1.6	1,840*	603	63	GS
(C-27-13)26cba	10/10/51	1,420	34		148	46		66		223	74	303	.2	18	799*	558	20	GS
(C-28-10)7aad-1	6/21/50	394	33					61		162	40	16	1.0			67	66	GS
(C-28-10)7aad-1	2/7/52		6.8	0.28	18	3.7		70		159	49	25	.8	.3	259	58		PH
(C-28-10)7aad-2	2/7/52		6.7	0.17	30	7.7		63		150	80	28	.7	.4	333	101		PH
(C-28-10)7adb-1	2/7/52		9.3	0.18	17	3.8		67		172	38	17	.9	.0	260	56		PH
(C-28-10)7daa			90	3.0	47	10		8		104	0	12			330	158		PH
(C-28-10)17ccc-1	6/19/50	3,060	52		333	96		203		226	647	572		2.3	2,020*	1,230	26	GS
(C-28-10)17cdc-1	4/3/50	3,840								209		890						GS
(C-28-10)18aca-2	4/3/50	364	34					56		164	37	10	1.0			68	64	GS
(C-28-10)18ada	4/3/50	2,090								230		430				900		GS
(C-28-10)19abc-1	11/3/50	328	32	.09	14	7.0	45		3.0	148	35	9.5	.7	.1	211	64	59	GS
(C-28-10)19bbc-1	4/3/50	320						9.2		128	28	26	0.6			152	12	GS
(C-28-10)19dec-2	4/2/50	283						23		130	40	11	0.8			116	30	GS
(C-28-10)20ccd-1	4/9/43	3,940			548	132		190		306	840	848	.2	2.5	2,710*	1,910	18	GS
(C-28-10)20cdd-1	4/2/50	4,730	45					441		245	1,240	912	0.4			1,820	35	GS
(C-28-10)20cdd-1	6/21/50	4,980	54		484	146		500		246	1,330	925		6.0	3,570*	1,810	38	GS
(C-28-10)21ccd-1	6/19/50	1,920	62		150	108		85		136	371	352		11	1,210*	818	18	GS
(C-28-10)29bcc-1	6/19/50	3,070	48					261		340	646	515				1,110	34	GS
(C-28-10)29bdd-1	4/3/50	2,430								248		485						GS
(C-28-10)29bdd	6/21/50	3,520	52		386	99		266		365	712	640		8.1	2,340*	1,370	30	GS
(C-28-10)29cde-1	4/2/50	1,150								242		163						GS
(C-28-10)29cde-1	6/21/50	1,420	44		150	35		95		278	199	202		7.5	869*	518	29	GS
(C-28-10)30adc-1	6/19/50	327	44					10		126	27	20				137	14	GS
(C-28-10)30bdc-1	10/15/23		40		62	12		18		161	57	37			339	204		GS
(C-28-10)30bdc-1	6/21/50	3,090	53		354	78		261		332	829	445		9.4	2,190*	1,200	32	GS
(C-28-10)30bdd-1	4/3/50	1,850								352		290						GS
(C-28-10)30cde-1	4/9/43	644			74	16		35		136	71	90	.4	16	369*	250	23	GS
(C-28-10)30cde-1	4/3/50	2,570	45					345		512	453	352	0.8			640	54	GS

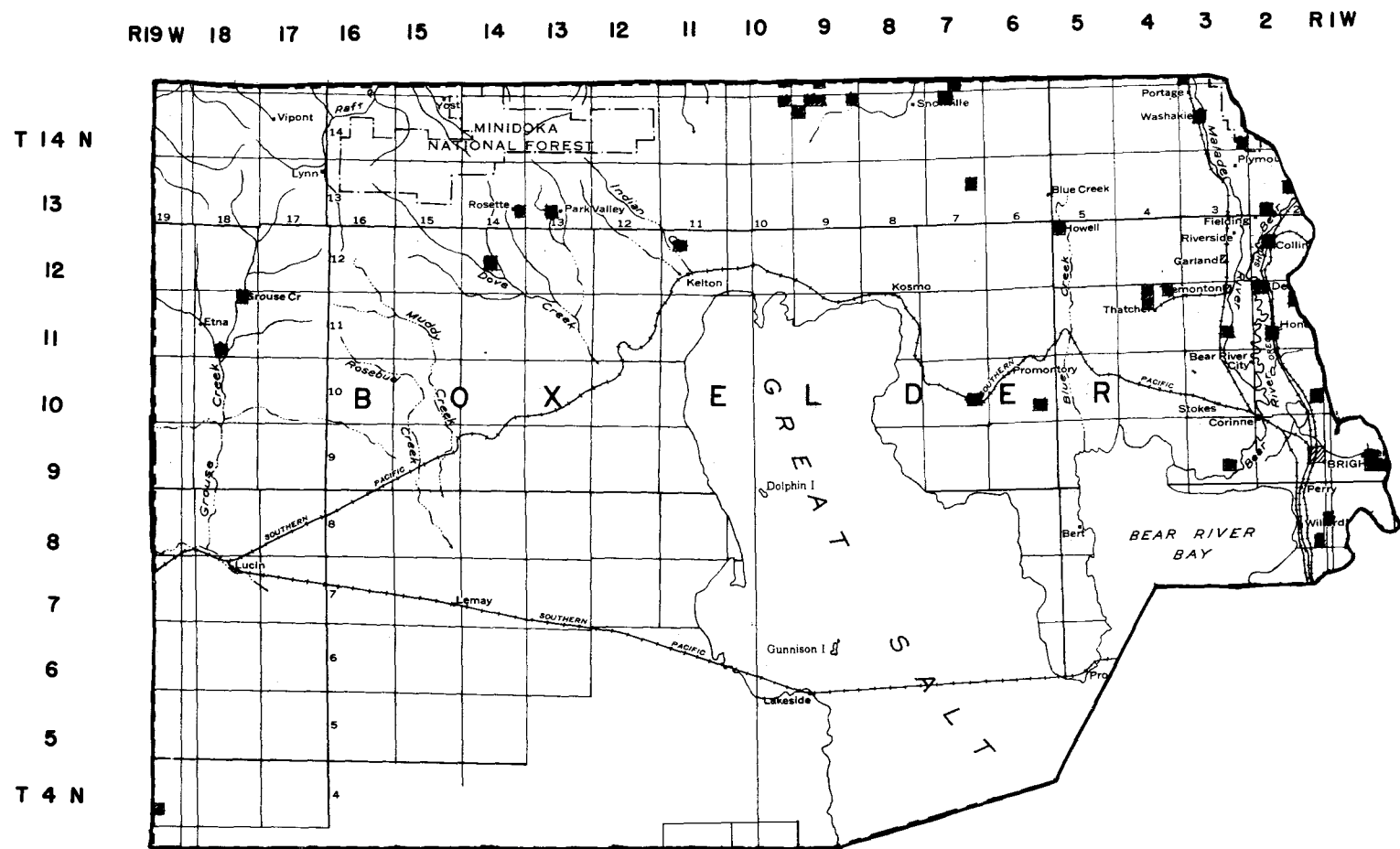


Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(C-29-11)12ddd-1	6/20/50	382	41					12		132	35	31				162	14	GS
(C-29-11)15ad	4/2/50	2,340								288		540				780		GS
(C-29-11)27bad-1	4-2-50	4,640								292		1,240						GS
(C-29-11)27bad-2	4-2-50	763						26		132	53	128	0.4	5.4		292	16	GS
(C-30-10)12bdd	4/9/43	142			112	27		184		242	470	67	3.5	.1	983*	390		GS
(C-30-12)11abc-1	1906		a/161	10.00	32	15	57			84	4	87			689	142		FE
(C-30-12)21add	10/23/39									370	460	217				219		GS
(C-30-12)21add	10/24/39									360	460	215				204		GS
(C-30-12)28	11/3/50	2,170	119	.05	72	9.8	358		61	360	473	218	6.7	.1	1,490	220	72	GS
(C-30-12)30b	10/14/23		49		126	78		454		171	657	565			2,113	635		GS

a/Reported as silicious matter.

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis by	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(C-28-10)32ccc-1	4/3/50	1,420						48		318	179	203	0.3	30		655	14	GS
(C-28-10)33aba-1	4/9/43	2,000			98	82		263		562	444	150	1.3	19		582	50	GS
(C-28-11)10acd-1	11/3/50	988	48	.05	54	40	99		4.2	285	174	82	.3	.1	1,330*	616	41	GS
(C-28-11)13dca-1	4/3/50	446								152		30				56		GS
(C-28-11)23aab-1	10/15/27		44	.39	67	26	130		9.6	193	194	145		1.2	716	274		GS
(C-28-11)25abd-1	4/3/50	2,560								322	290	400	0.7					GS
(C-28-11)25aed-1	6/20/50	642	43					26		154	100	64				264	18	GS
(C-28-11)25add-1	6/20/50	2,410	50		264	57		192		315	528	348		16	1,610*	893	32	GS
(C-28-11)35ddd-1	4/3/50	1,200						30		226	225	136	1.1			580	10	GS
(C-28-11)35ddd-1	6/20/50	1,190	49		136	28		69		206	240	132			756*	454	25	GS
(C-28-11)36baa-3	4/3/50	264	45						4.8	130	19	10	0.8			132	7	GS
(C-28-11)36bba-2	4/3/50	3,060								308		455						GS
(C-28-11)36cad-1	4/3/50	786								204		98						GS
(C-28-11)36ddd-1	6/20/50	1,120	45		128	27		43		275	131	112		6.1	628*	430	18	GS
(C-29-7)28a	1/23/55		24	0.0	44	37				153	54	16	0.3	1.7	233	126		PH
(C-29-8)25cac-2	2/25/45		59	0.1	34	6.6		16		128	40	1	0.6		244	113		PH
(C-29-10)5cdd-2	4/3/50	980								190	117	138	0.3					GS
(C-29-10)6baa-1	4/4/50	633								198	69	65	0.4					GS
(C-29-10)6dde-1	4/3/50	707								256		77						GS
(C-29-10)17add-1	6/20/50	1,350	37		168	36		66		323	165	154		70	855*	567	20	GS
(C-29-10)17add-1	6/19/50	1,010	38					29		245	119	117				428	13	GS
(C-29-10)18add-1	6/20/50	816	36					46		206	89	95				295	25	GS
(C-29-11)1bad-1	4/3/50	484								148	49	56	0.4					GS
(C-29-11)2add-1	4/3/50	352						39		190	122	108	0.7			352	19	GS
(C-29-11)4baa-1	4/3/50	4,880								334		652						GS
(C-29-11)11aad-1	4/3/50	513								156		62						GS
(C-29-11)11ecd-1	4/2/50	484								110	35	67	0.8	27				GS
(C-29-11)11add-1	6/20/50		38					66		310	120	170				476	23	GS
(C-29-11)11add-1	4/2/50	188						21		130	35	58	0.4	9.2		188	19	GS
(C-29-11)12add-1	6/20/50	548	42					11		168	55	51				243	9	GS

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-4-19)28dab-DVS	(Morrison Spr.)	U.P.R.R. Co.			Spring		P. S.		
(B-8-2)24		Town of Willard			Spring		P. S.		
(B-8-2)35ac		M. C. Marsh			Spring		Irr.		
(B-9-1)22bbc-DVS	A-24159	Brigham City			Spring		P. S.		
(B-9-1)26bbb-1	C-6602	Brigham City	14	R 505	Drilled	1929	P. S.		
(B-9-1)27aaa-1	C-6601	Brigham City	10	R 485	Drilled	1932	P. S.	10/4/35	- 49.8
(B-9-3)27bca-1	C-21017	Chesapeake Gun Club	3	502	Jetted		Dom.		
(B-10-2)25 (Baker Spr.)		West Corinne Water Co.			Spring		Dom. Irr.		
(B-10-4) (Stinking Spr.)					Spring		Baths		
(B-10-6)26ddd-3	A-27322	R. J. Toombs	8	R 164	Drilled		Dom. St. Irr.		
(B-10-7)23da		State of Utah			Well				
(B-11-2)6 (Bermer Spr.)		Town of Tremonton			Spring		P. S.		
(B-11-2)6 (Eastside Spr.)		Town of Tremonton			Spring		P. S.		
(B-11-2)10 (Coldwater Canyon Spr.)		Town of Deweyville			Spring		P. S.		
(B-11-2)29dac (Crystal Cold Spr.)		W. A. Chamberlain			Spring		Bath, Irr.		
(B-11-2)29dab (Crystal Hot Spr.)		W. A. Chamberlain			Spring		Bath		
(B-11-3)27		E. M. Johnson	1 1/2	R 20	Driven		Dom.		
(B-11-4)2acd-2	A-15903	D. E. Andersen	2	R 185	Drilled	1944	Dom.		
(B-11-4)4ddd-1	A-25221	Town of Bothwell	8	R 166	Drilled	1953	P. S.		
(B-11-4)4ddd	A-19715	Town of Bothwell	10	R 248	Drilled		P. S.		
(B-11-4)9dad-1	A-17175	Thatcher Farmstead Water Co.	8	150	Drilled		Irr.		
(B-11-4)9adb-1	A-16557	A. K. Wright	8	R 155	Drilled		P. S.		
(B-11-18)2 (Grouse Creek Spr.)		East Grouse Creek Pipeline Co.			Spring		P. S.		
(B-11-18)33ada-1	A-18061	Ross Warburton			Drilled		Dom. Irr.		
(B-12-2)17cd		L. Jensen			Spring		Dom.		
(B-12-5)6		Howell Water Co.			Spring		P. S.		
(B-12-11)8cda-1	A-12447	Gus Fehlman	3	65	Jetted		St.		
(B-12-14)21cad-1	A-18093	Chas. Kunzler	12	225	Drilled		Dom.		
(B-13-2)22a		Utah Power & Light Co.			Spring		Dom.		
(B-13-2)32 (Hansen Spr.)		Ukon Water System			Spring		P. S.		
(B-13-7)14da	C-14126	W. C. Craver	4 1/2	R 405	Drilled		Dom.		
(B-13-13)28ddd		C. W. Goodliffe	48	M 19	Dug		Dom.	11/5/54	- 14.06
(B-13-14)25ccb-1	A-21616	J. J. Kunzler	14		Drilled		Irr.		
(B-14-3)36		Town of Plymouth			Spring		P. S.		
(B-14-3)17dccc-1	A-18185	L. D. S. Church	4	R 174	Drilled		Dom.		

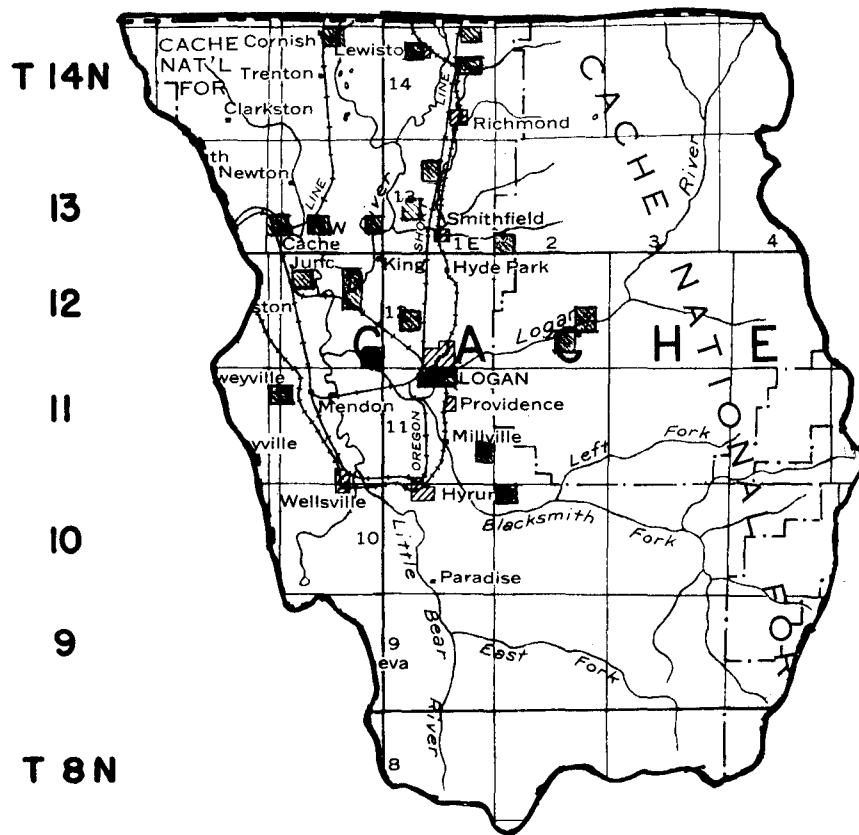


Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(B-4-19)28dab	11/7/46		12	0.00	15	2.3		7.2		54	5.7	9.6	0.0	0.0	82	45		PH
(B-8-2)24	10/26/51		11	0.26	33	7.2		8.7		104	37	3.6	0.2	0.5	146	114		PH
(B-8-2)35ac	3/3/54	196	14	0.03	20	4.8	13		1.4	86	16	9.5	0.2	2.9	120	70	28	GS
(B-9-1)22bbc-DVS	4/18/50		13	0.00	45	22		5.9		221	9.6	13	0.2	2.2	233	202		PH
(B-9-1)22bbc-DVS	3/30/51	404	13	0.04	44	21	8.3		2.7	239	9.2	9.6	0.2	2.7	224	196	8	GS
(B-9-1)26bbb-1	4/18/50		13	0.00	52	20		4.5		225	17	10	0.2	4.4	243	212		PH
(B-9-1)27aaa-1	4/18/50		16	0.20	49	19		8.8		225	13	12	0.1	3.1	243	201		PH
(B-9-3)27bca-1	8/21/53	5,300		56	62		998		108	1,620	14	1,090			3,350		80	AC
(B-10-2)25	5/12/55		2.4	0.18	73	0.0		22		248	7.0	10	2.1	3.1	238	182		PH
(B-10-4)	11/18/11			2.0	878	379	10,400			393	20	18,500			30,400			GS
(B-10-4)	10/27/51	48,900	53	0.02	898	355	11,200		658	518	58	20,400	0.0		33,900*	3,700	84	GS
(B-10-4)	2/6/53	52,200								501	135	22,200						GS
(B-10-6)26add-3	6/21/56	3,140	16	0.04	96	38	498		13	246	74	850	0.4	7.0	1,750	396	72	GS
(B-10-7)23da	1911									263		175			204			GS
(B-11-2)6	3/1/54		18	0.03	62	15		95		262	65	94	0.0	5.9	438	215		PH
(B-11-2)6	10/13/54		20	0.00	86	0.0		85		279	32	92	0.6	7.0	427	206		PH
(B-11-2)10	2/23/51		7.4	0.00	42	22		1.0		103	4.6	6.1	0.3	2.2	162	196		PH
(B-11-2)29dac	10/27/51	2,180								304	45	535						GS
(B-11-2)29dac	2/6/53	2,980								256	37	835	0.0					GS
(B-11-2)29dab	11/18/11			1.0	901	218	16,600			454	499	27,100			45,500			GS
(B-11-2)29dab	10/27/51	58,600	31	0.02	803	219	14,700		763	465	466	25,000	0.0		42,200*	2,900	89	GS
(B-11-2)29dab	6/29/52	53,300	25				13,400			445		22,700						GS
(B-11-2)29dab	2/6/53	56,400								468	480	25,300						GS
(B-11-3)27	2/4/52		12	0.20	74	30		52		358	57	56	0.1	0.1	482	288		PH
(B-11-4)2acd-2	2/3/54		18	0.21	83	21		126		235	71	208	0.0	6.3	716	293		PH
(B-11-4)4add-1	12/10/53		42	3.2	134	57		170		255	279	370	0.2	6.0	1,310	571		PH
(B-11-4)4add-1	2/3/54		18	0.09	109	30		99		211	103	246	0.0	6.8	836	396		PH
(B-11-4)9dad-1	8/22/50		34	0.00	153	41		206		229	299	343	0.3	16	1,340	551		PH
(B-11-4)9ddb-1	5/27/45		40	0.00	246	33		89		228	151	385	0.6	6.0	1,360	748		PH
(B-11-18)2	9/30/11			0.40	47	18	13		a/	186	22	31			266			GS

a/ includes equivalent of 13 ppm CO₂

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-14-7)5		Town of Snowville			Spring		P. S.		
(B-14-9)1ddd-1	A-26923	Chas. Taylor	14	R 365	Drilled	1955	Irr.	5/24/56	-183.0
(B-14-9)4bbb-1	A-27734	Chas. Taylor	3 $\frac{1}{2}$	R 350	Drilled	1955	Dom.		
(B-14-9)5bbb-1	A-26400	Ralph Taylor	14	R 300	Drilled	1955	Irr.		
(B-14-9)7bbb-1	A-26399	Ralph Taylor	14	R 608	Drilled	1955	Irr.		
(B-14-10)1bbb-1	A-26511	Ralph Taylor	10	R 416	Drilled	1955	Irr.		
(B-14-10)1dca-1	A-22464	H. M. Cardon	6	243	Drilled		Dom. Irr.		
(B-15-3)3lcda-1	C-10220	M. J. John	3	100	Jetted		St. Dom.		
(B-15-7)33		Town of Snowville			Spring		P. S.		
(B-15-9)28cbb-1	A-26582	Chas. Taylor	20	R 400	Drilled	1955	Irr.		
(B-15-10)25ccc-1	A-27555	Peter Mayo	20	R 610	Drilled	1956	Irr.		

R2W RIW RIE 2 3 R4E

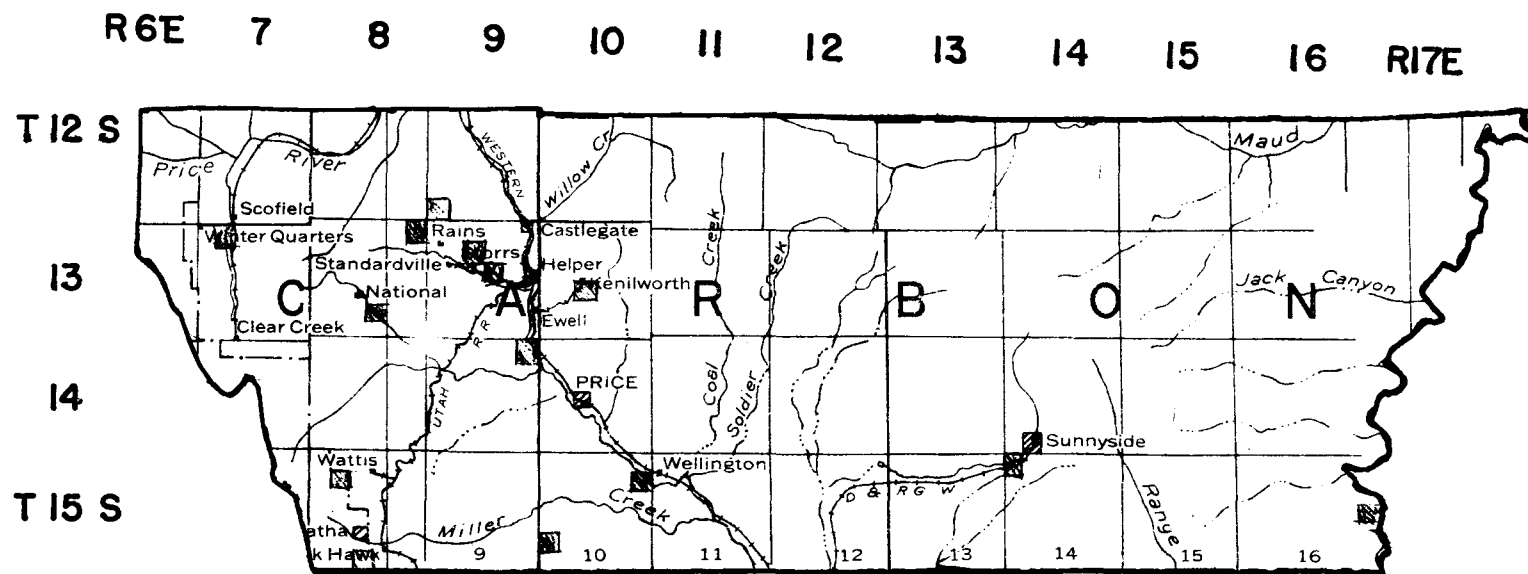


Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(B-11-1P)2	8/31/54		20	0.88	41	13		26		166	32	30	0.2	2.1	249	157		PH
(B-11-1P)33ada-1	5/14/56	1,310			116	33	101		10	423	77	116			790			AC
(B-12-2)17cd	6/5/41		28		73	8.0	36				42	38	0.2	6.8	390	215		PH
(B-12-5)6	3/10/41		9.6	0.00	64	26		113		234	98	154	0.2		630	265		PH
(B-12-11)8cda-1	4/3/53	760			51	23	69		32	171	58	151			460		36	AC
(B-12-14)21cad-1	8/29/55	720			66	17	51		35	195	26	110						AC
(B-13-2)22a	6/5/41		44	0.00	121	37		48		294	100	145	1.2	7.8	873	454		PH
(B-13-2)32	2/23/51		40	0.00	85	14		32		258	33	41	0.3	4.0	394	271		PH
(B-13-7)14da	10/23/11		46	0.20	74	22	58			a/ 196	27	146		8.0	543			GS
(B-13-13)28add	9/30/11			0.45	56	21	112			b/ 345	33	107						GS
(B-13-14)25ccb-1	6/7/56	606			62	12	43		3.5	231	24	65			340			AC
(B-14-3)36	6/20/41		31	0.00	58	25		9.1		290	7.9	14	0.4		305	248		PH
(B-14-3)17dec-1	6/19/55		16	0.45	41	29		252		348	10	336	0.3	0.4	855	220		PH
(B-14-7)5	9/30/11			0.30	83	39	216			c/ 225	44	429			1,050			GS
(B-14-9)16dd-1	5/24/56	1,360	48		102	36	132			359	76	233		2.3	806*	404	42	GS
(B-14-9)5-bbb-1	7/27/55	608	64	0.00	66	16	27		8.0	174	22	90	0.2	4.4	436	230	20	GS
(B-14-9)5bbb-1	5/24/56	626	55		67	16	28			176	29	93		4.0	379*	234	21	GS
(B-14-9)7bbb-1	5/24/56	734	64		69	21	37			170	28	130		2.9	436*	260	24	GS
(B-14-10)11bbb-1	5/24/56	558	60		46	24	28			194	31	66		0.9	352*	214	22	GS
(B-14-10)1dce-1	9/12/55	530			57	15	25		10	199	22	63						AC
(B-15-3)31cda-1	1/54	1,760			100	51	224		10	435	34	182			116		51	AC
(B-15-7)33	11/22/50		13	0.36	71	42		225		212	43	433	0.7	5.5	888	350		PH
(B-15-9)28cbb-1	9/12/55	4,200			316	85	518		34	152	103	1,380						AC
(B-15-9)28cbb-1	5/24/56	4,170	72		321	83	381			142	48	1,290		3.9	2,270*	1,140	42	GS
(B-15-10)25ccc-1	5/17/56	480	59		42	22	19			187	25	50		1.9	311*	197	18	GS
(B-15-10)25ccc-1	5/24/56	502	56		59	17	18			198	23	51		2.2	324*	218	15	GS

a/ includes equivalent of 8 ppm CO₃b/ includes equivalent of 15 ppm CO₃c/ includes equivalent of 10 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmoh at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃	
(A-10-2)	2/19/51		6.7	0.40	87	7.7				227	15	6.1	0.2	1.1	264	250	PH
(A-11-1)3aca-1	3/12/54		11	0.02	73	14		13		294	9.8	6.0	0.0	9.6	254	240	PH
(A-11-1)3bda-1	3/12/54		11	0.37	79	14		12		315	14	4.0	0.0	7.1	296	258	PH
(A-11-1)4cac-1	10/19/51	1,090	27		80	37		98		266	92	169	0.1	14	648*	352	GS
(A-11-1)25	3/27/50		17	0.00	77	30		7.4		349	15	7.9	0.0	18	344	316	PH
(A-12-1)23	3/31/55		12	0.01	20	17		95		366	11	6.0	0.4	6.0	320	120	PH
(A-12-2)20	6/16/41		1.1	0.00	54	29		7.2		290	4.0	17	0.0	0.0	258	252	PH
(A-12-2)27	3/30/51	352	5.3	0.01	49	18	1.4		1.6	230	8.1	1.8	0.0	2.7	193	196	GS
(A-13-1)9dan-D	9/22/53	850			47	58	29		8.0	574	15	15			390		AC
(A-13-1)20acb-2	2/24/46		20		49	23				180	7.6	15			243	218	PH
(A-13-1)20acc-1	2/25/46		5.4		51	25		6.1		200	3.6	14			244	229	PH
(A-13-1)20bac-1	2/24/46		10		35	29		15		205	6.9	19	3.0		257	206	PH
(A-13-2)	9/1/41		1.2	0.15	48	14		4.5		206	7.2	7.0	0.1		202	178	PH
(A-14-1)2	8/15/50		20	0.00	28	33		19		236	25	6.1	0.1	4.4	252	205	PH
(A-14-1)8	8/15/50		3.8	0.00	36	19		2.0		154	18	3.0	0.0	0.1	154	168	PH
(A-14-1)14	2/16/51		17	0.00	29	21		14		208	6.2	5.5	0.2	0.4	200	158	PH
(B-11-1)7	9/1/41		4.2		48	11		8.3		192	6.7	13	0.5		222	164	PH
(B-12-1)8dcc-1	10/27/49	780	69		45	35		77		362	38	59	2.0	0.0	503*	256	GS
(B-12-1)8dcc-1	8/21/50	797	71					91		360	15	61	2.2	0.1	204		GS
(B-12-1)8dcc-1	8/14/51	787								364		59					GS
(B-12-1)8dcc-2	8/21/50	821	68		36	25		113		384	30	62	2.2	0.3	526*	193	GS
(B-12-1)8dcc-2	8/14/51	816								392		64					GS
(B-12-1)8dcc-2	6/29/52	815	60	0.08	34	22	114		6.7	380	27	64	2.0	0.2	518	176	GS
(B-12-1)11bba-1	7/12/48	585			42	24		54		328	3.7	33		0.4	204	36	GS
(B-12-1)11bba-1	10/27/49	582	39					51		326	3.0	31	0.4	0.1	204	35	GS
(B-12-1)11bba-1	8/2/50	607	41					65		324	1.0	36	0.5	1.1	178	44	GS
(B-12-1)14aab-1	7/12/48	481			43	16		43		279	3.5	21		5.8	174	35	GS
(B-12-1)14aab-1	10/27/49	489	28					43		292	3.0	22	0.4	0.0	190	34	GS
(B-12-1)36bbb	6/30/48	491			49	21		29		266	2.3	36	0.4	0.1	209	23	GS
(B-12-1)36bbb	7/16/48	492								264	3.5	33					GS

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(A-10-2) (Blacksmith Fork Spr.)		Town of Hiram			Spring		P. S.		
(A-11-1)3acc-1	C-2131	D R A #1316	10	R 192	Drilled	1934	P. S.	10/15/34	- 112
(A-11-1)3bca-1	C-2136	D R A #271	12	R 140	Drilled	1934	P. S.	7/1/48	- 31.88
(A-11-1)4acc-1	C-2579	Carl Hansen	2	R 110	Drilled	1915	Dom. Irr.	9/17/38	+ 11.65
(A-11-1)25 (Nibley Spr.)		Town of Nibley			Spring		P. S.		
(A-12-1)20 (Nyeas Farm Spr.)					Spring		Irr.		
(A-12-2)23 (Green Canyon Spr.)		Town of No. Logan			Spring		P. S.		
(A-12-2)27 (Dewitt Springs)		Town of Logan			Spring		P. S.		
(A-13-1)9acc-D	A-12364	Alvey			Drain		Irr.		
(A-13-1)20acc-2	C-1684	Amalga Corp.	2	R 139	Jetted		P. S.		
(A-13-1)20acc-1	C-1685	Amalga Corp.	2	R 44	Jetted		P. S.		
(A-13-1)20acc-1	A-12792	Amalga Corp.	4	R 209	Drilled		P. S.		
(A-13-2) (Birch Canyon Spr.)		Town of Hyde Park			Spring		P. S.		
(A-14-1)2 (Goosland Spr.)		Goosland Spr. Waterworks Co.			Spring		P. S.		
(A-14-1)8		Town of Lewiston			Springs		P. S.		
(A-14-1)14		South Cove Water Co.			Spring		P. S.		
(A-11-1)7		Town of Mendon			Spring		P. S.		
(A-12-1)8acc-1	C-2538	J. C. Maughan	2	R 225	Jetted		P. S.		
(A-12-1)8acc-2	C-2539	J. C. Maughan	1 1/2	M 410	Jetted	1905	Dom. St.	10/6/38	+ 1.9
(A-12-1)11bba-1	A-12162		2	R 495	Jetted				
(A-12-1)14aab-1	C-1305		2	R 315	Jetted				
(A-12-1)16abb	D. S.	Peterson	2		Jetted		St.		
(A-12-1)25acc-1	C-20081	Golden F. Reeder	12	R 473	Drilled		Dom. St.		
(A-13-1)28acc			2 1/4		Jetted				
(A-13-1)28abb-1	A-13610	Walter A. Cooley	2	R 216	Jetted		Dom.		
(A-13-1)30acc	C-2757	F. R. Ballard	2	R 90	Jetted	1907	St.	5/27/52	+ 18.5
(A-13-1)30acc		Union Pacific R.R. Co.	4	R 37	Drilled		Dom. RR		
(A-14-1)3 (Fertory Alley Spr.)		Cornish Water Users Ass.			Spring		P. S.		



GROUND WATER - CACHE COUNTY

Well Coordinate Number	Date of Collection	Specific Conductance (Microhohs at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(P-12-1)36bbb	10/27/49	495	22		49	23		23		266	3.1	32	0.4	0.0	284*	217	19	GS
(P-12-1)36bbb	8/21/50	499	23					28		263	1.0	35	0.3	0.0		206	23	GS
(P-12-1)36bbb	8/14/51	498								266		34						GS
(P-13-1)25bab-1	10/27/49	1,300	24					187		358	3.0	250	0.2	0.0		244	62	GS
(P-13-1)25bab-1	8/21/50	1,330	26	0.30	46	31		190		359	1.2	255	0.2	0.4	707	242	63	GS
(P-13-1)25bab-1	8/14/51	1,310	24		44	31	182		6.1	358	1.1	255	0.3	0.3	720*	238	62	GS
(P-13-1)25bab-1	6/29/52	1,320								357								GS
(P-13-1)25bab-1	2/23/54	1,360			49	42	189		5.9	377	0.0	258			700		58	AC
(P-13-1)28aaa	7/16/48	1,180			88	27		118		290	8.2	241		0.7		330	44	GS
(P-13-1)28aaa	10/27/49	1,200	61					114		294	3.0	240	0.2	0.0		336	42	GS
(P-13-1)28abd-1	6/30/48	1,020			78	27		96		328	3.7	170	0.6	1.0		306	41	GS
(P-13-1)28abd-1	7/14/48	937			58	22		108	a/	273	2.8	172		1.0		235	50	GS
(P-13-1)28abd-1	10/27/49	1,020	56		81	25		94		326	1.2	170	0.6	0.0	588*	305	40	GS
(P-13-1)28abd-1	8/2/50	1,020	60					113		327	1.0	175	0.5	0.3		272	47	GS
(P-13-1)28abd-1	8/14/51	1,020								331		169						GS
(P-13-1)28abd-1	6/29/52	1,030								330								GS
(P-13-1)30acc	5/27/52	671	71	0.38	56	21	57		8.6	362	3.1	40	0.3	0.4	425	226	34	GS
(P-13-1)30cca			40	0.00	66	24		55			37	62	0.9	0.0	473	255		PH
(P-14-1)3	8/15/50		19	0.00	110	55		134		255	206	186.	0.0	13	918	500		PH

a/ includes equivalent of 11 ppm CO₃

REPORT OF STATE ENGINEER

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million												Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)				
(D-12-9)36c	11-22-48		8.3	0.0	64	20		18		285	34	10	0.2		318	244		PH
(D-13-7)5	3-12-41		8.8	0.0	79	25		11		317	41	11	0.1	0.0	339			PH
(D-13-8)1c	10-10-46		5.2	0.0	57	32		264		732	106	98	0.9	0.0	922	270		PH
(D-13-8)27	7-18-55		44	0.08	102	62		38		393	272	18	0.5	0.0	736	510		PH
(D-13-9)9	3-19-41		12	0	147	139		64		518	559	50	0.6	5.4	1490	933		PH
(D-13-9)15	11-22-48		6.0	0	47	34		6.9		305	8.8	9.0	0.1	0	278	256		PH
(D-13-10)21	4-6-41		7.0	0.1	120	252		422		640	1510	116	1.6	0	3080			PH
(D-14-9)1	9-6-52		20	0.13	204	84		90		422	612	37	0.8	17	1660	854		PH
(D-14-10)	4-12-51		16	0.11	310	284		386		537	2060	30	0.4	1.0	3410	1780		PH
(D-14-14)32	7-17-53		4.4	0.05	8.0	5.5		689		1590	128	122	2.3	0.8	1720	42		PH
(D-14-14)32	3-18-53		14	0.87	61	67		47		384	186	15	0.1	0.2	601	429		PH
(D-15-8)8	4-26-54			0.31						569		16			1860			PH
(D-15-8)8	2-13-56		40	0.09	154	93		198		937	378	24	0.4	2.8	942	770		PH
(D-15-8)33	2-28-52		3.5	2.4	92	8.9		20		320	10	24		0.2	284	261		PH
(D-15-10)12a	6-9-52		31	0.86	215	19		238		562	758	43	0.4	0.5	1710	739		PH
(D-15-10)30			20	0.45	450	24		58		309	1300	183	0.4	0.4	2280	1230		PH
(D-15-14)6cbd-1	5-52		17	0.24	67	40		54		341	146	7.3	0.3	4.4	490	389		PH
(D-15-17)	9-24-48	912	9.6		66	30		93		200	238	55		1.4	592*	288	41	GS
(D-15-17)	9-24-48	643	26		48	35		53		332	92	6		2.3	425*	264	30	GS

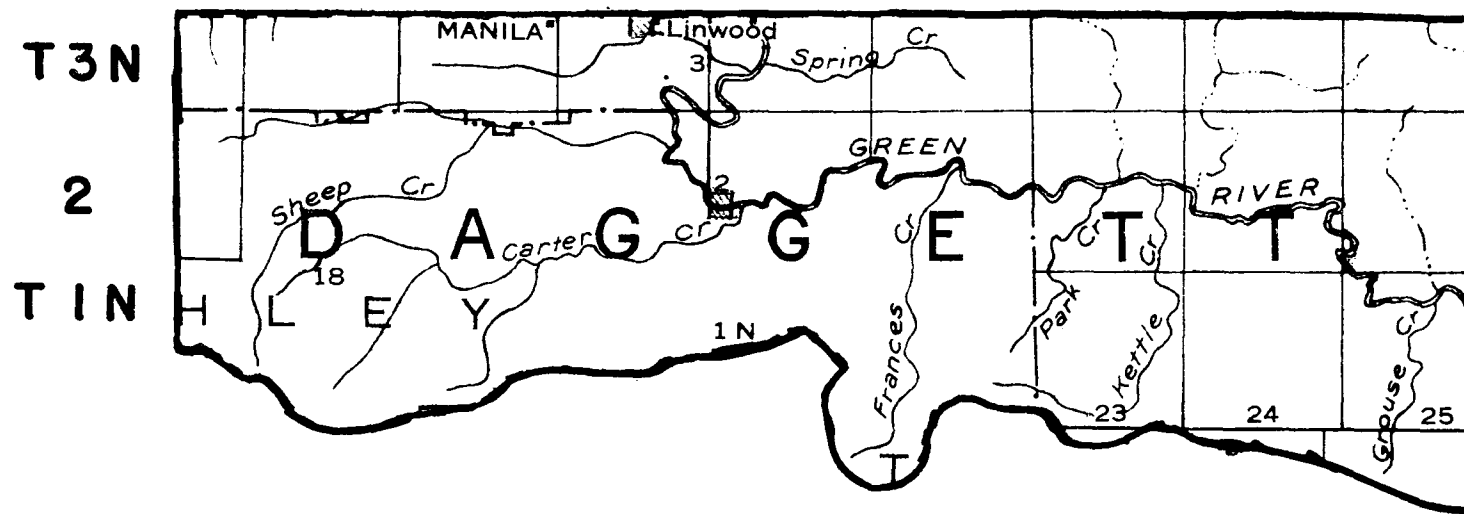
*A includes 29 ppm of CO₂

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-12-9)36c		Town of Helper			spring		P.S.		
(D-13-7)5 (Scofield Spr.)		Town of Scofield			spring		P.S.		
(D-13-8)1c		Utah Carbon Coal Co.			spring		dom.		
(D-13-8)27		Coal City	10'X 10'	20	dug		dom.		
(D-13-9)9		Liberty Fuel Co.	5'X 5'	60	dug		P.S.		
(D-13-9)15 (Clear Creek Spr.)		Town of Helper			spring		P.S.		
(D-13-10)21		Kenilworth Mine			spring		Ind.		
(D-14-9)1		Price Country Club			spring		none		
(D-14-10)		H.D. Balafota			well		stock		
(D-14-14)32		Spring Canyon Coal Co.			spring		baths		
(D-14-14)32		Kaiser Steel Co.			spring		P.S*		
(D-15-8)8		Lion Coal Corp.			spring		none		
(D-15-8)8		Lion Coal Corp.			spring		none		
(D-15-8)33 (So. Fork Spr.)		U.S. Fuel Co.			spring		P.S.		
(D-15-10)12a					spring		none		
(D-15-10)30		G.F. Oliver			well		dom.		
(D-15-14)6cdd-1 A- 15168		Geneva Steel Co.	8	40	drilled		dom.		
(D-15-17) (Flat Canyon Seep)					seep		none		
(D-15-17) (Flat Canyon Spr.)					spring		none		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(A-2-21)19d (A-3-20)15ad		G. C. Rasmussen			Spring Dug well		Stock		

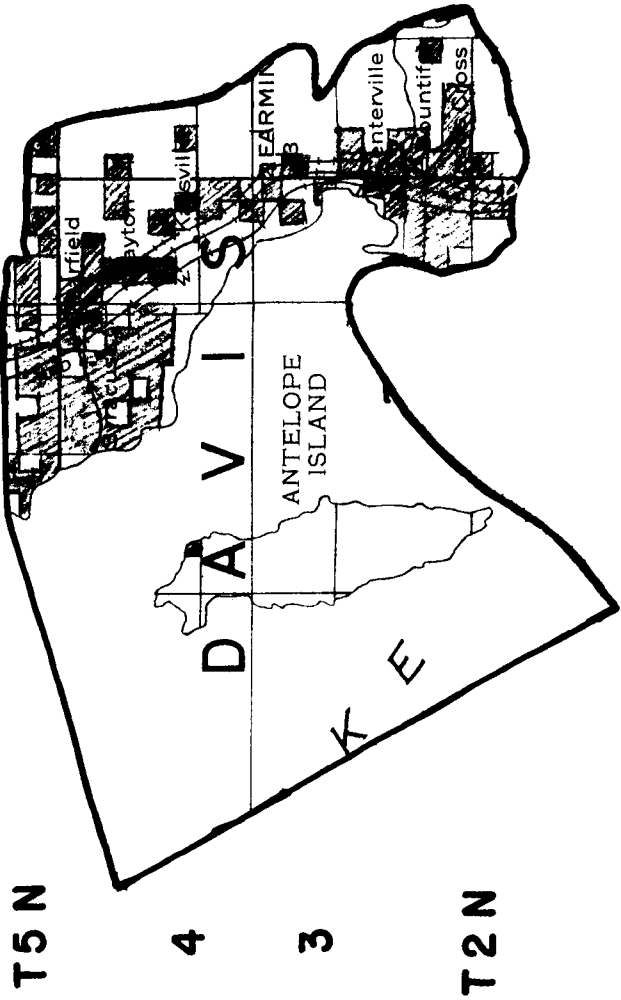
Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million											Percent Sodium	Analysis By		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)			Nitrate (NO ₃)	Total Dissolved Solids
(A-2-21)19d	9-14-48	112	9.3		20	7.0			50	21	2.0		0.8				GS
(A-3-20)15ad	8-19-53	3,680	22		320	184	422	454	1,760	189			2.0	3,120*	79	37	GS

R 17E 18 19 20 21 22 23 24 R 25E



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(A-1-1)6aaa-1	A-18485	Val Verde Water Co.	8 1/4	R 320	Drilled		P. S.	6-19-47	- 36.39
(A-1-1)6acb-1	A-11807	Dair Lives	8	R 404	Drilled	1947	Dom.	8-29-47	-270.82
(A-2-1)5bbb-DVS	C-20698	Val Verua Water Co.			Spring		P. S.		
(A-2-1)6dcd-2	C-188	Zions Aid Society	1 3/4	R 60	Jetted	1900		4-20-54	+ 8.2
(A-2-1)7aba-4	C-14688	Kate M. Chase	3	R 450	Jetted	1930		4-8-49	+ 22.5
(A-2-1)7aba-6	C-14690	Kate M. Chase	1 1/2	R 80	Jetted	1895		4-9-46	+ 1.5
(A-2-1)7aca-4	C-12473	Wm. E. Cheney	2	R 61	Jetted	1900		4-12-47	+ 11.7
(A-2-1)7bdc-1	C-957	Wm. E. Cheney	3	R 400	Jetted	1925		11-20-47	+ 58.0
(A-2-1)7dba-2	C-2027	Orson U. James	2 1/2	R 138	Jetted	1934		12-11-47	+ 27.0
(A-2-1)7abd-T	C-6234	E. A. Tripp		Length 735	Tunnel				
(A-2-1)7bdc-T	C-12054T	S. E. Rose		Length 85	Tunnel		Dom. Irr.		
(A-2-1)7cad-DVS		R. Bedge			Spring				
(A-2-1)18aab-2	C-9315	Frank Earl	2 1/2	R 60	Drilled	1924		12-11-47	+ 7.2
(A-2-1)18abd-7	C-9744	Emma J. Barton	2	R 280	Jetted	1890		12-21-45	+ 20.9
(A-2-1)18cba-1	C-427	Albert Mann	2	R 100	Jetted			11-13-47	+ 20.8
(A-2-1)18cba-14	a-1854	Call	2	R 294	Jetted			5-15-45	+ 28.4
(A-2-1)18dcd-1	C-12039	J. C. Rangerter	3	R 140	Jetted	1926		12-11-47	- 7.02
(A-2-1)19aad-1	C-2059	Bountiful City Corp.	8	R 255	Drilled	1912	P. S.	4-25-46	- 59.15
(A-2-1)19dbc-1	C-1447	Bountiful City Corp.	12 3/4-8 1/2	R 380	Drilled	1934	P. S.	12-20-50	- 64.87
(A-2-1)20caa-D	C-12087D	Bountiful City Farm	6	Length 200	Drain				
(A-2-1)20cdc-D	C-1442D	Fredrick Riley	6	Length 150	Drain				
(A-2-1)25dcd-1	A-25153	Daley and Prows Inc.	8	R 252	Drilled	1951	P. S.		
(A-2-1)30acd-1	A-20412	Bountiful City Corp.	15		Drilled				
(A-2-1)31ada-1	A-17511	R. N. Schluter	6	R 195	Drilled	1946		4-8-52	-125.30
(A-2-1)31bbc-1	A-17373	Peter J. Taft	3	R 139	Jetted		Dom.		
(A-2-1)31caa-1	A-17634	H. E. Calder	10	R 294	Drilled	1946	Dom.	3-26-51	-154.77
(A-2-1)31cbb-1	A-17543	Adair	6	R 290	Drilled			12-27-46	-146.00
(A-2-1)31cdd-2	A-17781	Ward Holbrook	8	R 284	Drilled			12-16-49	-174.40
(A-2-1)32bdc-D	A-15813D	Wallace Askdawn	4		Drain				
(A-2-1)32ccb-1		Harold Calder	8	R 412	Drilled				
(A-2-1)33 (Maple Hollow Spring)		Seth M. Oberg			Spring				
(A-2-1)33cdd-DVS		South Bountiful			Spring		P. S.		
(A-3-1)30bad-1	C-12071	David Rice	7	R 120	Drilled				
(A-3-1)30cab-4	C-2632-R	Howard S. Hughes	2	R 72	Jetted	1905			
(A-4-1)18 (Haystack Peak Spring)		East Layton			Spring		P. S.		

R 4 W 3 2 R 1 W R 1 E



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-2-1)25cac-1	C-7550	A. D. Behle	2	R 110	Jetted	1900	Irr.		
(B-2-1)25cac-2	C-12874	Mrs. Hattie Tovey	2	R 108	Jetted			3-10-47	+ 17.5
(B-2-1)26cac-3	C-12512	J. H. Layton	2	R 163	Jetted	1916	Irr.	6-3-47	+ 37.1
(B-2-1)26cac-1	C-3656	N. L. Starrs	3	R 250	Jetted	1924	Irr.	12-9-54	+ 35.2
(B-2-1)26cac-2	A-16344	C. L. Mills	2	R 187	Jetted	1945		10-17-45	+ 3.0
(B-2-1)26cac-5	C-12495	Ancel Hatch	4	M 272	Drilled	1928		5-27-36	+ 24.7
(B-2-1)26cac-7	A-13190	Ancel Hatch	3	R 490	Drilled	1936		10-17-45	+ 35.1
(B-2-1)26bba-1	A-13190	Ancel Hatch	3	R 515	Jetted				
(B-2-1)26bdd-5	C-8025	Perry Burham	3	R 400	Jetted	1910			
(B-2-1)26cac-1	C-12075	Willie R. Page	2	M 201	Jetted			4-9-36	+ 18.6
(B-2-1)26dad-4	C-14684	W. H. Argyle	2	R 160	Jetted	1895		3-27-36	+ 19.2
(B-2-1)26dca-3	C-5398	Thalman, Nelson, Miles, Jensen &	4	R 210	Jetted	1925	Irr.		
(B-2-1)26dec		Utah State Fish & Game	6-4	R1220	Drilled				
(B-2-1)26dec-1	C-5400	Thalman, Nelson, Miles, Jensen &	4	R 200	Jetted		Irr.		
(B-2-1)26dda-2	C-11306	W. A. White Car	3	R 300	Jetted	1920		12-9-54	+ 4.57
(B-2-1)27ada-1	C-12842	C. A. Carlquist	10	R 100	Bored	1885			
(B-2-1)27ddd-4	C-12034	A. Thalman	3	R 500	Jetted	1885		12-16-49	+ 35.0
(B-2-1)28aca-1	C-15130	Utah Hunting & Imp. Club	3	R 412	Jetted	1930			
(B-2-1)34ada-3	C-90308	M. H. Dearden	2		Jetted	1896		12-16-49	+ 20.7
(B-2-1)35ada		Sure Seal Corp.		R 500	Drilled				
(B-2-1)35ada-6	C-949	A. J. Lemon	2	R 225	Jetted	1907	Dom.	4-22-46	+ 14.8
(B-2-1)35caa-1	C-12104	Wm. Moss	3	R 200	Jetted			4-24-46	+ 39.5
(B-2-1)35ddb-DVS					Spring				
(B-2-1)35ddb-2 DS		J. H. Howard	3	R 180	Jetted	1890			
(B-2-1)36bda-7	C-21074	J. Hatch	3 1/2	R 84	Jetted		Dom.		
(B-2-1)36cad-5	A-17022	P. Schmidt	3	R 63	Jetted	1946		4-19-46	+ 27.26
(B-2-1)36cac-1	a-3128	North Salt Lake	12	R 640	Drilled		P. S.	7-22-54	-145
(B-2-1)36cac-3	a-2854	North Salt Lake	16	R 600	Drilled		P. S.		
(B-2-1)36cac-4	C-12609	North Salt Lake	12	R 275	Drilled		P. S.		
(B-2-1)36ccb-1	C-17108	E. T. Harwood	3	R 250	Drilled		Dom.	9-30-52	+ 5.85
(B-3-1)1bbc-1	A-24125	F. Nicholls	8	R 300	Drilled			9-21-53	-162.6
(B-3-1)2dcc-2	A-25729	O. Hollist	4	R 386	Drilled		Dom. St. Irr.		
(B-3-1)12acd					Spring				
(B-3-1)14abb-2	A-17935	V. T. Manning	2	R 329	Jetted		Dom. Irr. St.		
(B-3-1)14abb-3	A-26618	V. T. Manning	2	R 640	Jetted		St.		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(A-4-1)32 (Deer Canyon Spring)					Spring		Dom.		
(A-5-1)26		South Weber Township			Spring		P. S.		
(A-5-1)30d					Spring		Not used		
(B-1-1)1aea-1	A-17337	Noell		R 258	Drilled		Dom.	3-14-49	-167.60
(B-1-1)1abb-1		C. D. Peacock		R 52	Drilled				
(B-1-1)1bcb-1	A-14495	C. E. Jacox	2	R 150	Jetted		Dom.		
(B-1-1)2abd-1					Jetted				
(B-1-1)2aca-1	A-11901	R. C. Elliot	8½	R 325	Drilled		Ind.		
(B-1-1)2aca-1-"B"	a-1942	R. C. Elliot	6	R 447	Drilled		Ind.		
(B-1-1)2aca-2	A-18298	R. C. Elliot	6	R 645	Drilled		Ind.		
(B-1-1)11caa-1	C-19607	C. L. Mills	1½	R 75	Driven	1897		10-22-47	+ 1.35
(B-1-1)12bdc-1		White Hill Sand & Gravel Co.			Sump				
(B-2-1)12cda-1	C-17917	H. E. Parrish	2	R 75	Jetted			4-16-46	+ 5.3
(B-2-1)12dad-1	DS	Alice Chegeng	1½		Jetted				
(B-2-1)13aat-1	A-17402	L. Napoli	2	R 268	Jetted			12-12-47	+ 36.1
(B-2-1)13aco-2	C-15404	Lewis Reed	2	R 180	Drilled	1935		4-25-47	+ 43.3
(B-2-1)13bbb-3	C-9590	L. C. Wcoley	8	R 800	Drilled	1893			
(B-2-1)13caa-2	A-14810	A. W. Seequist	2	R 227	Jetted	1943		6-3-47	+ 42.4
(B-2-1)13dad-1	C-449	W. W. Pull	2	R 162	Jetted	1912		12-12-47	+ 23.1
(B-2-1)14aaa-2	C-12885	F. S. Peterson	2½	R 308	Jetted			10-16-45	+ 37.5
(B-2-1)21dcb-1		Duck Club	2	R 454	Jetted	1905		3-25-36	+ 38.8
(B-2-1)22dad-1	C-12493	Ansell Hatch	3	R 365	Drilled			10-22-47	+ 27.7
(B-2-1)22dad-1	C-1438	L. Heworth	3	R 600	Jetted	1919		9-20-45	+ 60.0
(B-2-1)23daa-1	C-1433	O. W. Ellis	3	R 300	Jetted	1912		10-17-45	+ 57.4
(B-2-1)23daa-2	C-12877	L. T. Mitchell	2	R 167	Jetted	1926		10-17-45	+ 35.4
(B-2-1)23dda-1		E. T. Herwood	3	R 365	Drilled		Dom. Irr.		
(B-2-1)24aaa-7	A-15555	Erma Pull	2	R 268	Jetted		Dom.	6-24-46	+ 21.7
(B-2-1)24add-5	a-2015			R 168	Jetted				
(B-2-1)24dad-2	C-2675	Gull	3	R 383	Jetted	1919	Dom.	5-4-45	+ 43.7
(B-2-1)24dad-13	C-12585	Geo. Stevens	2	R 100	Jetted		Dom.	4-28-47	+ 27.4
(B-2-1)24ddd-10	a-2016	Wesatch Oil Co.	10-6	R 534	Drilled	1947	Ind.	9-27-47	+ 11.5
(B-2-1)24ddd-1	A-17224	Price	3	R 84	Drilled	1946		2-18-46	- 30.25
(B-2-1)25baa-1	C-11299	J. H. Day	3	R 262	Jetted	1931	Dom.	2-31-47	+ 21.8
(B-2-1)25bbc-7	a-1900	Mary S. Platt	2	R 208	Jetted			10-6-47	+ 29.8
(B-2-1)25bba-1	DS	R. Hatch	2	R 85	Jetted			12-12-47	+ 16.2

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-4-2)15dad-2	*R-C-20303	D. Thurgood	2	R 544	Jetted		Dom. St.		
(B-4-2)16add-4	DS	J. A. Barber	1½	R 180	Jetted				
(B-4-2)16bdb-D	C-12557-D	W. Criddle	8	Length 4455	Drain		St.		
(B-4-2)16ddd-1	C-14735	G. A. Hampton	2	R 535	Jetted		Dom. St. Irr.		
(B-4-2)18ddd-2	DS	S. A. Miller	1½	R 150	Jetted				
(B-4-2)19odd-1		M. Davis	2	R 450	Jetted				
(B-4-2)20bba-4	C-11331	Ray Clontz	2	R 588	Jetted		Dom. St. Irr.		
(B-4-2) 20daa-1	C-7170	A. W. Trees	2	R 685	Jetted		Dom. St. Irr.		
(B-4-2)22dad-1	C-7830	S. R. Corbridge	2	R 120	Jetted		Dom. St.		
(B-4-2)23cda-2	C-7828	S. R. Corbridge	1½	R 230	Jetted		Dom.		
(B-4-2)23dcc-1	C-789	Irene Doney	2	R 475	Jetted			3-9-54	+ 41.6
(B-4-2)24bbb	C-20351	Orson M. Page	2	R 551	Jetted		Dom. St.	11-5-54	- 18.5
(B-4-2)25daa-1	C-11266-R	O. C. Neville	2	R 579	Jetted		Dom. Irr.		
(B-4-2)26aaa-2	A-24153	W. R. Bone	2	R 597	Jetted		Dom. St. Irr.	11-5-54	+ 31.5
(B-4-2)26bab-1	A-15151	E. P. Moss	2	R 442	Jetted		Dom. St. Irr.		
(B-4-2)27bbd-1	C-15278	J. B. Smith	1½	R 250	Jetted		St.		
(B-4-3)14aba-1	A-20052	A. T. Smith	2	R 143	Jetted		Misc.		
(B-5-1)27dcd	Test well	USBR		R 350	Drilled		Obs.	10-30-53	- 180.0
(B-5-1)29bbb-1	A-12062	H. Kendall	2	R 203	Jetted		Dom. St. Irr.	2-14-56	- 100.0
(B-5-1)29bdb-1	A-14202	Hill Field A.F.B.	6	R 554	Drilled		Dom. Ind.		
(B-5-1)29bdb-1	A-14202	Hill Field A.F.B.	20	R 800	Drilled	1941	Dom. Ind.		
(B-5-1)29bdc-1	A-14202	Hill Field A.F.B.	20	R 627	Drilled		Dom. Ind.		
(B-5-1)30aad-1	A-22495	Ogden Arsenal	20	R 900	Drilled		Dom.		
(B-5-1)30add	A-14499	Ogden Arsenal	20-16	R 900	Drilled	1942	Ind.	5-7-42	- 461.0
(B-5-1)33cda-1	A-16601	Hill Field A.F.B.	20-16	R 730	Drilled		Dom. Ind.		
(B-5-1)34abb-1	C-15100	C. Byran	4	R 70	Drilled		Dom. St. Irr.		
(B-5-1)36a (Military Spr.)		Ogden Arsenal			Spring		Dom. Ind.		
(B-5-1)36bbb-1	A-25140	USBR	8	R 300	Drilled	1952	Test well	12-1-53	- 180.0
(B-5-1)36dbb-DVS		Smith & Schmalz			Spring				
(B-5-2)25bbc-1	A-11838	Town of Sunset	12	R 505	Drilled	1934	P. S.	7-1-44	- 269.37
(B-5-2)25bcb-2	A-15641	Town of Sunset	10	R 704	Drilled		P. S.		
(B-5-2)27acc		L. H. Wallace		R 70	Jetted				
(B-5-2)28baa	C-18407	J. Parker	2	R 70	Jetted		Dom.		
(B-5-2)28ebb-1	DS	D. Flinder	1½	R 65	Jetted			2-20-56	+ 4.0
(B-5-2)30bda-2	A-15403	J. A. Johnston	2	R 645	Jetted		Dom. St. Irr.		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-3-1)24bbd-2	C-1364	F. Richards	4	R 176	Drilled		Dom. St.		
(B-3-1)24caa-1	C-1253	E. Whittaker	3	R 208	Drilled		St. Irr.		
(B-3-1)26cba-1	A-26908	Thermal Well	12	R 350	Drilled		Misc.		
(B-3-1)26bda	Test well	Hickey Oil Co.		R3000	Drilled		Oil test		
(B-3-1)36ddd	Test well	Hickey Oil Co.		R2060	Drilled		Oil test		
(B-3-3)33dc (Garden Creek Spr)		On Antelope Island			Spring				
(B-4-1)6dcd-1	A-27147	Hill Field Air Force Base	12	R 805	Drilled	1955	Dom.		
(B-4-1)7dad-D	C-9175D	A. J. Morgan			Drain		Dom.		
(B-4-1)7dda-D	C-11294	J. A. Allen			Drain		Dom.		
(B-4-1)8ccc-D	C-12043	Thomas R. Jones			Drain		Dom.		
(B-4-1)9ebb-1	C-12019	W. E. Evans	48x48	R 25	Dug		Stock Dom.		
(B-4-1)13bbc-1	A-23844	L. G. Morgan	8	R 127	Drilled		Dom. St. Irr.	9-15-53	- 115
(B-4-1)14aad-1	A-19584	Dahl Clark	6	R 171	Drilled		Dom. St. Irr.		
(B-4-1)17ab-D	C-12523	J. I. Adams			Drain		Dom.		
(B-4-1)17dca-1	A-14717	USDA	8 1/2-6 1/2	R 536	Drilled		Dom.		
(B-4-1)20ebb-1	A-24780	Layton Sugar Co.	12	R 572	Drilled		Ind.	3-9-54	- 35.2
(B-4-1)27ddd-1	A-17692	M. V. Sanders	4	R 625	Drilled		Misc.		
(B-4-1)27ddd-2	A-26700	Hod Sanders	6	R 151	Drilled		P. S.		
(B-4-1)29ccc-1	C-12461	L. Hill	2	R 483	Jetted		Dom. St.		
(B-4-1)35bdd-1	A-22136	Town of Keysville	12	R 200	Drilled		P. S.		
(B-4-2)1acd-1	A-15027	Town of Clearfield	10	R 800	Drilled		P. S.		
(B-4-2)2dad-2	A-15209	Smith Canning Co.	10-8	R 675	Drilled		Ind.	11-5-54	- 137.2
(B-4-2)4cdd-2	C-14663	L. Warren	2	R 660	Jetted		Dom. Irr		
(B-4-2)5ddd-1	A-11792	G. Shamada	2	R 647	Jetted			2-23-56	+ 20
(B-4-2)6bad-1	A-26545	M. Francisco	2	R 323	Jetted			2-23-56	+ 22
(B-4-2)6dcb-1	C-13452	L. Graythorn	1 1/2	R 140	Jetted				
(B-4-2)7bdc-3	C-13454-R	Geo. Payne	2	R 577	Jetted			3-9-54	+ 61
(B-4-2)7ccc-1	C-13412	Morton Salt	1 1/2	R 190	Jetted		Stock		
(B-4-2)8bbc-4	C-2830-R	W. W. Tree	2	R 626	Jetted		Dom. Irr.		
(B-4-2)8dcc-1	A-16599	C. McBride	2	R 622	Jetted		Dom. St.		
(B-4-2)9caa-1	C-11285	A. D. Miller	2	R 700	Jetted		Irr.		
(B-4-2)9cdc-1	C-12508	G. Briggs	2	R 260	Jetted		Dom. St.	2-24-56	+ 2.0
(B-4-2)10daa-1	C-8143	Town of Syracuse	12-6	R 777	Drilled	1935	P. S.	4-16-43	- 34.68
(B-4-2)12bbb-1	A-14941	Clearfield Naval Supply Depot 20-14		R 745	Drilled		Ind.		
(B-4-2)14add-1	A-21490	Yasaburo Yamane		R 562	Drilled		St. Irr.		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)					
(A-1-1)6aaa-1	8/8/47	658	13		65	39		23		354	19	44		0.2	376*	322	13	GS	
(A-1-1)6aaa-1	8/14/47		3.8	0.00	35	23					31	29	0.2		277	180		PH	
(A-1-1)6ecb-1	1/2/48	612	12		70	20		36		292	25	44		9.2	360*	256	23	GS	
(A-2-1)5bbbDVS	3/21/41		5.7	0.00	84	31		22		378	38	34	0.0	0.0	410	336		PH	
(A-2-1)6dcd-2	4/20/54	307	17		27	10	17		2.0	111	34	156		3.7	189	109	25	BR	
(A-2-1)7aba-4	9/8/47	338	23		30	7.9		23		140	16	18		2.1	189*	108	32	GS	
(A-2-1)7aba-6	9/8/47	307	19		36	9.5		14		132	27	16		1.8	188*	129	19	GS	
(A-2-1)7aca-4	6/27/47	256	16		25	10		15		108	28	13		0.3	160*	104	24	GS	
(A-2-1)7bdc-1	6/27/47	243	4.1		2.5	2.0		50	a/	94	2.5	30		0.2	138*	14	89	GS	
(A-2-1)7dba-2	6/27/47	250	20		16	12		21		118	13	16		2.5	159*	90	33	GS	
(A-2-1)17abdT	8/28/47	305	15		30	11		20		106	45	20		2.5	196*	120	27	GS	
(A-2-1)17bdc-T	8/29/47	365	12		39	15		15		160	31	18		3.5	212*	159	17	GS	
(A-2-1)17cad-S	8/29/47	565	17		47	17		27		192	53	24		0.1	280*	188	24	GS	
(A-2-1)18aab-2	5/9/47	185	17		20	7.4		9.7		78	20	11		1.4	125*	80	21	GS	
(A-2-1)18abd-7	5/9/47	324	20		32	14		17		134	26	21		10	206*	138	21	GS	
(A-2-1)18cba-1	6/27/47	386	19		40	15		20		160	23	32		5.4	233*	162	21	GS	
(A-2-1)18cba-14	6/27/47	371	22		14	3.7		68		175	16	27		0.3	237*	50	75	GS	
(A-2-1)18cd-1	9/8/47	783	19		81	31		34		176	119	84		22	477*	330	18	GS	
(A-2-1)19aad-1	8/8/47	708	21		71	23		43		197	94	66		16	431*	272	26	GS	
(A-2-1)19aad-1	9/8/47	972	19		154	29		1.4		228	149	114		4.0	583*	503	1	GS	
(A-2-1)19aad-1	8/17/51		21	0.08	57	24		45		196	87	52	0.1	33	390	239		PH	
(A-2-1)19dbc-1	8/8/47	604	22		69	19		30		232	42	45		22	363*	250	21	GS	
(A-2-1)20caa-D	6/27/47	227	17		22	6.7		15		97	22	7.0		3.3	141*	82	28	GS	
(A-2-1)20cdc-D	3/8/47	428	25		62	13		9.7		200	31	14		16	269*	208	9	GS	
(A-2-1)25dcd-1	3/15/51		17	0.00	48	37		58		232	54	95	0.1	0.1	459	271		PH	
(A-2-1)30acd-1	8/17/51		20	0.06	70	16		45		198	55	52	0.3	20	409	240		PH	
(A-2-1)31ada-1	8/8/47	588	14		75	22		22		296	37	30		1.9	348*	278	15	GS	
(A-2-1)31bbc-1	8/8/47	1300	13		113	40		119		380	169	133		38	812*	446	37	GS	
(A-2-1)31caa-1	6/27/47	668	13		78	26		31		336	27	41		8.1	390*	302	18	GS	
(A-2-1)31cbb-1	8/8/47	632	18		59	17		54		274	22	58		6.4	369*	217	35	GS	

a/ includes equivalent of 22 ppm CO₂

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-5-2)30cbe-1	A-17715	G. Q. Bennett	2	R 161	Jetted		St. Irr.	2-14-56	+ 13.5
(B-5-2)31cbe-4	C-6118-R	A. T. Bingham	2	R 726	Jetted		Dom. Irr.		
(B-5-2)31dbe-1	A-2340	D. King	2	R 327	Jetted		Dom. St. Irr.		
(B-5-2)31ddd-1	C-15303	M. Dalton	1½	R 650	Jetted		Irr. St.	2-24-56	+ 2.0
(B-5-2)32aba-1	A-17486	L. E. Holt	3	R 713	Drilled		Dom.		
(B-5-2)32beb-2	A-12974	M. Bennett	2	R 690	Jetted				
(B-5-2)32ddd-1	A-27260	Town of West Point	10	R 800	Drilled		P. S.		
(B-5-2)33acc		K. Hare		R 30	Dug			2-24-56	- 10.0
(B-5-2)33ddc-1	C-8149	Town of West Point	12	R 808	Drilled		P. S.	3-9-54	- 25.6
(B-5-2)34add		L. Bingham	42	R 60	Dug			2-24-56	- 40.0
(B-5-3)23bda-1		H. Fowers		R 508	Drilled				
(B-5-3)24dad-1	C-14920	G. Fowers	1½	R 200	Jetted		Dom. St.		
(B-5-3)24dad-2	A-16586	G. Fowers	2	R 593	Jetted		Dom. St. Irr.		
(B-5-3)26sas-1	C-19030	Wm. Craythorn	2	R 575	Jetted		Dom. St. Irr.		
(B-5-3)27c (Hooper Hot. Spr.)		(Hottest Office)			Spring				
(B-5-3)27c (Hooper Hot Spring Discharge Channel)					Spring				
(B-5-3)27cab (Tule Grown Mound Spr.)					Spring				
(B-5-3)27cac	Test well	USBR		R 206	Drilled		Test well		
(B-5-3)28db (S.W. Hooper Hot Spr.)					Spring				
(B-5-3)36aad-1	C-5424	A. S. Anderson	1½	R 370	Jetted		Dom. St. Irr.		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(B-2-1)22dcd-1	1/2/48	573	24		35	11		74		224	11	70		0.1	335*	132	55	GS
(B-2-1)23bdd-1	6/26/47	872	25		53	13		111		212	14	170		0.0	490*	186	57	GS
(B-2-1)23daa-1	5/9/47	399	9.5		18	3.9		70		201	13	24		1.8	239*	61	71	GS
(B-2-1)23daa-2	5/9/47	492	8.9		44	8.7		54		213	31	36		6.1	294*	146	44	GS
(B-2-1)23dda-1	9/17/50		12	0.10	79	62		124		291	229	155	0.1	29	856	454		PH
(B-2-1)24aaa-7	5/9/47	322	11		26	12		26		149	9.9	24		4.2	186*	114	33	GS
(B-2-1)24add-5	10/15/47	690	17		74	26		35		230	77	58		22	422*	292	21	GS
(B-2-1)24bad-2	5/9/47	369	9.7		16	3.5		66		181	11	26		1.3	223*	54	72	GS
(B-2-1)24bed-13	5/9/47	811	9.0		94	29		39		265	97	68		30	496*	354	19	GS
(B-2-1)24edd-10	8/21/47	667	16		84	26		24		260	72	50		13	413*	316	14	GS
(B-2-1)24edd-10	9/9/47	678	18		63	30		30		144	97	82		15	406*	280	19	GS
(B-2-1)24edd-10	9/27/47	366	17		54	9.4		12		184	10	24		3.1	220*	173	13	GS
(B-2-1)24ddd-1	8/8/47	1040	16		125	32		51		285	136	115		21	636*	444	20	GS
(B-2-1)25bab-1	6/27/47	677	16		78	26		26		231	67	64		11	402*	302	16	GS
(B-2-1)25bbc-7	8/8/47	806	19		86	29		44		262	89	77		16	489*	334	22	GS
(B-2-1)25bbd-1	6/27/47	819	16		82	30		46		261	86	80		15	484*	328	23	GS
(B-2-1)25cac-1	8/8/47	1470	19		160	51		89		410	208	160		29	918*	608	24	GS
(B-2-1)25cbc-2	6/27/47	1300	16		137	49		80		391	181	139		15	810*	544	24	GS
(B-2-1)26aaa-3	5/9/47	800	8.2		87	30		40		275	80	75		15	471*	340	20	GS
(B-2-1)26aad-1	5/9/47	484	7.8		37	13		49		190	31	41		9.0	281*	146	42	GS
(B-2-1)26aad-1	8/8/47	494	19		47	15		37		191	33	44		9.6	299*	179	31	GS
(B-2-1)26adc-2	8/8/47	949	17		85	28		77		278	104	104		15	567*	327	34	GS
(B-2-1)26beb-5	6/26/47	551	18		22	6.3		95		224	26	52		4.3	334*	81	72	GS
(B-2-1)26beb-7	6/26/47	1190	17		52	15		174		198	24	271		0.0	650*	191	66	GS
(B-2-1)26bba-1	6/26/47	631	18		38	9.0		84		180	15	107		1.4	361*	132	58	GS
(B-2-1)26bdd-5	6/26/47	766	16		20	6.6		140		204	20	135		2.3	440*	77	80	GS
(B-2-1)26cac-1	6/26/47	1380	17		40	12		230		174	8.6	354		0.2	748*	150	77	GS
(B-2-1)26dad-4	6/27/47	937	16		94	35		56		310	96	96		14	560*	378	24	GS
(B-2-1)26dca-3	6/26/47	505	15		15	0.9		103		228	11	46		1.2	304*	41	84	GS
(B-2-1)26dca-3	8/8/47	531	16		15	3.4		103		224	12	56		1.5	317*	52	81	GS

a/ includes equivalent of 18 ppm CO₂

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(A-2-1)31cdd-2	8/8/47	641	18		78	24		27		326	24	37		8.7	377*	293	17	BR
(A-2-1)32bdc-D	8/29/47	566	22		73	23		25		320	21	30		4.2	356*	276	16	GS
(A-2-1)32ccb-1	5/13/51		16	0.07	70	24		42		276	24	38	0.4	27	396	276		PH
(A-2-1)33	1/4/56		16	0.70	74	22		56		390	34	28	0.2	0.4	404	314		PH
(A-2-1)34cdd-DVS	12/8/51		9.1	0.10	11	3.6		6.6		57	6.0	5.5	0.1	1.5	70	42		PH
(A-3-1)30bad-1	7/9/54	360	20		34	10	20		2.7	140	31	18			205	127	25	BR
(A-3-1)30cab-4	7/9/54	359					54		2.0	116	31	37			190			BR
(A-4-1)18	5/23/38		7.3	0.00	18	2.9		9.4		66	8.8	10			97			PH
(A-4-1)32	11/17/50		11	0.00	11	6.0		18		68	19	9.7		1.5	106	51		PH
(A-5-1)26	2/6/51		10	0.05	17	3.3		15		65	24	6.7	0.0	2.2	90	56		PH
(A-5-1)30d	11/16/53	422	15		54	13	14		1.6	209	24	17		2.2	232	186	14	BR
(B-1-1)1aen-1	8/8/47	810	24		83	27		48		275	50	93		16	476*	318	25	GS
(B-1-1)1abb-1	9/8/47	1440	23		202	41		43		356	214	168		19	885*	672	12	GS
(B-1-1)1bcb-1	5/9/47	837	18		57	20		96		294	25	114		6.1	481*	224	48	GS
(B-1-1)2abd-1	9/19/47	771	42		46	15		108		354	0.7	86		0.2	472*	176	57	GS
(B-1-1)2aca-1	6/26/47	1540	22		64	21		226		224	45	355		8.6	852*	246	67	GS
(B-1-1)2aca-1*P*	6/26/47	2270	25		96	31		321		183	38	618		4.7	1220*	367	66	GS
(B-1-1)2acc-2	6/26/47	3700	19		181	57		501		114	15	1180		1.9	2010*	686	61	GS
(B-1-1)11caa-1	8/11/47	829	49		73	25		68		360	4.5	94		2.0	493*	285	34	GS
(B-1-1)12bdc-1	9/9/47	617	65		117	16		10		216	58	62		4.8	429*	358		GS
(B-2-1)12cda-1	6/26/47	470	45		25	10		69		256	3.3	28		0.2	307*	104	59	GS
(B-2-1)12ded-1	8/8/47	436	59		18	7.0		75		254	3.3	18		0.2	306*	74	69	GS
(B-2-1)13aab-1	5/9/47	381	23		12	3.5		80		a/ 193	15	30		1.7	260*	44	80	GS
(B-2-1)13acc-2	5/9/47	645	21		72	25		26		194	78	62		15	395*	282	17	GS
(B-2-1)13bbb-3	6/26/47	977	29		70	9.8		121		240	9.1	193		0.0	550*	215	55	GS
(B-2-1)13caa-2	5/9/47	333	20		20	4.8		51		163	12	24		0.0	212*	70	61	GS
(B-2-1)13ddd-1	5/9/47	752	9.6		82	33		25		202	102	74		22	447*	340	14	GS
(B-2-1)14aaa-2	6/26/47	390	21		24	5.5		60		214	4.9	23		0.1	244*	82	61	GS
(B-2-1)21dcb-1	6/26/47	844	29		29	16		148		441	2.5	68		0.8	510*	138	70	GS
(B-2-1)22dcd-1	9/9/47	565	19		144	9.0		10		232	4.1	72		0.2	363*	396		GS

a/ includes equivalent of 6.9 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis By		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃
(R-3-3)33dc	6/6/56	780	20		57	24	74		1.8	221	67	96		13	462*	240		GS
(R-4-1)6dcd-1	1/4/56	444			44	14	34		7.0	274		21			273	168	29	BR
(R-4-1)7dad-D	5/23/38		18	0.00	57	85		137		576	124	122		8.5	915	492		PH
(R-4-1)7dda-D	5/23/38		16	0.15	50	74		68			64	68		7.5	668	429		PH
(R-4-1)8ccc-D	5/23/38		29	0.20	66	75		83		576	83	124		5.0	867	565		PH
(R-4-1)8ccc-D	12/20/54	981	28		77	38	73		8.6	408	70	88	0.3	14	599	349	31	BR
(R-4-1)9cbb-1	9/15/53	1410	36		61	76	139		16	607	155	65	1.0	54	891	462	39	BR
(R-4-1)9cbb-1	2/16/55	1220	28		68	63	115		14	573	110	69	0.4	22	761	427	36	BR
(R-4-1)13bbc-1	9/15/53	232	14		23	5.0	9.4		1.2	104	10	11		5.2	136	79	20	BR
(R-4-1)14aad-1	9/15/53	331	17		39	11	13		1.2	187	9.1	9.6		4.8	174	125	17	BR
(R-4-1)17aba-D	5/23/38		29	0.10	88	62		58		528	82	56		3.5	720	476		PH
(R-4-1)17dca-1	11/12/55	291			35	8.2	13		0.8	154	4.8	15			159	122	19	BR
(R-4-1)20cbb-1	3/0/54	297	22		33	7.1	13		2.0	a/152		14			162	112	20	BR
(R-4-1)27ddd-1	2/21/55	585	18		53	23	48		3.5	315	31	22		5.6	349	227	31	BR
(R-4-1)27ddd-2	9/8/54		26	0.64	44	2.7		16		165	12	4.0	0.2	0.5	176	121		PH
(R-4-1)29ccc-1	11/17/55	287			34	7.6	20		1.6	152	15	15			156	117	27	BR
(R-4-1)35bdd-1	7/3/51		19	0.70	33	8.3		17		163	0.6	15	0.0	2.2	183	117		PH
(R-4-1)35bdd-1	2/16/55	377	20		34	15	21		2.0	174	27	18		0.2	215	147	23	BR
(R-4-1)35bdd-1	2/21/55	370	20		34	16	21		2.0	174	25	20		0.1	216	149	23	BR
(R-4-2)1acd-1	7/17/51		16	0.05	59	20		22			12	25	0.0	0.1	311	230		PH
(R-4-2)1acd-1	11/8/54	557	18		65	18	22		4.7	303	22	27	0.0	0.5	308	237	16	BR
(R-4-2)2dad-2	11/5/54	512	15		58	16	24		3.5	285	5.8	28	0.0	0.2	273	209	20	BR
(R-4-2)2dad-2	1/9/56	518			61	18	23		3.1	284	7.7	28			292	226	18	BR
(R-4-2)4cdd-2	2/23/56	481			51	15	28		4.7	276		27			294	188	24	BR
(R-4-2)5ddd-1	2/23/56	461			55	16	20		2.3	252	9.1	25			274	204	18	BR
(R-4-2)6bcd-1	2/23/56	474			49	14	33		3.5	269		26			280	180	28	BR
(R-4-2)6dcb-1	11/21/55	647			33	21	75		7.0	358		40			359	168	48	BR
(R-4-2)7bcd-3	3/9/54	468	19		51	16	22		2.7	253	14	22		0.1	259	191	20	BR
(R-4-2)7ccc-1	11/18/55	463			28	15	45		5.5	259		27			257	131	41	BR
(R-4-2)8bbc-4	2/14/56	519			29	15	64		6.6	290		34			297	133	50	BR

a/ includes equivalent of 16 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(P-2-1)26dec	3/28/56	1420			27	2.1	256		3.1	87	33	377			758	76	88	GS
(P-2-1)26dec-1	8/8/47	677	16		45	15		83		272	35	62		10	400*	174	51	GS
(P-2-1)26dda-2	5/9/47	561	7.8		60	23		31		296	16	32		8.6	324*	244	22	GS
(P-2-1)27ada-1	6/25/47	420	18		14	4.8		80		229	9.9	22		0.0	262*	54	76	GS
(P-2-1)27ddd-4	5/9/47	2100	8.2		66	20		331		125	3.3	610		0.0	1100*	246	74	GS
(P-2-1)28aca-1	9/9/47	702	27		21	8.7		127	a/	264	2.9	102		1.5	420*	88	76	GS
(P-2-1)34ada-3	5/9/47	958	8.9		36	10		161		264	55	141		10	552*	131	73	GS
(P-2-1)34ada-3	10/11/54	2250			84	23	305		4.7	152		620				306	68	BR
(P-2-1)35ada	10/11/54	952	19		70	33	68		3.9	234	84	136	0.0	10	578	312	32	BR
(P-2-1)35ada-6	5/10/47	1240	7.8		130	43		77		362	147	140		28	751*	502	25	GS
(P-2-1)35caa-1	6/26/47	918	19		74	24		90		270	84	115		9.0	548*	283	41	GS
(P-2-1)35ddb-DVS	8/18/47	3210	27		106	177		407		586	670	490		10	2180*	992	47	GS
(P-2-1)35ddb-2	8/18/47	1200	18							266	146	162		11				GS
(P-2-1)35ddb-2	9/19/47	1100	18		79	24		122		204	149	162		13	668*	296	47	GS
(P-2-1)36bda-7	9/8/47	4550	23		482	236		325		216	1720	635		19	3550*	2170	25	GS
(P-2-1)36cad-5	10/15/47	1220	19		124	38		89		306	177	148		18	764*	466	29	GS
(P-2-1)36cbc-1	7/22/54	1420	19		116	46	113		5.9	317	239	161	0.2	15	894	479	34	BR
(P-2-1)36cbc-3	9/10/54		18	0.89	112	45		144		334	253	163	2.0	13	965	466		PH
(P-2-1)36cbc-4	7/11/55		17	0.33	146	11		190		333	310	151	0.1	15	911	410		PH
(P-2-1)36ccb-1	9/17/50		2.5	0.00	92	61		135		311	240	170	0.2	31	912	480		PH
(P-3-1)1bhc-1	9/21/53	641	20		39	25	37	23		279	24	40	0.4	30	328	202	30	BR
(P-3-1)2dec-2	7/9/54	482	21		39	16	35		2.3	219	24	33	0.3		266	162	32	BR
(P-3-1)12acd	2/13/56	461			41	20	24		3.9	214	38	20			263	185	22	BR
(P-3-1)14abb-2	7/9/54	543	29		36	9.2	69		3.1	289	1.4	34	0.2	0.7	295	127	53	BR
(P-3-1)14abb-3	7/9/54	486	27		17	4.6	88		2.0	253	4.3	29	0.5	0.8	282	61	75	BR
(P-3-1)24bdd-2	7/9/54	887	25		62	13	119		2.7	499		51			509	209	55	BR
(P-3-1)24caa-1	7/9/54	1090	23		63	17	152		2.7	479	1.4	124			598	227	60	BR
(P-3-1)26cba-1	11/21/55	5610			205	4.1	942		12	51	34	1790			3270	530	79	BR
(P-3-1)26dba	10/11/55	1490			61	26	226		7.4	750		136			842	261	65	BR
(P-3-1)36ddd	10/12/55	1880			90	29	250		16	691		313				1020	60	BR

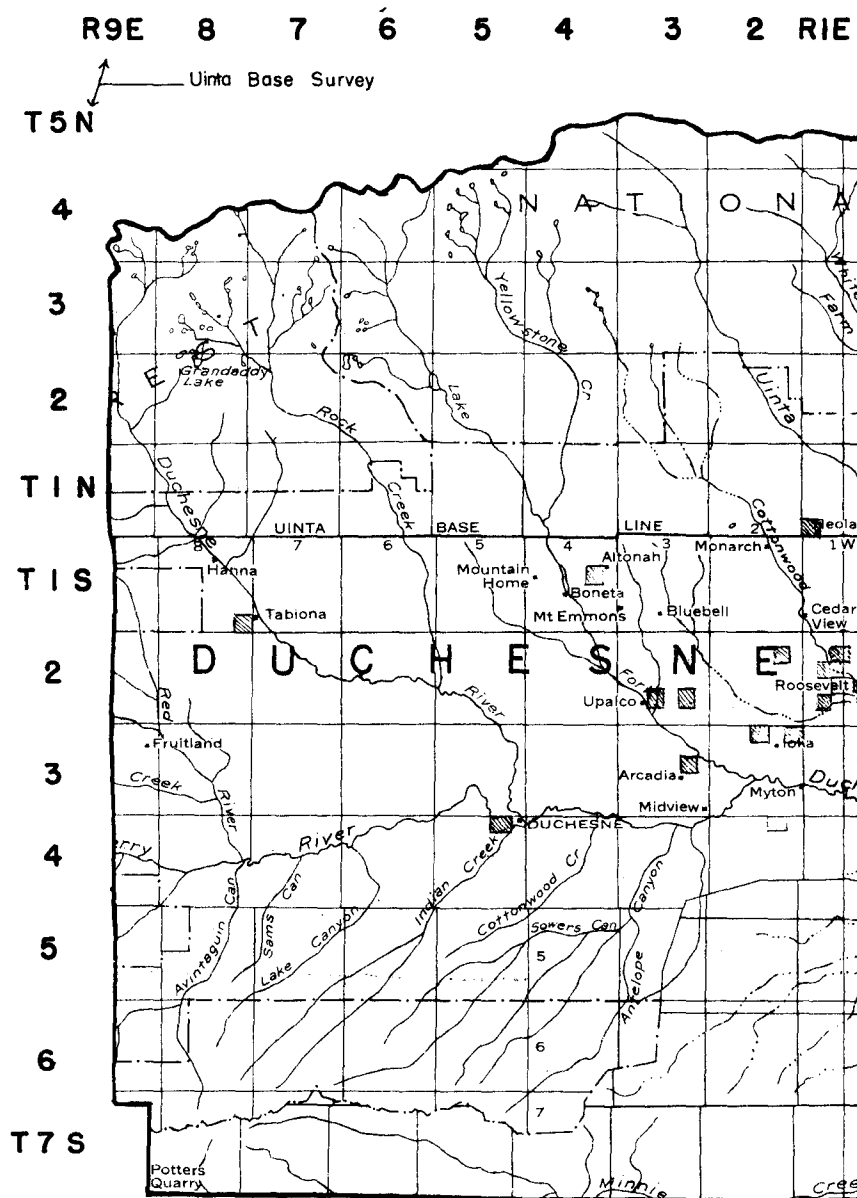
a/ includes equivalent of 16 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(B-5-1)29bdb-3	4/9/43	520	14	0.02	70	19	21		2.1	288	28	21	0.1	3.3	305	252		GS
(B-5-1)29bdb-3	6/10/47	535	12	0.03	72	18		22		288	24	20	0.1	2.4	312	254	16	GS
(B-5-1)29bdb-3	9/1/49	569	14	0.05	71	18		29		300	34	19	0.1	5.0	333	251	20	GS
(B-5-1)29bdb-3	4/22/55	545	12	0.03	71	18	20		1.7	286	33	17	0.1	0.6	320	251	15	GS
(B-5-1)29bdc-1	6/10/47	573	12	0.02	78	19		24		310	38	20	0.1	3.8	338	272	16	GS
(B-5-1)29bdc	10/4/51	580	11	0.03	78	19	23		1.9	314	37	20	0.1	3.2	348*	272	15	GS
(B-5-1)29bdc-1	9/15/53	439			30	19	23		2.3	200	36	19				155	24	BR
(B-5-1)29bdc-1	4/5/56	565	12	0.01	76	20	20		1.8	302	38	17	0.1	3.5	325	272	14	GS
(B-5-1)30aad-1	9/14/48	576	13	0.15	73	19		26		312	31	19	0.4	0.8	361	260	18	GS
(B-5-1)30aad-1	5/2/51	584	12	0.03	77	19	23		5.3	326	33	20	0.1	0.6	343	270	15	GS
(B-5-1)30aad-1	9/9/54	583	10	0.04	75	20	23		2.0	315	34	19	0.0	0.9	334	269	16	GS
(B-5-1)30aad-1	4/5/56	623	12	0.02	77	20	32		2.2	339	35	22	0.1	1.4	357	274	20	GS
(B-5-1)30aad-1	4/9/43	564			64	19		40		a/324	20	24	0.2	2.7	330*	238		GS
(B-5-1)30aad-1	4/22/46	653	15	0.06	72	21		41		356	17	30	0.1	4.2	384	266	25	GS
(B-5-1)30aad-1	5/2/51	589	14	0.05	74	20	25		4.6	323	24	24	0.1	3.7	342	266	17	GS
(B-5-1)30aad-1	9/9/54	569	12	0.03	71	20	21		2.0	298	29	20	0.0	6.4	329	259	15	GS
(B-5-1)33cda-1	5/22/48	443	25	0.07	47	14		30		256	2.1	20	0.1	0.1	253	175	27	GS
(B-5-1)33cda-1	8/7/52	525	21	1.8	52	17	32		6.1	297	3.0	24	0.1	1.3	298	200	25	GS
(B-5-1)33cda-1	2/16/55	535	26		54	18	37		7.0	303	2.9	26		5.3	308	210	27	BR
(B-5-1)33cda-1	4/21/55	539	24	0.20	54	17	35		6.0	305	3.0	26	0.1	0.1	310	204	26	GS
(B-5-1)34abb-1	4/26/55	173			22	3.9	3.4		7.0	96	6.7	1.4	0.2		112	71	9	BR
(B-5-1)36a	4/22/46	187	17	0.06	17	4.0		15		73	18	9.0	0.3	0.5	128	59	36	GS
(B-5-1)36a	5/2/51	174	12	0.02	19	4.5	8.5		3.2	74	17	6.9	0.1	0.5	109	66	21	GS
(B-5-1)36a	9/9/54	133	9.1	0.03	16	3.0	6.7		1.2	60	8.6	5.6	0.1	0.7	80	52	21	GS
(B-5-1)36a	4/5/56	163	9.6	0.01	18	3.8	8.1		2.1	73	13	6.0	0.1	0.9	94	61	22	GS
(B-5-1)36bbb-1	12/18/52	461			62	13	16		1.6	227	34	17			276	210	14	BR
(B-5-1)36bbb-1	12/1/53	428			55	14	17		1.2	211	32	17				195	16	BR
(B-5-1)36bbb-DVS	6/18/54	196	14		22	3.6	9.7		1.2	82	12	10	0.1	0.4	104	71	23	BR
(B-5-2)25bbc-1	4/6/43	700	26	0.04	80	32	30		2.6	b/330	56	30	0.2	31	450	331		GS
(B-5-2)25bbc-1	11/5/54	531	20		43	14	46		7.0	296	1.4	24	0.0	7.9	298	163	37	BR

a/ includes equivalent of 14 ppm CO₃b/ includes equivalent of 5.9 ppm CO₃

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			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(B-4-2)8dec-1	3/9/54	464	19		53	16	19		2.8	251	13	24	0.0	0.5	247	198	17	BR
(B-4-2)9caa-1	11/25/55	528			37	18	40		7.8	284		27			289	166	33	BR
(B-4-2)9cdc-1	2/24/56	570			19	18	77		10	331		31			339	122	56	BR
(B-4-2)10daa-1	1/21/39		22	0.05	44	12		17		162	9.1	20			224	160		PH
(B-4-2)10daa-1	4/16/43	351			41	14		14		a/196	5.0	17	0.1	0.4	188*	160		GS
(B-4-2)10daa-1	7/7/51		15	0.40	56	12		18		244	1.6	22	0.0	0.9	264	192		PH
(B-4-2)12bbb-1	4/27/53	505	16	0.03	65	18	19		1.5	270	19	23	0.1	1.0	285	236	15	OS
(B-4-2)14add-1	9/15/53	337	17		41	6.6	15		1.2	180	5.8	17		0.2	175	130	20	BR
(B-4-2)15dad-2	11/25/55	410			51	12	16		1.6	214	11	20			226	177	17	BR
(B-4-2)16add-4	11/25/55	803			13	10	160		12	476		33			478	72	80	BR
(B-4-2)16bdb-D	8/25/52	920			82	41	60		6.0	396	75	35			540		25	AG
(B-4-2)16ddd-1	11/25/55	327			36	8.8	18		2.0	178		156			163	125	23	BR
(B-4-2)18add-2	11/21/55	714			25	9.6	127		3.9	386		49			436	102	72	BR
(B-4-2)19cdd-1	2/14/56	438			57	14	20		2.0	244	16	21			246	201	18	BR
(B-4-2)20bba-4	9/15/53	424	23		45	13	22		2.3	b/242	0.5	21		1.0	230	166	22	BR
(B-4-2)20daa-1	2/14/56	353			35	12	19		3.1	203		17			203	137	23	BR
(B-4-2)22dad-1	11/21/55	820			2.4	3.8	171		36	470	7.2	34			489	22	85	BR
(B-4-2)23cdc-2	11/21/55	807			3.2	3.5	172		26	478		32			485	23	87	BR
(B-4-2)23dcc	3/9/54	272	21		26	7.3	17		2.7	148	1.0	11	0.0	1.3	155	95	28	BR
(B-4-2)24bbb	11/5/54	338	18		41	8.9	14		1.6	176	10	17	0.0	0.1	191	140	18	BR
(B-4-2)25daa-1	11/25/55	284			26	7.8	18		2.0	148		14			155	96	29	BR
(B-4-2)26aaa-2	11/5/54	265	21		24	7.8	17		3.1	141	1.4	12	0.1	0.1	150	92	28	BR
(B-4-2)26bab-1	11/21/55	285			29	7.7	16		1.2	152		14			146	105	25	BR
(B-4-2)27bbd-1	11/21/55	1080			5.8	4.8	255		8.2	676		38			682	34	93	BR
(B-4-3)14aba-1	4/17/55	418			29	16	36		5.1	234	1.0	23	0.2		225	140	35	BR
(B-5-1)27dec	11/30/53	467	13		63	15	13		1.2	242	26	16		3.0	252	219	11	BR
(B-5-1)29bbb-1	2/14/56	508			65	17	18		2.0	244	24	17			292	234	15	BR
(B-5-1)29bdb-1	6/10/47	556	13	0.06	71	18		31		308	35	20	0.2	1.0	328	251	21	GS
(B-5-1)29bdb-1	9/1/49	575	13	0.03	75	19		24		302	38	20	0.1	2.2	333	265	17	GS
(B-5-1)29bdb-1	4/14/52	582	13	0.07	74	20	24		2.2	306	36	20	0.2	2.1	340	266	16	GS

a/ includes equivalent of 12 ppm CO₃b/ includes equivalent of 12 ppm CO₃



Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Meq. K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)					
(B-5-2)25beb-2	11/5/54	504	19		42	14	41		5.9	275	1.4	24	1.0	6.1	291	164	34	BR	
(B-5-2)27acc	2/24/56	1870			56	72	271		18	680	240	173			1170	437	56	BR	
(B-5-2)28bas-1	2/20/56	976			41	42	102		19	531		75			549	276	42	BR	
(B-5-2)28cbb-1	2/20/56	1040			30	24	164		18	552		84			616	175	64	BR	
(B-5-2)30bda-2	2/14/56	400			49	13	14		2.0	201	18	20			221	178	15	BR	
(B-5-2)30cbe-1	2/14/56	576			20	18	78		16	336	2.9	26			313	125	54	BR	
(B-5-2)31cbe-4	2/14/56	378			40	12	22		2.3	202	3.8	20			203	147	24	BR	
(B-5-2)31dhe-1	2/16/56	460			48	13	30		3.9	261		0.2			249	172	27	BR	
(B-5-2)31ddd-1	2/24/56	894			18	25	113		43	506	0.0	51			522	147	55	BR	
(B-5-2)32aba-1	2/14/56	423			52	14	15		2.0	213	19	22			236	190	15	BR	
(B-5-2)32beb-2	4/10/43	390			49	15		28		a/236	20	20	0.3	0.8	249*	184		GS	
(B-5-2)32ddd-1	3/16/56		15	3.7	27	24		51		238	55	16	0.3	0.9	290	166		PH	
(B-5-2)33acc	2/24/56	659			85	25	18		4.3	340	37	29			420	314	11	BR	
(B-5-2)33ddc-1	3/9/54	466	17		55	14	17		2.7	237	18	24		1.3	247	197	15	BR	
(B-5-2)34add	2/24/56	683			87	21	20		2.3	239	84	47			455	304	12	BR	
(B-5-3)23bda-1	9/15/53	393	20		44	12	20		2.0	b/200	19	17		0.1	223	161	21	BR	
(B-5-3)24dad-1	2/13/56	504			27	19	53		6.3	296		23			272	146	43	BR	
(B-5-3)24dad-2	9/15/53	392	18		45	10	16		1.6	197	18	18		0.7	220	154	18	BR	
(B-5-3)26aaa	2/16/56	386			32	8.9	38		2.3	212	2.4	19			218	117	41	BR	
(B-5-3)27c 1/	11/3/51	14500	28	0.01	523	118	2390		283	245	36	5100	0.6		8600*	1790	71	GS	
(B-5-3)27c 2/	9/15/53	14900	35		535	92	2520		285	234	36	4370	0.7	2.0	9310	1710	73	BR	
(B-5-3)27c 3/	9/9/53	16300	41		583	100	2770		303	242	27	5210	0.6	4.0	10400	1860	73	BR	
(B-5-3)27cab	10/7/53	16000	42		525	110	2370		292	265	37	5180	0.4	8.5	9980	1560	71	BR	
(B-5-3)27cacu/ 84'	10/7/53	12600	14		412	251	1920		241	140	213	4080	0.8	0.8	7920	1240	71	BR	
(B-5-3)27cacu/126'	10/7/53	13900	27		474	96	2100		258	256	67	4550	0.4	0.6	8650	1420	71	BR	
(B-5-3)27cacu/206'	10/8/53	14400	26		492	300	2180		262	271	82	4680	0.5	0.6	9010	1460	71	BR	
(B-5-3)28db	9/15/53	39400	48		536	458	8290		803	304	219	14400		1.6	27800	3220	81	BR	
(B-5-3)36aad-1	2/24/56	391			39	11	28		2.3	220	0.0	22			220	144	29	BR	

1/ Hottest office

2/ Hottest office

3/ Discharge Channel

4/ Depth of aquifer sampled during drilling

a/ includes equivalent of 18 ppm CO₃b/ includes equivalent of 8 ppm CO₃

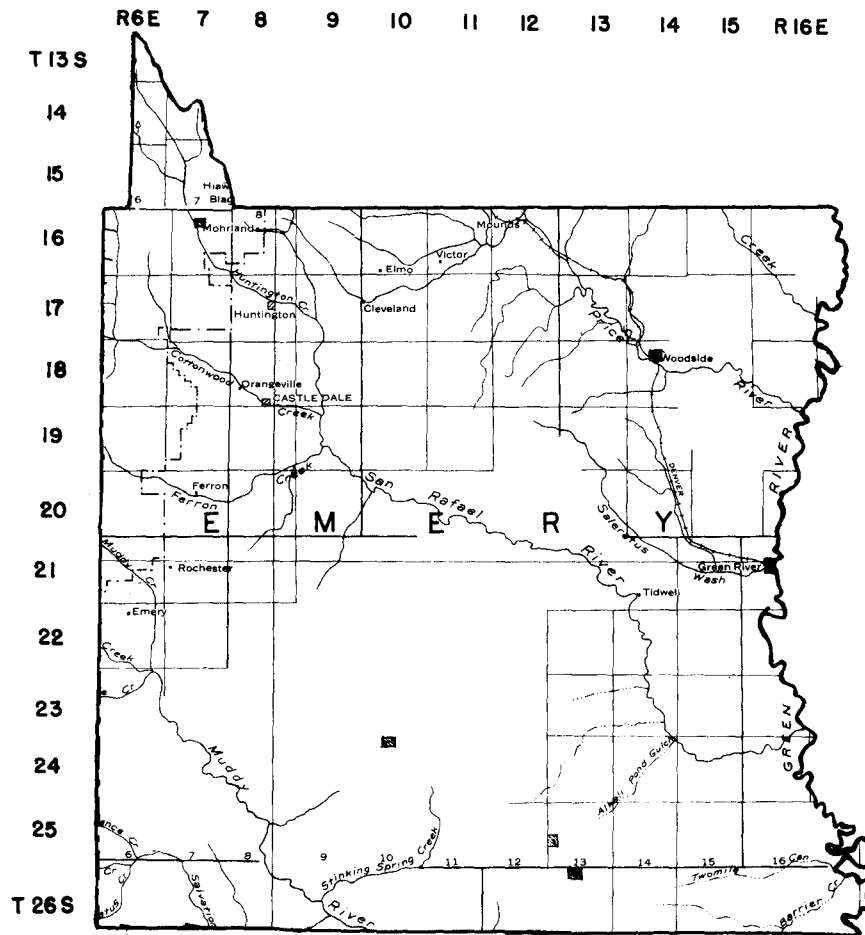
Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
U(R-1-1)31add-DVS	2/24/54		29	0.03	66	25		60		319	25	5.0	0.1	1.4	374	267		PH
U(C-1-1)	4/27/51		17	0.16	70	3.6		58		304	44	13	0.0	0.0	353	190		PH
U(C-1-4)14	6/23/53		32	0.00	63	23		11		a/ 290	2.6	26	0.7	0.2	303	253		PH
U(C-1-8)36	9/28/50		7.1	0.02	33	34		11		259	19	4.8	0.3	0.4	238	220		PH
U(C-2-1)9	8/9/54		22	0.00	66	11		8.3		258	10	3.0	0.6	1.4	242	210		PH
U(C-2-1)17aba-1	2/8/54		11	0.04	7.8	0.1		314		b/ 732	61	24	2.0	0.1	770	20		PH
U(C-2-1)21aaa-1	2/14/54		9.6	0.10	70	8.8		16		231	35	12	0.0	3.5	242	210		PH
U(C-2-1)22	9/14/55		6.6	4.3	434	50		2,610		278	1,290	3,830	1.0	0.0	8,530	1,290		PH
U(C-2-1)29	7/31/56		17	0.00	70	38		200		312	163	55	0.1		705	330		PH
U(C-2-2)14ddc-1	2/14/53		10	0.09	72	16		12		284	25	6.1	0.1	0.2	302	244		PH
U(C-2-3)26d	7/8/39		25		61	58		41		432	62	40	0.2	0.0	607	388		PH
U(C-2-3)28daa-1	6/4/41		1.5	1.2	81	64		72		486	98	83	1.4	0.0	686	464		PH
U(C-3-2)1	7/21/55		13	0.50	35	6.7		1,040		802	378	942	3.0	0.3	2,760	114		PH
U(C-3-2)3ada-1	4/11/55		5.9	3.1	419	45				249	1,370	3,900	1.2	0.0	8,510	1,230		PH
U(C-3-2)3dd	5/22/53		12	0.16	68	16		52		c/ 208	165	4.0	1.2	0.2	435	236		PH
U(C-3-3)14ccd-1	7/31/51	14,100			512	86	2,500		16	d/ 238	668	4,500			9,090			AC
U(C-4-2)2	8/52	2,300			373	95	58		2.0	310	1,220	20			2,390		9	AC
U(C-4-2)2cda-1	8/52	200			23	5.0	8.0		2.0	79	29	1.0			116		18	AC
U(C-4-5)2acc-1	4/27/53		6.2	1.3	114	58		59		e/ 480	194	38	0.5	0.6	783	521		PH

a/ includes equivalent of 1 ppm CO₃b/ includes equivalent of 29 ppm CO₃c/ includes equivalent of 2 ppm CO₃d/ includes equivalent of 14 ppm CO₃e/ includes equivalent of 4 ppm CO₃

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
U(3-1-1)11ddc-DVS	A-22223	Town of Neola			Spring		P. S.		
U(0-1-1)		U.E.R.A.	8	R 65	Drilled		Dom. Cooling		
U(0-1-4)14		Town of Altamont			Spring		P. S.		
U(0-1-8)36		Town of Tabiona			Spring		P. S.		
U(0-2-1)9		Roosevelt City Corp.			Spring		P. S.		
U(0-2-1)17abe-1	A-14990	C. B. Larsen	4	R 275	Drilled		Dom.		
U(0-2-1)21aaa-1	A-20609	Roosevelt City Corp.	5	R 540	Drilled		P. S.		
U(0-2-1)22		A. Michie	5	R 380	Drilled		None		
U(0-2-1)29 (Halfour Spr.)		Roosevelt City Corp.			Spring		P. S.		
U(0-2-2)14ddc-1	A-15347	Roosevelt City Corp.	10	R 500	Drilled		P. S.		
U(0-2-3)26d		Lewis Hansen			Spring		Dom.		
U(0-2-3)28daa-1	C-8164	U.E.R.A.	8	R 200	Drilled		Stock		
U(0-2-2)1		Ioka L.D.S. Ward	7	R 160	Drilled		Dom.		
U(0-2-2)3ada-1	A-26711	A. Michie	7	R 30	Drilled		Stock		
U(0-2-2)3dd		A. Michie			Spring		Irr.		
U(0-3-3)14ccd-1	A-22944	A. B. Evans	6	R 75	Drilled		Dom.		
U(0-4-2)2		S. L. Pipe Co.			Spring		P. S.		
U(0-4-2)2cda-1	A-21559	S. L. Pipe Co.	10	R 108	Drilled		P. S.		
U(0-4-5)2acc-1	A-24079	Town of Duchesne	6	R 25	Drilled		Dom.		

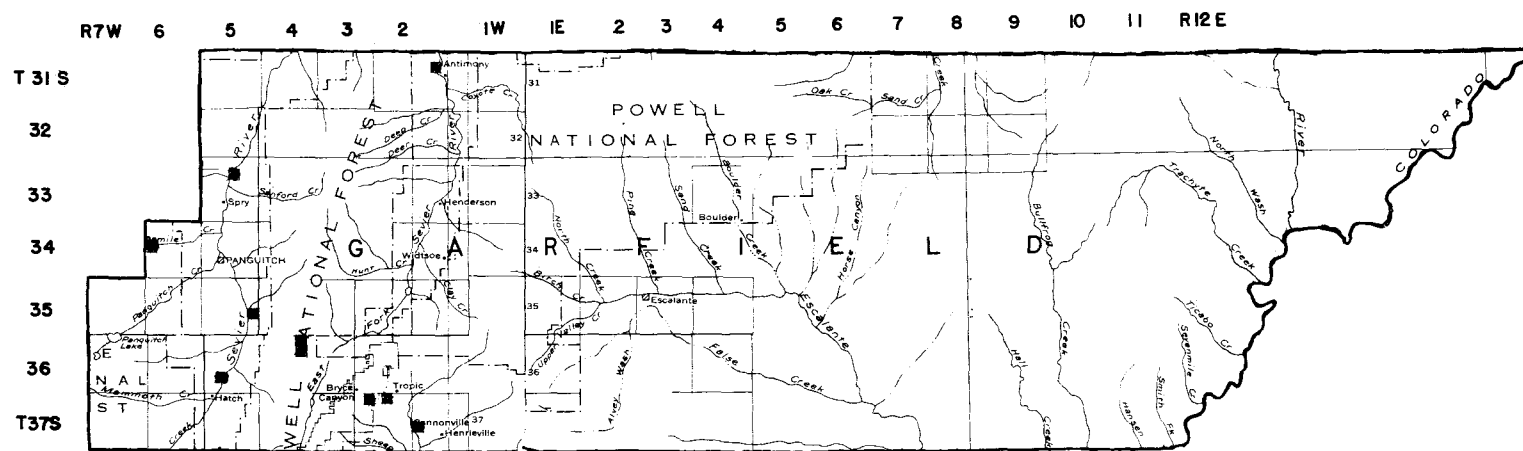
Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-16-7)9		Town of Huntington			spring		P.S.		
(D-18-14)9		Nixon Uranium Corp.		R 175	drilled				
(D-18-14)9ded-1	(Roadside Geyser)	D. & R. G. R. R.		R 180	drilled		R.R.		
(D-21-13)	(Sulfur Spring)				spring				
(D-21-16)15c		Town of Green River	6'X6'	R 8	dug		Dom.		
(D-24-10)4ado-DVS A-24371		U. S. Grazing Service			spring		stock		
(D-26-13)19	(Jeffery Well)	U. S. Grazing Service			drilled		stock		- 400
(D-27-13)4		U. S. Grazing Service			drilled		stock		- 720
(D-28-15)21	(Granary Spring)	U. S. Grazing Service			spring		stock		

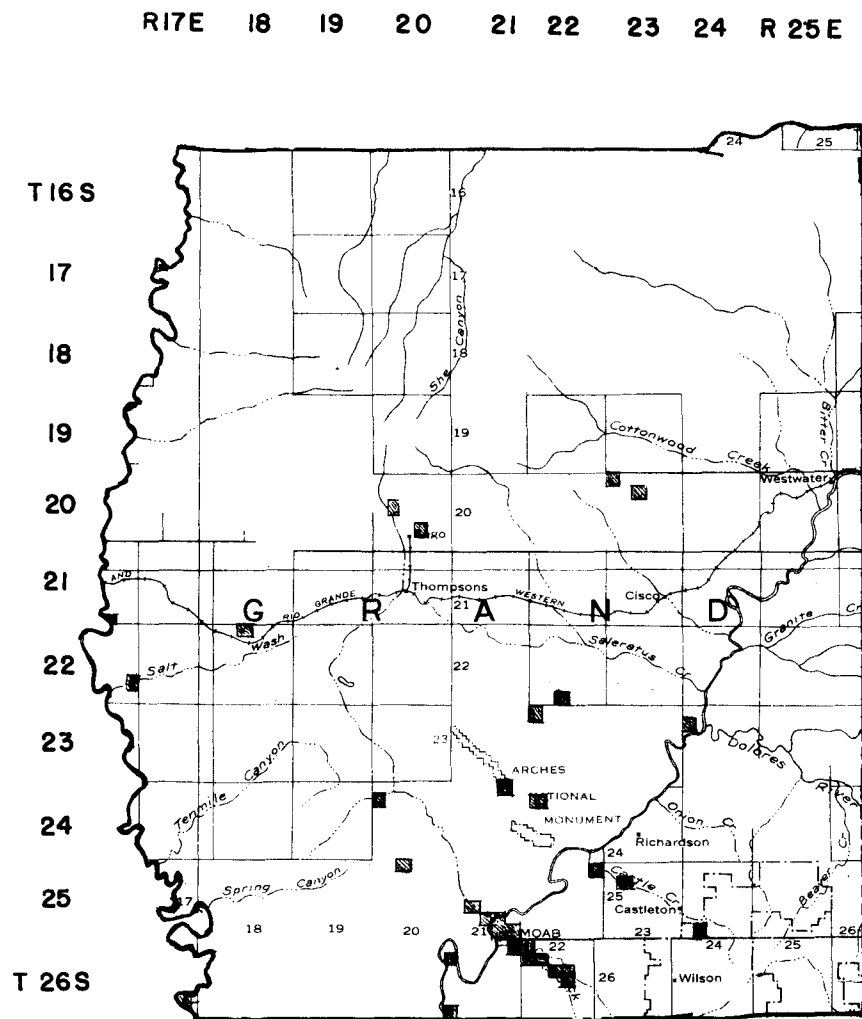
Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)					
(D-16-7)9	5-7-53		5.3	0.05	71	35		10		338	56	6.2	0.2	0.3	349	322		PH	
(D-18-14)9	6-1955	3,230	10		.45	2.4				544	1,200	47		.3		122		GS	
(D-18-14)9ded-1	10-16-33			.36	684	295		351		2,160	1,560	200		.1		2,920		GS	
(D-18-14)9ded-1	3-14-47	5,640			908	288		360		2,840	1,540	215		.0	4,710*	3,450		GS	
(D-18-14)9ded-1	9-17-52	5,430			847	287	312		112	2,660							19 16	GS	
(D-21-13)	9-19-31				681	133		171		1,170	1,310	208			3,140	2,250		GS	
(D-21-16)15c	12-22-50		13	.0	156	43		96			472	74	.1	1.0	1,030	390		PH	
(D-21-16)15c	10-6-53	15,600								438	9,240	614				3,160		GS	
(D-24-10)4ado-DVS	10-27-44	2,460			232	216		70		262	1,310	28		1.5	1,990*	1,470		GS	
(D-26-13)19	11-1-44	2,400			234	228		53		204	1,390	12		6.9	2,020*	1,520		GS	
(D-27-13)4	11-1-44	673			62	46		17		366	65	9.0		1.0	380*	344		GS	
(D-28-15)21	11-1-44	740			79	30		33		203	147	52		.2	441*	154		GS	



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below I.S.D.	
								Date measured	Level (feet)
(C-31-2)11		Town of Antimony			spring		P. S.		
(C-33-5)3cb		Deward Woodard	4	100	drilled		dom.		
(C-34-5) (Panguitch Spr.)		Town of Panguitch			spring		P. S.		
(C-34-6) (Indian Hollow Spr.)		Town of Panguitch			spring		P. S.		
(C-34-6)18		Town of Panguitch			spring		P. S.		
(C-35-5)24cb	A-24732	V. J. Myers	6	285	drilled		dom.		
(C-35-5)24cb		V. J. Myers			spring		dom.		
(C-36-3)6dba-1	A-16993	C. A. A.	6	83	drilled	1945	dom.	12-18-53	- 29.30
(C-36-3)7aac-1	C-20640	Lillie Stead	12'x12'	18	dug		dom.		
(C-36-5)29dcd-1	A-19522	Hatch Farmstead Water Ass.	8	216	drilled		P. S.		
(C-36-5)29dcd-2		Hatch Farmstead Water Ass.	10	150	drilled		dom.		
(C-37-1)		Henrieville Irr. Co.			spring		P. S.		
(C-37-2)19c		Cannonville Pipeline Co.			spring		P. S.		
(C-37-3)3		Town of Tropic			spring		P. S., st.		
(C-37-3)5da		Town of Tropic			spring		P. S., irr.		
(C-37-4)	A-27154	Utah Parks Co.	12	90	drilled		dom.		
(D-31-18)		nr. Hite*			spring		none		
(D-33-13)		Hog Canyon Spr.*			spring		drinking		
(D-33-14)		nr. Hite*			spring		none		
(D-33-14)		nr. mouth of Dirty Devil*			spring		none		
(D-33-14)		nr. mouth of Dirty Devil*			spring		none		
(D-33-15)		nr. Hite*			spring		none		
(D-33-15)		nr. Hite*			spring		none		
(D-34-13)35a		Chaffin well			well		dom.		
(D-34-13)36b		U.S.G.S. (old well)	42	24	dug	1950	not used		
(D-34-13)36b	A-25537	U.S.G.S. (new well)	42	22	dug	1954	dom.		

*Springs on Public Lands (Unsurveyed)





Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃	
(C-31-2)11	1-25-50		34	0.8	36	8.1		15		135	5.0	5.7	0.4	0.9			PH
(C-33-5)3cb	4-1-55		40	0.2	54	25		62		400	10	22	1.1	1.2	429	238	PH
(C-34-5)	6-27-50	167	28	0.01	22	4.5	7.8		4.2	100	3.5	3.3	0.4	0.2	118	73	GS
(C-34-6)	8-6-55		27	0.3	26	0.2		14		93	15	3.0	0.6	1.5	118	66	PH
(C-34-6)18	12-7-40		17	0.1	22	2.2		10		98	4.8	7.0	0.0	0.0	131	65	PH
(C-35-5)24cb	1-24-55		48	5.0	97	34		86		584	69	12	0.0	0.0	613	382	PH
(C-35-5)24cb-DVS	3-3-55		9.2	0.00	68	24		22		324	34	8.0	0.3	1.2	294	268	PH
(C-36-3)6dba-1	7-11-52		12	1.6	24	23		9.1		184	12	4.8	0.1	0.8	168	153	PH
(C-36-3)7aac-1	3-30-39		4.8	0.1	76	77		14		381	22	142		5.2	778	506	PH
(C-36-5)29dcd-1	1-26-50		39	0.3	47	10		4.4		188	5.2	6.7	0.2	2.2	226	157	PH
(C-36-5)29dcd-1	6-7-49	333	44		50	10		6.1		191	8.6	7.0	0.1	4.5	224*	166	7
(C-36-5)29dcd-2	4-10-48		36	0.00	45	8.1		6.9		177	6.2	7.0	0.1	0.0	211	145	GS
(C-37-1)	4-26-51		12	0.3	87	54		87		340	183	6.9	0.6	2.2	678	433	PH
(C-37-3)3	1-25-50		11	1.2	50	21		36		321	24	2.3	0.6	0.0	332	184	PH
(C-37-3)5da	10-27-54		9.1	0.00	71	23		0.0		198	22	3.0	1.1	0.2	285	274	PH
(C-37-4)	8-1-55		10	0.00	43	35		5.5		/a284	22	4.0	0.1	1.4	246	226	PH
(D-31-18)	9-30-48	1060	12		104	36		97		192	273	124		1.9	742*	408	34
(D-33-13)	10-29-53	573	15		38	30				286	73	10		0.9	219		GS
(D-33-14)	8-4-48	9630	18		920	282		1200		1120	2090	2100			7160*	3460	43
(D-33-14)	8-4-48	10200	18		900	258		1390		1020	2140	2320			7530*	3310	48
(D-33-14)	10-3-48	10600	15		920	246		1470		1090	2220	2340			7750*	3310	49
(D-33-15)	10-3-48	1610	13		161	44		135		248	409	174		1.0	1060*	582	33
(D-33-15)	10-3-48	8080	24		816	205		995		1110	1830	1580			5000*	2880	43
(D-34-13)35a	11-20-53	1820								266		171			606		GS
(D-34-13)35a	10-29-53	1790	16		166	45				263	522	170		1.1	600		GS
(D-34-13)36b	8-25-50	1990	19	0.14	132	76		210		310	533	205	0.0	0.6	1330*	642	42
(D-34-13)36b	10-10-53	7980	16		365	301				404	2280	1520		3.7	2150		GS
(D-34-13)36b	1-20-54	1940	12	0.05	158	64	203		5.2	316	597	157	0.1	0.6	1470	657	40
(D-34-13)36b	2-9-54	1840			154	55				303		143			612		GS

/a includes 2 ppm of CO₃

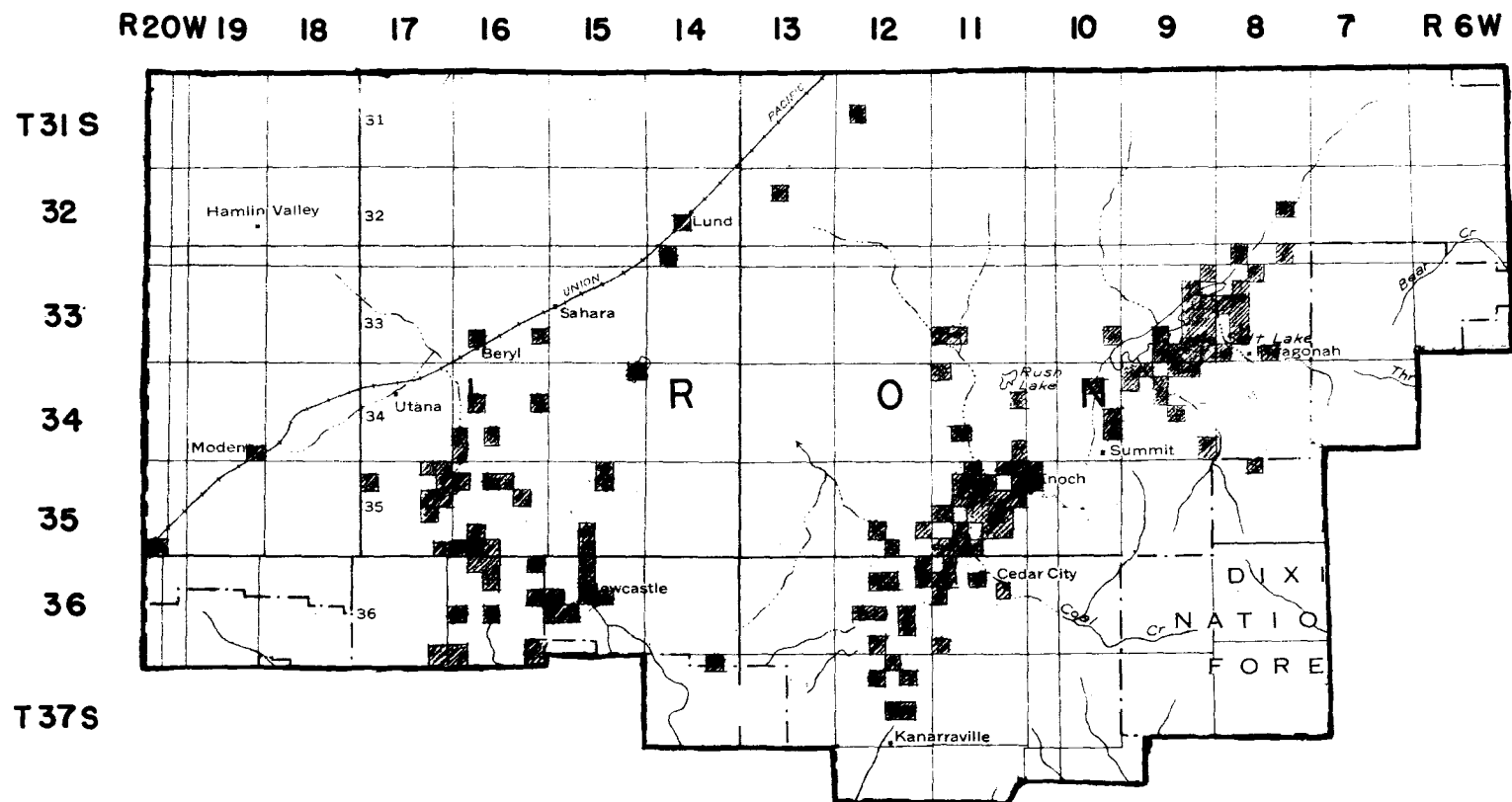
Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-26-21)7aca-2	A-27898	Moab City Corp.			Drilled		P. S.		
(D-26-21)3lcc		Cane Creek Oil Co.		M3005	Drilled				
(D-26-22)6		Moab Hotel			Drilled		Dom.		
(D-26-22)6b		A. M. Robertson			Spring		Dom. Irr.		
(D-26-22)6b		A. Maxwell			Spring		Dom. Irr.		
(D-26-22)6d		S. Youvan	6	R 129	Drilled		Dom. Irr.		
(D-26-22)7c		B. Allred			Spring		Dom. Irr.		
(D-26-22)7c		E. Holyoke			Spring		Dom. Irr.		
(D-26-22)8b		Moab Pipeline Co.			Spring		P. S.		
(D-26-22)8d		V. Murphy			Spring		Dom. Irr.		
(D-26-22)15c		Westwood			Spring				
(D-26-22)16d					Spring				
(D-26-22)22a		J. Summerville			Spring				

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-16-17) (Camel Rock Spr.)					Spring				
(D-17-16)					Spring				
(D-17-17)16					Spring				
(D-17-17)16					Spring				
(D-20-20)17 (Thompson Spr.)					Spring		Stock		
(D-20-20)27 (Sego Spring)		Chesterfield Coal Co.			Spring		P. S.		
(D-20-23)6 (Cisco Wash)		F. A. Buttell			Spring				
(D-20-23)9		F. A. Buttell			Spring				
(D-21-16)34dd (Crystal Geyser)					Spring (Geyser)				
(D-22-16)25da					Spring				
(D-22-18)4cd (Saleratus Wash)					Spring				
(D-22-22)33a		Yellow Cat Mining Co.			Spring				
(D-22-22)33ab		Cactus Rat Mine		20	Dug		Dom.		
(D-23-22)6b		Utah Alloys, Inc.			Mine Sump				
(D-23-24)7da (CCC Spring)		Town of Dewey			Spring		P. S.		
(D-24-20)7 (Courthouse Spring)		Public Land			Spring		Stock		
(D-24-21)2dc					Spring		Stock		
(D-24-22)					Spring		Stock		
(D-24-22)7ca (Salt Wash Spr.)					Spring				
(D-25-20)4 (Seeping Spr.)					Spring		Stock		
(D-25-21)21		National Park Service			Drilled		Dom.		
(D-25-21)26bd (Pipe Spring)					Spring		Dom.		
(D-25-21)27 (Skakol Spr.)		B. Wheeler			Spring		Dom.		
(D-25-21)35a		D. Parriot			Spring		Dom. Irr.		
(D-25-21)36		Moab City Corp.	16	R 125	Drilled	1956	P. S.		
(D-25-21)36cad-1 A-26468		Utex Corp.	6	R 140	Drilled		Dom.		
(D-25-21)36d		M. R. Fish			Spring		Dom. Irr.		
(D-25-22)1a		Pace Bros.			Spring		Irr.		
(D-25-23) (Stinking Spr.)					Spring				
(D-25-23)8baa			6	R 285	Drilled	1954	Dom. St. Irr.		
(D-25-24)32		D. Taylor			Spring		Irr.		
(D-26-17)24		Universal Uranium Co.	6	R 120	Drilled		Dom.		
(D-26-21)1		Moab City Corp.			Drilled		P. S.		
(D-26-21)1a		S. Stock			Spring		Irr.		
(D-26-21)1bab-1 A-26227		J. E. Kirby	6	R 48'	Drilled		Dom.		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis By		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃
(D-25-21)36	2/15/56	768	15		105	28				224	213	15		3.3		378		GS
(D-25-21)36 cad-1	1/9/55		16	0.26	37	9.6		28		129	54	18	0.0	0.5	213	132		PH
(D-25-21)36d	10/27/33			0.15	36	19		10		130	51	21		0.5		168		GS
(D-25-22)1a	10/23/33		0.18	306	112		103		262	1,020	127		1.5			1,220		GS
(D-25-23)	9/27				965	132		4,490		490	2,350	6,990			15,800	2,950		GS
(D-25-23)8baa	2/26/55	1,400	17	0.05	135	50	97		2.6	191	419	114	0.2	2.6	983	542	28	GS
(D-25-23)32	10/24/33			0.15	108	30		146		126	322	192		0.4		393		GS
(D-26-17)24	5/7/55		12	0.20	30	52				398	438	285	1.1	7.0	1,450	290		PH
(D-26-21)1	7/15/55		17	0.40	268	9.2		80		236	750	26	0.6	2.3	1,250	708		PH
(D-26-21)1a	10/27/33			0.40	365	40		2.5		139	903	19		0.2		1,080		GS
(D-26-21)1bab-1	8/13/54	1,140	19	0.20	400	117		60		363	1,210	30	0.7	18	2,200	1,480		PH
(D-26-21)7aca-2	5/20/55		12	3.1	109	20		222		311	515	28	0.5	7.3	994	354		PH
(D-26-21)31cc	3/22/39			94	56,100	26,200	13,800		12,400		12	20,000			317,000			GS
(D-26-22)6	1/14/54		16	0.24	160	55	47		1.6	348	358	14	0.3	7.0	854	625	9	GS
(D-26-22)6b	10/27/33			0.20	42	21		10		132	53	11		0.7		191		GS
(D-26-22)6b	10/27/33	11		0.10	40	17		8.9		135	49	19		0.8		170		GS
(D-26-22)6d	9/19/55			0.25	56	50		16		350	68	12	0.8	6.5	417	346		PH
(D-26-22)7c	10/22/33			0.12	103	49		34		160	364	16		1.0		458		GS
(D-26-22)7c	10/22/33			0.21	114	51		44		182	398	19		0.4		494		GS
(D-26-22)8b	10/22/33			0.18	34	16		6.6		127	47	8.0		0.8		151		GS
(D-26-22)8d	10/27/33	316		0.15	35	17		10		127	38	5.0		0.6	168	157		GS
(D-26-22)15c	10/23/33			0.10	37	15		10		121	40	4.0		0.8	164	154		GS
(D-26-22)15c	9/7/53			0.01	36	13	8.8		1.3	129	48	4.2	0.1	1.1	186	143	12	GS
(D-26-22)16d	9/7/53		17	0.03	151	49	73		2.8	198	483	31	0.4	10	978	578	21	GS
(D-26-22)22a	10/23/33			0.12	36	18		10		122	49	4.0		0.4	177	164		GS

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Meq L)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(D-16-17)	9/25/48	842	26		70	41		73		321	220	7.0		0.7	596*	343	32	GS
(D-17-16)	9/25/48	1,060	18		10	5.7		250		492	176	5.0		0.1	707*	48	92	GS
(D-17-17)16	9/25/48	773	24		65	39		60		360	143	6.0		1.5	516*	322	29	GS
(D-17-17)16	9/25/48	678	27		52	39		87		417	127	4.0		1.2	543*	290	40	GS
(D-20-20)17	10/20/33			0.10	55	64		104		552	156	8.0		1.2		400		GS
(D-20-20)27	2/24/41		11		44	79		198		664	323	26	0.1	0.0	1,090	432		PH
(D-20-23)6	1927				100			387		514	1,200	30		0.0	2,160	871		GS
(D-20-23)9	1927				240			450		496	1,500	29		0.0	2,560	1,030		GS
(D-21-16)34dd	9/22/47	18,200	15	20	258	235		4,180		2,010	2,360	4,670			12,700*	1,610	85	GS
(D-21-16)34dd	3/22/48	19,400	13		1,000	225		4,070		4,400	2,410	4,370			14,300*	3,420	72	GS
(D-21-16)34dd	9/27/48	18,800								2,900								GS
(D-21-16)34dd	9/17/52	16,200			870	220	3,180		305	3,720						3,080	67	GS
(D-22-16)25d	9/17/52	7,980			642	96	1,400		59	495						2,000	60	GS
(D-22-16)25da	9/17/52	33,700																GS
(D-22-16)4cd		3,320			106	167	500		4.3	460						950	53	GS
(D-22-22)33a	8/19/51	2,240	10	0.07	117	15	400		2.4	200	933	56	0.4	5.0	1,650	254	71	GS
(D-22-22)33ab	6/29/50	2,030	10	0.03	101	15	343		3.4	205	806	47	0.3	5.8	1,440	314	70	GS
(D-23-22)6b	6/29/50	1,100	11	0.20	89	20	129		6.1	202	388	13	0.4	2.6	767	304	47	GS
(D-23-24)7da	10/25/33			0.15	16	5.2		148		269	48	79		0.2		61		GS
(D-23-24)7da	4/17/54	681	9.7		14	3.7	137		4.3	264	44	61		0.3	402	50	84	GS
(D-24-20)7	10/16/33			0.42	44	35		12		224	68	17		1.9	288	254		GS
(D-24-21)2dc	5/27/44	2,600			568	99		31		147	1,680	14	0.7	0.2	2,470*	1,820	4	GS
(D-24-22)	10/21/33			1.4	610	98		34		321	1,660	7.0		0.1		1,930		GS
(D-24-22)7ca	9/17/52	2,370			52	28	396		8.8	212						248	77	GS
(D-25-20)4	10/21/33			0.61	52	69		111		484	97	112		0.1		413		GS
(D-25-21)21	4/26/41		1.1		22	26		86		117	138	77	0.0	0.0	432			PH
(D-25-21)26bd	4/19/47	298	11		30	13		13		130	32	11	0.2	0.9	175*	128	18	GS
(D-25-21)26bd	9/25/48	290	9.9							128	40	10		2.1				GS
(D-25-21)27	2/26/55		9.0	0.00	38	8.6		28		133	60	12	0.2	1.2	195	130		PH
(D-25-21)35a	10/24/33			0.20	32	16		5.7		127	35	12		0.8		146		GS

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-31-12)17cad-1	DS	Alta Banner	4 1/2	R 49	Dug			11-20-52	-43.80
(C-32-8)14dad-1	C-12762	R. F. Starley	2	R 156	Jettied	1925	Stock	10-1-40	+ 7.6
(C-32-8)32ccc-1	DS	Rex Ward	2		Jettied		Stock	9-12-40	+ 5.1
(C-32-8)35beb-1	C-5683	H. W. Edwards	3	R 250	Driven	1921	Stock	3-23-54	+ 8.8
(C-32-13)9bdd-1	C-5229	A. Fraiche	12	R 340	Drilled	1916	Irr.	12-11-42	-42.71
(C-32-14)21bed-1	C-4275	U.P.R.R.	10	R 750	Drilled	1925	Dom. & R.R.		
(C-32-14)21bed-1	C-4281	U.P.R.R.	12	R 585	Drilled		P.S.	4-4-37	- 3.91
(C-32-14)32add-2		J. H. Johnston	4-8	R 20	Dug	1942	Stock	8-20-49	-12.67
(C-33-8)4odd-3	C-15969	H. Mitchell	2		Jettied	1915	Irr. Stock	9-12-40	+ 7.9
(C-33-8)8odd-3	C-15767	Wm. T. Talbot	2	R 200	Jettied	1917	Stock	12-3-38	+34.1
(C-33-8)17cad					Spring		Stock		
(C-33-8)17cad-1	C-1225	W. W. Bettridge	4 1/2		Drilled		Irr. Stock		
(C-33-8)17cad-1	C-13702	T. W. Jones	2	R 40	Drilled	1901	Stock	9-6-40	+ 8.4
(C-33-8)18abd-1	C-11722	Eva Talbot	2		Jettied	1897	Stock	5-6-40	+16.2
(C-33-8)20aad-1	DS	T. R. Robinson	3		Jettied		Stock	9-9-40	+14.9
(C-33-8)29aaa-1	DS	S. T. Topham	2		Jettied		Irr.		
(C-33-8)31acb-1	C-4780	T. A. Topham	2		Drilled	1890	Stock	9-7-40	+11.7
(C-33-8)34c		Town of Paragonah			Spring		P.S.		
(C-33-9)1dad-1	C-4744	H. A. Mitchell	3		Jettied	1911	Stock	5-14-40	+ 9.9
(C-33-9)1dad-2	C-4743	H. A. Mitchell	3		Jettied	1911	Stock	3-16-46	+15.6
(C-33-9)1dda-1	C-4741	H. A. Mitchell	2		Jettied	1911	Irr. Stock	5-14-40	+ 5.7
(C-33-9)11acb-1	C-5134	E. Witte	3	R 350	Jettied	1910	Stock	9-12-40	+ 9.1
(C-33-9)13add-1	C-20556	J. O. Decker	3	R 300	Drilled		Stock		
(C-33-9)14aco-1	C-6929	E. W. Jensen	3	R 550	Drilled	1920	Dom. St. Irr.	9-10-40	+ 2.3
(C-33-9)14ccc-1	C-6489	W. M. Byre	4	R 342	Jettied	1920	Irr.	12-10-45	+17.4
(C-33-9)24odd-1	C-12261	Union Cent. Life Ins. Co.	4 1/2		Jettied	1917	Irr. Stock	9-10-40	+10.0
(C-33-9)25odd-4	A-a-1444	State Land Board	12	R 120	Drilled		Irr.		
(C-33-9)26bbb-1	C-12820	Federal Land Bank	4 1/2	R 500	Jettied	1912	Irr. Stock	9-10-40	+ 4.20
(C-33-9)26cbo-2	DS	Geo. Morris	2		Jettied		Stock		
(C-33-9)28abd-1	C-17259	J. Dolcinske	8-4 1/2		Jettied	1917	Stock	12-11-46	+ 3.42
(C-33-9)33aad-1	C-1233	J. P. Bayles	17	R 740	Drilled				
(C-33-9)34aaa-1	C-13495	J. B. Dalton	4 1/2	R 430	Drilled	1911	Irr. Stock	9-25-38	+ 3.84
(C-33-9)34ad-1	C-6250	Federal Land Bank	60-3	R 550	Dug & Drill.	1923	Irr.	3-12-53	- 7.39
(C-33-9)35aad-1	C-13993	H. Dalton	12-3 1/2	R 400	Drilled	1912	Irr.	12-8-53	- 8.82
(C-33-9)35aad-1	C-7848	Federal Land Bank	8	R 608	Drilled				



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-34-16)31bcc-2	C-922	Endicott	12	M 22	Bored	1920	Dom. Stock	12-5-53	-19.73
(C-34-19)36cda-1	A-16620	U.P.R.R.	12	R 295	Drilled		Dom.		
(C-35-8)4b (Box Elder Spr.)		Parowan City Corp.			Spring		P. S.		
(C-35-10)		Cedar City	8	R 210	Drilled		P. S.		
(C-35-10)6cad-DVS A-15207		D. Clark			Spring		Stock		
(C-35-10)7cad-1	A-12056	F. Matheson	8	R 101	Drilled	1935	Dom. Irr.	3-13-53	-33.69
(C-35-11)1acc-1	C-8964	J. W. Smith, D. Clark	3	M 179	Jetted	1928	Stock	6-11-40	+ 9.3
(C-35-11)1ccd-2	C-14016	R. Grimshaw	2	R 156	Jetted		Dom. Stock		
(C-35-11)2ddd-1	C-13751	F. H. Grimshaw	4	R 40	Jetted	1934	Dom. Stock	5-2-53	-13.69
(C-35-11)4bbd-2	DS	W. H. Wood	3		Jetted		Stock	6-11-40	-12.93
(C-35-11)4dda-1	C-5121	C. Stevens	3 1/2	R 267	Jetted	1916		3-20-51	- 4.55
(C-35-11)8ddd-1	C-11597	Ira Heaton	5	R 178	Jetted	1928		4-3-40	-15.0
(C-35-11)9add-1	DS	Federal Land Bank	2	R 130	Jetted	1912		4-3-40	+ 5.2
(C-35-11)10dbd-1	C-5127	O. Matheson	3	R 90	Drilled		Dom. Stock		
(C-35-11)12ddd-1	C-8181	West Enoch Irrig. Assn.	12 1/2	R 250	Drilled	1935	Irr.	4-12-40	-17.86
(C-35-11)13ddb-2	C-8178	East Union Irr. Co.	12 1/2	R 760	Drilled	1934	Irr.	12-13-39	-36.50
(C-35-11)14aac-1	C-13713	W. H. Grimshaw, W. Hunter	16	R 334	Drilled	1930	Irr.	7-13-38	+ 3.08
(C-35-11)14ddd-3	C-14002	D. Marie	8	R 158	Drilled	1932	Irr.	1-13-40	-21.28
(C-35-11)15aab-1	C-13500	L. Haight	2	R 266	Jetted		Dom. Stock		
(C-35-11)15dba-1	C-1214	S. Haight	3	R 83	Jetted		Dom. Stock		
(C-35-11)16dba-1	DS	Mellin Bros.	3	M 104	Jetted		Stock	3-9-54	-10.86
(C-35-11)17dad-1	C-11594	E. M. Corry	3	R 270	Jetted		Stock		
(C-35-11)19bda-1	C-4882	J. Sherratt	3	R 175	Jetted	1923	Dom. Stock	5-3-40	-28.47
(C-35-11)21dcc-1	C-11599	W. R. Wile	12	R 180	Drilled	1931	Irr.	12-7-53	-38.18
(C-35-11)22acb-1	C-6801	Federal Land Bank	2	R 227	Jetted	1913	Dom. Stock	3-3-54	-29.64
(C-35-11)22dcc-1	C-1221	F. Gardner	3	R 61	Jetted		Dom. Stock		
(C-35-11)23bdc-1	C-13746	A. H. Bryant	3	R 100	Jetted		Stock		
(C-35-11)26bbb-1	C-11598	Carlos Jones	4	R 140	Drilled		Dom. Stock		
(C-35-11)27aca-1	C-5222	Walker & Hatterman	12	R 108	Drilled	1934	Dom. Irr.	9-13-52	-56.3
(C-35-11)27acc-1	C-382	F. Gardner	12	R 114	Drilled	1930	Irr.	12-6-51	-50.39
(C-35-11)27adc-1	C-8177	D.R.A.	12 1/2	R 148	Drilled	1934	Irr.	9-15-39	-49.65
(C-35-11)27acd-1	C-20194	L. M. Luke	12	R 150	Drilled	1935	Irr.		
(C-35-11)29abd-1	C-13513	H. L. Jones	6	R 100	Drilled		Dom. Stock		
(C-35-11)31acd-1	C-13498	H. O. Jensen	12	R 248	Drilled	1930	Irr.	7-2-51	-57.86
(C-35-11)32aca-1	A-12242	D. Whitney	12	R 223	Drilled	1936	Irr.	12-4-52	-51.40

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-33-9)35ddd-1	C-13812	State Land Board	12	R 500	Drilled	1912	Irr.	12-3-52	-43.87
(C-33-9)36ddd-1	C-494	H. L. Adams	60-4 $\frac{1}{2}$	R 499	Dug Drill.	1925	Dom. St. Irr.	12-8-53	-51.77
(C-33-10)25ddd-1	C-10612	B. Benson	14 $\frac{1}{2}$	R 15	Dug	1910	Stock	7-19-40	-.96
(C-33-11)29ceb-1	C-13996	J. S. Green	6	R 72	Drilled	1926	Stock	12-2-38	-31.18
(C-33-11)30bca-1	C-13985	H. C. Perry	6	R 64	Drilled				
(C-33-16)25bab-1	DS	Burns		R 50	Well				
(C-33-16)29beb-1	C-19363	J. DelVecchio	48-12	R 55	Dug	1933	P. S.	10-15-41	-49.08
(C-34-8) (Six Mile Spring)		Parowan City Corp.			Spring		P. S.		
(C-34-8) (Main Canyon Spr.)		Parowan City Corp.			Spring		Dom. Stock		
(C-34-9)2bddd-1	C-17526	J. Stubbs	3	R 350	Drilled				
(C-34-9)3bddd-1	C-920	S. A. Halterman	12	R 560	Drilled	1926	Dom. St. Irr.		
(C-34-9)5bda-1	C-3716	H. B. Bayles	4 $\frac{1}{2}$ -3	R 567	Drilled		Stock Irr.		
(C-34-9)6bddd-1	C-13506	O. D. Hyatt	3-2	R 81	Jetted	1905	Stock	12-6-51	- 4.55
(C-34-9)6abdd-1	C-11562	J. W. Bentley	3	R 356	Jetted	1911	Stock	9-8-40	+ 3.63
(C-34-9)7bba-1	C-5125	G. A. Lowe	2	R 110	Jetted	1910	Stock	7-18-40	+ 1.1
(C-34-9)7bddd-1	C-4869	P. H. Gurr	6	R 100	Drilled	1920		3-30-40	-15.73
(C-34-9)9bca-2	C-4871	P. H. Gurr	12	R 500	Drilled	1910	Stock, Irr.		
(C-34-9)16abdd-1	C-13997	J. B. Adams	4	R 73	Jetted	1930	Stock		
(C-34-9)22acd-1	C-6434	H. M. Davenport	5	R 125	Jetted	1923	Dom.	8-6-40	-124.95
(C-34-9)36dao-1	A-15726	Parowan City Corp.	12	R 125	Drilled		P. S.		
(C-34-10)11ddd-1	C-18010	R. M. Lyman	6	R 100	Drilled		Stock	11-30-41	-67.42
(C-34-10)24abdd-1	C-10523	R. J. Green	5	R 90	Jetted	1926	Dom. Stock	12-6-39	-50.15
(C-34-10)25 (Big Spring)		Summit Water System. Co.			Spring		P. S.		
(C-34-11)6		W. Berryessa			Well				
(C-34-11)13bab-1	C-10293	M. Bettridge	2	R 200	Jetted		Stock	6-12-40	+ .38
(C-34-11)29ddd-1	C-20454	Geo. Perry	3	R 260	Drilled		Stock	4-9-40	-16.35
(C-34-11)36adcd-1	C-13704	S. M. Clark	3	M 113	Jetted	1928	Stock	6-11-40	+ 7.15
(C-34-11)36cbo-1	C-10818	G. D. Grimshaw	4	R 60	Jetted		Dom. Irr.		
(C-34-15)1ada-1	C-5230	Bank of So. Utah	1 $\frac{1}{2}$	R 110	Jetted	1890	Stock	3-31-45	+ 2.55
(C-34-16)13bbo-1	Test Well		36	R 8	Dug	1949	Obs.	3-25-50	- 5.14
(C-34-16)17ado-1	C-16392	J. F. Grincil	12	M 31	Drilled	1925		12-13-42	- 8.21
(C-34-16)17adcd-2		Matson	1	R 65	Jetted		Dom.		
(C-34-16)28dccc-2	A-2201	Lorin Reber			Drilled	1948			
(C-34-16)30dccc-1	A-15615	D. F. Shelley	12	M 250	Drilled		Irr.	12-9-49	-10.95
(C-34-16)30dccc-2	C-11721	D. F. Shelley	12	M 34	Dug, Drill.	1919	Irr.	12-13-43	-10.62

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-35-17)1dco-1	A-17073	C. M. Gribble	16	R 260	Drilled	1947	Irr.	9-16-52	-56.0
(C-35-17)24co-1	A-2203	U. Fraily	16	R 165	Drilled		Irr.	3-16-54	-38.10
(C-35-17)7das-1	A-17290	W. V. Adams	12	R 200	Drilled	1947	Irr.		
(C-35-17)12aco-1	C-14229	O. V. Moyle	12	M 71	Drilled	1924	Irr.	5-26-37	-21.90
(C-35-17)12bab	A-12677	A. L. Daniels	12	R 86	Drilled		Irr.		
(C-35-17)12bco-1	A-14024	F. S. Price	12	R 150	Drilled		Irr.	9-16-52	-41.75
(C-35-17)12dco-1	A-2357	A. Barlocker	16	R 200	Drilled	1949	Irr.	10-13-55	-38.20
(C-35-17)13aco-1	A-13614	P. Moyle	18	M 101	Drilled	1944	Irr.	12-17-48	-28.54
(C-35-17)13ado-1	A-13996	P. Moyle	13	R 183	Drilled		Irr.		
(C-35-17)13bdd-1	C-17378	A. Moyle	12	R 75	Drilled		Stock		
(C-35-17)13ccc	A-2077	H. Moyle	16	R 200	Drilled	1949	Irr.	12-7-54	-41.41
(C-35-17)14ccc	A-2017	V. Fraily	16	R 300	Drilled		Irr.		
(C-35-17)23acb-1	A-14749	H. G. Moyle	12	R 125	Drilled	1948	Irr.	7-10-51	-56.5
(C-35-17)36dco	A-16425	M. M. Crosier	16	R 200	Drilled		Irr.	12-6-53	-58.29
(C-35-20)35bab-2	C-11584	J. S. Smith	8		Drilled		Stock		
(C-36-11)5baa-1	A-12636	F. J. Perry	12	R 132	Drilled	1937	Irr.		
(C-36-11)7baa-1	C-4180	A. Stuki	3	R 167	Drilled	1917	Dom. Stock	3-11-54	-26.90
(C-36-11)8aab-1	C-13494	L. Hargrave	10	R 105	Drilled	1915	Dom. Stock	12-7-53	-54.15
(C-36-11)8cab-1	C-8180	DRA	12 1/2	R 200	Drilled	1934	Irr.	9-14-39	-43.10
(C-36-11)8cbb-1	C-317	L. M. Jones	12	R 60	Drilled	1927	Stock	12-11-39	-27.60
(C-36-11)10bco-1	C-12680	Southern Utah Power Co.	10	R 195	Drilled	1928	Irr.	4-6-40	-153.84
(C-36-11)18ada-1	C-4881	H. C. Esplin	12	R 230	Drilled	1929	Stock, Dom.	12-7-53	-44.08
(C-36-11)31add-1	C-8179	DRA	6	R 210	Drilled	1934	Irr.	12-2-34	-120.0
(C-36-12)1aaa-2	C-13995	M. J. MacFarlane	12-6	R 366	Drilled	1929	Irr.	3-13-53	-12.72
(C-36-12)9aaa-1	A-12955	E. L. Jones	6	R 257	Drilled	1939	Stock	5-21-40	+ 3.49
(C-36-12)10ada-1	C-1218	D. C. Wolfskill	12-6	R 389	Drilled	1927	Irr.	4-10-40	+ 2.70
(C-36-12)12dco-1	C-13716	H. W. Leigh	4-2	R 200	Drilled	1910	Dom. Stock	1-17-40	- 9.81
(C-36-12)20aco-1	A-12158	Lehi Jones	8	R 500	Drilled		Irr.		
(C-36-12)21cdd-1	C-10673	D. C. Mallock	3	R 180	Jetted	1912	Stock	12-2-40	+ 8.4
(C-36-12)23ddd-1	C-17279	D. Tharley	6	R 70	Jetted	1898	Stock	5-22-40	-24.07
(C-36-12)26cbb-1	C-13747	E.A. Cox & F.A. Thorley	3	R 113	Jetted	1915	Stock	12-7-53	+ 2.7
(C-36-12)33dco-1	C-18993	A. P. Spillsbury	2		Jetted		Stock	6-10-40	+20.3
(C-36-14) (Core Drilling Hole)	(Test Hole)	Iron Mtn.	2					Flowing 2-gal. minimum	
(C-36-15)4dcd-1	A-2013	W. L. Knell	16	R 235	Drilled	1947	Irr.		
(C-36-15)9dbc		G. Heaton	6	R 175	Drilled		Dom. Stock	12-14-53	-143.54

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(G-35-11)33nac-1	C-5126	Cottonwood Pump & Irr.	16	R 138	Drilled	1930	Irr.	12-6-51	-74.98
(G-35-12)25dad-1	C-18712	D. C. Bullock	3	R 200	Jetted		Stock	4-12-40	- 0.21
(G-35-12)28 (Iron Spr.)					Spring		Stock		
(G-35-12)3nac-1		Federal Land Bank	3		Jetted		Stock	6-10-40	- 7.85
(G-35-14) (Sand Spr.)					Spring		Dom. St. Irr.		
(G-35-15)34		R. D. Clark	16	R 400	Drilled		Irr.	11-29-27	-13.
(G-35-15)34cc-2	C-3788	R. D. Clark	16	R 350	Drilled	1927	Irr.	12-13-46	-14.51
(G-35-15)34dd-1	C-3789	R. D. Clark	16	R 350	Drilled	1927	Irr.	11-29-27	-14.
(G-35-15)10acc-1	C-3784	R. D. Clark	16	R 334	Drilled	1927	Irr.	12-8-49	-14.34
(G-35-15)10acd-1	C-3785	R. D. Clark	16	R 280	Drilled	1927	Irr.		
(G-35-15)10add-1	C-3787	R. D. Clark	16	R 350	Drilled	1927	Irr.	9-24-36	-20.18
(G-35-15)10bac-1	C-3491	W. Martin	10	M 33	Bored		Stock	12-12-42	-16.87
(G-35-15)10bde-2	A-12134	W. Martin	16	R 180	Drilled	1936	Irr.	3-16-54	-15.98
(G-35-15)23ecc	C-11602	K. S. Gardner	6	M 36	Drilled	1929	Stock	12-6-53	-32.92
(G-35-15)28ade-1	A-15021	R. Neene	14	R 180	Drilled		Irr.		
(G-35-15)28bdd-1					Drilled		Irr.		
(G-35-15)33dde		Pancho Jemez	16		Drilled		St. Irr. Dom.	9-7-52	-84.70
(G-35-16)7bbb-1	C-13661	H. L. Austin	16	R 65	Drilled	1932	Irr.	8-29-46	-22.20
(G-35-16)7bde-1	C-14226	Parley Moyle	12	R 75	Drilled	1922	Irr. Stock		
(G-35-16)7ccc-1	A-17796	A. Barlocker	12	M 62	Drilled	1933	Irr.	5-30-37	-19.30
(G-35-16)7ccc-1	A-17133	A. Barlocker		M 243	Drilled		Irr.		
(G-35-16)9add-1	A-15945	Geo. Glove	16	R 150	Drilled	1946	Irr.	10-13-54	-27.65
(G-35-16)10acb-1	C-10338	H. G. Thomas	12	R 103	Drilled	1924	Irr.	12-17-51	-22.59
(G-35-16)14ccc-1	A-16535	F. G. Hunter	12	R 192	Drilled		Irr.	6-30-52	-37.7
(G-35-16)29d		G. Thomas	2	R 25	Jetted		Dom.		
(G-35-16)29dco-1	A-14570	C. A. Thomas	12	R 140	Drilled		Irr.		
(G-35-16)31cab	A-16654	L. V. Robinson		R 160	Drilled		Irr.		
(G-35-16)31ccc	A-15906	H. Miller	12	R 209	Drilled	1946	Irr.	10-13-55	-59.97
(G-35-16)31ddd-1	A-15905	F. B. Dalton	14	R 160	Drilled	1947	Irr.	11-23-52	-62.50
(G-35-16)32acc-1	A-16829	T. C. Alberto	16	R 168	Drilled	1945	Irr.	6-22-53	-55.7
(G-35-16)32cdc	A-16621a	W. Randall	14	R 176	Drilled	1950	Irr.		
(G-35-16)32dcd-1	A-16831	J. C. McGarrey	16	R 452	Drilled		Irr.	12-19-51	-42.70
(G-35-16)33ccb-1	A-16662	C. Quinn	10	R 130	Drilled	1945	Dom.		
(G-35-17)1acc-2	C-17961	H. L. Bennett	16	R 265	Drilled	1947	Irr.	12-5-53	-29.15
(G-35-17)1cdc-1	A-16928	D. H. Forsythe	12	R 207	Drilled		Irr.		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-36-15)15cdd	#2158	T. W. Jones		R 200	Drilled		Dom. St. Irr.		
(C-36-15)16 (Old Castle Spr.)		Town of Newcastle			Spring		P. S.		
(C-36-15)16 (Castle Spr.)		Town of Newcastle			Spring		P. S.		
(C-36-15)18acb-1	A-16851	Bekins	14	R 400	Drilled		Irr.	12-12-50	- 80.50
(C-36-15)19bbb-1	A-14057	A. C. Christensen	16	R 217	Drilled		Irr. Stock	8-22-49	- 81.5
(C-36-15)19ccc-1	A-2101	A. C. Christensen	15		Drilled		Irr.	12-19-51	- 84.02
(C-36-15)20aaa-1 (Pinto Canyon)		Town of Newcastle			Spring		Dom. Stock		
(C-36-16)14dd	A-16852	Bekins	18	R 200	Drilled		Irr.	12-19-51	- 64.43
(C-36-16)4b -3	#R-C-1396	Sevy Bros.	13	M 153	Drilled	1939	Irr.	9-23-41	- 48.65
(C-36-16)5a -9	A-15774	L. Gardner	12	R 200	Drilled		Irr.	7-4-49	- 49.60
(C-36-16)5b-1	A-15147	A. Alger	12	R 150	Drilled		Dom. Irr.	12-7-54	- 66.12
(C-36-16)5b-2	A-15384	H. Sevey	12	R 156	Drilled		Irr.	12-6-53	- 55.22
(C-36-16)5c-1	A-1833	L. Gardner	12		Drilled		Irr.		
(C-36-16)9bcd-1	A-16253	W. Scott	14	R 272	Drilled	1944	Dom. St. Irr.	5-16-54	- 60.19
(C-36-16)13ddd-1	A-2434	A. Christensen	16	R 207	Drilled	1950	Irr.	12-9-50	- 67.13
(C-36-16)19abb-1	A-15511	T. W. Jones	16	R 352	Drilled	1945	Irr.	3-16-54	- 91.20
(C-36-16)21b	C-216	A. Barlocker		R 250	Drilled		Irr.		
(C-36-16)31ccc-1	A-16153	L. Huntsman	14	R 222	Drilled		Irr.	6-22-53	-143.9
(C-36-17)36add	A-16101	H. Bracken	14	R 202	Drilled	1945	Irr.	12-8-54	-124.54
(C-37-12)34dd-1	C-5129	M. M. Vandenberghe	4	R 230	Driven	1929	Dom. Irr.	4-9-40	- 4.55
(C-37-12)9baa-1	C-16350	P. B. Watson	2	R 90	Jetted	1907	Stock	12-7-53	+ 3.32
(C-37-12)11cbb-1	C-15847	J. G. Pace	6	R 90	Jetted	1890	Stock	4-10-40	+ 4.0
(C-37-12)22cbo-1	A-12071	W. J. Williams	16	R 340	Drilled	1936	Irr.	12-9-39	- 87.22
(C-37-12)23acb-1	C-13010	H. O. Pengilly	16	R 250	Drilled	1915	Irr.	12-7-50	- 57.44
(C-37-14)2abb-1	A-11759	Columbia Iron Mine	6 1/2	R 350	Drilled		Dom.		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million											Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			
(C-34-11)13bab-1	9-15-39									/a 256	120	96		1.2	312		GS
(C-34-11)29ddd-1	3-18-40									/b 157	95	8		0.0	252		GS
(C-34-11)36adc-1	9-15-39									/c 242	34	13		0.9	198		GS
(C-34-11)36ebc-1	9-15-39									/d 444	100	33		0.0	472		GS
(C-34-15)1ada-1	8-20-49	490								214	58	21					GS
(C-34-16)13bbc-1	3-26-50	5,170								184		1,560			1,210		GS
(C-34-16)17adc-1	6-16-50	1,740	81		55	22		318		482	195	219	1.9	9.1	140*	75	GS
(C-34-16)17adc-2	6-16-50	495	68		42	15		40		166	57	39	1.0	0.0	344*	34	GS
(C-34-16)28icc-2	6-16-50	1,000	70		118	23		39		159	66	194		2.6	551*	389	GS
(C-34-16)30acc-1	8-22-49	466	62		54	11		25		166	64	20	0.5	2.7	321*	180	GS
(C-34-16)30lcc-2	10-13-23		53		262	35		89		196	289	376		Tr.	1,378	799	GS
(C-34-17)31bcc-2	8-20-49	1,220			137	20		77		186	183	172		6.6	687*	424	GS
(C-34-19)36eda-1	12-6-53		40	.67	58	9.1		77		216	78	53	3.1	5.8	440	182	PH
(C-35-8)4b	12-3-40		16	0.0	59	20		11		281	35	12	0.6	0.0	278		PH
(C-35-10)	3-27-51		15	5.5	0.8	7.4		200			76	8.5	1.3	0.4	575	32	PH
(C-35-10)6cad	9-22-39									/e 208	32	12		2.8	190		GS
(C-35-10)7cad-1	9-16-39									/f 232	40	13		4.2	228		GS
(C-35-11)1acc-1	9-15-39									/g 200	28	12		2.5	194		GS
(C-35-11)1ccd-2	9-15-39									/h 235	26	10		2.7	228		GS
(C-35-11)2ddd-1	9-15-39									335	560	419		0.0	1,470		GS
(C-35-11)4bbd-2	3-18-40									220	1	8		0.8	118		GS
(C-35-11)4dda-1	3-19-40									32	10	13		18	16		GS
(C-35-11)8ddd-1	3-20-40									/i 149	130	6		0.9	279		GS
(C-35-11)9add-1	3-19-40									/j 163	210	12		1.3	412		GS
(C-35-11)10dbd-1	9-16-39									/k 270	270	12		22	532		GS
(C-35-11)12ddd-1	9-16-39									/l 246	32	21			249		GS
(C-35-11)13ddb-2	9-16-39									/m 186	50	26			228		GS
(C-35-11)14aac-1	9-15-39									/n 260	36	15			222		GS
(C-35-11)14ddd-3	9-15-39									361	206	86		125	712		GS
(C-35-11)15aab-1	9-15-39									222	220	10			435		GS

/a includes equivalent of 20 ppm CO₃/b includes equivalent of 15 ppm CO₃/c includes equivalent of 20 ppm CO₃/d includes equivalent of 35 ppm CO₃/e includes equivalent of 10 ppm CO₃/f includes equivalent of 10 ppm CO₃/g includes equivalent of 15 ppm CO₃/h includes equivalent of 4 ppm CO₃/i includes equivalent of 9 ppm CO₃/j includes equivalent of 13 ppm CO₃/k includes equivalent of 4 ppm CO₃/l includes equivalent of 8 ppm CO₃/m includes equivalent of 12 ppm CO₃/n includes equivalent of 12 ppm CO₃

GROUND WATER - IRON COUNTY

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Well Coordinate Number	Date of Collection	Specific Conductance (Micromhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃	
(C-33-9)28abd-1	9-28-39								/a 147	18	18			1.5		100	GS
(C-33-9)33aad-1	9-28-39								/b 200	13	6					180	GS
(C-33-9)34daa-1	9-28-39								229	17	6					204	GS
(C-33-9)34dcd-1	9-28-39								224	15	8					210	GS
(C-33-9)35aad-1	9-28-39								/c 176	30	25					196	GS
(C-33-9)35bad-1	9-28-39								/d 196	10	4					177	GS
(C-33-9)35ddd-1	9-28-39								281	25	11					276	GS
(C-33-9)36ded-1	9-21-39								/e 196	32	34					195	GS
(C-33-10)25cdd-1	3-16-40								/f 206	26	22			0.8		152	GS
(C-33-11)29ecb-1	9-14-39								/g 250	360	90			1.0		264	GS
(C-33-11)30bca-1	9-14-39								/h 212	800	151			0.0		750	GS
(C-33-16)25bab-1	6-16-50	1,060	61		38	7.8		190	/i 245	166	117			2.5	703*	127	GS
(C-33-16)29bcb-1	6-16-50	1,060	57		132	28		43	205	133	160		0.2	6.9	661*	444	GS
(C-34-8)	10-52		16	.23	45	15		12	201	24	5.5	0.0		0.1	198	174	PH
(C-34-8)	10-52		40	.25	61	17		26	249	51	16			0.1	301	224	PH
(C-34-9)2bdd-1	9-29-39								301	16	6					276	GS
(C-34-9)3bcd-1	9-28-39								252	15	6					225	GS
(C-34-9)5bda-1	9-28-39								/j 190	14	4					180	GS
(C-34-9)6bcd-1	3-21-40								/k 164	14	5					120	GS
(C-34-9)6dbd-1	3-16-40								/l 157	18	4			0.0		138	GS
(C-34-9)7bba-1	3-16-40								/m 178	18	4			1.8		156	GS
(C-34-9)7bdd-1	3-16-40								/n 414	360	101			6.4		668	GS
(C-34-9)9bca-2	9-28-39								287	16	7					279	GS
(C-34-9)16abd-1	3-16-40								/o 414	22	4			5.3		345	GS
(C-34-9)22acd-1	3-17-40								/p 358	23	14			55		234	GS
(C-34-9)36dac-1	10-52		21	.21	74	19		20	260	71	13	0.4		0.2	342	264	PH
(C-34-10)11dcd-1	3-17-40								/q 241	20	191			4.2		432	GS
(C-34-10)24abd-1	3-17-40								/r 217	22	8			1.9		171	GS
(C-34-10)25	2-21-41		25	.00	55	12		24	245	21	16	0.2		0.0	280	185	PH
(C-34-11)6	11-12-27				20			44	154	4	30				182	76	GS
/a includes equivalent of 7 ppm CO ₃			/f includes equivalent of 17 ppm CO ₃			/k includes equivalent of 8 ppm CO ₃			/p includes equivalent of 16 ppm CO ₃			/r includes equivalent of 13 ppm CO ₃					
/b includes equivalent of 8 ppm CO ₃			/g includes equivalent of 22 ppm CO ₃			/l includes equivalent of 15 ppm CO ₃			/q includes equivalent of 5 ppm CO ₃								
/c includes equivalent of 6 ppm CO ₃			/h includes equivalent of 8 ppm CO ₃			/m includes equivalent of 12 ppm CO ₃											
/d includes equivalent of 6 ppm CO ₃			/i includes equivalent of 10 ppm CO ₃			/n includes equivalent of 16 ppm CO ₃											
/e includes equivalent of 11 ppm CO ₃			/j includes equivalent of 10 ppm CO ₃			/o includes equivalent of 13 ppm CO ₃											

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(C-35-15)10bac-1	4-25-50	8,960							268		2,200						GS
(C-35-15)10bdc-2	4-25-50	1,780			152	62		136	190	344	295	0.2	0.5	1,150*	634	32	GS
(C-35-15)23ccc	8-20-49	736							168	99	92						GS
(C-35-15)23ccc	4-25-50	658	48		75	24		20	175	79	73		1.5	407*	286	13	GS
(C-35-15)28adc-1	6-16-50	780							266		70						GS
(C-35-15)28bdd-1	6-16-50	828							220		47						GS
(C-35-15)33ddc	5-22-50	907							288		92						GS
(C-35-16)7bbb-1	6-15-50	1,550	63		212	37		45	220	149	307	0.3	11	933	681	13	GS
(C-35-16)7bdc	6-15-50	1,510							158		332						GS
(C-35-16)7ccc-1	8-22-49	1,110							156	110	202						GS
(C-35-16)7ccc	6-15-50	1,070							160		198						GS
(C-35-16)9add-1	6-16-50	473							/a 213		32						GS
(C-35-16)10acb-1	8-22-49	771							190	60	105						GS
(C-35-16)14ccc-1	6-16-50	644							234		57						GS
(C-35-16)29d	8-22-49	779			83	16		29	200	41	88		6.4	362*	273	19	GS
(C-35-16)29dec-1	8-22-49	537							258	23	30						GS
(C-35-16)31cab	6-15-50	533							180		63						GS
(C-35-16)31ccc	6-15-50	438							184		40						GS
(C-35-16)31ddd-1	6-15-50	435							199		30						GS
(C-35-16)32acc-1	6-15-50	465							214		29						GS
(C-35-16)32cdc	6-15-50	351							183		17						GS
(C-35-16)32ded-1	8-22-49	533			66	14		15	176	20	66		5.3	273*	222	15	GS
(C-35-16)33ccb	6-15-50	411							170		37						GS
(C-35-16)33ccb-1	4-17-52		18	.10	98	11		40	215	85	78	0.4	22	520	288		PH
(C-35-17)1acc-2	6-15-50	368							165		22						GS
(C-35-17)1cdc-1	6-15-50	410							158		35						GS
(C-35-17)1dcc-1	6-15-50	404							158		32						GS
(C-35-17)2dcc-1	6-15-50	333							166		13						GS
(C-35-17)7daa-1	8-20-49	561							184	84	34						GS
(C-35-17)12acc-1	6-15-50	980							174		164						GS

/a includes equivalent of 9 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(C-35-11)15dba-1	9-15-39									278	280	30		45		585		GS
(C-35-11)16dba-1	3-19-40									/a 185	210	12		13		450		GS
(C-35-11)17dad-1	3-21-40									249	130	9		8.5		412		GS
(C-35-11)19bda-1	3-15-40									/b 202	120	7		0.0		288		GS
(C-35-11)21dcc-1	5-14-39									151	280	17		10		578		GS
(C-35-11)22acb-1	9-15-39									/c 178	240	11				351		GS
(C-35-11)22dcc-1	9-14-39									306	400	36		17		712		GS
(C-35-11)23bdc-1	9-15-39									244	600	237		260		1,365		GS
(C-35-11)26bbb-1	9-15-39									312	520	172		144		1,170		GS
(C-35-11)27aca-1	5-15-39									443	300	33		56		765		GS
(C-35-11)27acc-1	5-14-39									188	480	16		13		765		GS
(C-35-11)27adc-1	9-15-39									424	180	17		44		615		GS
(C-35-11)27dcd-1	9-14-39									227	600	13				728		GS
(C-35-11)29abd-1	3-19-40									290	240	10		10		468		GS
(C-35-11)31acd-1	9-14-39									294	120	12				435		GS
(C-35-11)32aca-1	9-14-39									290	260	13		11		630		GS
(C-35-11)33aac-1	9-14-39									157	800	17		16		818		GS
(C-35-12)25ddd-1	3-20-40									/d 240	440	24		1.7		698		GS
(C-35-12)28	3-20-40									/e 301	125	35		0.0		405		GS
(C-35-12)34aac-1	3-19-40									419	3	9		0.0		186		GS
(C-35-14)	4-25-50	548			65	13		15		160	20	64		6.9	282*	216	13	GS
(C-35-15)3d	11-29-27		55	.42	59	21	31		3.8	174	105	35		1.0	403	234		GS
(C-35-15)3dcc-2	8-22-48	2,330	68		183	92		206		208	628	318	0.3	11	1,610*	835	35	GS
(C-35-15)3dcc-2	5-3-50	1,560								198		200						GS
(C-35-15)3dcc-2	6-16-50	2,610								220		378						GS
(C-35-15)3ddc-1	11-29-27		72	.27	63	27	45		4.5	156	166	43		.16	518	268		GS
(C-35-15)10acc-1	6-16-50	1,570								163		272						GS
(C-35-15)10acd-1	6-16-50	776								184		77						GS
(C-35-15)10add-1	6-16-50	615								210		41						GS
(C-35-15)10bac-1	8-22-49	8,210	63		568	317		917		254	1,750	1,900	0.2	5.2	5,650*	2,720	42	GS

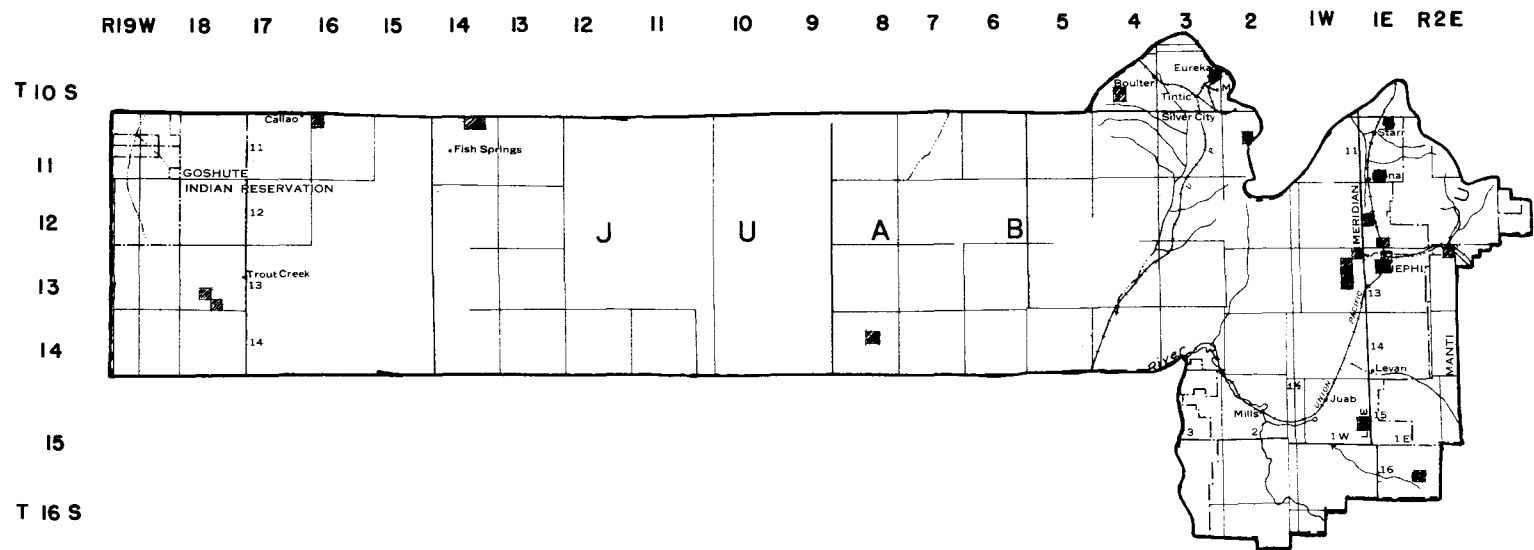
/a includes equivalent of 6 ppm CO₃/b includes equivalent of 18 ppm CO₃/c includes equivalent of 18 ppm CO₃/d includes equivalent of 23 ppm CO₃/e includes equivalent of 20 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃	
(C-36-15)4ded-1	8-22-49	867								294	81	72					GS
(C-36-15)4ded-1	4-28-50	840	58		81	16		77		310	69	68		16	538*	268	38
(C-36-15)4ded-1	6-15-50	851								301		72					GS
(C-36-15)9dbc	6-15-50	1,320	39		166	30		62		340	60	144	0.1	158	827*	538	20
(C-36-15)15edd-1	8-25-49	502								248	20	29					GS
(C-36-15)16	2-7-51		31	.11	66	35		75		359	56	72	0.3	22	538	309	PH
(C-36-15)16	1-9-50		8.5	.00	40	29		69		272	65	57	0.3	3.1	533	168	PH
(C-36-15)18acb-1	8-22-49		62		73	17		66		116	190	63	4.7	0.6	533*	252	36
(C-36-15)19bbb-1	8-22-49	675								216	86	56					GS
(C-36-15)19ccc-1	4-27-50	796								211		84					GS
(C-36-15)20aaa-1	11-9-44		47	.10	88	35		106		378	151	88	0.5		580	361	PH
(C-36-15)20aaa-1	6-15-50	828	45		83	31		61		388	54	65	0.2	2.5	533*	334	29
(C-36-16)1ddd	6-16-50	1,080								148		52					GS
(C-36-16)4b-3	6-15-50	432	48		53	11		18		176	15	37		6.9	276*	178	18
(C-36-16)5a-9	6-15-50	994	45		132	25		22		197	55	177	0.2	13	566*	432	10
(C-36-16)5b-1	6-15-50	451								189		38					GS
(C-36-16)5b-2	6-15-50	472								217		73					GS
(C-36-16)5c-1	6-15-50	388								188		23					GS
(C-36-16)5bcd-1	6-15-50	339								176		17					GS
(C-36-16)13ddc-1	5-10-50	621	33		72	24		22		222	71	49		1.6	382*	278	15
(C-36-16)19abb-1	6-14-50	392								210		18					GS
(C-36-16)21-b	6-15-50	401								182		27					GS
(C-36-16)31ccc-1	6-13-50	488								244		23					GS
(C-36-17)36add	6-13-50	428								210		20					GS
(C-37-12)3ddd-1	9-11-39								/a	145	720	7				518	GS
(C-37-12)9baa-1	9-11-39								/b	123	13	22		1.1		114	GS
(C-37-12)11cbb-1	3-20-40									163	140	8		1.3		184	GS
(C-37-12)22cbc-1	3-20-40									164	115	80		9.6		336	GS
(C-37-12)23acb-1	9-11-39								/c	148	120	11				216	GS
(C-37-14)2abb-1	1-9-50		5.8	.00	34	14		164		200	26	194	0.2	4.4	652	290	PH

/a includes equivalent of 5 ppm CO₃/b includes equivalent of 6 ppm CO₃/c includes equivalent of 8 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃	
(C-35-17)12bab	6-15-50	602								149		86					GS
(C-35-17)12bcc-1	6-15-50	1,010								160		167					GS
(C-35-17)12ddc-1	6-15-50	715	66		84	17			31	160	57	110		2.2	446*	280	GS
(C-35-17)13acc-1	6-15-50	1,500								145		332					GS
(C-35-17)13adc-1	1950	446								159		46					GS
(C-35-17)13bdd-1	6-15-50	1,700	63		221	41			73	126	110	435	0.4	57	1,060*	720	GS
(C-35-17)13ccc	6-15-50	342								165		14					GS
(C-35-17)14ccc	6-15-50	367								164		17					GS
(C-35-17)23acb-1	8-22-49	581								172	74	51					GS
(C-35-17)36dcc	6-15-50	385								169		30					GS
(C-35-20)35bab-2	11-2-50	609	68	.02	76	13	19		7.0	140	67	57	0.4	34	429	243	GS
(C-36-11)5baa-1	3-19-40									/a 193	640	21		10		825	GS
(C-36-11)7baa-1	3-19-40									/b 166	280	25		12		585	GS
(C-36-11)8aab-1	3-19-40									/c 246	600	58		58		825	GS
(C-36-11)8cab-1	5-14-39									398	640	45		18		1,125	GS
(C-36-11)8cbb-1	9-14-39									338	960	67		21		1,365	GS
(C-36-11)10bcc-1	9-29-39									300	880	25		8.5		1,500	GS
(C-36-11)18ada-1	3-20-40									/d 224	640	84		29		960	GS
(C-36-11)31ada-1	3-20-40									/e 230	360	15		11		585	GS
(C-36-12)1aaa-2	3-20-40									/f 175	120	5		0.5		261	GS
(C-36-12)9aaa-1	9-14-39									/g 182	120	6		0.8		288	GS
(C-36-12)9aaa-1	3-20-40									/h 169	150	8		1.3		226	GS
(C-36-12)10ada-1	3-19-40									/i 189	125	6		1.0		288	GS
(C-36-12)12dac-1	3-19-40									/j 152	150	6		0.8		255	GS
(C-36-12)20acc-1	2-14-56	276			30	11				154	6.1	12		1.1		120	GS
(C-36-12)21ccb-1	9-11-39									/k 152	15	8				129	GS
(C-36-12)23ddd-1	3-20-40									/l 163	210	10				330	GS
(C-36-12)26cbb-1	9-11-39									/m 149	180	8		0.0		285	GS
(C-36-12)33dbc-1	3-20-40									/n 151	7	7				112	GS
(C-36-14)	2-14-56	686		.02	57	30				210	47	86		0.6		96	GS
/a includes equivalent of 14 ppm CO ₃			/f includes equivalent of 12 ppm CO ₃			/k includes equivalent of 14 ppm CO ₃											
/b includes equivalent of 4 ppm CO ₃			/g includes equivalent of 8 ppm CO ₃			/l includes equivalent of 6 ppm CO ₃											
/c includes equivalent of 5 ppm CO ₃			/h includes equivalent of 12 ppm CO ₃			/m includes equivalent of 6 ppm CO ₃											
/d includes equivalent of 24 ppm CO ₃			/i includes equivalent of 19 ppm CO ₃			/n includes equivalent of 15 ppm CO ₃											
/e includes equivalent of 16 ppm CO ₃			/j includes equivalent of 10 ppm CO ₃														

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-10-3)12		Town of Eureka	12"x12"	R 90	Dug		P. S.		
(C-10-4)28		Mammoth Mining Co.			Spring		P. S.		
(C-11-2)16 (Control Spr.)		Loose Estate			Spring		P. S.		
(C-11-14)3a (Wilson Spr.)					Spring				
(C-11-14)26ad (Fish Spring)					Spring		Prop. Ind.		
(C-11-16)6c		Town of Callao	2 $\frac{1}{2}$		Drilled		Dom. St.	10/20/52	+ 3.77
(C-13-1)1cdd-1	C-2940	J. H. Lunt	6	R 150	Drilled		Stock		
(C-13-1)11beb-1	Aa 1675	H. C. Crane	4	R 133	Drilled		Stock		
(C-13-1)14abd-1	A-14054	P. C. Hall	4	R 103	Drilled		Stock		
(C-13-1)14bdc-1	A-16073	J. H. Greenhalgh	6	R 135	Drilled		Irr. Stock		
(C-13-1)14dbc-1	C-2159	A. B. Bellistrom	4	M 109	Drilled	1916	Stock		
(C-13-1)23odd-1	C-2941	J. H. Greenhalgh	5 $\frac{1}{2}$	R 120	Drilled	1923	Stock		
(C-13-18)28ccc		Town of Trout Creek	2	R 31	Jetted		Dom.		
(C-13-18)34c		N. Hale	6	R 140	Drilled		Dom. Irr.	10/18/49	+ 5.1
(C-14-8) (Sulfur Hot Spr.)					Spring				
(C-14-8)15 (Trench Hot Spr.)					Spring		Stock		
(C-14-8)15 (Hot Spr.)					Spring		Stock		
(C-15-1)25 (Chicken Creek Spr.)		Town of Levan			Spring		P. S.		
(D-11-1)4ccc-1	C-10472	Federal Land Bank	6	R 68	Drilled		Irr. St.		
(D-11-1)4ccc-2	C-10471	Federal Land Bank	6	R 67	Drilled		Irr. St.		
(D-11-1)32 (Clover Creek Spr.)		Mona City Corp.			Spring		P. S. & Irr.		
(D-12-1)19cdc-1	C-4397	P. P. Christenson	2	R 220	Jetted	1897	Stock	12/14/47	+ 17.4
(D-12-1)19dab-1	C-5270	E. L. Jones	2	R 165	Jetted	1887			
(D-12-1)19dbb-1	C-20185	P. Nielson	2	R 248	Jetted			12/3/54	+ 14.0
(D-12-1)32dab-1	A-18853	Thermalid Western	8	R 300	Drilled		Ind.		
(D-13-1)		Nephi City Corp.			Spring		P. S.		
(D-13-1)		Nephi City Corp.	16	R 308	Drilled		Not used		
(D-13-1)8aac-1	A-22605	Nephi Processing Co.	8	R 265	Drilled		Misc.		
(D-13-2)5 (Bradley Spr.)		Nephi City Corp.			Spring		P. S.		
(D-16-1)15bc			2		Jetted				

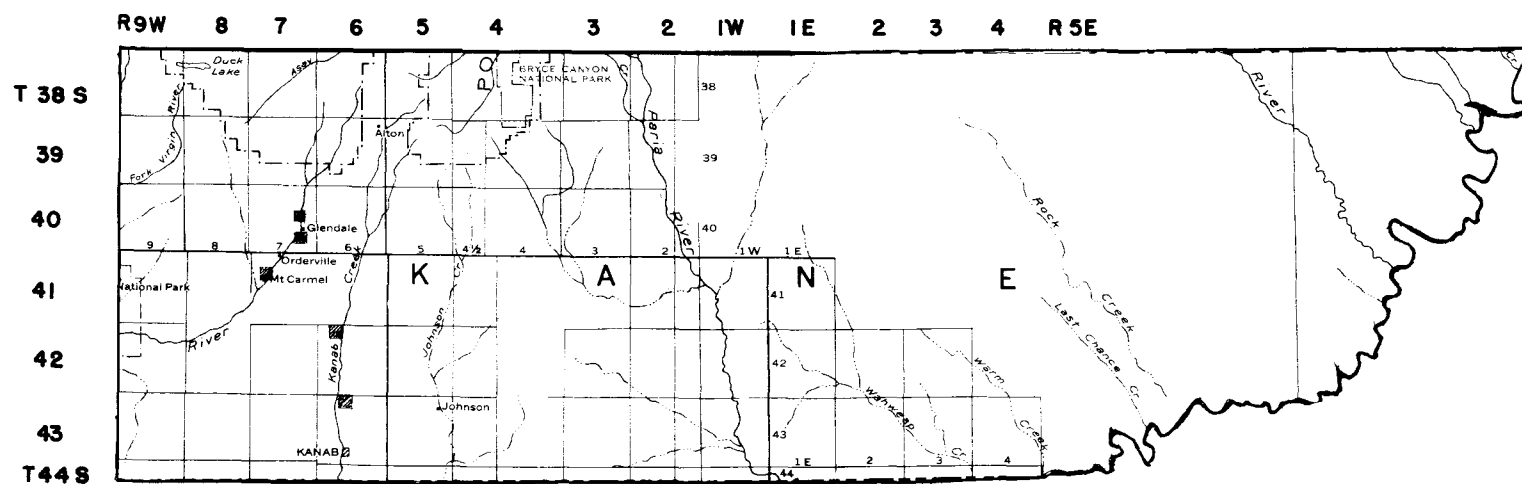


Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million											Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			
(D-13-1)	10/10/53		24	0.57	59	29		152		236	69	192	0.1	74	684	266	PH
(D-13-1)8aac-1	5/16/55		10	6.0	115	48				616		221	0.0	36	852	488	PH
(D-13-2)5	3/23/50		8.8	0.00	64	8.9		3.8		228	3.6	7.2	0.1	3.5	234	196	PH
(D-16-1)15bc	11/7/51	661	66							308	16	61	0.1	3.4			GS

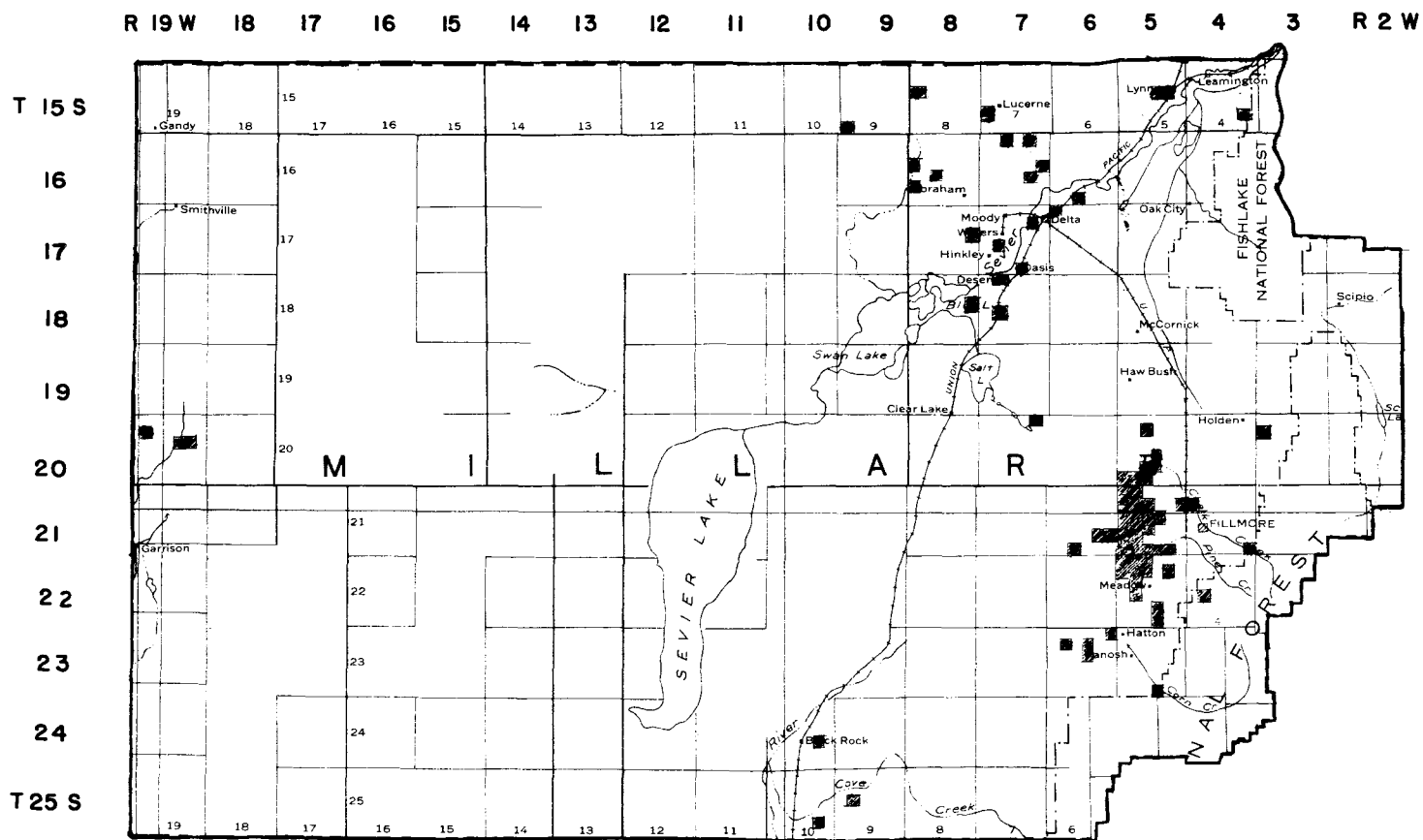
Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃	
(C-10-3)12	11/8/46	536	55	0.04	61	12	29		4.6	186	41	46	0.2	0.8	349	202	GS
(C-10-3)12	7/12/55		53	5.5	51	12		57		145	130	34	0.7	0.0	350	176	PH
(C-10-4)28	6/11/41		23		86	17		46		323	36	58	0.3	0.0	426	283	PH
(C-11-2)16	6/11/41		36	0.10	83	25		39		336	50	47	0.4	0.0	450	308	PH
(C-11-14)3a	10/9/55	31,700					7,530			183	1,550	12,100				2,700	GS
(C-11-14)26ad	3/26/56	3,170	22	0.01	100	58	485		42	311	386	648	1.2	4.4	1,900	488	GS
(C-11-16)6c	11/2/54	360	26		30	8.1	29			93	19	52		1.6	212*	108	GS
(C-13-1)1cdd-1	10/18/51	1,030	28		72			97		291	73	158	0.2	5.6	614*	332	GS
(C-13-1)11bec-1	10/17/51	1,610	24		110	44		185		423	114	278	0.4	0.6	964*	456	GS
(C-13-1)14abd-1	10/18/51	557	49		36	32		31		186	26	76	0.3	0.7	343*	222	GS
(C-13-1)14bdc-1	10/18/51	771	37		50	33		70		279	50	93	0.2	0.7	471*	260	GS
(C-13-1)14dbc-1	8/15/51	772	54		52	29		69		266	46	92	0.2	3.4	477*	248	GS
(C-13-1)14dbc-1	10/18/51	760	56				65		5.7	267		91					GS
(C-13-1)23cdd-1	8/15/51	869	36		58	36		66		210	65	136	0.2	6.5	504*	292	GS
(C-13-18)28ccc	10/18/49	897	31		48	23		113		254	90	110	1.2	0.0	541*	214	GS
(C-13-18)34c	10/18/49	489	27		35	6.6		68		250	27	20	0.6	0.4	308*	114	GS
(C-14-8)	11/12/27				440			703		156	560	1,410			3,170	1,172	GS
(C-14-8)15	6/21/38			11.1	340					163	700	1,480					GS
(C-15-1)25	8/22/39		12	0.10	187	60		68		317	483	68			1,220	714	PH
(D-11-1)4ccc-1	8/15/51	481	19		49	26		16		250	23	22	0.8	2.8	282*	230	GS
(D-11-1)4ccc-2	10/9/51	454	19		46	27		13		249	21	18	0.1	1.6	268*	226	GS
(D-11-1)32	6/21/41		21		44	18		6.9		189	24	15	0.8	0.0	204	184	PH
(D-12-1)19cdc-1	8/15/51	1,360	34		86	37		147		262	102	248	0.2	20	802*	366	GS
(D-12-1)19cdc-1	10/19/51	1,330	35		86	39	138		6.7	257		249	0.2	15		375	GS
(D-12-1)19dab-1	10/18/51	1,420	27		118	38		135		425	89	205	0.0	18	839*	450	GS
(D-12-1)19dbb-1	10/18/51	1,210	29		75	34		132		252	88	223	0.2	2.2	708*	327	GS
(D-12-1)32dab-1	2/8/50	1,480	22	0.05	134	38		118		446	86	190	0.2	30	874	490	GS
(D-12-1)32dab-1	8/15/50	1,510	26	0.09	142	40		131		484	93	202		31	903*	519	GS
(D-13-1)	12/3/53		15	0.29	88	22		54		335	24	81	0.1	9.9	502	308	PH
(D-13-1)	8/29/51	2,970			86	32		711		293	165	1,050			2,190*	346	GS

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-40-7)14cd		Town of Glendale			spring		Dom.		
(C-40-7)26a		Town of Orderville			springs (3)		P. S.		
(C-41-7)8c		Mt. Carmel Pipeline Co.			spring		P. S.		
(C-43-6)5		Town of Kanab			spring		P. S.		
(C-44-6)4a	N. C.	Elmo Brown			drilled		stock		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids		
(C-40-7)14cd	2-12-41		3.6	0.25	35	5.8		22		214	2.8	9.0	0.8	0	178	109	PH
(C-40-7)26a	1-15-52		10	.00	89	45		14		350	134	4.8	1.5	.3	486	407	PH
(C-41-7)8c	6-10-53		16	.02	162	62		24		514	238	13	0.5	28	735	660	PH
(C-43-6)5	8-28-51		2.8	.44	45	18		9.5		229	4.0	9.1	0.0	4.4	202	186	PH
(C-44-6)4a	4-8-49	10,600	18		596	616		1,700		728	6,020	590		17	9,920	4,020	48 GS



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-14-8)10c		Baker Hot Spring			Spring		Bath		
(C-15-4)26acc-1	A-23085	Fool Creek Irrigation Co.	16	R 600	Drilled		Irr.		
(C-15-5)14bba-1	A-15440	U.P.R.R.	16	R 500	Drilled		RR & Dom.		
(C-15-5)15cab-1	C-4270	U.P.R.R.	10	R 471	Drilled		RR & Dom.		
(C-15-7)30bdd-1	C-3393	Mary Rose Billings	1 1/2	R 170	Jetted		Irr.		
(C-15-8)18				R 300	Drilled				
(C-15-9)31c		Warm Springs			Spring		P.S.		
(C-16-3)		Town of Leamington			Spring				
(C-16-6)33bad	A-2405	CAA	6	R 302	Drilled	1943	Dom.	10-12-51	-117.0
(C-16-7)2cbe-1	C-17674	F. Shurtz	1 1/2	R 400	Drilled		Stock	11-30-53	+ 5.6
(C-16-7)4add-1	D.S.	L. N. Hinckely	1 1/2	R 284	Drilled				
(C-16-7)13cad-1	A-22461	J. H. Jones	1 1/2	R 288	Drilled		Stock	4-13-55	+ 18.5
(C-16-7)23dad-1	A-17048	H. Hansen	2	R 300	Drilled		Stock	8-12-53	+ 1.2
(C-16-8)18daa-1		War Relocation Authority	1 1/2		Jetted		Dom.	12-6-46	+ 1.77
(C-16-8)21bbb-1	A-14997	War Relocation Authority	26-12	R 855	Drilled	1942	Dom.		
(C-16-8)21beb-1	A-15048	War Relocation Authority	26-12	R 988	Drilled	1942	Dom.		
(C-16-8)21cbb-1	A-15049	War Relocation Authority	24	R 658	Drilled	1942	Dom.		
(C-16-8)30		Abraham Hot Springs			Spring				
(C-17-4)		Town of Oak City			Spring		P.S.		
(C-17-6)5		Town of Delta		R 500	Drilled		P.S.		
(C-17-7)11 (well #2)		Town of Delta	12	R 865	Drilled		P.S.		
(C-17-7)20ebb-1	C-12287	W. J. Webb	1 1/2	R 356	Drilled				
(C-17-7)34ebd-2	A-22771	G. Peterson	2	R 598	Drilled		Dom. St. Irr.		
(C-17-8)13cdd-1	D.S.	E. Wright	1 1/2	R 150	Drilled		Stock	4-14-55	+ 5.72
(C-18-7)5aan-2	C-17621	S. A. Webb	1 1/2	R 300	Drilled		Dom. St.	10-17-35	+ 6.4
(C-18-7)20abb-1	A-21352	R. Sken	2	R 540	Drilled				
(C-18-8)13cdd-1	A-17265		1 1/2	R 425	Drilled		Not used		
(C-20-3)7 (Maple Canyon)		Holden Town Corp.			Spring		P.S.		
(C-20-5)9daa-1	C-44731	W. E. Turner	6 1/2	R 330	Drilled		Irr.	9-21-36	+ 23.3
(C-20-5)22boc-1	C-7671	G. Rowley	6	R 400	Drilled	1919	Dom. St.	3-20-51	+ 12.3
(C-20-5)27beb-1	C-8203	C. H. Erickson	12	R 601	Drilled	1934	Irr.	10-17-35	+ 4.75
(C-20-5)27ebb-1	D.S.	John Roberts	4	R 286	Drilled	1930	Stock	11-16-44	+ 2.1
(C-20-5)28cdd-1	C-12173	C. W. Mannhard	4	R 354	Drilled	1931	Dom. St.	11-16-44	+ 10.3
(C-20-5)28daa-1	C-7680	J. W. Payne	4 3/4	R 330	Drilled	1923	Dom. St.		
(C-20-5)28add-1	C-4011	A. Gull	4	R 309	Drilled	1932	Dom. St.		



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-21-5)20bab-1	C-6333	J. D. Bushnell	6 1/2	R 445	Drilled	1925	Dom. Irr.	6-9-41	+ 7.0
(C-21-5)20bab-1	"R" C-6333	A. Johnson	10	R 580	Drilled	1953	Irr.	12-23-53	+ 51.6
(C-21-5)20cca-	C-1377	F. M. Christensen	5 5/8	M 488	Drilled	1925	Dom. St. Irr.	3-24-41	+ 34.6
(C-21-5)20cca-	"R" C-1377	C. J. Christensen	8	R 630	Drilled	1953	Irr.	12-2-54	+ 54.4
(C-21-5)20dda-	C-3808	M. E. Ray	7 5/8	M 323	Drilled	1915	Dom. St. Irr.	3-10-44	+ 26.1
(C-21-5)20dda-2	C-3809	M. E. Ray	6 5/8	M 145	Drilled	1915	Dom. St. Irr.	1-22-41	+ 15.0
(C-21-5)21bba-1	C-7683	W. D. Tomkinson	7 5/8	M 281.1	Drilled	1918	Dom. St. Irr.	2-28-41	+ 14.9
(C-21-5)21bba-1	C-7684	E. Tomkinson	7 5/8	R 279	Drilled	1915	Dom. St. Irr.	2-28-41	+ 15.4
(C-21-5)21cda-1	"R" C-7684	E. Tomkinson	16-12	R 650	Drilled		St. Irr.		
(C-21-5)21cbb			16-12	R 650	Drilled		St. Irr.		
(C-21-5)29aaa-1	C-6225	S. Utley	6	R 252	Drilled		Irr.		
(C-21-5)29aac-1	C-6231	S. Utley	6	M 315	Drilled	1922			
(C-21-5)29aad-1	C-6223	S. Utley	6 1/2	M 290	Drilled	1922		5-3-43	+ 12.3
(C-21-5)29bda-1	C-2670	L. Rasmussen	7 1/2	M 207	Drilled	1916	Dom. Irr.	11-18-44	+ 30
(C-21-5)29bda-1	"R" C-2670	L. Rasmussen	12	M 437	Drilled	1953	Irr.	3-22-54	+ 44.7
(C-21-5)29cad-1	C-2668	M. Rasmussen	6 3/4	M 440	Drilled	1926	Dom. St. Irr.	5-7-43	+ 29.5
(C-21-5)29ccd-1	C-3334	J. C. Christensen	9 5/8	M 366	Drilled	1921	Irr.	5-7-43	+ 10.9
(C-21-5)29cda-1	C-14347	Flowell Farms Inc.	6	R 380	Drilled	1927	St. Irr.	11-16-44	+ 33.3
(C-21-5)29ddd-1	C-14350	Flowell Farms Inc.	6	M 277	Drilled	1927	St. Irr.	5-14-43	+ 16.2
(C-21-5)20ada-1	C-3292	S. Utley	8-4	R 470	Drilled	1925	Dom. St. Irr.	3-8-41	+ 52.5
(C-21-5)30caa		J. C. Christensen	3	R 350	Drilled	1944	Dom.	11-15-44	+ 30.9
(C-21-5)30dad-1	C-3301	Zimmerman & Hunter	6 5/8	M 420	Drilled	1928	Irr.	3-8-41	+ 44.4
(C-21-5)30atd-1	C-3333	J. Carling	6	M 313	Drilled	1929	Dom. St. Irr.	11-16-43	+ 41.7
(C-21-5)31acb-1	C-7674	R. Sweeting	6	R 390	Drilled	1931	Dom. St. Irr.	4-1-41	+ 43.6
(C-21-5)31cdd-1	C-6236	S. Utley	6	M 252	Drilled	1926	Irr.	5-19-43	+ 5.9
(C-21-5)32acb-1	C-8884	Flowell Farms Inc.	10	M 250	Drilled	1935	St. Irr.	5-13-43	+ 17.5
(C-21-5)32bcb-1	C-2666	T. C. Hutton	6	M 285	Drilled	1927	Irr.		
(C-21-5)32bcb-1	C-3900	Flowell Farms Inc.	8	M 254	Drilled	1931	St. Irr.	11-15-44	+ 36.9
(C-21-5)33bec-1	C-14345	Flowell Farms Inc.	6	R 245	Drilled	1927	St. Irr.	3-26-41	+ 19.6
(C-21-5)33bec-2	C-14344	Flowell Farms Inc.	6	R 318	Drilled	1927	St. Irr.	3-25-54	+ 29.2
(C-21-5)33dec-1	C-7831	C. Dehliquist	8	R 200	Drilled	1915	Irr.	11-30-45	+ 3.2
(C-21-5)34bbb-1	C-11577	W. E. Black	8	R 200	Drilled	1915	St. Irr.	12-24-42	- 12.00
(C-21-5)35caa-1	C-1312	C. A. Davies	4	R 120	Drilled	1926	Dom. St.	11-30-45	- 94.70
(C-21-5)25dab-1		R. Rasmussen	36	M 20	Dug		Unused	12-14-45	- 12.15
(C-21-5)26bb		(Ice Springs)			Spring		Unused		

Well Coordinate Number	Class or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-20-5)31acd-1	C-1836	D. Kiser	6	R 508	Drilled	1919	Dom. St. Irr.	11-16-44	+ 23.7
(C-20-5)32aaa-1	C-620	O. Walch	6 5/8	R 490	Drilled	1926	Stock	10-28-44	+ 18.1
(C-20-5)33bba-1	C-1657	S. W. Smith	6	R 325	Drilled	1930	Stock	11-16-44	+ 8.3
(C-20-5)33bda-1	DS	Robt. Saquine	6	M 360	Drilled		Stock	11-16-44	+ 12.1
(C-20-7)2 (Clear Lake)		State Fish & Game Comm.			Spring		Bird Refuge		
(C-20-19)7bcc-1	D	M. Sorenson	6-3	R 380	Drilled	1915	Obs.	11-3-54	+ 3.01
(C-20-19)14b		G. S. Quate	60	R 11	Dug		Irr.		
(C-20-19)15bdc-1	L-21013	W. C. Goodman	24	R 56	Drilled		Irr.		
(C-21-4)7bbc-1	L-17867	A. Brunson	6	R 73	Drilled		Stock	7-24-44	- 34.56
(C-21-4)36		Town of Fillmore			Spring		P.S.		
(C-21-5)5bba-1		Sam Utley			Drilled		Irr.		
(C-21-5)6acd-1		Sam Utley			Drilled				
(C-21-5)6dba-1	C-11967	D. V. Dimmick	6	R 400	Drilled	1928	Dom. St. Irr.	12-2-54	+ 9.3
(C-21-5)7odd-1	D.S.	I. Christensen			Drilled		Irr.		
(C-21-5)8bab-1	C-16511	State of Utah	6	R 445	Drilled	1924	Dom. St.	1-6-40	+ 3.7
(C-21-5)8bbd-1	A-22038	A. Swallow	16	R 407	Drilled	1950	Irr.	12-2-52	- 16.08
(C-21-5)8bdc-1	C-1374	L. B. Owens	6	M 317	Drilled	1917	Dom. St.	1-6-40	+ 5.8
(C-21-5)9dc-1	C-6221	J. Carling	6 7/8	R 300	Drilled	1916	Dom. St.	3-31-52	- 8.06
(C-21-5)12bd-1	C-18478	T. C. Hatton	6	R 120	Drilled	1928	Dom. St.	12-1-45	- 67.58
(C-21-5)15abb-1	D.S.	M. Hansen	8	R 400	Drilled		Dom. St.	11-29-45	- 37.72
(C-21-5)16cc-1	C-15150	State Land Board	6	M 254.3	Drilled	1928	Irr.	11-14-44	+ 15.9
(C-21-5)17adc-1	C-8774	Noall Bros. Farm	7 5/8	M 236	Drilled	1917	Dom. Irr.		
(C-21-5)17bdd-1	C-11209	D. A. Brinkerhoff	6 1/8	M 393	Drilled	1917	Dom. St. Irr.	11-17-44	+ 38.2
(C-21-5)17cda-1	C-1375	J. C. Christensen	6 1/8	M 410	Drilled	1931	St. Irr.	1-10-41	+ 41.7
(C-21-5)17edd-1	C-1376	J. C. Christensen	6 1/8	M 315	Drilled	1919	Dom. St. Irr.		
(C-21-5)18ada-1	C-2667	O. Peterson	6	M 453	Drilled	1930	St. Irr.	3-24-41	+ 25.9
(C-21-5)18add-1	C-2217	O. Peterson	6 1/8	R 508	Drilled	1919	Dom. St. Irr.	4-27-43	+ 8.1
(C-21-5)18ddd-1	C-4715	W. Jackson	6 5/8	R 376	Drilled	1918	Dom. St. Irr.	2-18-41	+ 19.3
(C-21-5)19aad-1	C-13528	A. Huntsman	6 1/8	M 455	Drilled	1918	Irr.	4-7-41	+ 23.8
(C-21-5)19ada-1	C-13525	A. Huntsman	5 5/8	M 337	Drilled	1918	Dom. St.	11-16-44	+ 27.3
(C-21-5)19ada	*R* C-13525	D. R. Robinson	10	R 600	Drilled	1955	Dom. St. Irr.		
(C-21-5)19ccd-1	A-16407	H. H. Hatton	4	R 60	Drilled		Dom. St. Irr.		
(C-21-5)19daa-1	C-13526	A. Huntsman	7 7/8	M 403	Drilled	1917	Irr.	9-7-38	+ 16.2
(C-21-5)19daa-2	C-13527	A. Huntsman	7 5/8	M 232	Drilled	1915	Dom. St. Irr.	4-7-41	+ 17.0
(C-21-5)19acd-1	L-2665	T. C. Hatton	7 5/8	M 330	Drilled	1917	Dom. St. Irr.		
(C-21-5)19acd-2	L-6228	S. Utley	8	M 334	Drilled	1918	Dom. St. Irr.	2-1-40	+ 27.6
(C-21-5)20aaa-1	L-150	M. L. Robinson	7 5/8	R 334	Drilled	1916	Dom. St. Irr.	2-22-41	+ 23.4

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis by	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(C-14-8)10c	10-9-53		58	0.82	354	50		870		175	698	1,490	3.5	3.4	3,840	1,090		PH
(C-15-4)26dco-1	8-26-52		13	.09	53	14		27		203	34	28	.05	6.4	262	189		PH
(C-15-5)14bda-1	5-23-41		20	.00	37	29		53		207	55	72	.4	.0	375	211		PH
(C-15-5)14cab-1	10-25-46		21	.00	40	29		54		232	49	66	.3	.0	388	210		PH
(C-15-7)30bdd-1			22		12			123		137	76	91			396	54		GS
(C-15-8)18	4-19-54				88	58		1,491		108	806	1,960				458		GS
(C-15-19)31c	10-21-55	508					32			250	29	26				198		GS
(C-16-3)	5-23-41		11	.00	20	5.0		9.5		79	10	12	.3	.0	110	71		PH
(C-16-6)33bad	5-29-52	329	31	.05	19	20	18		2.4	168	10	15	.2	1.8	198	130	23	GS
(C-16-7)2cbo-1	4-14-55	495	25		24	18	55			132	54	58		.1	299*	134	47	GS
(C-16-7)13cad-1	4-13-55	438	25		28	20	31			132	44	45		1.0	259*	152	31	GS
(C-16-7)73dad-1	4-19-55	824	32		11	5.4	154			192	82	112		.2	492*	50	87	GS
(C-16-7)4add-1	4-14-55	464	22		16	11	62			132	51	52		.1	279*	85	61	GS
(C-16-8)16tan-1	12-6-46	644	32		3.3	1.1		152		a/276	39	54		.2	417*	12	96	GS
(C-16-8)21bb-1	12-6-46	636	35		4.6	.6		143		b/250	36	61		.2	404*	18	95	GS
(C-16-8)21bbb-1	12-3-47	631	29		3.8	1.1		143		c/242	36	63		.2	395*	14	96	GS
(C-16-8)21bbb-1	2-24-49	642	27	.02	4.3	2.0	143		2.6	d/246	36	64	1.0	.0	397	18	93	GS
(C-16-8)21bec-1	12-6-46	2,920	46		35	14		580		209	196	730		.3	1,706*	145	90	GS
(C-16-8)21bec-1	12-3-47	2,520	41		28	11		510		e/217	173	615		.2	1,480*	115	91	GS
(C-16-8)21bec-1	2-24-48	3,200	42	.21	37	15	643		5.8	206	215	825	1.1	.9	1,880	154	90	GS
(C-16-8)21ebb-1	12-6-46	649	31		3.6	1.5		148		f/261	41	57		.3		15	96	GS
(C-16-8)30	1-3-39	66			350	52		854		168	705	1,470		.0	3,800	1,090		GS
(C-17-4)	6-19-41		8.6	.00	65	29		16		336	9.6	24	.2	.0	337	282		PH
(C-17-6)6	4-3-52		9.4	.13	22	6.2		60		149	30	38	.0	.5	254	80		PH
(C-17-7)11	7-22-53		38	.00	14	6.4		69		159	20	43	.5	.1	273	62		PH
(C-17-7)20ebb-1	4-19-55	662	29		7	4.6	144			g/342	21	33		.3	407*	36	90	GS
(C-17-7)34ebd-2	4-13-55	738	32		6.5	5.0	171			h/408	27	30		.1	473*	36	91	GS
(C-17-8)13odd-1	4-19-55	845	26		7.0	3.7	194			i/428	33	45		.2	520*	32	93	GS
(C-18-7)5aaa-2	4-15-55	870	28		7.0	4.8	194			j/394	26	71		.1	525*	37	92	GS
(C-18-7)20abb-1	4-1-55	1,590	28		6.5	7.4	341			k/492	146	181		.6	952*	44	94	GS

a/ Includes 25 ppm CO₃

b/ Includes 9 ppm CO₃

c/ Includes 14 ppm of CO₃

d/ Includes 22 ppm of CO₃

e/ Includes 14 ppm of CO₃

f/ Includes 12 ppm of CO₃

g/Includes 14 ppm of CO₃

h/Includes 22 ppm of CO₃

i/Includes 31 ppm of CO₃

j/Includes 16 ppm of CO₃

k/ Includes 12 ppm CO₃

a/ Includes 25 ppm CO₃b/ Includes 9 ppm CO₃c/ Includes 14 ppm of CO₃d/ Includes 22 ppm of CO₃e/ Includes 14 ppm of CO₃f/ Includes 12 ppm of CO₃g/ Includes 14 ppm of CO₃h/ Includes 22 ppm of CO₃i/ Includes 31 ppm of CO₃j/ Includes 16 ppm of CO₃k/ Includes 12 ppm CO₃

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-21-6)23bhd		(Squidike Spring)			Spring		Stock		
(C-22-4)20	(Willow Spring)	Meadow City Inc.			Spring		P. S.		
(C-22-5)4bba-1	2-6334	J. E. Tope	5'x7'	R 10	Dug	1931	Dom. St.		
(C-22-5)4aca-1	C-12961	J. E. Davies	8	R 218	Drilled	1919	Dom. St. Irr.	11-30-45	- 17.78
(C-22-5)5aca-1	C-11975	L. A. Brunson	6 1/4	M 248	Drilled	1920	Dom. St. Irr.	11-11-43	+ 13.5
(C-22-5)5bba-1	C-15853	S. Utley	6	R 280	Drilled	1928	St. Irr.	2-28-45	+ 28.9
(C-22-5)6acd-1	C-6232	S. Utley	7 7/8	R 319	Drilled	1916	St.	11-15-44	+ 21.6
(C-22-5)7acd-1	C-11971	L. Stott	7 1/2	M 390	Drilled	1915	St.	5-21-44	+ 42.6
(C-22-5)7ead-1	C-11972	L. Stott	7 1/2	M 175	Drilled	1915	St.		
(C-22-5)8aad-1	C-12230	W. Watts	6	M 325	Drilled	1924	Dom. St. Irr.	2-2-43	+ 7.3
(C-22-5)8ada-1	C-10474	R. E. Stott	8	R 270	Drilled	1919	St. Irr.	11-18-44	+ 13.6
(C-22-5)9ead-1	C-10473	R. E. Stott	6	R 460	Drilled	1927	Irr.	3-26-41	+ 33.03
(C-22-5)9dbb-1	C-2232	R. Sweeting	11	R 196	Drilled	1915	Dom. St. Irr.		
(C-22-5)11aac					Spring		Stock		
(C-22-5)11aad					Spring		Stock		
(C-22-5)17aac-1	C-3296	W. Blake	6	R 375	Jetted	1926	Irr.	3-21-51	+ 33.5
(C-22-5)20acd-1	C-5011	P. L. Greenhalgh	7	R 282	Drilled	1925	Dom. St. Irr.	12-1-45	+ 18.0
(C-22-5)27add-1	(Farm Spr.)	(Temp. 95° F.)			Spring				
(C-22-5)34bba-1	(Devil's Bridge Spr.)				Spring				
(C-23-5)34	(Kanosh City Spr.)	Town of Kanosh			Spring		P.S.		
(C-23-6)1cad-1	2-12538	W. George	6	R 146	Drilled		Obs.	12-1-48	- 46.90
(C-23-6)8bba-1	2-16582	C. H. Watts	6	R 100	Drilled	1920	Stock	12-6-49	- 25.31
(C-23-6)10ebb-1	2-19930	C. A. Kimball	12-18	R 96	Drilled		Irr.		
(C-23-6)15bba-2	A-16512	G. D. Staples	16	R 200	Drilled	1950	Irr.		
(C-23-7)13			18	R 115	Drilled	1955	Irr.		
(C-23-19)9		(Burbank Springs)			Spring				
(C-24-10)23		(Black Rock Springs)			Spring				
(C-24-9)17					Tunnel		Stock		
(C-25-10)26d		J. E. Sponder	60	R 20	Dug		Dom. St.		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis by		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃
(C-22-5)4dan-1	11-18-44	1,210			96	30		117		281	138	172		1.0		363		GS
(C-22-5)5aca-1	5-31-43	1,230			94	31		121		254	164	174		1.5		362		GS
(C-22-5)5bba-1	5-31-43	1,650			127	44		164		246	274	260		1.0		498		GS
(C-22-5)6aad-1	5-31-43	1,550			148	52		101		280	238	230		.5		584		GS
(C-22-5)7bdd-1	11-20-44	778			56	20		75		268	49	81		.8		222		GS
(C-22-5)7cad-1	4-11-43	675			66	25		44		236	41	88	0.9	1.8		268		GS
(C-22-5)8aad-1	5-31-43	1,240			126	36		76		256	118	208		1.5		462		GS
(C-22-5)8cda-1	4-11-43	1,100			96	32		99		304	74	182	1.1	1.2		371		GS
(C-22-5)8cdd-1	5-31-43	939			62	23		106		280	63	131		1.0		249		GS
(C-22-5)9dba-1	11-20-44	992			83	26		83		262	60	154		.5		314		GS
(C-22-5)11aac	4-8-43	1,950			145	46		227		308	255	370	1.1	2.6		551		GS
(C-22-5)11aad	4-8-43	2,020			129	44		263		318	237	400	.9	2.6		503		GS
(C-22-5)17aac-1	4-8-43	844			69	23		82		268	51	118	1.1	2.6		266		GS
(C-22-5)20aad-1	4-11-43	548			58	19		40		252	28	48	.2	6.8		222		GS
(C-22-5)27ddd-1	4-8-43	7,350			464	95	1,150			a/452	1,040	1,830	3.9	2.0		1,550	62	GS
(C-22-5)34baa-1	4-8-43	11,300			720	169	1,950			b/340	1,950	3,120	5.0	1.0		2,490	63	GS
(C-23-5)34	6-14-41		8.0	0.0	59	18	21			268	9.8	28		.0	276	222		PH
(C-23-6)1cad-1	11-20-44	863			81	39		28		239	47	123		7.1		362		GS
(C-23-6)8bdb-1	11-20-44	6,400			354	287		761		317	1,610	1,260		.6		2,060	44	GS
(C-23-6)10ebb-1	10-15-53	3,060								380	358	635				748		GS
(C-23-6)10ebb-1	10-15-53	3,270	51	.09	226	67	380		51	386	393	695	1.4	9.7	2,160	840	48	GS
(C-23-6)15bdd-2	3-19-51	11,900	50	.10	695	185	1,960			396	1,570	3,390	2.2		8,180	2,490	63	GS
(C-23-7)13	5-4-55	3,530								368	439	780				856		GS
(C-23-19)	11-3-54	687	17		81	32	14			222	157	8		.7		334	8	GS
(C-24-10)23	11-4-50	649	55							145	53	98		.9				GS
(C-24-10)23			54		39	13		40		132	53	54			322*	151		GS
(C-25-9)17	3-21-55	462	48	.02	39	12	35		4.5	130	40	52	.5	1.9	299	147	33	GS
(C-25-10)26d	10-15-23		50		296	108		383		149	748	785		8.8	2,670	1,180		GS

a/ Includes 30 ppm of CO₂b/ Includes 12 ppm of CO₂

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(C-18-8)13cdd-1	4-15-55	10,400	29		119	58	2,130		114	820	3,150		1.3	6,360*	536	90	GS	
(C-20-3)7	4-29-41		13	8.5	63	26		22	323	10	22	0.1	8.5	327	263		PH	
(C-20-5)9daa-1	4-11-43	1,600			236	78		53	300	656	67	.2	.5	1,240	910	11	GS	
(C-20-5)22bec-1	11-17-44	1,420			115	84		85	244	453	102		1.2	960	632		GS	
(C-20-5)27bec-1	4-11-43	1,850			178	130		79	248	687	162	.4	2.6	1,360	978	15	GS	
(C-20-5)27ebb-1	11-16-44	633			45	42		22	230	70	50		.4	343*	285		GS	
(C-20-5)28cdd-1	11-16-44	720			52	46		26	247	107	43		.4		319		GS	
(C-20-5)28daa-1	11-16-44	699			54	44		14	244	70	52		.4		316		GS	
(C-20-5)28ddd-1	11-16-44	632			49	38		28	247	72	43		.8		278		GS	
(C-20-5)31acd-1	11-16-44	1,130			92	57		60	235	189	145		1.5		464		GS	
(C-20-5)32aaa-1	4-8-43	800			34	34		85	a/158	52	160	.2	.2		225		GS	
(C-20-5)33bba-1	11-16-44	746			32	29		78	166	55	123		1.0		199		GS	
(C-20-5)33bda-1	11-16-44	985			55	48		77	228	139	121		1.0		335		GS	
(C-20-7)2	4-11-43	1,990			98	78		221	b/238	267	400	.3	7.5		565		GS	
(C-20-19)7bec-1	11-3-54	330	17		36	13	14		164	16	17		1.8		143		GS	
(C-20-19)14b	11-29-27		23	.03	47	19	15		1.9	232	15	15		.1	240	195	GS	
(C-20-19)15bdc-1	10-21-55	355	28		44	10	23		1.5	178	12	23	.3	.7	230*	151	25	
(C-21-4)7bbc-1	11-17-44	628			84	33		36	397	13	10		2.0		345	3	GS	
(C-21-4)36	8-7-51		14	.07	47	7.5		36		6.2	16	.0	.9	236	204		GS	
(C-21-5)5bbe-1	5-31-43	1,650			127	44		164	246	274	260		1.0		498		GS	
(C-21-5)6acd-1	5-31-43	1,550			148	52		101	280	238	230		.5		584		GS	
(C-21-5)6dba-1	5-31-43	484			45	26		16	228	26	28		1.0		220		GS	
(C-21-5)7cdd-1	7-7-54	1,140	27		89	41			343	179	96		13		390		GS	
(C-21-5)8bab-1	11-22-44	674			61	28		43	260	74	49		.6		267		GS	
(C-21-5)8bbd-1	7-7-54	558	20		61	22			254	31	40		5.6		245		GS	
(C-21-5)8bdc-1	5-31-43	525			48	25		28	248	32	32		1.0		223		GS	
(C-21-5)9cdc-1	5-31-43	463			50	25		9.7	242	11	27		1.0		228		GS	
(C-21-5)12bad-1	11-17-44	670			61	31		43	397	28	11		3.2		280		GS	
(C-21-5)15dbb-1	11-18-44	647			74	30		25	353	13	41		1.7		308		GS	
(C-21-5)16bcc-2	4-8-43	553			68	29		21	336	14	24	.0	12		288		GS	

a/ Includes 10 ppm CO₃b/ Includes 12 ppm CO₃

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(A-3-2)1b	(Robinson Spr.)	Town of Morgan			spring		P.S.		
(A-3-2)10d		Richville Pipeline Co.			spring		P.S.		
(A-3-2)12	(Brants Spr.)	Town of Morgan			spring		P.S.		
(A-3-2)26a		West Porterville Pipeline Co.			spring		P.S.		
(A-4-2)4dd	(Spring Hallow)	Enterprise Culinary Water Co.			spring		P.S.		
(A-4-2)6		Peterson Pipeline Co.			spring		P.S.		
(A-4-2)25	(Morgan Spr.)	Town of Morgan			spring		P.S.		
(A-4-2)34ccb-2	C-9919	Littletown Water Co.	4'x4'	18	dug		P.S.		
(A-4-2)36cbd-1	A-11813	Town of Morgan	8	105	drilled		P.S.		
(A-4-4)19		Ideal Cement Co.			spring		dom.		
(A-4-4)20	(Hay Hallow Spr.)	Croydon Pipeline Co.			spring		P.S.		

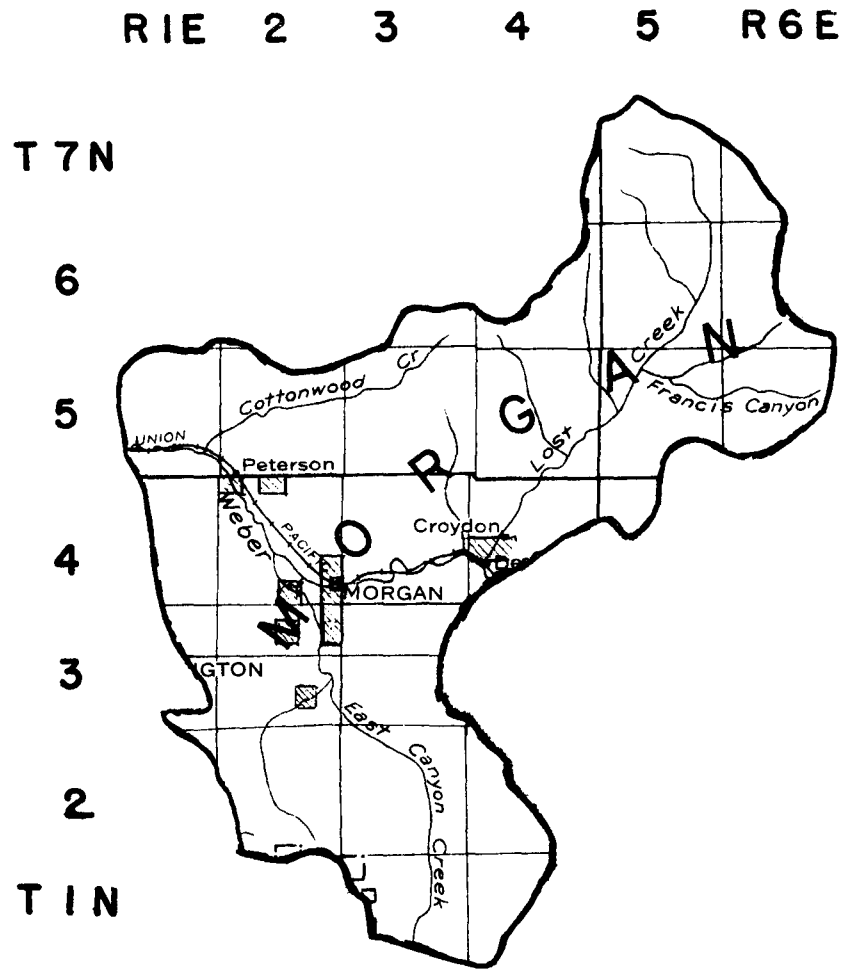
Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids
(A-3-2)1b	1-11-52		6.8	.07	59	30		9.9		310	18	9.7	0.0	0.6	286	270	PH
(A-3-2)10d	3-14-51		36	.00	85	8.8		21		307	3.7	30	0.1	0.6	360	249	PH
(A-3-2)12	1-11-52		10	.00	69	34		35		361	20	44	0.0	1.0	410	310	PH
(A-3-2)26a	9-21-50		44	.05	89	23		72		345	19	53	0.2	11	466	312	PH
(A-4-2)4dd	9-21-50		22	.29	54	21		29		258	13	39	0.0	0.8	298	221	PH
(A-4-2)6	9-21-50		7.6	.07	18	5.1		14		87	17	4.2	0.0	0.1	90	66	PH
(A-4-2)25	2-3-41		1.4	.00	56	33		14		318	20	16	0.1	0.0	327	276	PH
(A-4-2)34ccb-2	12-50		31	.02	74	27		29		301	22	21	0.2	5.3	412	295	PH
(A-4-2)34ccb-2	12-18-52		27	.10	71	22		27		356	4.5	19	0.2	0.9	332	267	PH
(A-4-2)36cbd-1	6-11-36		21	.60	95	23		18		354	47	28		Tr.	476	232	PH
(A-4-4)19	3-22-51		8.5	.40	61	18		45		286	47	31	0.0	0.1	338	224	PH
(A-4-4)20	9-21-50		30	.02	68	27		62			100	48	0.3	10	484	281	PH

/a includes 8 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)					
(C-21-5)29aaa-1	1-1955	1,650	18	0.03	146	60	137		7.9	298	377	182	0.0	4.6	1,120	611	32	GS	
(C-21-5)29aac-1	11-20-44	630			54	24		24		226	44	36		3.9		234		GS	
(C-21-5)29aad-1	11-20-44	530			54	20		27		253	31	22		6.9		217		GS	
(C-21-5)29abd-1	11-18-44	647			63	23		36		265	48	44		.6		252	24	GS	
(C-21-5)29bdd-1	3-4-54	1,350	14	.07	119	47	99		7.9	288	212	174	.1	7.4	846	490	30	GS	
(C-21-5)29bdd-1	7-7-54	1,100	16		98	34				269	162	129		9.3		386		GS	
(C-21-5)29cad-1	5-31-43	1,350			109	44		115		252	228	182		2.5		453		GS	
(C-21-5)29cdd-1	5-31-43	1,430			126	42		124		280	235	200		2.0		487		GS	
(C-21-5)29odd-1	3-29-54	1,800	17	.08	170	54	132		18	288	293	280	.6	4.1	1,170	646	30	GS	
(C-21-5)29dea-1	4-8-43	1,780			181	51		171		302	362	287	.1	3.0		661	36	GS	
(C-21-5)29ddd-1	5-31-43	632			56	20		49		234	51	57		4.2		222		GS	
(C-21-5)30ada-1	5-31-43	1,170			80	46		101		230	181	163		1.5		388		GS	
(C-21-5)30aaa	11-21-44	1,300			105	45		118		274	221	175		1.9		447		GS	
(C-21-5)30dad-1	5-31-43	1,400			114	52		110		282	208	205		1.0		498		GS	
(C-21-5)30dbd-1	4-11-43	1,230			111	40		107		296	172	178	.1	2.5		442		GS	
(C-21-5)31acb-1	11-18-44	1,390			116	37		121		253	188	212		3.9		442		GS	
(C-21-5)31odd-1	4-11-43	1,840			176	47		175		318	323	293	1.0	1.5		632	38	GS	
(C-21-5)32acb-1	5-31-43	1,120			108	35		63		212	78	208		2.5		414		GS	
(C-21-5)32beb-1	5-31-43	980			76	32		72		190	98	154		2.5		321		GS	
(C-21-5)32bed-1	11-18-44	1,490			124	46		130		238	212	258		2.7		498	36	GS	
(C-21-5)33bce-1	5-31-43	907			82	27		60		208	45	162		1.0		316		GS	
(C-21-5)33bec-2	5-31-43	876			78	23		70		226	107	102		1.5		289		GS	
(C-21-5)33dec-1	5-31-43	794			58	22		78		174	64	136		4.8		235		GS	
(C-21-5)34bbb-1	5-31-43	431			34	22		23		159	13	58		.5		176		GS	
(C-21-5)35cda-1	11-22-44	596			80	16		21		285	46	20		2.0		266		GS	
(C-21-6)25dab-1	11-22-44	7,020			207	285		951		255	1,090	1,710		1.0		1,690	55	GS	
(C-21-6)26bb	11-19-44	8,450			274	181		1,380		234	914	2,320		4.0		1,430	68	GS	
(C-21-6)33cbd	11-22-44	4,230			231	93		564		340	526	962		3.0		909	56	GS	
(C-22-4)20	4-29-41		14		27	5.8		7.8		100	8.6	13	.1		125	80		PH	
(C-22-5)4baa-1	11-17-44	861			77	22		67		233	46	130		7.0		282		GS	

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-27-4)20		Town of Marysvale			Spring		P.S.		
(C-29-4)17		Town of Junction			Spring		P.S.		
(C-30-2½)17		Town of Kingston			Spring		P.S.		
(C-30-4)21c		Town of Kingston			Spring		P.S.		

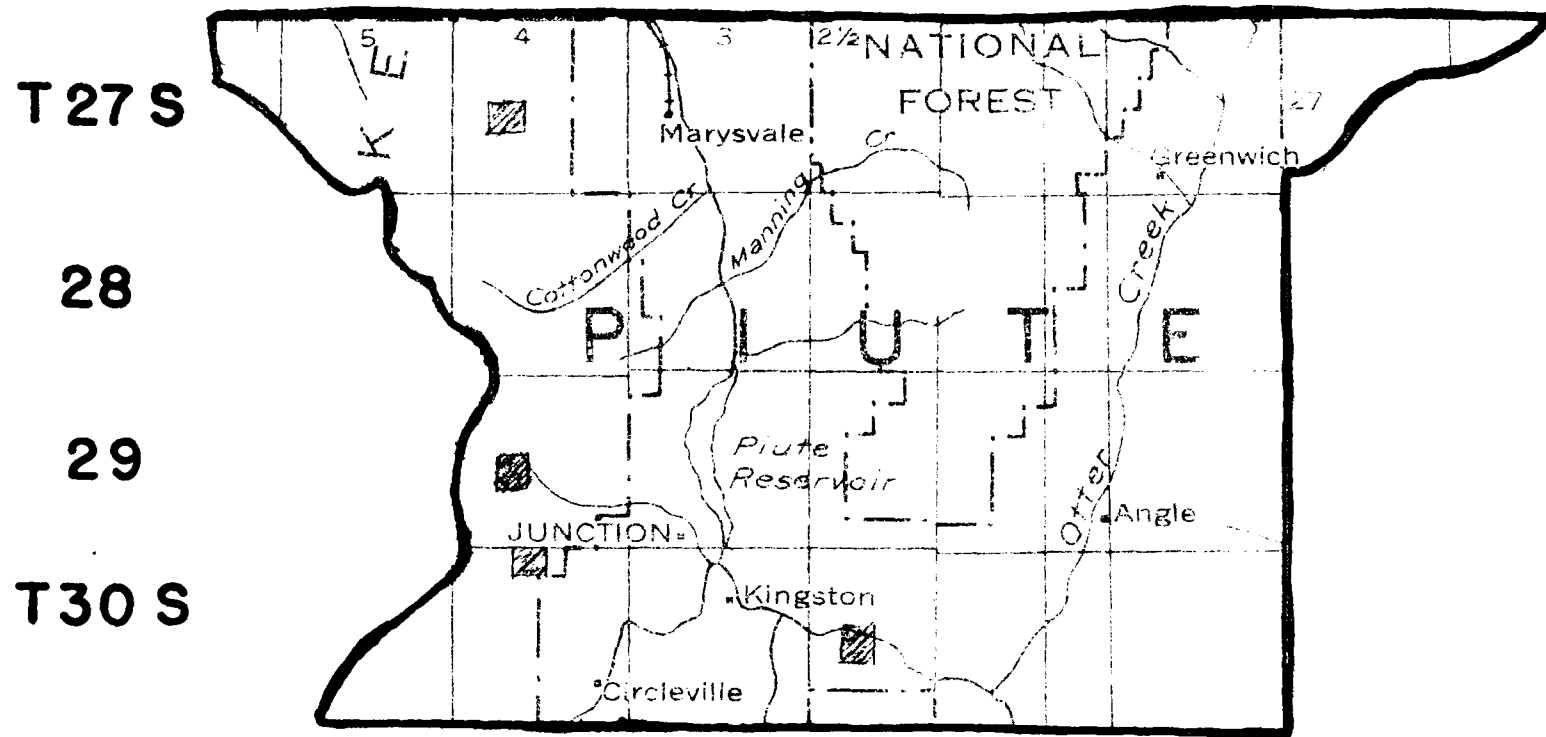
Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million											Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	
(C-27-4)20	1-25-52	5.3	.16	112	9.5		0.0		156	214	25	0.0	0.2	403	318	PH
(C-29-4)4	3-28-41	28	0	22	7.4		9.5		104	7.8	9.0	0	0	136	84	PH
(C-30-2½)17	5-14-53	18	.82	44	5.8		32		206	5.9	18	0.4	4.4	232	134	PH
(C-30-4)21c	10-24-51	50	.24	26	1.4		35		142	14	9.7	0.5	0.4	179	70	PH



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(A-9-7)25cbc-2	A-21946	Desert Livestock Co.	6	R 300	drilled		stock	10-21-46	- 16.12
(A-10-7)22aca-1		W. D. Cornia	6	R 50	drilled		dom.		
(A-11-7)21baa-1	A-13818	L. Jackson	6	R 300	well			10-19-55	- 12.96
(A-11-7)21bca-1		L. Jackson			drilled		stock	10-20-48	- 11.72
(A-12-5)4d		Irrigation Co.			spring		fisheries		
(A-12-5)13	test well	Town of Laketown	6	R 125	spring	1931	P.S.	10-27-47	+ 6.77
(A-13-6)30bb		Rich County			jettied		obs.		
(A-14-5)		Garden City			spring		P.S.		
(A-14-5)31		Town of Pickelville			spring		P.S.		
(A-14-5)33		Town of Pickelville			spring		P.S.		

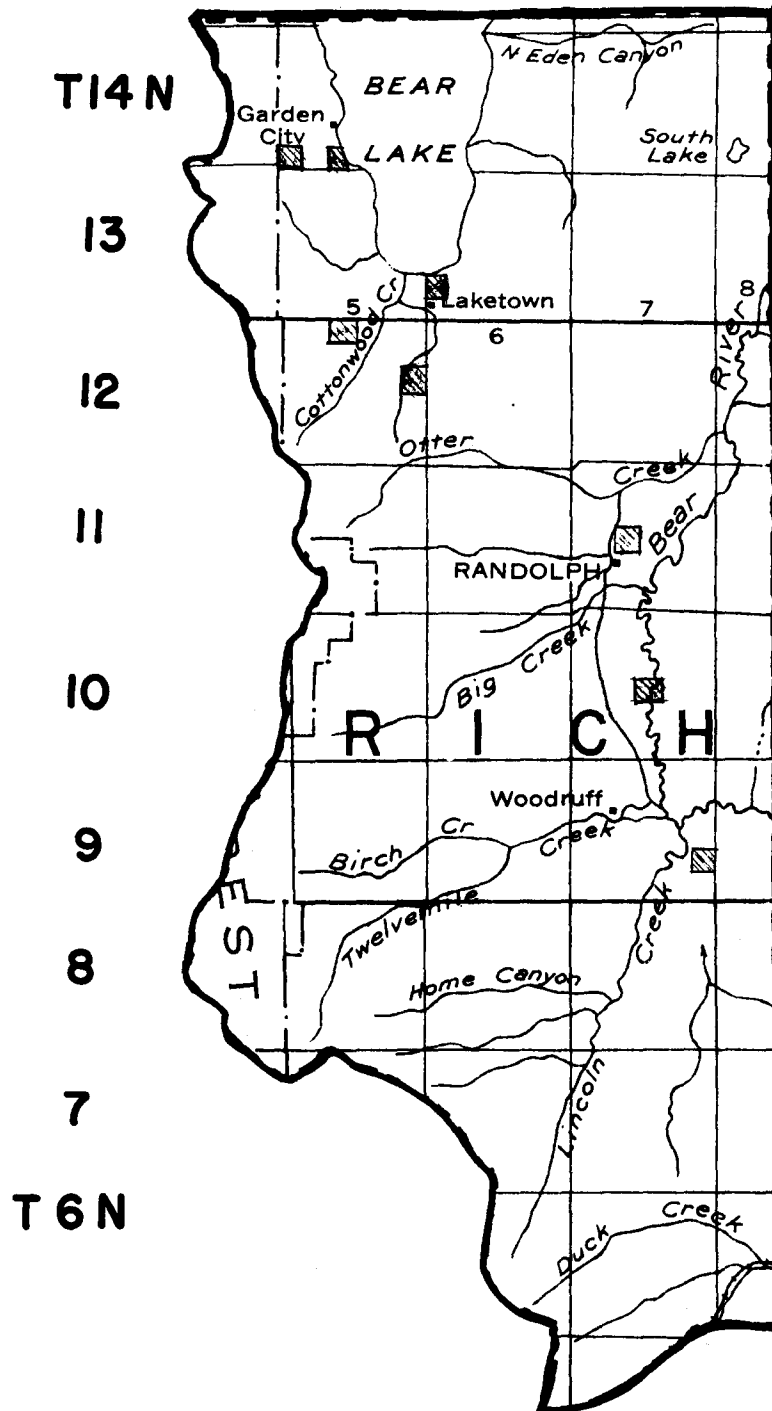
Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(A-9-7)25cbc-2	11-3-54	6,070	19		414	157	672		50	589	1,800		1.4	3,680*	1,680	47	CS	
(A-10-7)22aca-1	1-28-52			3.9	4.6	65	38		68	156	32	3.6	1.2	0.0	332	319		TH
(A-11-7)21baa-1	11-2-54		674	18		84	24	30		360	40	28		4.3	405*	310	17	CS
(A-11-7)21bca-1	11-2-54		1,710	25		88	107	114		636	133	155		98	1,030*	660	27	CS
(A-12-5)4d	8-7-40			4.6	.00	50	14		12	220	6.0	14		0.0	210			PH
(A-12-5)13	12-5-39	419	4.8	.00	60	16		9.1	246	11	14	0.1	0.0	247	213		TH	
(A-13-6)30bb	11-2-54		32		57	18		9.1	256	14	19		0.0	275*	215	8	CS	
(A-14-5)17	7-14-55			6.6	.10	47	9.6		49	211	77	6.0	0.8	1.0	202	158		PH
(A-14-5)31	6-19-41		10	.00	73	6.2		13	254	5.8	16	0.6	Tr.	247	207		TH	
(A-14-5)33	8-21-55		44	.00	91	18		17	358	20	10	0.3	11	362	302		PH	

R 6W 5 4 3 2½ 2 1W 1E R 2E



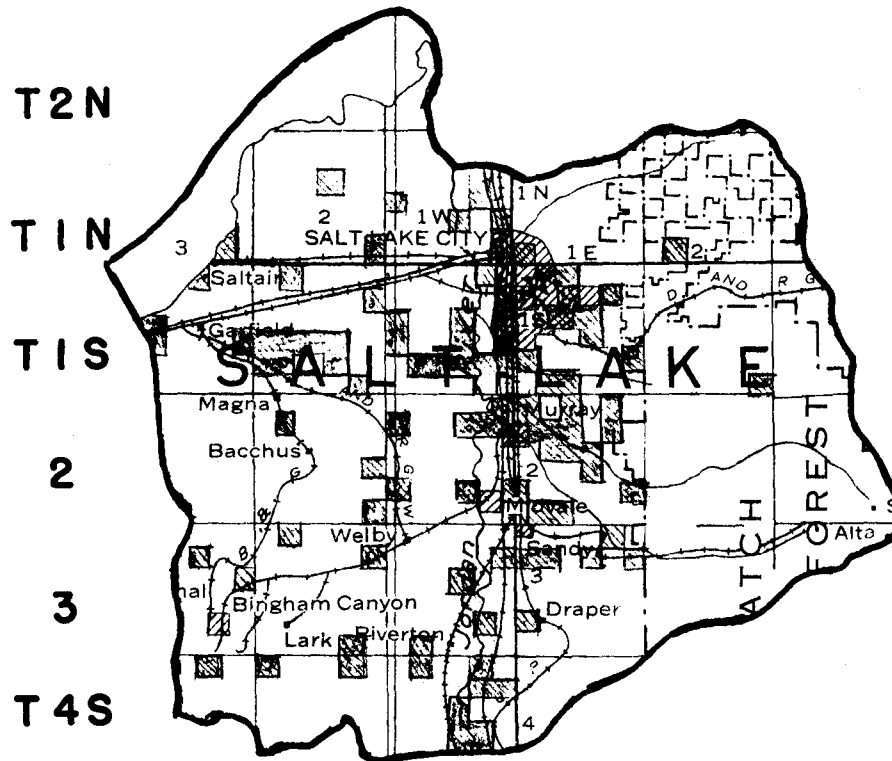
Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(A-1-1)31acb-1	C-1479	L.D.S. Hospital	12-8	R 470	Drilled	1932	Dom.		
(A-1-1)31cac-1	A-11816	S.L.C. Corp.	20	R 464	Drilled		P. S.		
(A-1-1)31cca-1	C-4837	S.L.C. Corp. #1056	15 -12	R 186	Drilled	1934	P. S.	6/26/35	-116.27
(A-1-2)32d		H. C. Hoggan			Dug		Dom.		
(B-1-1)5ddd-3	C-13479	C. F. Gilmore	6	R1000	Drilled	1896	St. Irr.		
(B-1-1)11caa		W. Morrow		R 75	Drilled				
(B-1-1)114 (Hobo Spr.)					Spring				
(B-1-1)114 (Mellen Hole Spr.)					Spring				
(B-1-1)114 (Sanatorium Spr.)					Spring				
(B-1-1)114deb-3		Beck's Hot Spring			Spring		Baths		
(B-1-1)19baa-3	C-18182	E. J. Jeremy	2	R 490	Jetted		Stock	10/2/35	+ 7.0
(B-1-1)19baa-5	C-18181	E. J. Jeremy	2	R 450	Jetted		Stock	8/2/35	+ 16.95
(B-1-1)19bab-1	C-18174	E. J. Jeremy	2	R 450	Jetted		Stock	4/14/32	+ 26.9
(B-1-1)234aa-1	C-15292	Utah Sand & Gravel	36	R 60	Well		Ind.		
(B-1-1)25db(Wasatch Warm Spr.)					Spring		Bathing		
(B-1-1)27odd-3		S.L.C. School Dist.	2	R 500	Jetted	1900	Obs.	10/2/35	+ 8.35
(B-1-1)27deb-2	C-9181	Davis & Callister	2	R 234	Jetted	1927	Dom.	10/2/35	+ 5.48
(B-1-1)36abc-1	C-16080	Utah Oil Co.	2		Jetted		Dom.	10/4/51	+ 15.6
(B-1-2)15beb-2	C-13482	Gilmore Bros.	3	R 300	Jetted	1920	Stock	9/27/51	+ 11.62
(B-1-2)36baa-1	C-18176	E. J. Jeremy	2	R 464	Jetted		Stock	1/4/52	+ 14.2
(B-2-2)28					Spring				
(B-2-2)35cdc-1	C-19035	Lake Front Gun Club	2		Jetted		Ind.Dom.	10/2/35	+ 5.25
(C-1-1)2eda-1		J. D. Brown	2	R 115	Jetted	1926	Dom.	5/23/46	+ 4.65
(C-1-1)12cc		Kital, McCullough	4	R 620	Drilled		Dom.		
(C-1-1)12cc		Kital, McCullough	4	R 830	Drilled		Ind.		
(C-1-1)12cdc-2	C-3358	O. P. Tilbury	2	R 185	Jetted		Dom.	7/20/37	+ 2.34
(C-1-1)13ado-1	C-7215	S.L.C. Corp. #1036	3	R 500	Jetted	1900	Dom.	6/30/35	+ 16.3
(C-1-1)13dac-1	C-2733	Utah Poultry Assn.	3	R 864	Jetted	1932	Ind.		
(C-1-1)13dad-1	D.S.	Frank Rigby	3		Jetted		Dom.		
(C-1-1)15abb-2	C-9172	E. M. Davis	2	R 138	Jetted	1927	Dom.Irr.	12/22/41	+ 4.12
(C-1-1)18bba-1	C-15668	J. C. Phelps	2	R 315	Jetted	1895	Irr.	10/15/41	+ 2.3
(C-1-1)19aab-1		L. J. Starika	3	R 535	Jetted		Dom.		
(C-1-1)22bda-1	C-2199	W. Gedge	2	R 325	Jetted	1906	Dom.Irr.	12/28/52	+ 10.8
(C-1-1)22eda-2	A-23665	Granite School Dist.	6	R 450	Drilled		Dom.		

R4E 5 6 7 R8E



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-1-2)35aca-2	C-1859	F. D. Marshall	2	R 64	Jetted	1929	Dom.St.		
(C-1-3)3add-1	C-13400	Royal Crystal Salt Co.	2	R 345	Driven	1915	Ind.	10/24/35	+ 3.95
(C-1-3)3add-2	C-13401	Royal Crystal Salt Co.	2	R 689	Driven	1915	Ind.	5/31/33	+ 25.4
(C-1-3)17dcb-1	A-26531	American Smelting	20	R 496	Drilled	1955	Ind.		
(C-1-3)20		Black Rock Beach			Spring		Dom.		
(C-1-3)20		Garfield Smelter			Spring		Cooling, Bath		
(C-1-3)24bbb-1	A-12431	Kennecott Copper Corp.	20		Drilled		Dom.		
(C-2-1)11bab-2	C-4058	C. S. Walters	2	R 198	Jetted	1915	Dom.St.	10/1/51	+ 14.50
(C-2-1)7ecc-1	A-14744	Camp Kearns	12	R 919	Drilled	1942	Dom.	7/15/42	-151.0
(C-2-1)10abd-1	C-4029	D. T. Homander	4	R 180	Drilled	1895	Dom.	3/6/33	- 13.12
(C-2-1)11bad-1	A-23932	G. Boam	3	R 373	Jetted		Dom.		
(C-2-1)12bbb-1	C-4179	D. Davis	1	R 130	Jetted	1901			
(C-2-1)27ddc-1	C-6342	D. R. Bateman	2	R 235	Jetted	1911	Dom.	3/6/33	+ 5.1
(C-2-1)30oda-1	C-6526	H. Cooley	4'x4'	R 40	Dug		St.		
(C-2-2)8		Hercules Powder Co.			Wells				
(C-2-2)8aaa-2	C-2935	Hercules Powder Co.	6	R 173	Drilled		Dom.		
(C-2-2)8aaa-3	D. S.	Hercules Powder Co.	6	R 295	Drilled		Dom.	6/6/36	- 66.12
(C-2-2)24aaa-1		O. Peterson	36	R 113	Dug		St.	10/25/35	- 92.42
(C-3-1)12		Allred Spring			Spring		Irr.		
(C-3-1)15bdc-1	C-2052	So. Jordan Pipeline Co.	6	R 358	Drilled	1913			
(C-3-1)15bda-2	A-12302	So. Jordan Pipeline Co.	8	R 360	Drilled		P. S.		
(C-3-1)26					Spring				
(C-3-1)26cad-1	D. S.	F. Bagley	3		Jetted		Obs.	12/1/46	+ 24.2
(C-3-1)26cab-1	C-18763	E. Nielsen	4	R 180	Driven		St. Dairy	12/7/32	+ 13.9
(C-3-1)32cdc-1	A-26240	Town of Riverton	12	R 670	Drilled		P. S.		
(C-3-2)		Town of Harriman			Drilled		P. S.		
(C-3-2)5adb-1	A-a-1922	Kennecott Copper Corp.	20	R1200	Drilled		Irr. Dom.		
(C-3-2)12a (Wine drain)		Harriman Irr. Co.			Drain		Irr.		
(C-3-2)35		Town of Harriman			Spring		P. S.		
(C-3-2)35bdc-1	A-25680	R. I. Bowles	8	R 269	Drilled		Irr.		
(C-3-3)10cc (Dry Fork Spr.)		Town of Bingham			Spring		P. S.		
(C-3-3)13dbc-T	A-25201	Town of Copperton			Tunnel		P. S.		
(C-4-1)24db-1	A25322	Utah State Prison	8	R 825	Drilled		Dom.		
(C-4-1)5ecb-1	C-6806	Ross Hardy	6	R 185	Dug & Jetted	1920	Dom. St.	10/31/34	-142.04

R3W 2 RIW R1E 2 R3E



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-1-1)29cdc-8	A-12893	Fish & Game Dept.	3	R 400	Jetted		Fish		
(D-1-1)29cdc-9	A-12893	Fish & Game Dept.	4	R 140	Jetted		Fish		
(D-1-1)30		G. T. Harrop		R 250	Drilled		Dom. Irr.		
(D-1-1)30		C. E. Price	2	R 253	Jetted		Dom. Irr.		
(D-1-1)30bbc-1	C-3114	F. Youngreen	2	R 324	Jetted	1931	Dom.	5/25/34	+ 12.0
(D-1-1)30bbc-9	C-8879	L. W. Anodt	2	R 285	Jetted	1932	Dom.	8/3/51	+ 7.0
(D-1-1)30ddb		Granite School Dist.	8	R 640	Drilled		Dom.		
(D-1-1)31cad-4	C-4121	W. Sorenson	2½	R 220	Jetted	1890	Dom.	12/26/40	+ 11.55
(D-1-1)31dab-1	C-1524	Granite School Dist.	2		Jetted		Dom.		
(D-1-1)31dc	A-25191	J. Hulse	3	R 375	Jetted		Dom. St. Irr.		
(D-1-1)32bab-16	C-7345	L. L. Hamilton	3	R 298	Jetted	1910	Dom.	10/18/33	+ 13.60
(D-1-1)32cdc-2	C-9265	L. L. Hamilton	4	R 185	Jetted	1909		2/8/34	+ 11.82
(D-1-1)32dc		R. C. Martin			Drilled		Dom.		
(D-1-1)32dcd-13	A-24187	R. S. Lawrence	2½	R 190	Jetted		Dom.		
(D-1-1)34ba1-1	C-4833	S.L.C. Corp.	15½	R 237	Drilled		P. S.		
(D-1-1)36bac-1	A-27601	County Water System	12	R 293	Drilled		P. S.		
(D-1-2)36		The Fir's Inc.			Spring		Dom.		
(D-2-1) (Baker Wells)		Town of Murray			Wells		P. S.		
(D-2-1)2bbb-3	A-22342	County Water System	10	R 318	Drilled		P. S.		
(D-2-1)2cdd (Mo. Fork Spr.)		Spring Creek Irr. Co.			Spring		P. S.		
(D-2-1)2cdd (Casto Spr.)		Casto Spring Irr. Co.			Spring		P. S. Irr.		
(D-2-1)4bcc-1	A-25692	D. O. Wright	6	R 650	Drilled		Dom.		
(D-2-1)4bcc-2	A-26615	D. O. Wright	6	R 237	Drilled		Dom. Irr. St.	11/15/54	+ 9.0
(D-2-1)4c		D. O. Wright	6	516	Drilled		Dom. St. Irr.		
(D-2-1)6 (Erekson Wells)		S.L.C. Corp.		70-440	Wells		P. S.		
(D-2-1)6 (Artesian Basin)		Met. Water Dist.			Wells		P. S.		
(D-2-1)7cat-2	A-26273	S.L. County Fair Board	2	R 200	Jetted		Dom.		
(D-2-1)7cbb-1	C-1538	American Smelting Co.	8	R 64	Drilled	1902	Ind.	9/30/35	+ 21.10
(D-2-1)7cbd-1	A-27142	G. Page	8	R 64	Drilled		P. S.		
(D-2-1)7cbd-2	C-1538	American Smelting Co.	4	R 399	Drilled		Ind.		
(D-2-1)7cbd-2	A-27142	G. Page	4	R 399	Drilled		Dom.		
(D-2-1)7ddd-2	C-239	W. K. Baker	3	R 90	Jetted	1926	Fish	11/16/33	+ 9.54
(D-2-1)8abd-8	C-839	S.L.C. Corp. #1722	3	R 188	Jetted	1929	P. S.	7/15/33	+ 7.3
(D-2-1)8adb-10	C-124	S.L.C. Corp. #1687	3	R 179	Jetted	1931	P. S.	7/14/33	+ 15.45

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-1-1)24acc-1	C-9892	A. McFarland	2	R 250	Jetted	1930	Stock	7/19/34	+ 13.90
(C-1-1)24bbb-4	C-11615	D & R O RR	3	R 660	Jetted	1929	RR	4/29/33	+ 49.25
(C-1-1)24cdc-2	C-9896	D. J. Maddocks	2	R 400	Jetted	1930	St.	8/6/32	+ 21.78
(C-1-1)24dab-18	A-17312	South Salt Lake Inc.	4	R 631	Drilled		P. S.		
(C-1-1)24dac-10	a-2891	South Salt Lake Inc.	4	R 635	Drilled		P. S.		
(C-1-1)24dec-11	a-2891	South Salt Lake Inc.	4	R 932	Drilled		P. S.		
(C-1-1)24dac-12	a-2891	South Salt Lake Inc.	4	R 750	Drilled		P. S.		
(C-1-1)24dac-22	a-2891	South Salt Lake Inc.	4	R 585	Drilled		P. S.		
(C-1-1)24dbd-2	a-2891	South Salt Lake Inc.	4	R 785	Drilled		P. S.		
(C-1-1)24ddb-21	a-2891	South Salt Lake Inc.	4	R 763	Drilled		P. S.		
(C-1-1)25ab		South Salt Lake Inc.	4	R 150	Drilled		P. S.		
(C-1-1)25ab		South Salt Lake Inc.	8	R1000	Drilled		P. S.		
(C-1-1)25ca		Granite School Dist.	2	R 525	Jetted		Cannary		
(C-1-1)25ca		Granite School Dist.	8	R 600	Drilled		Dom.		
(C-1-1)26cc			4	R 500	Drilled		Dom.		
(C-1-1)26cc		Jordan Meat & Livestock Co.	4	R 375	Drilled		Ind. Dom.		
(C-1-1)27dac-4	A-20562	Thomas Sotter	2	R 308	Jetted	1954	Dom.		
(C-1-1)27ada-2	C-16476	N. Olson	2	R 110	Jetted	1926	Irr.	7/16/41	+ 3.53
(C-1-1)27ada-6	A-16439	S. L. Dial	3	R 583	Drilled		Dom.		
(C-1-1)28cdd-1	C-7548	E. M. Hill	2	R 303	Jetted	1926	Dom. St.	11/26/40	+ 21.3
(C-1-1)29dbb-3	A-19690	G. M. Schultz	2	R 150	Jetted		Dom.		
(C-1-1)35aaa-4	C-16608	G. George	1 1/2	R 381	Jetted	1898	Dom.	11/14/35	+ 15.90
(C-1-1)35aaa-5	C-16609	G. George	2	R 330	Jetted	1931	Dom. St.	11/14/35	+ 11.1
(C-1-2)5bbb-1	C-13403	Morton Salt Co.	3	R 660	Jetted	1929	Ind.	3/18/49	+ 25.5
(C-1-2)12daa-1	C-11549	L. Fox	2	R 411	Jetted	1910	St.	8/7/34	+ 9.07
(C-1-2)19dad-1	C-5829	Utah Copper Co.	2	R 175	Jetted		Dom.	3/23/48	+ 15.4
(C-1-2)19daa-1	C-5827	Utah Copper Co.	2	R 208	Jetted	1931	Irr.	4/12/32	+ 1.14
(C-1-2)20bcd-1	C-5841	Utah Copper Co.	2 1/2	R 150	Jetted	1931	Irr.	5/13/35	+ 7.85
(C-1-2)21		Garfield Water Co.	1-3	53-165	Wells		P. S.		
(C-1-2)22acc-1	C-983	W. E. Marshall	4	R 160	Drilled		P. S.		
(C-1-2)22bdc-3	A-18870-3	S. Vagenas	2	R 237	Jetted		Dom.		
(C-1-2)27		Magna Water Co.		R 70	Drilled	1953	P. S.		
(C-1-2)27		Magna Water Co.		R 70	Drilled	1953	P. S.		
(C-1-2)29bc		Pasternak			Dug		Dom.		
(C-1-2)30abb-1		Pleasant Green Water Co.	4 1/2'	R 120	Dug	1914	P. S.	3/24/33	-110

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(A-1-1)31acb-1	9/30/32	755 785	13	0.02	59	20	12		1.4	252	14	20		1.8	253	230		GS
(A-1-1)31cac-1	3/25/35		14	.	80	28	22		26	298	21	43			530	312		SL
(A-1-1)31cca-1	8/18/49		19	0.05	83	31	35		2.9	286	99	41	0.0	15	471	334	18	GS
(A-1-1)31cca-1	9/22/49		19	0.07	88	32	36		5.4	290	107	41	0.0	18	490	351	18	GS
(A-1-1)31cca-1	9/51		19		71	25		9.0		238	91	27			451	280		SL
(A-1-2)32d	5/26/55		7.8	0.00	137	88		180		824	176	165	0.2	3.4	1,160	706		PH
(B-1-1)5ddd-3	9/27/32		64	0.04	62	14	324		12	214	1.6	535	1.3	0.0	1,160	212		GS
(B-1-1)5ddd-3	4/2 /42				75	25		56		220	1.0	530			204			GS
(B-1-1)11caa	3/30/32				75	25		56		374	2.0	73		0.1	290			GS
(B-1-1)14	5/20/42		32		770	118	3,110		245	285	908	7,600			14,600	2,410		SL
(B-1-1)14	5/20/42		35		774	126	2,510		372	310	966	6,250			15,800	2,450		SL
(B-1-1)14	5/19/42		20		540	114	2,160		163	232	905	3,760			8,070	1,620		SL
(B-1-1)14dcb-S	5/19/42		32		653	134	4,040		444	239	875	7,670			13,900	2,180		SL
(B-1-1)14dcb-S	8/29/47	19,400	35		688	136		4,100		235	800	7,210			13,100*	2,280	80	GS
(B-1-1)14dcb-S	11/3/51	20,500	36	0.02	720	125	4,050		262	227	879	7,260	2.3		13,500*	2,310	77	GS
(B-1-1)19baa-3	11/13/31				24			275	a/	443	2.0	266				142		GS
(B-1-1)19baa-5	11/13/31				32			276		308	2.0	345				141		GS
(B-1-1)19bab-1	11/13/31				30			295		282	2.0	405				162		GS
(B-1-1)23daa-1	5/20/42		29		558	123	3,170		461	254	783	4,470			10,700	1,900		SL
(B-1-1)25ab	3/16/34		33		1,380	136	2,660		552	307	1,330	5,800			12,800	3,990		SL
(B-1-1)25db	11/34		30		719	143	2,300		1,210	310	1,370	5,170			12,100			SL
(B-1-1)25db	5/35		62		469	98	1,940		163	293	1,020	3,390			8,080			SL
(B-1-1)25db	1/37		41		414	58	1,870		194	293	1,470	2,780			7,310			SL
(B-1-1)25db	3/16/40		26		461	65	1,400		62	278	982	2,070			5,590			SL
(B-1-1)25db	5/19/42		22		538	103	2,110		211	260	912	3,690			7,770	1,750		SL
(B-1-1)27odd-3	3/13/33				58	39		825		700	2.0	1,080		0.0		305		GS
(B-1-1)27dcb-2	3/13/33			0.40	28			311		600	2.0	228		0.2		140		GS
(B-1-1)36abc-1	3/30/32				98	39		53		352	123	63		18		405		GS
(B-1-2)15bcb-Q	5/19/33				12			168		290	2.0	124		0.0		50		GS
(B-1-2)36baa-1	11/12/31				240	76		1,130		174	60	2,240		0.0		912		GS

a/ includes equivalent of 10 ppm CO₃

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-4-1)11ac (Big Lake Spr.)		J. F. Dunyon			Spring		None		
(C-4-1)11ad (Little Lake Spr.)		J. F. Dunyon			Spring		None		
(C-4-1)12 (Reservoir Spr.)		Hansen			Spring				
(C-4-1)12bc (Crystal Spr.)					Spring		None		
(C-4-1)12bd (Culinary Spr.)		J. F. Dunyon			Spring		Dom.		
(C-4-1)15dad-1	A-25899	Draper Irr. Co.	6	R 150	Drilled		Dom.		
(C-4-1)22a		Town of Bluffdale			Spring		P. S.		
(C-4-1)23 (Cottage Spr.)					Spring				
(C-4-1)26bd (Hidden Valley Spr.)		Camp Williams			Spring		P. S.		
(C-4-1)26ca (Government Spr.)		Camp Williams			Spring		P. S.		
(C-4-1)27 (R.R. Spring)		Camp Williams			Spring		P. S.		
(C-4-2)2 (Hallow Canyon Spr.)		Harriman Water Co.			Spring		P. S.		
(C-4-2)6		A. Hemingson			Spring		P. S.		
(C-4-3)3adb-T	A-11971T	U. S. Smelting Co.			Tunnel		P. S.		
(C-4-3)5 (Middle Canyon Spr.)		Town of Bingham			Spring		P. S.		
(D-1-1)4cac-1	C-4839	S.L.C. Corp. #1061	15½-12½	R 385	Drilled	1934	P. S.	12/3/48	-194.16
(D-1-1)4cac-2	A-25558	Metrol. Water Dist.	20	R 604	Drilled	1956	P. S.		
(D-1-1)4cca-1	C-8226	University of Utah	20	R 500	Drilled	1934	P. S.	6/26/35	-134.13
(D-1-1)5aaa-1	C-4843	S.L.C. Corp. #1057	15½-12½	R 440	Drilled	1934	P. S.	6/26/35	-109.20
(D-1-1)7aba-7	A-26162	L.D.S. Church	4	R 175	Drilled		Dom. Irr.	5/6/54	+ 4.0
(D-1-1)7abd-6	C-7216	S.L.C. Corp.	2	R 130	Driven	1890	Dom.	9/28/51	+ 5.0
(D-1-1)9aca-1	C-4836	S.L.C. Corp.	20	R 502	Drilled		Dom.	1/8/36	- 82.97
(D-1-1)11a (Emigration Spr.)					Spring				
(D-1-1)15bda-1	C-1600	C. J. Johnson	6'x6'	R 102	Dug	1902	Dom.	1/8/36	- 81.97
(D-1-1)18aaa-3	C-15888	Zions Security Corp.	1½	R 300	Driven, Jetted	1930		5/7/34	+ 16.40
(D-1-1)19cd		So. Salt Lake City Inc.			Drilled	1955	P. S.		
(D-1-1)19aac-2	D. S.	H. C. Larsen	2	R 150	Jetted			8/11/33	+ 2.7
(D-1-1)20cbc-1	C-3616	W. Durtschi	3	R 285	Drilled		Dom.		
(D-1-1)20ddd-1	C-4842	S.L.C. Corp. #1063	20	R 500	Drilled	1934	P. S.	6/25/35	- 27.76
(D-1-1)21acc-1	C-33	Utah State Prison	12	R 467	Drilled	1931	Irr.	10/4/49	- 74.77
(D-1-1)21ddd-1	C-4840	S.L.C. Corp. #1062	20	R 535	Drilled	1934	P. S.	6/25/35	-118.72
(D-1-1)25bbb-D.V.S. (Boundary Spr.)	A-20627	County Water System			Spring		P. S.		
(D-1-1)25ccc-1	A-24457	County Water System	16	R 118	Drilled		P. S.		
(D-1-1)28ctb-2	A-2539	Coombs Interorises, Inc.	6	R 369	Drilled		Cafe		
(D-1-1)29ccb (Phillips Spr.)					Spring		None		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis By		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃
(C-1-1)25ca	3/25/47		21	0.00	58	22		37		234	94	16	0.3	0.0	376	140		PH
(C-1-1)25ca	3/26/53		14	3.9	61	21		30		a/ 285	51	11	0.2	0.4	316	239		PH
(C-1-1)26cc	2/16/55		22	0.50	56	8.0		38		172	90	14	0.4	0.0	303	174		PH
(C-1-1)26cc	2/16/55		23	0.29	78	12		37		221	104	16	0.3	0.0	395	244		PH
(C-1-1)27dac-4	2/2/55		26	0.55	71	14		37		b/ 220	115	12	0.6	0.0	345	236		PH
(C-1-1)27dda-2	6/2/41									185	220	448				735		GS
(C-1-1)27dda-2	4/2/42									222	240	455				855		GS
(C-1-1)27dda-6	2/16/55		24	0.60	64	9.0		23		172	84	14		0.0	312	198		PH
(C-1-1)28cdd-1	3/6/33			1.0	40			71		236	65	105		2.8		258		GS
(C-1-1)29dab-3	3/12/55		14	0.32	62	13		82		198	97	88	0.4	0.0	490	210		PH
(C-1-1)35aaa-4	3/30/32				72	25		4.7		208	101	12		0.1		282		GS
(C-1-1)35aaa-5	3/30/32				67	23		14		198	110	11		0.1		262		GS
(C-1-2)5bbb-1	11/12/31				188	116		1,030		152	65	2,120				946		GS
(C-1-2)5bbb-1	4/2/42									149	65	2,110				945		GS
(C-1-2)12daa-1	5/19/33				45			199		157	45	359		1.0		249		GS
(C-1-2)19dad-1	8/3/55		42	0.00	60	24		408		271	212	484	0.5	10	1,330	250		PH
(C-1-2)19dca-1	11/10/31				124	56		420		317	292	630				540		GS
(C-1-2)20bed-1	11/10/31				158	64		291		241	189	635				657		GS
(C-1-2)21	5/13/33		50	0.05	30	16	276		17	260	118	305		5.6	948	141		GS
(C-1-2)22acc-1	11/17/47		64	0.00	25	15		207		252	91	191	0.7		862	124		PH
(C-1-2)22bdc-3	11/17/47		57	0.00	25	15		200		252	79	190	0.7		840	126		PH
(C-1-2)27	3/13/53		63	0.10	36	17		320		255	219	291	0.6	11	1,020	161		PH
(C-1-2)27	3/13/53		74	0.18	33	19		306		270	168	291	0.6	23	1,110	161		PH
(C-1-2)29bc	1/4/52		24	0.33	104	105		278		465	424	315	0.0	29	1,510	693		PH
(C-1-2)30abb-1	3/24/33		27	0.02	99	50	281		11	325	231	398		15	1,300	452		GS
(C-1-2)35ada-2	3/24/33				121	71		238		375	321	325		13		594		GS
(C-1-3)3add-1	11/12/31			6.7	1,580	537		7,350		138	827	15,000				6,152		GS
(C-1-3)3add-2	11/12/31				1,200	76		1,410		79	15	4,460				3,300		GS
(C-1-3)17dcb-1	6/6/55	16,900	18	0.04	303	98	3,490		89	319	152	6,000	0.6	6.4	10,700	1,160	86	GS
(C-1-3)17dcb-1	6/17/55	17,600	17	0.10	321	103	3,670		89	325	148	6,280	0.6	8.7	11,300	1,220	86	GS

a/ includes equivalent of 3 ppm CO₃b/ includes equivalent of 1 ppm CO₃

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-2-1)8cca-11	C-839	S.L.C. Corp. #1637	3	R 182	Jetted	1922	P. S.	7/21/33	+ 18.9
(D-2-1)8ccc-10	A-24733	Hi Land Dairy	10	R 750	Drilled	1953	Dairy		
(D-2-1)8ccd-7	C-855	S.L.C. Corp. #1652	3	R 150	Jetted		P. S.	7/21/33	+ 14.60
(D-2-1)8ccd-8	C-856	S.L.C. Corp. #1653	3	R 86	Jetted	1922	P. S.	7/21/33	+ 5.90
(D-2-1)8ccd-19	C-867	S.L.C. Corp. #1663	3	R 440	Jetted	1929	P. S.	7/21/33	+ 47.2
(D-2-1)8ccd-21	C-869	S.L.C. Corp. #1665	4	R 215	Jetted	1929	P. S.	7/21/33	+ 17.20
(D-2-1)8ccd-23	C-871	S.L.C. Corp. #1667	4	R 94	Jetted	1930	P. S.	7/21/33	+ 4.05
(D-2-1)9abc-2	C-16009	J. R. Nichol	3	R 96	Jetted	1920	Dom.	11/26/35	+ 7.8
(D-2-1)11baa (Dry Creek Spr.)		G. B. Andrus			Spring		P. S.		
(D-2-1)15cac-1	A-25445	H. E. Paulsen	8	R 171	Drilled		Dom.		
(D-2-1)16bbj-14	C-9084	D. G. Lunn	3	R 175	Jetted	1931	St. Irr.	1/9/36	+ 3.91
(D-2-1)16cb (Tanner Spr.)		C. L. Tanner			Spring				
(D-2-1)17cda	C-12192	Town of Murray	3	R 101	Jetted		P. S.		
(D-2-1)17cda-15	C-12192	Town of Murray	3	R 144	Jetted		P. S.		
(D-2-1)17d (Vine St. Wells)		Town of Murray	5	50-290	Wells		P. S.		
(D-2-1)22bba-1	C-4846	S.L.C. Corp.	20	R 500	Drilled		P. S.		
(D-2-1)25ac		Town of Murray			Spring		P. S.		
(D-2-1)30abc-3	C-4572	R. Roggess	4	R 82	Jetted	1909	Dom. St.	4/13/33	- 25
(D-2-1)32bba-2	A-26016	E. Monk	10	R 357	Drilled		Irr.		
(D-2-1)33add-2	A-2454	West Side Water Corp.	8	R 264	Drilled		Dom.		
(D-3-1)2ccc-1	A-25568	Met. Water Dist.	24	R1007	Drilled		P. S.		
(D-3-1)7caa-2		G. Smith	3	R 53	Driven	1931	Dom.		
(D-3-1)8aba-1	A-24398	County Water System	16	R 480	Drilled		P. S.		
(D-3-1)10bba-1	A-24397	County Water System	16	R 600	Drilled	1955	P. S.		
(D-3-1)12 (Granite Spr.)					Spring				
(D-3-1)12 (Beaver Pond Spr.)					Spring				
(D-3-1)12ac		Town of Murray			Spring		P. S.		
(D-3-1)12b (No. Dessein Spr.)					Spring				
(D-3-1)30acb		S. Day	36	M 10.4	Dug		Dom. St.	11/13/35	- 8.6

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(C-4-1)11ac	5/20/55		6.0	0.62	100	52		353		341	114	590	2.1	0.6	1,300	464		PH
(C-4-1)11ad	5/20/55		22	0.73	127	48		436		424	153	677	2.3	1.0	1,480	502		PH
(C-4-1)12	7/25/50		20		54	23		23		226	92	40			698			SL
(C-4-1)12bc	1882		28		141	28	405		55	a/ 216	378	337			1,686			GS
(C-4-1)12bc	7/25/50		73		102	24		224		146	72	560			1,300			SL
(C-4-1)12bc	9/10/52		66	0.68	80	32		417		330	84	616	0.0	9.6	1,550	330		PH
(C-4-1)12bd	5/20/55		6.0	0.32	46	40		57		257	105	58	0.4	0.9	430	280		PH
(C-4-1)15dad-1	9/24/54		32	0.28	85	58		197		265	293	253	0.9	1.1	1,100	452		PH
(C-4-1)22a	1/19/50		22	0.00	90	31		65		b/ 178	155	76	0.7	1.3	634	353		PH
(C-4-1)23	7/25/50		56		108	38		75		232	144	11			865			SL
(C-4-1)26bd	5/19/50		25	0.0	61	35		112		232	158	126	2.4	1.3	612	300		PH
(C-4-1)26ca	5/19/50		24	0.0	68	33		78		238	120	106	1.1	1.1	562	307		PH
(C-4-1)26ca	7/25/50		11		48	33		67		207	96	101			598			SL
(C-4-1)27	7/25/50		23		85	20		48		232	144	14			718			SL
(C-4-2)2	10/4/51		80	0.28	80	14		50		244	28	85	0.4	3.3	470	262		PH
(C-4-2)6	11/8/51		20	1.0	202	41		104		360	354	159	0.4	6.6	1,180	684		PH
(C-4-3)3adb-T	2/9/51		16	0.83	75	35		11		176	101	76	0.1	0.5	490	332		PH
(C-4-3)5	3/51		10	0.12	63	22		17		221	45	13	0.0	0.6	331	247		PH
(D-1-1)4cac-1	8/8/49	752	18	0.06	93	32	22		2.6	276	122	36	0.0	8.2	492	364	12	GS
(D-1-1)4cac-1	9/22/49	748	17	0.08	94	32	23		4.8	273	119	33	0.0	11	498	366	12	GS
(D-1-1)4cca-1	7/27/50	803	19	0.05	92	37		26		282	150	34	0.0	4.6	520	382	13	GS
(D-1-1)4cac-2	8/7/56	318	11	0.05	34	11	15		1.3	134	36	14	0.1	1.7	186	130	20	GS
(D-1-1)4cca-1	9/2/55	763	19		92	32	25			276	125	36		7.5	505	360	13	GS
(D-1-1)5aaa-1	8/8/49	1,410	19	0.06	204	66	37		2.2	310	501	49	0.2	8.9	1,100	780	9	GS
(D-1-1)5aaa-1	9/22/49	1,390	18	0.18	201	68	34		4.8	311	479	48	0.2	10	1,070	781	9	GS
(D-1-1)7aba-7	5/6/54	971	16	0.05	106	41	50		2.1	320	197	49	0.0	1.2	971	433	20	GS
(D-1-1)7abd-6	7/26/35		16		105	20	60		11	322	272	52			736	345		SL
(D-1-1)7abd-6	2/20/48	901	19		104	41		33		316	156	44		20	573*	428	14	GS
(D-1-1)7abd-6	6/30/52	1,040								316		47		22	1,040			GS
(D-1-1)9aca-1	4/28/47		14	0.00	100	36		20		276	150	38	0.1	0.0	587	390		PH

a/ includes equivalent of 11 ppm CO₃b/ includes equivalent of 1 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis by	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Ba+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(B-1-2)36baa-1	6/2/41									171	48	1,870				780		GS
(B-1-2)36baa-1	4/2/42									180	40	1,860				810		GS
(B-2-2)28	9/26/32		38	0.02	112	26	618		19	117	20	1,160		0.0	2,170	387		GS
(B-2-2)35cdc-1	5/19/33				13			188		226	2.0	194		0.0		52		GS
(C-1-1)2eda-1	12/21/31				33	21		118		469	4.0	26		0.4		169		GS
(C-1-1)12cc	6/8/43		22	.10	61	29		87		200	192	42	1.2	.0	576	273		PH
(C-1-1)12cc	6/8/43		22	.10	59	21				200	171	38	1.2	.0	500	233		PH
(C-1-1)12cdc-2	3/30/32				50			76		436	36	28		.7		270		GS
(C-1-1)13adc-1	12/21/31				109	36		45		263	258	24		.1		420		GS
(C-1-1)13dac-1	3/30/32				72	18		77		264	148	34		5.4		256		GS
(C-1-1)13dad-1	4/55	2,790			166	111	340		23			440						AC
(C-1-1)15abb-2	3/30/32				35			66		227	70	43		.1		177		GS
(C-1-1)18bba-1	6/2/41									156	64	455				345		GS
(C-1-1)18bba-1	10/15/41									180	40	595				318		GS
(C-1-1)19aab-1	11/21/47		53	.20	58	36		147		144	76	295	.2	.0	847	290		PH
(C-1-1)22bda-1	6/3/52	667	25	.55	65	24	46		2.3	206	151	19	.2	1.6	454	260	28	GS
(C-1-1)22oda-2	11/25/53		20	.26	54	20		21		216	66	9.6	.2	1.9	334	216		PH
(C-1-1)24acc-1	3/30/32				122	42		34		276	270	31		.1		477		GS
(C-1-1)24bbb-4	4/1/32				135	46		24		236	338	23		.1		526		GS
(C-1-1)24cdc-2	3/30/32				70	23		35		253	109	16		1.9		269		GS
(C-1-1)24dab-18	11/18/47		22	.00	77	38		32		144	250	27	.1	.0	664	350		PH
(C-1-1)24dac-10	11/17/47		20	.00	85	27		51		222	208	24	.1	.0	578	320		PH
(C-1-1)24dac-11	11/17/47		20	.00	64	25		84		240	80	115	.1	.0	525	260		PH
(C-1-1)29dac-12	11/18/47		17	.00	86	41		47		180	280	32	.1	.0	738	380		PH
(C-1-1)24dad-22	11/18/47		15	.00	86	42		15			264	20	.4	.0	684	387		PH
(C-1-1)24dbd-2	5/5/50		16	.10	102	36		54		217	273	28	.2	.1	556	402		PH
(C-1-1)24ddb-21	6/16/53		12	.16	45	19		60		220	139	6.6	.6	.0	420	191		PH
(C-1-1)25ab	2/54		22	.75	52	22		23		300	1.3	12	.1	1.1	318	218		PH
(C-1-1)25ab	2/2/54		21	1.8	38	30		78		206	130	49	.0	8.7	480	218		PH

a/ Includes equivalent of 10 ppm CO₂

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+ L)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(D-1-1)31deb-1	11/25/53	509	15	0.07	56	24		7.6		199	72	12	0.1	0.5	330	240		PH
(D-1-1)31dc	2/18/54		14	0.03	61	24	12		1.8	196	94	14	0.2	1.1	328	250	9	GS
(D-1-1)32beb-16	12/21/31				77	31		11	a/	222	128	20		0.6		320		GS
(D-1-1)32cdc-2	3/31/32				99	38		17		278	180	15		4.6		403		GS
(D-1-1)32dc	1/13/55		39	0.10	130	28		69		341	184	80	0.7	9.0	678	442		PH
(D-1-1)32ded-13	11/21/55	637	16		80	24				230	108	28		1.3		300		GS
(D-1-1)34bab-1	3/27/34	3,100	14		165	34	12		4.0	124	176	24			510	552		SL
(D-1-1)36bac-1	3/3/54				590	162				136	2,060	28				2,140		GS
(D-1-2)36	7/13/48	607	8.0	0.00	99	35		5.4		282	138	20		0.0	485	389		PH
(D-2-1)	3/9/51		14	0.02	58	22	35		3.6	214	70	42	0.2	5.9	363	235	24	GS
(D-2-1)2bbb-3	12/16/50		6.8	0.25	59	27		19		106	12		0.0		320	260		PH
(D-2-1)2cbb	4/12/48		7.0		58	15	9.0		2.0	222	124	13		0.4	385	206		SL
(D-2-1)2cbb	1/21/53		8.3	0.12	76	29		5.5		209	128	10	0.5	0.3	408	309		PH
(D-2-1)2cbb	12/31/40		7.7	0.00	83	26		1.1		210	116	14	0.6	0.0	432	312		PH
(D-2-1)2cbb	3/15/54		50		76	22		7.0		232	124	12			390	280		SL
(D-2-1)2cdc	12/31/40	904	13	0.10	84	24		9.1		222	120	14	0.6	0.0	426	308		PH
(D-2-1)2cdc	4/12/48		10		80	22	11		2.0	222	117	13			408	290		SL
(D-2-1)4bcc-1	3/24/55		17	0.02	92	45	40		3.4	206	282	30	0.2	0.4	651	414	17	GS
(D-2-1)4bcc-2	11/15/54		11		88	25				251	125	37		5.1	322			GS
(D-2-1)4c	11/30/54		17		92	31				184	264	28		0.4	360			GS
(D-2-1)6	10/3/32	512	12	0.05	56	22	25		2.7	199	59	38		5.0	319	230		GS
(D-2-1)6	8/8/49		14	0.03	54	18	23		2.9	196	63	28	0.2	4.8	308	208	19	GS
(D-2-1)6	2/23/55		13	0.03	56	19	24		1.9	195	64	28	0.4	4.9	314	218		GS
(D-2-1)7cab-2	12/5/55		54	1.2	31	5.2		30	b/	161	28	4.0	0.1	0.8	182	100		PH
(D-2-1)7cbd-1	12/7/31				35	11		7.6	c/	131	20	14		1.4		133		GS
(D-2-1)7cbd-1	4/17/53	523	7.2	0.06	53	16		18		167	42	37	0.3	0.3	286	199		PH
(D-2-1)7cbd-2	12/7/31				32	9.2		0.7	d/	108	16	9.0		1.7		118		GS
(D-2-1)7cbb-2	12/11/51		8.8	0.00	45	7.8	18			142	33	21	0.0	2.2	212	155		PH
(D-2-1)7ddd-2	3/31/32				58	25		12		198	65	28		5.6		248		GS
(D-2-1)8abd-8	12/19/31				72	19		2.3		174	90	18		1.5		258		GS

a/ includes equivalent of 14 ppm CO₃b/ includes equivalent of 3 ppm CO₃c/ includes equivalent of 6 ppm CO₃d/ includes equivalent of 5 ppm CO₃

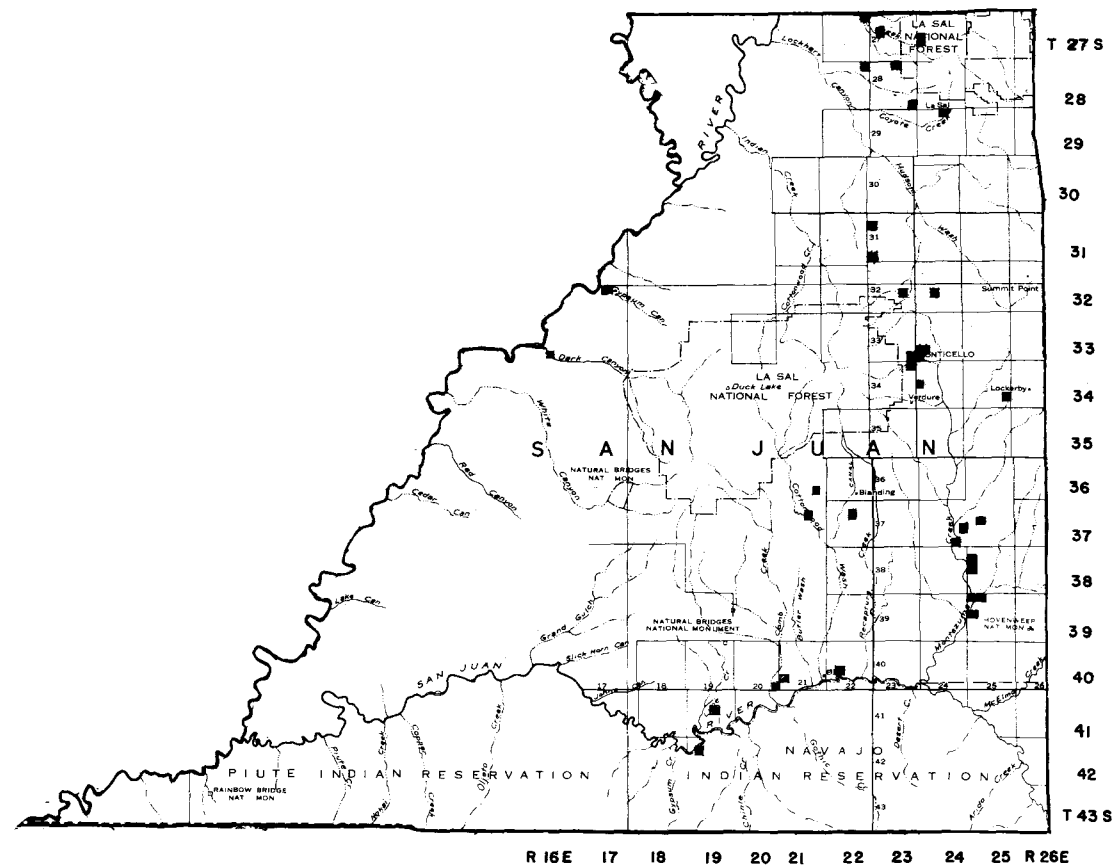
Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million												Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Mn + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)				
(C-1-3)20	2/28/48		15	0.00	76	39		443		300	93	685	9.1	0.0	2,260	350		PH
(C-1-3)20	3/16/54		17	.13	343	30		601		286	162	1,420	.0	.4	2,900	980		PH
(C-1-3)24bb-1	4/25/50		48	1.0	41	22		86		254	166	10	.1	4.4	1,020	197		PH
(C-2-1)11bab-2	3/30/32				48	18		7.0		159	59	12		.4		194		GS
(C-2-1)7ccc-1	3/22/48	979	46		58	41		84		218	46	184	.4	9.8	577*	313	37	GS
(C-2-1)10abd-1	3/6/33				70	28		52		133	85	145		.0		290		GS
(C-2-1)11bad-1	7/14/55		24	.15	45	13		26		151	70	18	.5	.1	270	166		PH
(C-2-1)12bbb-1	4/5/50	250	15		27	10	10		3.6	122	17	10	.3	3.6	250	108	17	GS
(C-2-1)27ddc-1	3/6/33				82	37		39		176	75	155		1.8		357		GS
(C-2-1)30cda-1	11/23/40		34	.10	94	38		114		216	74	220	.2	5.0	841	394		PH
(C-2-2)8	3/25/33		50	.06	79	32	63		6.4	231	51	158		6.9	598	329		GS
(C-2-2)8baa-2	2/26/53		60	.54	59	28		58		230	20	121	.4	4.7	488	260		PH
(C-2-2)8baa-3	2/26/53		57	4.3	73	31		47		223	27	139	.3	5.6	546	311		PH
(C-2-2)24aaa-1	5/13/33				65			188		163	16	363		1.5		255		GS
(C-3-1)12	4/6/54		7.4	.00	130	34		176		321	264	212	.4	7.4	1,030	461		PH
(C-3-1)15bda-1	3/7/33		24	.02	80	31	47		2.9	178	89	128		7.4	547	327		GS
(C-3-1)15bda-2	11/23/51		21	.23	110	35		71		177	132	185	.0	33	712	419		PH
(C-3-1)26					371	109		285		386	839	570				1,370		GS
(C-3-1)26cad-1	12/9/31				230	69		111		230	339	390		7.5		858		GS
(C-3-1)26cda-1	11/9/31				232	70		102		228	335	392				867		GS
(C-3-1)32cdc-1	1/55		63	.60	83	15		54		224	27	113	.3	2.8	519	268		PH
(C-3-2)	5/20/55	877	24	.03	110	32	36		2.1	297	127	74	.0	1.5	572	406		GS
(C-3-2)5adb-1	7/46		25		89	1.4		101			21	144			686	230		PH
(C-3-2)12a	5/2/53	1,300			179	61	32		5.0	66	570	79			1,100		9	AC
(C-3-2)35	2/9/51		43	.05	66	19		41		211	49	72		12	450	247		PH
(C-3-2)35bdc-1	8/18/54		22	.04	229	37		63		316	128	329	.2	7.6	1,140	726		PH
(C-3-3)10cc	3/51		8.3	.05	60	26		28		253	25	33	.0	.8	346	259		PH
(C-3-3)13dbc-T	11/3/50		31	.05	70	46				52	124		.3	8.4	582	363		PH
(C-4-1)2ddc-1	3/25/54	1,490	35	.08	76	23	191		16	264	191	226	.8	1.0	905	284	58	GS
(C-4-1)5ccb-1	5/15/33				528	178		146		312	545	1,100				2,050		GS

g/ Includes equivalent of 2 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(D-3-1)12	12/50	297	10	2.0	46	6.0	4.0		1.0	159	28	10			127	159		SL
(D-3-1)12ac	3/9/51		8.2	0.03	39	12	3.9		1.8	136	38	4.5	0.2	0.8	174	147	5	GS
(D-3-1)12ac	5/28/52		9.8	0.03	47	8.7		19		168	50	3.6	0.3	0.6	186	154		PH
(D-3-1)12b	12/50		14		35	5.0	3.0		1.0	152	27	9.0			178	107		SL
(D-3-1)30deb	3/6/33				162	146		352		478	549	555		31		1,000		GS

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(D-1-1)11a	2/23/55	902	17	0.02	130	36	20		1.6	315	215	19	0.1	2.0	622	472	8	GS
(D-1-1)15bda-1	3/30/32				77	36		49		271	157	40		5.8		340		GS
(D-1-1)18aaa-3	3/30/32				100	38		62		292	235	38		2.8		406		GS
(D-1-1)19cd	5/17/55			5.6						293		39		9.0	533	386		PH
(D-1-1)19daa-2	3/30/32				109	34		40		300	196	33		3.0		412		GS
(D-1-1)20cbc-1	4/17/46		15	0.00	73	25		8.1		204	101	20		0.0	391	285		PH
(D-1-1)20ddd-1	5/31/35		24		103	30	30		5.0	277	206	41			598	380		SL
(D-1-1)20ddd-1	8/8/49	967	19	0.05	117	42	39		3.2	260	277	29	0.0	1.8	685	464	15	GS
(D-1-1)20ddd-1	9/22/49	966	18	0.07	122	42	36		5.8	260	275	28	0.0	2.3	682	477	14	GS
(D-1-1)20ddd-1	9/51		11		120	28		18		104	248	32			559	424		SL
(D-1-1)21acc-1	3/30/32				88	21		7.1		256	79	20		1.5		306		GS
(D-1-1)21acc-1	9/15/32		18	0.02	72	27	59		3.6	350	80	27	0.4	12	457	291		GS
(D-1-1)21ddd-1	5/28/35		20		124	31	31		1.1	276	253	16			678	536		SL
(D-1-1)21ddd-1	8/18/49	961	20	0.05	124	40	36		2.4	266	271	31	0.2	1.8	676	474	14	GS
(D-1-1)21ddd-1	9/22/49	949	19	0.12	126	40	30		5.1	268	263	27	0.0	2.8	673	479	12	GS
(D-1-1)21ddd-1	9/51		41		91	43		26		342	242	35			677	404		SL
(D-1-1)25ebb-DVS	1/8/52		18	0.08	134	32		8.2		272	123	15	0.1	0.0	418	357		PH
(D-1-1)25ebb-DVS	4/5/53		17		93	19		6.0		232	122	26			409	310		SL
(D-1-1)25ebb-DVS	4/5/53		12		100	31		6.0		232	139	27			457	377		SL
(D-1-1)25ccc-1	1/10/53		11	2.5	64	30		24		238	92	30	0.1	1.0	384	285		PH
(D-1-1)28ebb-2	2/24/54		17	2.7	144	34		40		236	332	30	0.0	0.7	774	501		PH
(D-1-1)29ccb	4/22/53		13	0.04	104	46		79		328	277	39	0.7	7.0	671	446		PH
(D-1-1)29cdc-8	1928		22		30	13	35		0.0	167	34	32			206	129		SL
(D-1-1)29cdc-9	1928		22		43	12	7.7		1.1	192	40	26			234	159		SL
(D-1-1)30	9/28/49	540	15		66	24		14		214	91	16	0.2	0.9	332*	263	10	GS
(D-1-1)30	9/15/49	612	14	0.09	74	26		18		220	111	23	0.3	1.2	376*	292	12	GS
(D-1-1)30bbc-1	3/30/32				88	31		33		247	184	18		0.1		347		GS
(D-1-1)30bbc-9	3/30/32				101	36		16		251	189	22		0.6		400		GS
(D-1-1)30ddb	3/21/53		12	0.29	49	20		48		201	118	14	0.3	0.0	338	205		PH
(D-1-1)31cad-4	3/30/32				66	23		6.2		194	95	10		0.8		259		GS

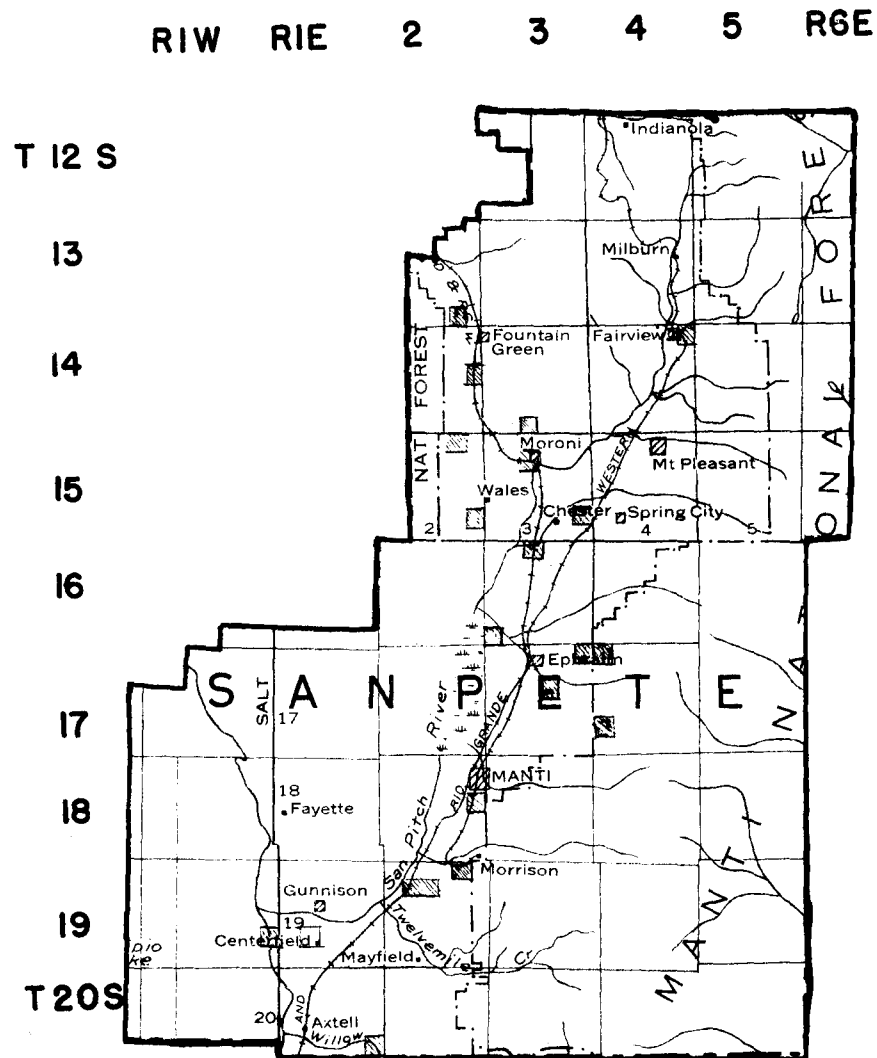
Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-27-22)1bbb-1	A-22507	E. Moore	8	R 350	Drilled		Dom. St.		
(D-27-23)17a		Hudson			Spring				
(D-27-24)19c		B. Hammond			Spring				
(D-28-22)1c (Cene Spr.)		Public Land			Spring		Stock		
(D-28-23)3ad		W. C. Patterson			Spring		Ind. Mining		
(D-28-23)36c (Trough Spr.)					Spring				
(D-29-24)3		J. Redd	5'x5'	R 18	Dug		Dom.		
(D-31-23)7b		R. Bailey	3	R 75	Drilled				
(D-31-23)3ld			6	R 100	Drilled		Dom. St.		
(D-32-17)					Spring				
(D-32-23)23d (Peter's Spr.)					Spring		Dom. St.		
(D-32-24)21b			42	R 12	Dug		Dom. St.		
(D-33-16) (Dark Canyon Spr.)					Spring				
(D-33-23)36dad	A-22202	A E C	6	R 235	Drilled		Ind.		
(D-33-24)29bad		A E C			Spring		Ind.		
(D-33-24)30adc-1	A-26862	A E C	10	R 338	Drilled		Ind.		
(D-33-24)30dab-1	A-26862	A E C	10	R 319	Drilled		Ind.		
(D-33-24)30ddb-1	A-26862	A E C	10	R 330	Drilled		Ind.		
(D-33-24)31abb-1	A-26862	A E C	10	R 353	Drilled		Ind.		
(D-33-24)31acd-1	A-26862	A E C	10	R 358	Drilled		Ind.		
(D-33-24)31bcd-1	A-26862	A E C	10	R 342	Drilled		Ind.		
(D-33-24)31bdd-1	A-26862	A E C	10	R 370	Drilled		Ind.		
(D-34-23)1dad-1	A-21710	Jack Pehrson	6	225	Drilled		Dom.		
(D-34-24)18d		E. Horton	6	R 150	Drilled				
(D-34-25)25d			48	R 14	Dug		Dom. St.		
(D-36-13)					Seep				
(D-36-16) (Frey Canyon Spr.)		A E C			Spring		Dom.		
(D-36-21)26bc		A E C	2	R 100	Drilled	1950	Stock		
(D-37-21)10ba		Blanding Mines		R 75	Sumo (mine)				
(D-37-22)10		C. A. A.	6	R 165	Drilled		Dom.		
(D-37-24)24cbb-1	A-24609	Max Dalton	10		Drilled		Dom. Irr.		
(D-37-24)35		C. Perkins	8		Drilled				
(D-37-25)17cab-1	A-24961	Melvin Dalton	10		Drilled		Dom. Irr.		
(D-38-25)7bcd-1	A-24608	H. C. Perkin Sheep Co.	12		Drilled		St.		
(D-38-25)7ccd-1	A-24863	H. C. Perkin Sheep Co.	8		Drilled		St.		



Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(D-27-22)1bbb-1	9/7/53	1,160	16	0.04	175	35	50		2.0	186	471	16	0.4	9.7	921	580	16	GS
(D-27-23)17a	10/22/33			0.15	80	20		15		294	66	4.0		0.1		282		GS
(D-27-24)19c	10/22/33			0.40	166	31		27		252	361	13		0.1		542		GS
(D-28-22)1c	10/28/33				54	36	31			a/ 220	112	37		0.4		283		GS
(D-28-23)3ad	6/28/50	647	12	0.03	38	59	10		4.6 _b /	365	28	24	0.4	5.4	362	338	6	GS
(D-28-23)36c	10/25/33			0.18	109	30		23		270	191	17		1.2		396		GS
(D-29-24)3	10/26/55		8.4	0.85	335	156		238		523	1,450	37	0.6	0.5	2,720	1,480		PH
(D-31-23)7b	10/25/33			0.18	63	33				214	65	17		1 ⁴		293		GS
(D-31-23)31d	11/14/33				56	35		9.0		230	100	5.0	0.1	3.1		284		GS
(D-32-17)	10/2/48	3,840	17		375	95		432		205	1,150	638		1.4	2,610*	1,330	41	GS
(D-32-23)23d	10/28/33				62	20		28		234	86	12		0.4		237		GS
(D-32-24)21b	10/29/33				74	36	31			274	95	33		37		333		GS
(D-33-16)	10/3/48	969	10		122	56		4.6		222	344	3.0		1.0	650*	535	2	GS
(D-33-23)36dad	5/11/55	612	10	0.05	56	13	64		3.1	263	109	5.0	0.0	0.1	386	193	41	GS
(D-33-24)29bad	6/16/55	990	23	0.04	130	27	62		1.2	398	177	24	0.2	24	681	436	24	GS
(D-33-24)30dad-1	7/17/55	665	10		61	13	66		3.2	252	129	10		0.2	415	206	41	GS
(D-33-24)30dab-1	7/11/55	694	9.1		59	15	72		3.6	258	140	10		0.2	456	209	42	GS
(D-33-24)30ddb-1	7/13/55	1,430	10		121	32	165		9.7	474	358	36		1.1	964	436	45	GS
(D-33-24)31abb-1	6/16/55	644	10	0.02	57	17	64		3.3	243	135	7.5	0.2	0.2	412	212	39	GS
(D-33-24)31acd	5/16/55	462	11	0.19	15	5.0	85		2.5	214	62	5.0	0.3	0.1	286	58	75	GS
(D-32-24)31bcd-1	8/5/55	474	12		15	4.1	83		2.1	218	64	4.0		0.5	292*	55	76	GS
(D-33-24)31bdd-1	8/5/55	466	12		15	3.8	83		2.1	218	63	4.0		0.2	290*	54	76	GS
(D-34-23)1dad-1	4/22/54	880			6.0	3.7	156		9.0	483	35	14			520		89	AC
(D-34-24)18d	10/30/33				18		93			296	20	3.0	0.1	0.2	280	66		GS
(D-34-25)25d	11/15/33				98	24	12			342	66	14	0.2	0.1		343		GS
(D-36-13)	10/4/48	5,190	28		650	183		501		814	2,010	498		1.3	4,270*	2,370	31	GS
(D-36-16)	7/1/55		11	0.85	29	29		131		410	83	26	0.6	3.1	537	174		PH
(D-36-21)26bc	6/24/50	1,250	13	0.02	77	53	128		5.4 _a /	378	353	27	0.2	0.2	848	410	40	GS
(D-37-21)10ba	6/24/50	1,990	13	0.25	116	114	179		10	480	631	91	0.4	1.9	1,550	758	34	GS
(D-37-22)10	6/21/55		6.0	1.2	186	32		787			2,160	49	0.8	0.5	3,920	600		PH

a/ includes equivalent of 16 ppm CO₂b/ includes equivalent of 7 ppm CO₂c/ includes equivalent of 3 ppm CO₂

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-38-25)18bbb-1	A-24863	H. C. Perkin Sheep Co.	8		Drilled		St.		
(D-39-25)5aca-1	A-23183-1	Hathaway Oil Co.	10 $\frac{1}{2}$	R 432	Drilled	1951	Dom. Irr.	1/6/54	+110'
(D-39-25)5acb-1	A-23436	R. Redd & R. Wilson	8	300	Drilled		Irr.		
(D-39-25)5bc		Hathaway Oil Co.		R1300	Drilled	1951	Dom. Irr.		
(D-39-25)6		Shell Oil Co.		R2500	Drilled				
(D-39-25)6		Hathaway Oil Co.		R 620	Drilled				
(D-39-25)18abb-1	A-23716	Jim Redd	10		Drilled		Dom. St.		
(D-40-20)36c (Navajo Spring)					Spring		Dom. St.		
(D-40-21)25aab-1	C-9396	Bluff City	8	R 825	Drilled	1910	P. S.	10/20/46	+ 8.5
(D-40-21)25			6		Drilled		Dom. St.		
(D-40-21)25			6		Drilled		Stock		
(D-40-21)25					Spring				
(D-40-22)20dd (Mission Spr.)		St. Christopher Mission			Spring		Dom.		
(D-41-18) (Upper Sulphur Spr.)					Spring				
(D-41-19)15bc					Well				
(D-41-19)15bc					Seep				
(D-42-19)7dd	A-24824	U S G S	4' x 4'	10 $\frac{1}{2}$	Dug		Dom.		
(D-42-19)8		Mexican Hat Lodge		7 $\frac{1}{2}$	Dug		Dom.		



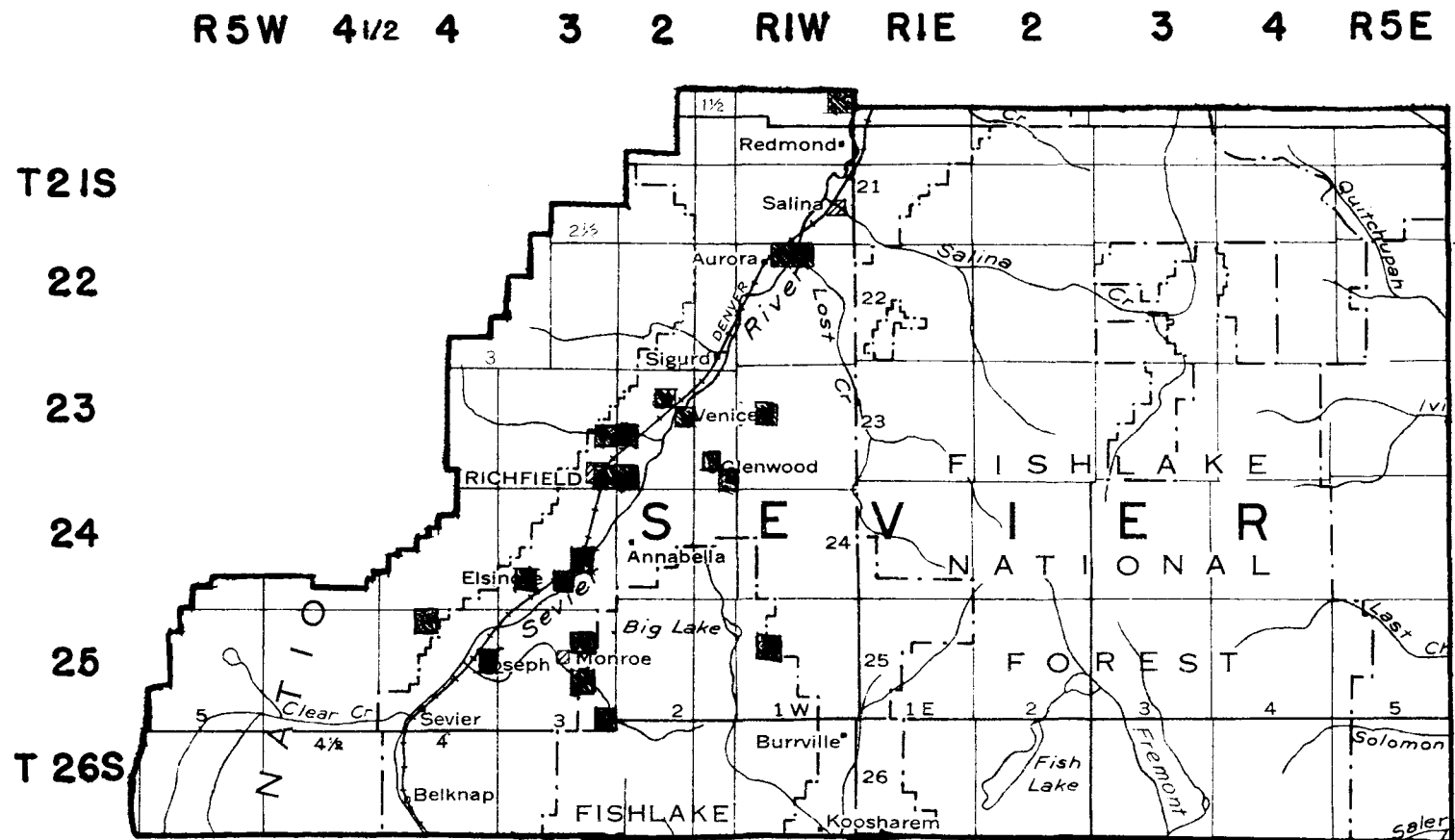
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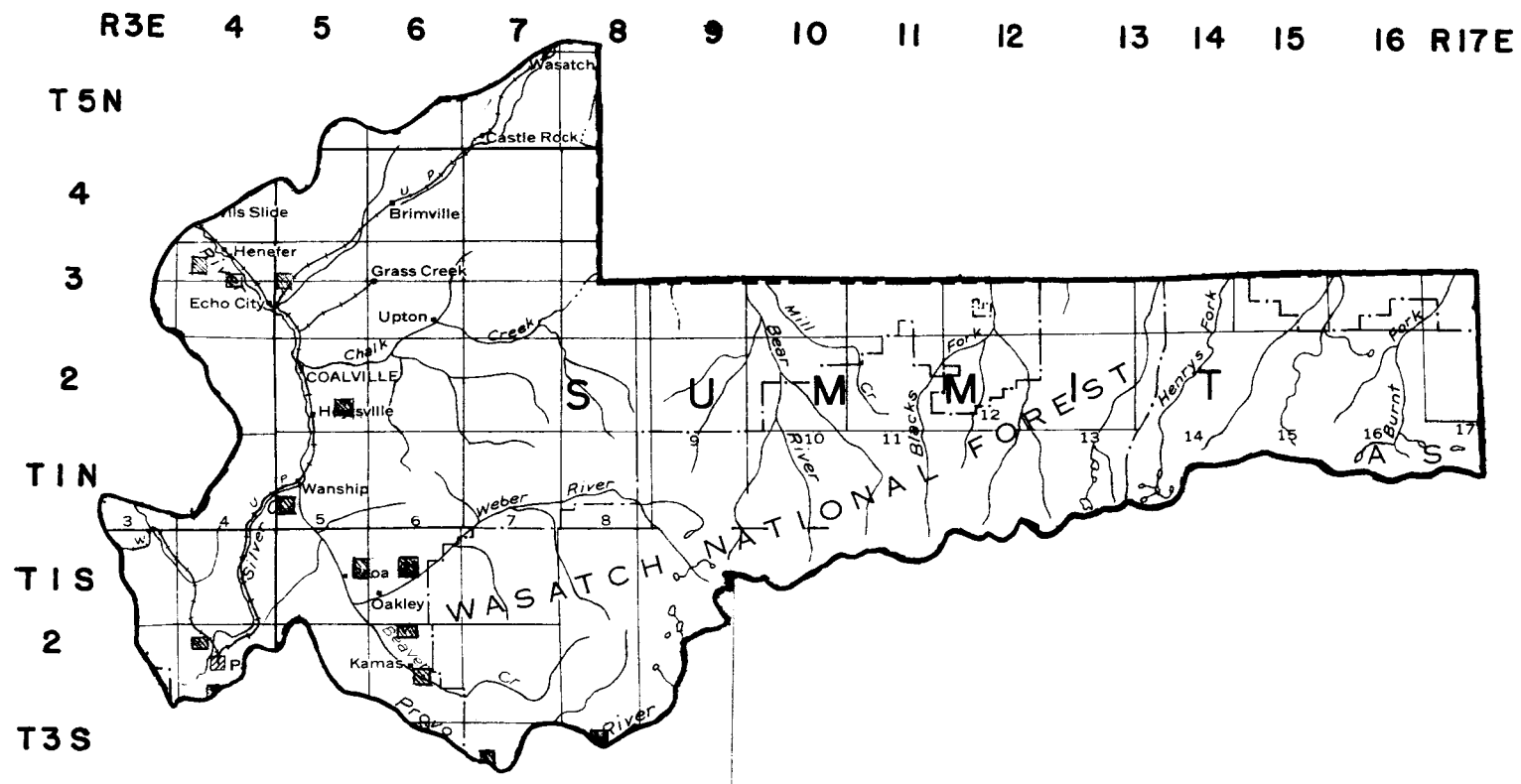
Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃	
(D-37-24)24cbb-1	8/10/54	620			19	7.6	103		21	a/	297	51	15			360		68	AC
(D-37-24)35	8/12/53	618	9.6	0.05	7.2	2.8	131		11	b/	320	55	9.5	0.8	0.6	379	30	87	GS
(D-37-25)17cab-1	8/10/54	780			15	4.8	161		15	c/	377	80	26			510		82	AC
(D-38-25)7bcd-1	6/16/54	648			5.8	3.4	122			3.9	318	58	13			380		89	AC
(D-38-25)7ecd-1	6/16/54	665			6.6	2.7	124			3.9	331	53	13			400		89	AC
(D-38-25)18bbb-1	6/16/54	650			5.2	3.2	124		3.5	323	53	12				370		90	AC
(D-39-25)5acb-1	6/16/54	802			13	8.2	145		11	458	58	11				490		80	AC
(D-39-25)5aca-1	7/31/52	740	11		18	9.4		147		423	45	5.0	0.6	0.6		445*	84	79	GS
(D-39-25)5aca-1	7/19/52	743		9.0	0.05	22	12	138		21	d/	422	16	0.5	0.1	483	104	70	GS
(D-39-25)5bc	7/19/52	1,290		9.3	0.09	28	10	264		17	e/	644	99	4.5	0.1	794	111	81	GS
(D-39-25)5be	7/31/52	1,270	13		21	5.2		294		660	96	4.8	1.8	0.5		804*	74	90	GS
(D-39-25)5b	8/12/53	1,200	11	0.05	12	4.9	271		21	f/	646	103	21	1.9	0.6	756	50	88	GS
(D-39-25)5b	8/12/53	769	10	0.05	15	8.4	152		23	442	54	8.8	0.5	0.8		470	72	77	GS
(D-39-25)18abb-1	6/16/54	770			4.6	2.6	159		3.5	439	38	14				450		93	AC
(D-40-20)36c	3/1/44	491			18	13		74		g/	249	42	8.0	1.5		279*	98		GS
(D-40-21)25aab-1	3/1/44	558			5.0	3.1		128		h/	280	50	7.0		0.1	326*			GS
(D-40-21)25aab-1	7/2/49	570			3.0	1.9	132		5.0	i/	270	45	8.1	0.1				89	AC
(D-40-21)25	11/13/33				2.0		137			j/	279	65	6.0	0.1		333	7		GS
(D-40-21)25	11/13/33				2.0		138			k/	287	60	6.0	0.1		333	7		GS
(D-40-21)25	5/12/44	318			34	16		4.6		128	39	7.0		6.8		170*	151		GS
(D-40-22)20dd	4/26/47	225			27	9.2		13		128	20	4.0	0.1	2.5		139*	106	21	GS
(D-41-18)	5/12/44				576	232		359		428	2,430	206		0.5		4,010*	2,390		GS
(D-41-19)15bc	3/4/44	282								224	95								GS
(D-41-19)15bc	3/4/44	321								183	65								GS
(D-42-19)7dd	4/11/56	1,190	19		113	35				184	413	28		0.3			424		GS
(D-42-19)8	1/3/44	1,070			100	26		105		214	363	22	0.4	0.2		722*	356		GS
a/	includes equivalent of 12 ppm CO ₃																		
b/	includes equivalent of 8 ppm CO ₃																		
c/	includes equivalent of 10 ppm CO ₃																		
d/	includes equivalent of 12 ppm CO ₃																		
e/	includes equivalent of 12 ppm CO ₃																		
f/	includes equivalent of 16 ppm CO ₃																		
g/	includes equivalent of 12 ppm CO ₃																		
h/	includes equivalent of 13 ppm CO ₃																		
i/	includes equivalent of 13 ppm CO ₃																		
j/	includes equivalent of 20 ppm CO ₃																		
k/	includes equivalent of 20 ppm CO ₃																		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhm at 25° C.)	Chemical Analysis in parts per million													Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)					
(C-17-1)	11/23/53	1,460	36	0.02	56	54	160		4.6	232	81	318	0.3	1.4	821	362	49	GS	
(C-19-1)25cd-2	5/1955	3,540	31	0.08	211	174	392		15	514	1,020	403	0.2	68	2,640	1,240	40	GS	
(D-13-2)35	2/26/41		4.0	0.00	62	16		12		274	7.7	13	0.0	0.0				PH	
(D-14-2)13aa	5/1955	478	20	0.02	60	21	11		0.3	268	11	20	0.2	2.4	277	236	9	GS	
(D-14-3)33bcc-1	5/1955	1,210	46	0.11	124	61	22		3.0	344	112	124	0.0	42	710	560	8	GS	
(D-14-4)1abc-1	7/25/52		19	0.05	62	29		25		352	16	7.9	0.4	11	344	273		PH	
(D-15-2)2	5/7/41		2.7	0.00	54	22		7.8		262	11	12	0.2	0.0	277	225		PH	
(D-15-2)25c	5/7/41		3.8	0.00	81	30		23		360	43	26	0.4	0.0	420	324		PH	
(D-15-3)9acb-1	9/21/55		14		105	22		20		335	43	48	0.2	8.2	387	236		PH	
(D-15-3)25	11/2/51	796	23		60	53	36		2.6	394	61	49	0.2	0.3	479*	368	17	GS	
(D-15-4)	8/20/52		12	0.60	38	43		18		345	21	0.0	0.0	5.7	336	271		PH	
(D-16-3)4aaa-1	11/2/51	1,240	58	0.02	98	51	99		10	402	188	113	0.0	6.1	821*	454	32	GS	
(D-16-3)4aaa-1	5/1955	1,100	60	0.08	80	53	100		8.7	360	181	110	0.2	5.7	765	418	34	GS	
(D-16-3)4aaa-2	11/2/51	1,230	62							414	198	102	0.0	5.7				GS	
(D-16-3)31	8/27/51	536			58	48		7.6		350	32	27				342	5	GS	
(D-16-3)31	11/2/51	656	16	0.05	58	48	16		1.6	348	35	19	0.1	29	394*	342	9	GS	
(D-17-2)1cba-1	11/2/51	517	20	0.09	39	37	20		1.6	268	42	20	0.1	0.3	312*	250	15	GS	
(D-17-2)1cba-2	11/2/51	769	26	0.06	49	47	53		1.6	340	81	48	0.3	0.6	474*	316	27	GS	
(D-17-2)15dec-1	11/2/51	832	21		58	55	50		2.0	365	113	40	0.1	2.4	520*	370	23	GS	
(D-17-3)6dba-1	5/1955	832	17	0.04	73	59	15		1.9	420	40	25	0.1	43	456	424	7	GS	
(D-17-3)30dbd-1	5/1955	596	39	0.05	41	45	21		2.2	272	81	17	0.6	0.9	370	268	14	GS	
(D-18-2)13	2/6/41		5.6	0.05	26	15		129		421	86	55	0.7	3.0	635			PH	
(D-19-1)	9/8/50		9.2	0.00	25	27		101		303	81	41	0.3	0.7	438	174		PH	
(D-19-1)29	9/11/50		19	0.00	40	60		128		442	127	87	0.4	31	730	344		PH	
(D-19-2)	3/10/50		17	0.80	80	56		87		466	102	85	0.1	13.2	704	433		PH	
(D-19-2)2b	5/7/41		8.3		43	29		16		262	22	20	0.2	0.0	280	228		PH	
(D-19-2)8	5/7/55		2.1	0.10	103	19		229		521	155	148	0.8	41	896	336		PH	
(D-19-2)9	11/2/51	1,310	28		54	55	164		3.2	481	143	108	0.4	42	834*	360	49	GS	
(D-20-1)25a	5/1955		30	0.17	43	43		121		378	60	119		9.4	609	284		GS	

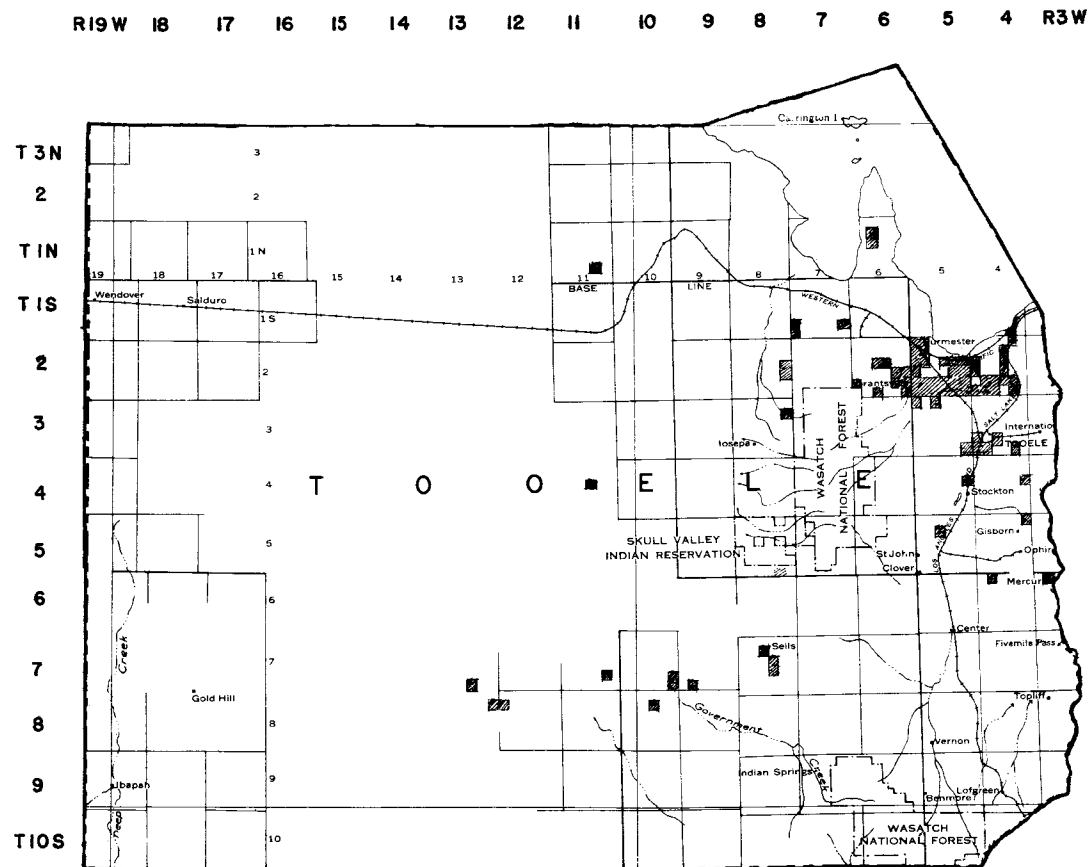
Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-17-1)		V. Roper	1½	M 42	Jetted		St. Irr.	9/24/53	+ 8.25
(C-19-1)25cd-2		Wintch & Dypreng	2	R 50	Drilled	1900	Irr.	12/13/47	+ 0.75
(D-13-2)35		Town of Fountain Green			Spring		P. S. & Irr.		
(D-14-2)13aa		E. Hansen	2	R 71	Drilled		Obs.		
(D-14-3)33bcc-1	C-3708	J. Cloward	1½	R 30	Jetted				
(D-14-4)1abc-1	A-23884	Fairview City Inc.	12-10	R 383	Drilled		P. S.		
(D-15-2)2 (Current Spr.)		Freedom Waterworks Co.			Spring		Dom. Irr.		
(D-15-2)25c (Lime Kiln Spr.)		Town of Wales			Spring		P. S.		
(D-15-3)9acb-1	A-27170	Town of Moroni	12-10	R 480	Drilled		P. S.		
(D-15-3)25	-DVS				Spring				
(D-15-4)		Mt. Pleasant City Ins.	12	R 297	Drilled		P. S.		
(D-16-3)4aaa-1	C-2252	J. F. Bagnall	2	R 160	Jetted	1902	Dom. Irr.	3/18/53	+ 6.7
(D-16-3)4aaa-2	C-2253	J. F. Bagnall	2	R 140	Jetted	1902	Dom. Irr.	9/3/55	+ 1.95
(D-16-3)31			2		Jetted		Stock		
(D-17-2)1cbe-1	C-11414	J. O. Larsen	4	R 333	Drilled	1916	Irr.	3/27/40	+ 14.3
(D-17-2)1cbe-2	C-11415	J. O. Larsen	1½	R 180	Drilled	1902	Dom. St.	3/27/40	+ 5.4
(D-17-2)15dac-1	C-80	C. Bailey	2	R 145	Drilled				
(D-17-3)6dba-1	C-11431		1½	R 160	Drilled				
(D-17-3)30dbd-1	C-2696	E. Monk	2½	R 85	Drilled				
(D-18-2)13 (Crystal Spr.)		R. Giles			Spring		Raths		
(D-19-1) (Gunnison Spr.)		Town of Gunnison			Spring		P. S.		
(D-19-1)29 (Nine Mile Spr.)					Spring		Irr.		
(D-19-2) (East Spr.)		David Olsen Jr.			Spring		Dom.		
(D-19-2)24 (Sterling Spr.)		Town of Sterling			Spring		P. S.		
(D-19-2)8		Croft Christenson			Spring		Irr. Stock		
(D-19-2)9					Spring				
(D-20-1)25a					Spring				

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-20-1) (Pipe Line Spr.)		Sevier Pipe Line Co.			Spring		P. S.		
(C-21-1)13dbs-1	C-5817	Federal Land Bank	3	R 147	Drilled				
(C-22-1)3		O. Lambertsons	3	R 380	Drilled		Dom.		
(C-22-1)3		F. J. Germie	4	R 250	Drilled		Dom. St.		
(C-22-1)4	A-24336	Town of Aurora	8	R 500	Drilled		P. S.		
(C-23-1)17 (Rock Spring)		G. W. Nebeker			Spring		Irr.		
(C-23-2)9cdd-1	A-22386	C. Wall	3	R 189	Drilled		Not used		
(C-23-2)15bad-3	C-1989	Sevier School Dist.	3	R 167	Jetted	1924	P. S.	12-10-50	+ 6.8
(C-23-2)15dba-1	C-1983	J. C. Cowley	2	R 180	Jetted		Dom.		
(C-23-2)15dbb-11	C-8059	J. L. Davis	2	R 75	Jetted		Dom.		
(C-23-2)15dcb-4	C-1969	F. M. Jackson	2	R 75	Drilled				
(C-23-2)19dab-1	C-8447	W. Hallows	2	R 310	Drilled				
(C-23-2)26cdb-1	C-323	F. Johnson	4	R 48	Drilled				
(C-23-2)31dcd-1	C-3302	Pacific Nat. Bank	2	R 225	Drilled				
(C-23-2)36		Glenwood Irr. Co.			Spring		P. S. Irr.		
(C-23-3)24		Meadow View Farm	12	R 325	Drilled		Irr.		
(C-23-3)36dda-1	A-27085	Richfield City Inc.	6-4	R 420	Drilled		Dom.		
(C-24-3)23 (Thompson Spr.)		Town of Central			Spring		Dom. Irr.		
(C-24-3)27cbd-1	A-16065	Utah Food Products Corp.	8	R 100	Drilled		Ind. Dom.		
(C-24-3)29ddb-1	A-21107	Town of Elsinore	10	R 191	Drilled		P. S.		
(C-25-1)17 (Kings Meadow Spr.)		Geo. W. Nebeker			Spring		Irr.		
(C-25-3)11dbb		(Monroe Hot Spr.)			Spring		Baths		
(C-25-3)23		Town of Monroe			Spring		P. S.		
(C-25-3)23		South Monroe Water Co.			Spring		P. S.		
(C-25-3)36 (Cold Spr.)		Town of Monroe			Spring		P. S.		
(C-25-4)4 (Gooseberry Spr.)		Town of Joseph			Spring		P. S.		
(C-25-4)13cca-1	C-20420	L. Taylor	5	R 65	Dug		Dom.		
(C-26-4)29 (Lemonade Spr.)					Spring				
(C-26-4)29tba-1	A-13744	Big Rock Candy Cafe	2	R 100	Drilled		Dom.		
(D-21-2)		Salina Creek Irr. Co.	10	R 610	Drilled		Irr.		
(D-24-1) (Pull Spr.)		Town of Salina			Spring		P. S.		





Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(C-20-1)	5/8/41		30	0.00	47	6.4		30		207	15	26	0.6	0.0	275	143		PH
(C-21-1)13dhe-1	5/1955	667	42	0.07	17	11	116		3.3	218	65	63	0.5	1.2	413	88	73	GS
(C-22-1)3	2/28/55		9.2	0.38	97	20		297		169	431	272	0.7	0.0	1,250	326		PH
(C-22-1)3	3/24/55		35	0.15	75	32		94		163	204	125	0.2	2.6	682	320		PH
(C-22-1)4	9/28/53		24	0.01	55	34		19		303	2.3	45	0.2	0.2	290	276		PH
(C-23-1)17	11/11/47		52	0.00	54	16		71		238	25	93	0.6	0.0	507			PH
(C-23-2)9edd-1	11/9/51		24	2.28	709	1,150		1,740		412	4090	4,030	1.1	0.4	14,200	6,840		PH
(C-23-2)15bdd-3	5/29/52	919	32	0.02	112	39	21		4.1	338	76	80	0.2	16	598	440	9	GS
(C-23-2)15dhe-1	3/19/39		19	0.10	311	126		3.3		293	681	248		8.8	2,340	1,300		PH
(C-23-2)15dbb-11	3/19/39		20	0.05	52	15		8.5		165	38	36			295			PH
(C-23-2)15dcb-4	5/1955	621	42	0.06	66	33	18		2.9	300	44	36	0.3	3.8	386	300	11	GS
(C-23-2)19dab-1	5/1955	541	22	0.06	51	35	14		1.9	288	32	24	0.1	1.2	296	271	10	GS
(C-23-2)26cdb-1	5/1955	735	46	0.05	74	18	56		3.4	316	16	65	0.2	17	452	258	32	GS
(C-23-2)31dcb-1	5/1955	700	37	0.16	98	26	13		2.9	278	72	48	0.2	7.5	465	352	7	GS
(C-23-2)36	1/13/41		33		25	6.6		15		128	4.8	15	0.2		183	90		PH
(C-23-3)24	7/30/52									109		39			470	235		PH
(C-23-3)36dda-1	9/9/55		13	0.04	82	23		22		206	101	52	0.0	0.0	420	300		PH
(C-24-3)23	6/20/50		48	0.00	49	11		50			41	22	0.1	1.8	364	167		PH
(C-24-3)27cbd-1	3/12/46		26	0.00	82	20		25		281	55	39	0.3	0.0	420	287		PH
(C-24-3)29cdb-1	4/27/49		27	0.05	74	20		48		299	72	36		4.0	412	265		PH
(C-25-1)17	11/11/47		55	0.00	50	11		27		220	9.7	26	0.4	0.0	307			PH
(C-25-3)11dbb	10/30/52	3,930																GS
(C-25-3)23	5/14/53		18	0.14	31	7.2		9.4		110	31	4.2	0.3	0.3	171	108		PH
(C-25-3)23	5/15/53		23	0.10	36	7.3		16		121	48	3.8	0.2	0.3	187	121		PH
(C-25-3)36	5/15/53		20	0.09	32	4.8		25		81	78	3.6	0.2	0.7	168	99		PH
(C-25-4)4	2/19/41		32	0.00	29	8.1		29		165	7.5	24	0.2	4.2	217	105		PH
(C-25-4)13cca-1	8/8/50		8.1	0.00	80	76		1,080		183	192	1,710	0.1	115	3,290	512		PH
(C-26-4)29	5/8/49	6,110	116		476	473					6,070	45				3,130		GS
(C-26-4)29	10/30/52	6,470									5,890	62						GS
(C-26-4)29bbe-1	9/22/55		13	3.5	291	144		126		90	1,440	16	4.5	0.0	2,150	1,320		PH
(D-21-2)	7/9/54	413	10	0.08	24	12	48		4.4	199	55	6.5	0.3	0.2	240	109	48	GS
(D-24-1)	3/3/52		17	0.14	27	0.0		15		99	9.3	9.1		0.6	148	69		PH



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(A-1-5)30cc		Wanship Pipeline Co.			spring		P.S.		
(A-2-5)26		Hoytsville Water Co.			spring		P.S.		
(A-3-4)8		Town of Henefer			spring		P.S.		
(A-3-4)15		Henefer Pipeline Co.			spring		P.S.		
(A-3-5)18		Echo Water Co.			spring		P.S.		
(D-1-5)13		Peoa Pipeline Co.			spring		P.S.		
(D-1-6)16d		Town of Oakley			spring		P.S.		
(D-2-4)8		Park City			spring		P.S.		
(D-2-4)28		Silver King Mine			drain from tunnel		none		
(D-2-6)4		Marion Waterworks			spring		P.S.		
(D-2-6)22		Town of Kamas			spring		P.S.		
(D-3-6)3		Town of Woodland			spring		P.S.		
(D-3-7)17		Town of Francis			spring		P.S.		
(D-3-8)9b		Y.M.C.A. Camp			spring		dom.		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃	
(A-1-5)30cc	2-15-51		46	.00	77	9.5		22		254	3.5	45	0.2	3.8	322	233	PH
(A-2-5)26	3-9-51		8.7	.06	78	25		40		39	39	52	0.4	1.1	362	297	PH
(A-3-4)8	3-1-51		12	.00	53	20		71		269	11	104	0.4	11	394	216	PH
(A-3-4)15	9-8-41		5.0	.20	50	26		63		234	10	118	0.1	1.6	425	229	PH
(A-3-5)18	9-20-50		12	.02	51	24		33		246	32	41	0.4	5.3	330	227	PH
(D-1-5)13	9-20-50		18	.04	38	26		15		306	22	7.3	0.2	0.5	308	251	PH
(D-1-6)16d	2-21-51		9.3	.00	30	12		13		171	7.0	4.3	0.2	0.5	186	124	PH
(D-2-4)8	3-9-51		10	.00	64	12		9.8		181	71	3.6	0.3	1.3	256	207	PH
(D-2-4)28	11-4-46	647	21	.02	87	30	5.5		2.3	143	21	4.0	0.4	0.1	472	340	GS
(D-2-6)4	8-21-50		8.0	.00	67	13		4.9		208	20	4.8	0.1	0.4	238	221	PH
(D-2-6)22	2-21-51		11	.00	74	1.6		27			14	9.1	0.2	1.5	278	192	PH
(D-3-6)3	2-21-51		25	.00	14	8.1		12		103	3.7	4.8	0.1	0.5	104	69	PH
(D-3-7)17	6-7-40		8.2		55	12		11		229	6.8	12	0.1	Tr.	261		PH
(D-3-8)9b	9-13-55	183	7.3	.00	24	6.1	2.0		0.8	102	7.3	2.1	0.1	0.7	103	85	GS

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-2-4)32aad-5	C-17581	M. Grgich	2	R 125	Jetted		Dom. Irr. St.		
(C-2-4)32ada-2	C-1035	Atkin & Nix	4	R 233	Jetted		Dom. Irr. St.		
(C-2-4)32bcc-1	C-578	R. A. Fenton	4	R 201	Jetted	1919	Irr.	12/18/45	+ 19.8
(C-2-4)33abb-2	C-806	L. T. Liddell	3	R 169	Jetted	1916	Irr.	12/21/50	+ 14.89
(C-2-4)33abb-4	C-808	L. T. Liddell	1½	R 80	Driven	1880	Dom.	12/31/49	+ 18.03
(C-2-4)33bba-1	C-1575	E. Weyland	3	R 222	Jetted		Irr.		
(C-2-4)33bba-2	C-1576	E. Weyland	1½	R 80	Jetted	1900	Dom. St.	3/25/41	+ 4.8
(C-2-4)33bbb-1	C-17585	Mandy Grgich	4	R 277	Jetted	1918	Irr.	10/25/41	+ 22.7
(C-2-4)33bcb-1	C-8284	F. Whitehouse	4	R 283	Jetted	1934	Dom. St.	10/2/40	+ 1.15
(C-2-4)35cbb-1	C-1031	J. R. Droubay	8	R 178	Drilled	1928	Irr. St.	5/23/41	-103.6
(C-2-5)5acc-1	D. S.	A. Searle	3	M 202	Jetted		St.	10/4/40	+ 3.42
(C-2-5)6dcd-1	D. S.	L. Peasnal	2	R 250	Jetted		Irr.		
(C-2-5)6ddc-1	D. S.	L. Peasnal	3	R 360	Jetted		Irr.		
(C-2-5)7abd-1	C-10269	Salt Lake Chemical Co.	2	R 368	Jetted		Ind.		
(C-2-5)7bdd-1	C-4681	J. R. Clark	2	R 300	Jetted	1910	St.	10/4/40	+ 2.22
(C-2-5)7dcc-1	C-16902	S. H. Worthington	3	R 490	Jetted		Irr. St.		
(C-2-5)7dccc-1	C-16903	S. H. Worthington	3	R 606	Jetted		Irr. St.		
(C-2-5)8ccc-2	D. S.	L. Peasnal	3	R 260	Jetted		Stock		
(C-2-5)13		Jess Hickey Oil Corp.		R3540	Drilled				
(C-2-5)13acc-1	C-9035	Garfield Water Co.	2	R 280	Jetted	1891	St.	10/1/40	+ 6.3
(C-2-5)14adc-1	C-9038	Garfield Water Co.	1½	R 80	Jetted	1891	St.	10/1/40	+ 17.9
(C-2-5)14dabb-1	C-9029	Garfield Water Co.	2	R 300	Jetted	1891	St.	10/1/40	+ 19.6
(C-2-5)15ccc	A-25790		16-12	R 305	Drilled		Irr.	3/21/55	- 52
(C-2-5)17acc-2	C-17545	Worthington Bros.	2		Jetted	1890	St.	10/5/40	+ 9.1
(C-2-5)17bda-1	C-16760	A. Johnson	2	R 100	Jetted	1912	St.	10/5/40	+ 20.3
(C-2-5)18acc-1	C-16906	W. A. Rupp	2	R 350	Jetted		Dom. Irr. St.		
(C-2-5)18dcc-1	C-4682	E. M. Clark	2	R 300	Jetted		Jt.		
(C-2-5)19cad-1	D. S.	G. A. Clark	3		Jetted		Dom. St.		
(C-2-5)19dcc-1	D. S.	G. L. Sutton	3	R 289	Jetted	1936	Dom. St.	12/19/45	+ 5.0
(C-2-5)23cca-1	C-9031	Garfield Water Co.	2	R 80	Jetted	1891	St. Irr.	2/27/41	+ 22.5
(C-2-5)23cad-1	C-9032	Garfield Water Co.	2	R 80	Jetted		St. Irr.		
(C-2-5)23cac-1	C-9036	Garfield Water Co.	2	R 65	Jetted		St. Irr.		
(C-2-5)24cac-2	D. S.	F. Cassidy	2		Jetted		St.	10/2/40	+ 5.3
(C-2-5)25aab-1	D. S.	State of Utah	2		Jetted		St.	10/24/35	+ 11.6
(C-2-5)25dcd-1	D. S.	J. P. Cahoon	2		Jetted		St.		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-1-6) (Shanty Spr.)					Spring				
(B-1-6)9b		Castagno & Cassidy			Well				
(B-1-6)16a		E. Cassidy	8	R 60	Drilled		Stock	2/17/54	- 26.8
(B-1-11)26b		Porter			Well				
(C-1-4)24					Spring		None		
(C-1-4)26d					Spring		None		
(C-1-4)35cda-1	A-11856	H. Anderson	3	R 400	Drilled		Dom.		
(C-1-4)35cdd-1	C-10573	O. V. Cluff	3	R 80	Jetted	1929	Dom. St. Irr.	9/30/40	+ 8.7
(C-1-7)25		Utah Lime & Stone			Drilled		Bathing		
(C-1-7)25		Utah Lime & Stone			Spring		None		
(C-1-7)30ddd-1	A-24653	W. C. Callister		R 140	Drilled				
(C-1-7)31caa					Well				
(C-2-4)2aba-2	C-6997	B. D. Davis	3	R 315	Jetted	1934	Dom. St.	12/28/45	+ 10.7
(C-2-4)2bdb-1	C-1569	E. Drury	6	R 285	Drilled	1924	Irr. St.	2/25/41	+ 10.4
(C-2-4)2bdb-2	D. S.	E. Drury	2	M 154.5	Jetted		Irr. St.	10/1/40	+ 3.66
(C-2-4)2ccc-1	A-15994	W. Garrard	48	M 19.5	Dug	1937	Dom.	3/24/42	- 12.74
(C-2-4)10cdb-1	C-18998	Utah Oil Refining Co.	2	R 140	Jetted		Dom.	10/11/40	- 3.35
(C-2-4)15cab (Mill Pond Spr.)		Garfield Water Co.			Spring		Ind. St. Irr.		
(C-2-4)18dcd-1	C-17110	D. Cassidy	4	R 250	Jetted	1898	St.	10/1/40	+ 8.6
(C-2-4)19bdd-1	A-13143	P. Castagno	6				St.		
(C-2-4)22ccb-1	C-7092	M. A. & E. S. Vorvaller	36x48	R 43	Dug		Dom. St.		
(C-2-4)26dd		Will Bryan			Spring		Dom. St. Irr.		
(C-2-4)27abd-1	A-12305	V. J. Crockeron	6	R 400	Drilled	1936	St.	10/1/40	+ 1.32
(C-2-4)27ccb-1	C-902	V. J. Crockeron	3	R 165	Jetted		Dom. St.	12/19/45	+ 7.8
(C-2-4)28cca-1	C-17583	M. Grgich	4	R 264	Drilled		Irr.		
(C-2-4)28cca-2	C-17584	M. Grgich	2	R 120	Jetted		Dom.	2/26/42	+ 13.8
(C-2-4)28dcb-2	C-12768	Tooele Co. State Bank	12-4	R 313	Drilled		Dom.	3/18/41	+ 30.25
(C-2-4)28dcb-3	C-12769	Tooele Co. State Bank	4	M 182	Jetted	1931	Irr.	3/27/41	+ 17.5
(C-2-4)28dec-3	C-20199	C. M. Hiskey	2	R 76	Jetted		Irr.		
(C-2-4)29bcd-1	C-14200	J. W. Whitehouse	2	R 300	Jetted	1885	St.	10/1/40	+ 10.0
(C-2-4)29ddd-1	C-12666	F. Cochran	2	R 200	Jetted		Dom.		
(C-2-4)31acd-1	C-1047	Walters Bros.	6	R 221	Drilled	1922	Irr.	1/13/42	+ 5.4
(C-2-4)31bcd-1	C-12781	Tooele Co. State Bank	2		Jetted		Dom.		
(C-2-4)31dad-2	A-14298	Soil Conservation Ser.	8	R 67.5	Drilled	1941	Irr.	2/16/41	+ 4.20
(C-2-4)32aad-1	C-13600	C. D. Cochran	4	R 296	Jetted		Irr.		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-2-6)23bed-1	C-4683	E. M. Clark	3	R 70	Jetted	1934	St.	2/26/41	+ 7.1
(C-2-6)23bbc-1	C-11945	L. Wrathall	4		Drilled		St.		
(C-2-6)23bcd-1	C-16774	C. H. Worthington	2	R 128	Jetted		Irr. St.		
(C-2-6)23bdd-1	C-19162	C. H. Worthington	2	R 150	Jetted	1890	St. Irr.	8/5/40	+ 8.9
(C-2-6)23bdd-3	C-16775	C. H. Worthington	2	R 110	Jetted		Irr.		
(C-2-6)23cba-2	C-12602	C. H. Worthington	3	R 128	Jetted		St. Irr.		
(C-2-6)24cbb-2	C-16776	Council of Hope College	2		Jetted	1898	St.	10/4/40	+ 16.4
(C-2-6)24cbc-2	C-17306	Council of Hope College	2		Jetted		Dom. St. Irr.		
(C-2-6)24ccb-4	C-16968	C. H. Worthington	2		Jetted		St. Irr.		
(C-2-6)24ccc-6	C-17305	Council of Hope College	2		Jetted		St. Irr.		
(C-2-6)24dba-1	C-10574	H. Erickson	3	R 125	Jetted		St.		
(C-2-6)25abc-1	C-8983	V. J. Cooley	2	R 100	Jetted		St. Irr.		
(C-2-6)25ccb-2	C-17266	C. Worthington	2	R 150	Jetted		Irr.		
(C-2-6)25cbc-1	C-8976	V. J. Cooley	2	R 200	Jetted		Irr.		
(C-2-6)26adb-1	C-13591	S. H. Worthington	2	R 160	Jetted	1905	St.	10/5/40	+ 12.7
(C-2-6)30b		Spring #4			Spring		Baths		
(C-2-6)30d		Spring #6			Spring		None		
(C-2-6)30dbb		Spring #5			Spring		None		
(C-2-6)33add (3 Mi. Spr.)					Spring		Irr.		
(C-2-6)36baa	C-16575	J. R. Clark	3	R 85	Jetted	1935	St.	12/19/45	+ 7.0
(C-2-7)15b		Spring #1			Spring		None		
(C-2-7)25a		Spring #3			Spring		None		
(C-2-8)					Well				
(C-2-8)13add-1	A-24813	D. N. Lawrence	16	R 173	Drilled		Irr.		
(C-2-8)24bcd-1	A-24814	E. R. Flinder	12	R 132	Drilled		Irr.		
(C-2-8)24ccb-1		M. Arvon	6	R 130	Drilled		Irr.		
(C-3-4)		National Tunnel & Mines Co.			Tunnel				
(C-3-4)30asc-1 (Well #3)	A-15019	Tooele Ordnance	20	R 700	Drilled		Dom.	10/18/54	- 360
(C-3-4)31 (Well #2)		Tooele Ordnance	20	R 500	Drilled		Dom.	9/3/53	- 384
(C-3-4)31bca-1 (Well #4)	A-25036	Tooele Ordnance	12	R 780	Drilled		Dom.	3/22/56	- 624
(C-3-4)32bbc-1	A-26310	Tooele City Corp.	16	R 720	Drilled		P. S.		
(C-3-4)35 (Middle Canyon Spr.)		Lincoln Cullinary Water Co.			Spring		P. S.		
(C-3-5)4bbb-1	D. S.	S. Stromberg	2	R 360	Jetted		Dom. St.	10/3/40	- 10.65
(C-3-5)6aaa-3	D. S.	N. Judd	2	R 400	Jetted		Dom.		
(C-3-5)6bba-1	C-7073	R. B. Parkinson	4	R 120	Drilled		Dom.		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-2-5)26cc					Spring		St. Irr.		
(C-2-5)26cdc					Spring		St. Irr.		
(C-2-5)27aad-1	A-13113	J. S. Castagno	4	R 120	Jetted		St. Irr.	10/2/40	+ 13.1
(C-2-5)28dcc-3	C-19869	K. C. Fawson	3	R 100	Jetted		St. Irr.		
(C-2-5)29cba-1	D. S.	F. F. Hunter	2		Jetted		St.	3/31/41	+ 5.8
(C-2-5)29dcc-1	A-12227	J. R. Clark	6	R 340	Drilled	1936	Irr.	12/31/44	+ 14.2
(C-2-5)29dcc-5	C-4672	J. R. Clark	2	R 60	Jetted	1900	St. Irr.	12/19/45	+ 13.5
(C-2-5)30bbc-1	D. S.	W. J. Clark	1 1/2		Jetted		St.		
(C-2-5)30daa-1	D. S.	Cassity	2		Jetted		St.		
(C-2-5)31aaa-3	D. S.	G. N. Anderson	2		Jetted		St.	3/31/41	+ 15.4
(C-2-5)32abc-1	C-16505	T. A. Williams	1 1/2		Jetted		St.		
(C-2-5)32bdb-1	C-17397	P. Fidler	2	R 200	Jetted		Dom. St.	2/27/42	+ 5.7
(C-2-5)32bdb-2	C-7070	C. R. Rowberry	3	R 400	Jetted		St. Irr.	2/27/42	+ 23.4
(C-2-5)32daa-1	C-7078	A. J. Fraser	2	R 300	Jetted	1920	Irr.	1/27/42	+ 9.7
(C-2-5)32dad-2	C-6530	G. A. Anderson	2	R 320	Jetted		Dom. St. Irr.		
(C-2-5)32dac-1	C-7012	A. Johnson	2	R 275	Jetted		St. Irr.		
(C-2-5)32dad-1	C-17052	R. Hammond	4	R 510	Jetted		Dom. Irr. St.		
(C-2-5)32dad-3	D. S.	R. Hammond	2		Jetted		Irr.		
(C-2-5)33abb-1	D. S.	C. R. Fawson	2		Jetted		St.		
(C-2-5)33adc-1	C-19861	R. Fawson	2	R 265	Jetted		St.		
(C-2-5)33ebb-1	C-7034	H. Watson	4	R 244	Drilled		St. Irr.		
(C-2-5)33ccb-1	D. S.	C. R. Fawson	2		Jetted				
(C-2-5)34abc-1	C-17011	H. W. Hodson	4	R 320	Jetted	1925	St. Irr.	10/3/40	+ 5.7
(C-2-5)34add-1	A-13537	B. H. Woodward	2	R 440	Jetted	1941	Dom. St.	12/18/51	+ 11.2
(C-2-5)34bca-1	C-7608	L. E. Hale	4	R 300	Drilled		Irr.		
(C-2-5)34bcd-1	C-7607	L. E. Hale	6-2 1/2	R 310	Drilled		Irr.		
(C-2-5)35cca-1	C-6830	J. Hulse	4	R 400	Jetted	1931	St.		
(C-2-5)36add-1	C-1071	E. W. Herron	2	R 305	Jetted	1912	Dom. St.	10/2/40	+ 4.6
(C-2-5)36dad-1	C-6926	R. J. Nelson	2	R 259	Jetted	1920	Dom. St.	10/2/40	+ 8.6
(C-2-6) (Warm Spr.)		Town of Grantsville			Spring		Baths		
(C-2-6)15dc		A. Johnson			Spring		Stock		
(C-2-6)15deb-1	D. S.	A. Johnson	4		Drilled		St. Irr.		
(C-2-6)15deb-2	D. S.	A. Johnson	4	M 84	Jetted		St.	10/5/40	+ 7.0
(C-2-6)15dac-1	D. S.	L. Wrathall	4		Drilled		St.		
(C-2-6)16da		Spring #7			Spring		None		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(B-1-6)	10/17/50	7,060										2,230						GS
(B-1-6)9b	10/17/50	65,400										28,700						GS
(B-1-6)16a	2/17/54	7,800			68	170				88		2,410			4,530	870		GS
(B-1-11)26b	3/3/53	16,000			539	377				114	147	6,100			10,300	2,900		GS
(C-1-4)24	2/28/47		14	0.00	166	72		1,340		330	91	2,310	0.4	0.0	5,290	710		PH
(C-1-4)26d	10/28/41									253	60	1,260				518		GS
(C-1-4)35cda-1	10/28/41									366	30	345	0.8	0.5		66		GS
(C-1-4)35cdd-1	10/28/41									292	40	670	0.3			234		GS
(C-1-7)25	6/20/50		20	0.10	322	47		3,670		260	392	5,910	0.1	5.1	10,500	998		PH
(C-1-7)25	8/21/51		17	0.40	219	74		3,510		279	371	6,520	1.8	460	11,400	790		PH
(C-1-7)30ddd-1	1/29/54	6,800	36	0.02	79	64	1,300		58	277	177	2,040	0.3	3.8	3,920	460	84	GS
(C-1-7)31caa	9/13/55	5,380	36		66	49	1,010		43	208	137	1,600	0.2	0.6	3,040*	366		GS
(C-2-4)2abae-2	4/4/41		16	0.05	47	21	272		8.8	272	27	392	0.2	1.5	916	204		GS
(C-2-4)2bdb-1	10/28/41									280	24	475	0.2	1.0		255		GS
(C-2-4)2bdb-2	10/28/41									396	48	375		0.5		78		GS
(C-2-4)2ecce-1	10/28/41									264	240	590		17		339		GS
(C-2-4)10cdd-1	10/28/41									302	110	680				375		GS
(C-2-4)15cab-1	4/4/41		18	0.03	92	42	238		6.8	283	145	382	0.1	3.6	1,100	402		GS
(C-2-4)18ced-1	10/28/41									174	14	320		0.0		309		GS
(C-2-4)19bdd-1	10/28/41									224	16	170		0.0		207		GS
(C-2-4)22ccb-1	10/28/41									280	300	310	0.2	4.3		592		GS
(C-2-4)26dd	4/4/41		12	0.04	69	27	29		2.1	314	28	43	0.0	0.5	366	283		GS
(C-2-4)27cbd-1	10/28/41									262	34	96		7.1		285		GS
(C-2-4)27ccb-1	10/28/41									208	35	110	0.2	3.5		243		GS
(C-2-4)28cca-1	10/28/41									274	13	151		1.5		174		GS
(C-2-4)28cce-2	10/28/41									278	20	150	0.2	2.9		198		GS
(C-2-4)28dcb-2	10/28/41									260	16	94		2.2		186		GS
(C-2-4)28dcb-3	10/28/41									244	14	112		3.2		183		GS
(C-2-4)28dcc-3	10/28/41									204	16	71	0.1	3.9		168		GS
(C-2-4)29bcd-1	10/28/41									274	20	215		1.5		198		GS

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-3-5)6caa-1	C-1545	J. A. Anderson	4	R 90	Drilled		Dom. St.		
(C-3-5)36ddd-1	A-14752	Tooele Ordnance	20	R 763	Drilled	1943	Dom.	11/23/54	-380
(C-3-6)1aaa-1	C-1555	A. B. Cole	3	R 153	Jetted		Dom.		
(C-3-6)1ctd-1	A-24929	Town of Grantsville	12	R 304	Drilled		P. S.		
(C-3-R)12		Western Pacific R. R.			Spring		R. R.		
(C-4-4)13	(Settlement Canyon Spr.)	Tooele City Corp.			Spring		P. S.		
(C-4-5)13bb	A-2000	Combined Metals Co.			Drilled		Dom. Ind.		
(C-4-11)15				R 243	Drilled				
(C-5-4)		Private Share System			Spring		P. S.		
(C-5-5)9cb		Rancho Hot Spr.			Spring		Baths		
(C-5-R)35ccc	C-14205	A. Williams	2	R 120	Jetted		Dom. St.		
(C-6-3)5		Snyder Gold Mining Co.	8	R 200	Drilled		Dom.		
(C-6-3)5b		Marion Gold Mining Co.			Spring		Dom.		
(C-6-4)5bdb-1 (Well #1)	A-15128	Deseret Chemical Co.	12	R 405	Drilled		Dom.	10/11/54	-283
(C-6-4)5bdd-1 (Well #2)	A-15128	Deseret Chemical Co.	12	R 428	Drilled		Dom.	9/29/54	-285
(C-7-9)9dad-1 (Well #19)	A-25642	Dugway Proving Ground	16	R 400	Drilled	1951	Dom. Ind.	12/12/55	- 84
(C-7-R)9dcd-1 (Well #18)	A-22392	Dugway Proving Ground	16	R 347	Drilled		Dom. Ind.	12/12/55	- 87
(C-7-8)15bdb-1 (Well #20)	D. S.	Dugway Proving Ground	8	R 500	Drilled		Expl.	7/20/54	- 78
(C-7-8)22a (Well #21)	D. S.	Dugway Proving Ground	8	R 720	Drilled		Expl.	8/25/54	- 91
(C-7-8)22adb-1 (Well #4)	D. S.	Dugway Proving Ground	6	R 170	Drilled		Dom. Ind.	11/4/53	- 20
(C-7-9)32ccd-1 (Well #5)	A-24385	Dugway Proving Ground	10	R 335	Drilled		P. S.	12/12/55	- 26
(C-7-10)25ccd-1 (Well #1)	A-24390	Dugway Proving Ground	6	R 317	Drilled		Dom. Ind.	10/6/54	- 12
(C-7-10)25cdd-1 (Well #2)	A-24390	Dugway Proving Ground	6	R 328	Drilled	1942	P. S.	12/12/55	- 12
(C-7-10)36bah-1 (Well #3)	A-24390	Dugway Proving Ground	10	R 330	Drilled		Dom. Ind.	12/12/55	- 12
(C-7-11)26daa-1 (Well #17)	A-22806	Dugway Proving Ground	6	R 320	Drilled	1951	Ind.	10/15/52	+ 1.5
(C-7-11)26daa-2 (Well #16)	A-22807	Dugway Proving Ground	12	R 284	Drilled		Ind.	11/3/53	+ 1.5
(C-7-13)34adc-1 (Well #10)	A-24389	Dugway Proving Ground	12	R 153	Drilled			7/23/53	- 70
(C-8-10)10dda-1 (Well #7)	A-24388	Dugway Proving Ground	8	R 120	Drilled		Dom. St.	10/6/54	- 15
(C-8-12)7c		A. M. Cannon			Spring		None		
(C-8-13)12d	(Spring Canyon)	Dugway Proving Ground			Spring				

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(C-2-5)13	11/8/55	2,130	39	0.00	62	36	300		8.2	110	20	595	0.5	1.7	1,200	302	68	GS
(C-2-5)13acc-1	10/28/41									274	5.0	162		1.2		135		GS
(C-2-5)14acc-1	10/28/41									270	32	250		1.0		204		GS
(C-2-5)14dbb-1	10/28/41									268	46	410		1.0		261		GS
(C-2-5)15ccc	3/21/55	3,420	18	0.02	118	48	543	13		281	263	840	0.1	4.5	2,030	492	70	GS
(C-2-5)17acc-2	10/28/41									244	52	420		0.5		333		GS
(C-2-5)17bda-1	4/4/41		30	0.11	82	38	221		6.8	244	73	405	0.3	1.6	1,010	361		GS
(C-2-5)18acc-1	9/2/41									196	30	56		0.4		120		GS
(C-2-5)18dcc-1	9/2/41									178	22	36		0.4		99		GS
(C-2-5)19cad-1	9/2/41									196	12	33		0.3		150		GS
(C-2-5)19dcc-1	4/4/41		37	0.05	41	15	26		2.8	189	12	33	0.1	0.8	251	164		GS
(C-2-5)23cca-1	8/27/41									272	85	610				339		GS
(C-2-5)23cad-1	8/27/41									260	60	625				360		GS
(C-2-5)23cdc-1	8/27/41									216	56	695				366		GS
(C-2-5)24cac-2	8/27/41									216	100	785				788		GS
(C-2-5)25aab-1	10/28/41									280	30	128		1.5		204		GS
(C-2-5)25dcd-1	9/2/41									230	28	155		0.0		144		GS
(C-2-5)26cc	9/5/41									262	72	1,130	0.2			502		GS
(C-2-5)26cdc	9/5/41				128	51		595		261	90	1,070			2,070	529		GS
(C-2-5)27aad-1	4/4/41		27	0.04	112	47	375		8.4	245	74	718	0.3	1.7	1,610	473		GS
(C-2-5)28dcc-3	8/27/41									240	110	398		2.5		330		GS
(C-2-5)29cba-1	8/28/41									220	270	412		2.0		548		GS
(C-2-5)29dcc-1	8/27/41									148	26	470		2.3		690		GS
(C-2-5)29dcc-5	8/27/41									124	20	240		1.5		330		GS
(C-2-5)30bbc-1	9/2/41									206	8.0	34		0.5		186		GS
(C-2-5)30daa-1	8/28/41									186	14	36		0.9		162		GS
(C-2-5)31aaa-3	8/28/41									174	12	38		0.6		156		GS
(C-2-5)32abc-1	8/28/41									184	14	60		0.9		189		GS
(C-2-5)32bab-1	8/27/41									184	12	36		0.9		153		GS
(C-2-5)32bdb-2	8/27/41									196	12	36		0.9		135		GS

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis By			
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃	
(C-2-4)29ddd-1	10/28/41																		
(C-2-4)31acd-1	4/4/41		18	0.06	53	19	125		3.2	278	28	158	0.1	7.5	541	210			GS
(C-2-4)31bdc-1	10/28/41									274	24	186		4.3		225			GS
(C-2-4)31dad-2	6/18/41	a/depth 85'								162	40	133	0.4	2.2		150			GS
(C-2-4)31dad-2	6/19/41	a/depth 145'								258	30	101	0.3	4.8		180			GS
(C-2-4)31dad-2	6/23/41	a/depth 175'								264	22	102	0.3	7.7		186			GS
(C-2-4)31dad-2	6/26/41	a/depth 207'								198	26	106	0.2	8.5		144			GS
(C-2-4)31dad-2	7/9/41	a/depth 237'								172	28	94	0.2	10		108			GS
(C-2-4)31dad-2	7/22/41	a/depth 305'								190	24	92		9.6		117			GS
(C-2-4)31dad-2	10/20/41	a/depth 480'								180	28	405				192			GS
(C-2-4)31dad-2	1/5/42	a/depth 675'								78	14	162		0.0		84			GS
(C-2-4)32aad-1	10/28/41									240	28	285		2.5		159			GS
(C-2-4)32aad-5	8/25/41									288	24	215		1.8		174			GS
(C-2-4)32ada-2	8/26/41									292	26	250		2.5		177			GS
(C-2-4)32bcc-1	8/26/41									282	26	108		7.9		216			GS
(C-2-4)33abb-2	4/4/41		15	0.03	53	19	61		1.7	246	18	84	0.0	5.7	373	210			GS
(C-2-4)33abb-4	8/25/41									208	20	82		3.9		168			GS
(C-2-4)33bbe-1	8/25/41									274	20	150		1.5		156			GS
(C-2-4)33bbe-2	8/25/41									288	20	128		3.1		141			GS
(C-2-4)33bbb-1	8/25/41									220	20	190		1.9		135			GS
(C-2-4)33bec-1	8/25/41									280	24	215	0.2	2.0		159			GS
(C-2-4)35ebb-1	8/26/41									234	45	254		9.3		405			GS
(C-2-5)5acc-1	9/2/41									72	50	5,250				5,180			GS
(C-2-5)6dcd-1	9/2/41									86	8.01	740				2,180			GS
(C-2-5)6ddc-1	9/2/41									72	7.03	220				4,050			GS
(C-2-5)7abd-1	9/2/41									170	13	220		1.0		294			GS
(C-2-5)7bdd-1	4/4/41		56	0.04	30	19	34		3.8	175	13	47	0.1	1.0	278	153			GS
(C-2-5)7dacc-1	8/28/41									182	20	97	0.3	0.8		156			GS
(C-2-5)7dccc-2	8/28/41									150	24	75	0.3	0.4		126			GS
(C-2-5)8ccc-2	8/28/41									192	14	165		1.0		237			GS

a/depth of aquifer sampled during drilling

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(C-2-6)24ccb-4	9/4/41								188	6.0	46		0.5		153		GS	
(C-2-6)24ccc-6	9/4/41								156	11	55		0.8		189		GS	
(C-2-6)24dbe-1	9/4/41								186	12	35		0.6		171		GS	
(C-2-6)25abc-1	9/2/41								172	14	60		0.9		198		GS	
(C-2-6)25beb-2	9/2/41								170	16	66		0.8		198		GS	
(C-2-6)25cbc-1	9/4/41								204	24	48	0.1	1.1		201		GS	
(C-2-6)26adb-1	9/4/41								178	12	52		1.4		165		GS	
(C-2-6)30b	9/5/41								212	540	9,600				1,280		GS	
(C-2-6)30d	9/5/41								218	240	3,600				578		GS	
(C-2-6)30dbb	9/5/41								182	340	6,850				495		GS	
(C-2-6)33add	9/5/41								204	22	810				363		GS	
(C-2-6)36baa-B	4/4/41		26	0.03	128	34	157		402	109	239	0.0	16	925	459		GS	
(C-2-7)15b	9/5/41								230	440	6,720				1,020		GS	
(C-2-7)25a	9/5/41								204	170	3,580				615		GS	
(C-2-8)	4/29/55	4,380	32	0.03	70	41	793		30	206	107	1,270	0.2	6.0	2,480	343	82	GS
(C-2-8)13add-1	3/16/54	4,590	21	0.09	78	42	820		30	190	95	1,350	0.1	4.5	2,590	367	81	GS
(C-2-8)24bcd-1	7/1/54	2,910	22	0.07	70	31	485		16	199	76	825	0.1	3.7	1,610	302	77	GS
(C-2-8)24ccb-1	7/1/54	5,350	22	0.06	95	46	993		34	188	128	1,630	0.1	4.4	3,090	426	82	GS
(C-3-4)	10/31/46	864	4.0	0.02	96	51	14		1.9	167	298	20	0.8	1.0	616	449		GS
(C-3-4)30aac-1	10/18/54	1,110	24	0.07	84	32	98		2.9	268	82	185	0.1	9.3	653	341	38	GS
(C-3-4)31	10/29/47		15	0.02	58	21		38	<u>1/a</u>	256	22	52	0.0	7.9	334	231	26	GS
(C-3-4)31	9/14/50	620	14	0.03	64	21	35		3.5	275	11	50	0.2	8.5	346	246	23	GS
(C-3-4)31	9/3/53	621	14	0.02	63	21	38		1.5	275	23	51	0.1	6.9	350	244	25	GS
(C-3-4)31bca-1	3/22/56	686	19	0.04	80	21	34		1.6	291	20	69	0.2	3.2	392	286	20	GS
(C-3-4)32bbc-1	8/24/55		34	0.00	75	12		52		270	24	66	0.2	12	418	238		PH
(C-3-4)35	12/15/50		9.5	0.00	62	27		16		277	40	17	0.2	2.0	312	264		PH
(C-3-4)35	3/1/51	558	12	0.02	76	22	14		2.7	298	39	15	0.1	2.4	320	280	10	GS
(C-3-5)4bbb-1	8/27/41									208	26	475		2.0		645		GS
(C-3-5)6aaa-3	8/27/41									196	8.0	45		1.1		147		GS
(C-3-5)6bba-1	8/27/41									90	21	285		0.5		472		GS

1/a includes equivalent of 18 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis By		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃
(C-2-5)32daa-1	4/4/41		24	0.04	195	78	160		4.2	198	45	665	0.0	1.8	1,370	807	GS	
(C-2-5)32deb-2	8/27/41									148	26	178		1.5		267	GS	
(C-2-5)32dac-1	8/27/41									230	26	195		1.5		318	GS	
(C-2-5)32dad-1	8/27/41									188	22	435		2.0		622	GS	
(C-2-5)32dad-3	8/27/41									188	26	185		1.2		308	GS	
(C-2-5)33abb-1	8/26/41									252	80	460		2.5		354	GS	
(C-2-5)33adc-1	8/26/41									244	60	412		1.5		405	GS	
(C-2-5)33ebb-1	8/27/41									200	46	215		2.0		312	GS	
(C-2-5)33ccb-1	8/27/41									202	24	192		1.2		720	GS	
(C-2-5)34abc-1	8/26/41									196	50	1,040					GS	
(C-2-5)34add-1	8/26/41									212	28	330					GS	
(C-2-5)3bca-1	8/26/41									188	110	1,720		1.0		255	GS	
(C-2-5)34bcd-1	8/26/41									180	75	1,190				705	GS	
(C-2-5)35cca-1	8/26/41									240	28	238		1.5		231	GS	
(C-2-5)36add-2	9/2/41									274	30	178		3.3		246	GS	
(C-2-5)36dad-1	9/2/41									202	24	245		3.0		228	GS	
(C-2-6)	4/4/41		28	0.04	677	185	9,980		256	247	694	16,700			29,500	2,450	GS	
(C-2-6)15dc	9/5/41									220	24	200		0.2		153	GS	
(C-2-6)15deb-1	9/5/41									168	70	1,370				915	GS	
(C-2-6)15deb-2	9/5/41									180	40	990				675	GS	
(C-2-6)15ddc-1	9/5/41									156	50	825				525	GS	
(C-2-6)16da	9/5/41									248	280	6,100				1,020	GS	
(C-2-6)23bed-1	9/4/41									164	26	500		0.5		297	GS	
(C-2-6)23bbc-1	9/5/41									172	55	1,160				638	GS	
(C-2-6)23bcd-1	9/4/41									184	52	755	0.1			390	GS	
(C-2-6)23bdd-1	9/4/41									156	20	352		0.5		318	GS	
(C-2-6)23bad-3	9/4/41									164	12	175		0.4		180	GS	
(C-2-6)23cba-2	9/5/41									152	26	510		0.8		288	GS	
(C-2-6)24cbb-2	9/4/41									196	14	46		0.7		183	GS	
(C-2-6)24cbc-2	9/4/41									206	11	48		0.5		192	GS	

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million													Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			
(C-7-9)32ced-1	12/4/45	1,070	47	0.01	49	29		122		223	50	190	0.3	3.7	664	242	52	GS
(C-7-9)32ced-1	7/31/51	1,070	51	0.00	46	28	125		12	228	48	200	0.4	6.5	616	230	55	GS
(C-7-9)32ced-1	12/12/55	1,070	56	0.02	44	29	130		8.6	224	48	198	0.2	5.5	627	229	54	GS
(C-7-10)25ced-1	12/4/45	1,750	50	0.01	43	21		288		255	95	360	0.3	5.8	1,020	194	76	GS
(C-7-10)25ced-1	10/18/50	1,760	50	0.05	40	22	289		14	264	91	385	0.2	9.2	1,010	190	75	GS
(C-7-10)25ced-1	10/6/54	1,740	45	0.15	38	21	300		11	261	91	362	0.2	8.0	997	182	77	GS
(C-7-10)25ced-1	10/15/52	1,730	44	0.50	27	15	319		12	270	87	370	0.5	6.9	995	129	83	GS
(C-7-10)25ced-1	12/12/55	1,780	53	0.07	27	15	326		12	262	88	378	0.6	8.8	1,020	129	83	GS
(C-7-10)36bab-1	12/4/45	1,790	46	0.01	29	16		334		266	90	390	0.5	1.5	1,040	138	84	GS
(C-7-10)36bab-1	10/18/50	1,720	50	0.26	32	21	294		13	278	93	362	0.2	9.8	996	166	78	GS
(C-7-10)36bab-1	12/12/55	1,780	54	0.00	32	18	314		13	267	89	378	0.4	9.5	1,030	154	80	GS
(C-7-11)26dnn-1	10/15/52	4,690	31	0.59	25	16	949		47	162	52	1,450	0.6	0.4	2,590	128	92	GS
(C-7-11)26dnn-2	7/31/51	3,650	56	0.01	33	19	682		31	170	81	1,050	0.6	0.8	2,000	160	88	GS
(C-7-11)26dnn-2	11/3/53	3,500	66	0.05	37	24	620		35	168	91	970	0.5	0.3	1,930	191	85	GS
(C-7-13)34adc-1	7/23/53	4,300	20	0.13	134	42	718		6.9	233	285	1,140	3.1	13	2,530	507	75	GS
(C-8-10)10dda-1	7/31/51	1,500	56	0.01	54	38	176		18	230	57	328	0.4	5.8	877	290	55	GS
(C-8-10)10dda-1	10/6/54	1,500	43	0.10	59	39	183		17	232	58	325	0.4	5.0	870	308	55	GS
(C-8-12)7c	10/24/55		13	0.00	98	21		273		297	108	402	0.8	0.3	1,080	332		PH
(C-8-13)12d	11/8/55	1,900	20	0.02	92	27	260		5.8	278	86	418	0.5	2.2	1,060	340	62	GS

^a includes equivalent of 1 ppm CO₃

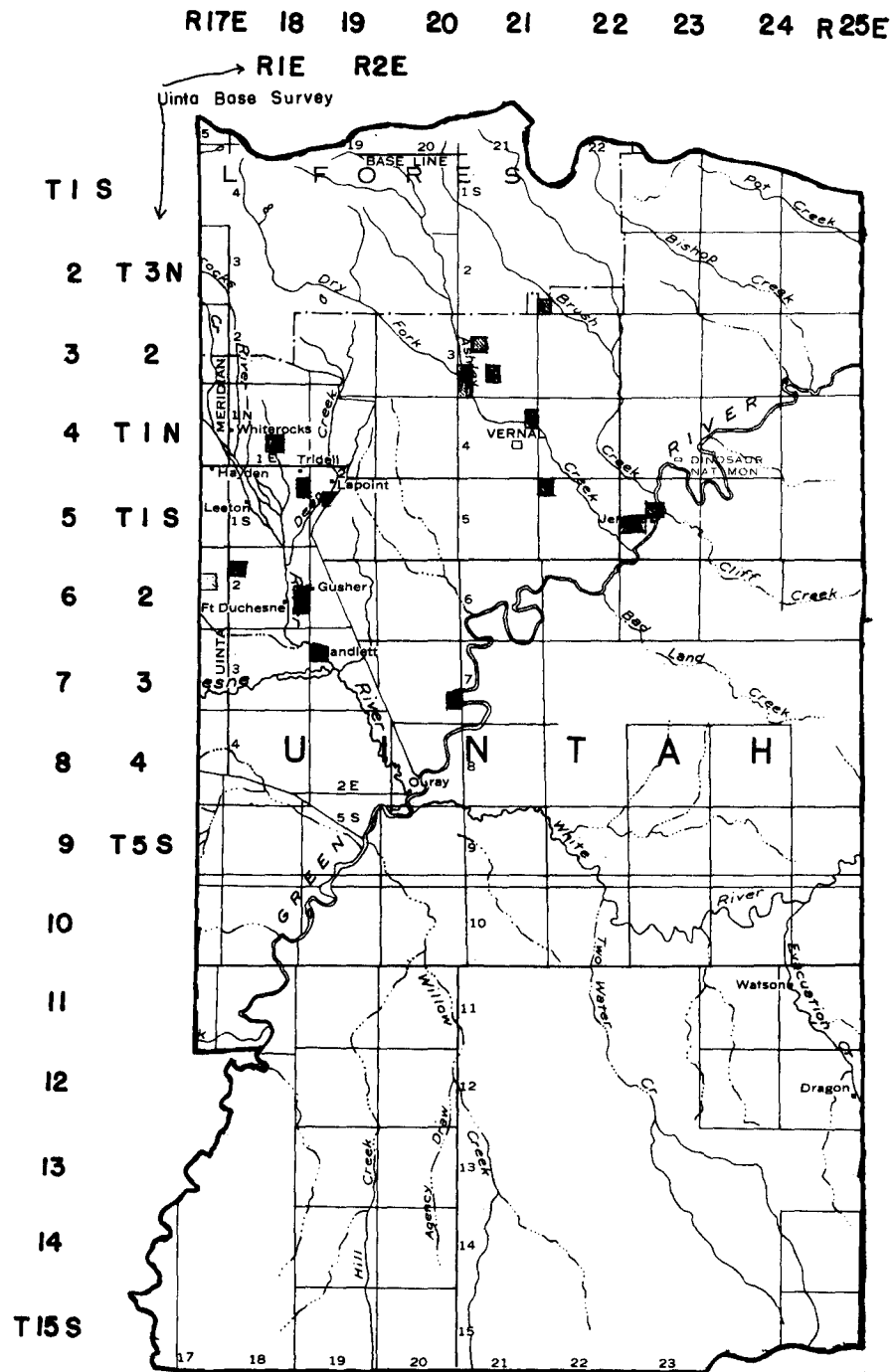
GROUND WATER - TOOELE COUNTY

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Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million												Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)				
(C-3-5)6caa-1	8/27/41									364	24	78		14		405		GS
(C-3-5)36ddd	10/29/47		24	0.04	114	48		103		284	150	222	0.1	5.0	834	482	32	GS
(C-3-5)36ddd-1	9/14/50	1,340	22	0.05	115	47	91		5.4	285	140	210	0.1	7.0	822	480	29	GS
(C-3-5)36ddd-1	11/27/54	1,400	20	0.06	121	54	97		4.6	288	170	228	0.1	7.4	871	524	28	GS
(C-3-6)1aaa-1	8/27/41									96	22	170		0.2		279		GS
(C-3-6)1cbcd	8/25/53		20	0.15	43	12		27	1.8	179	5.8	44	0.1	0.2	233	155		PH
(C-3-8)12	9/22/50		15	0.02	42	14		59			18	66	0.2	3.5	296	164		PH
(C-4-4)13	3/1/51	586	13	0.02	70	23	22		2.9	305	20	36	0.1	1.8	326	269	15	GS
(C-4-5)13bb	4/22/50		32	0.00	124	37		209		266	196	339	0.2	14	1,130	460		PH
(C-4-11)15	3/1/54	17,400			587	292				171	469	6,180			2,670			GS
(C-5-4)	9/25/40		6.1	0.09	42	20		8.5		208	15	7.3	0.1	4.4	198	184		PH
(C-5-5)9cb	7/28/41									188	110	195		0.0		270		GS
(C-5-8)35ccc	4/29/55	1,560	28	0.03	70	43	190		12	282	74	331	0.6	1.9	914	352	53	GS
(C-6-3)5	6/26/41		6.2	0.00	88	22		28		330	47	18	0.5		398	309		PH
(C-6-3)5b	9/25/50		9.9	0.00	59	20		21		267	22	18	0.2	1.8	310	227		PH
(C-6-4)5bab-1	5/5/48	686	14	0.03	85	35		17		398	38	12	0.1	11	399	356	9	GS
(C-6-4)5bad-1	8/2/51	815	13	0.01	97	38	23		3.5	412	40	46	0.2	9.7	484	398	11	GS
(C-6-4)5bab-1	10/11/54	850	12	0.04	103	41	25		1.0	398	41	64	0.1	12	497	426	11	GS
(C-6-4)5bad-1	5/6/48	739	13	0.03	87	34		27		408	39	24	0.1	8.7	421	357	14	GS
(C-6-4)5bad-1	8/2/51	806	12	0.01	86	35	37		2.6	399	40	46	0.2	9.2	462	358	18	GS
(C-6-4)5bad-1	9/29/54	774	11	0.04	90	35	32		1.0	382	41	45	0.1	9.2	446	368	16	GS
(C-7-8)9dad-1	10/15/52	1,610	48	0.08	110	32	180		11	208	299	230	0.2	19	1,060	406	48	GS
(C-7-8)9dad-1	11/4/53	1,080	45	0.05	57	19	129		7.1	194	51	210	0.5	3.0	628	220	55	GS
(C-7-8)9dad-1	10/6/54	1,660	45	0.07	112	33	192		10	199	266	260	0.3	19	1,070	415	49	GS
(C-7-8)9dad-1	12/12/55	1,060	51	0.00	55	19	132		9.0	183	45	216	0.4	2.0	636	215	56	GS
(C-7-8)9dcd-1	7/31/51	1,290	53	0.00	70	18	162		12	212	132	215	0.3	8.5	778	248	57	GS
(C-7-8)9dcd-1	12/12/55	1,340	55	0.01	80	20	165		12	204	174	214	0.3	9.3	842	282	55	GS
(C-7-8)15bcb-1	7/20/54	1,140	52	0.03	54	19	146		7.5	184	47	236	0.5	5.2	668	212	59	GS
(C-7-8)22a	8/25/54	1,080	47	0.05	42	34	129		4.8	202	42	220	0.4	2.6	628	205	53	GS
(C-7-8)22adb-1	11/4/53	1,150	34	0.07	18	16	191		30	236	21	242	0.7	0.2	668	111	74	GS

1/a includes equivalent of 4 ppm CO₃
 1/b includes equivalent of 16 ppm CO₃

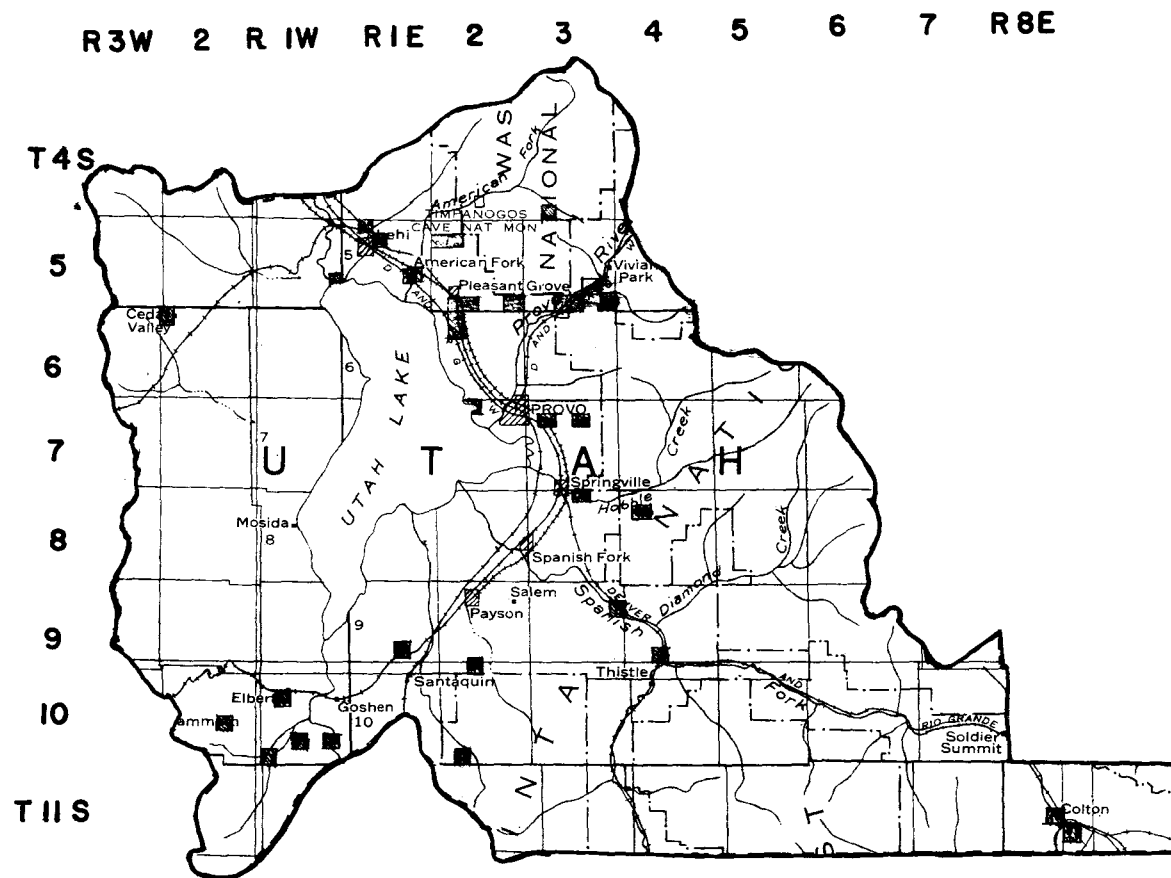
Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-2-22)31a		Ratliff Ranch			Spring		Dom. St. Irr.		
(D-3-21)17eda	C-6641	L. Bingham	8	R 210	Drilled	1932	Dom.	10/24/46	+ 7.6
(D-3-21)28dba-1	A-12153	Maud Ellen Oil Co.	10	R2552	Drilled		Not used	12/21/36	+207
(D-3-21)30ddc-1	A-19279	C. S. Neal	12½	R1350	Drilled		Not used		
(D-3-21)31aba-1	C-2629	R. G. Alexander	8-6	R 138	Drilled	1932	Dom. St.	10/5/48	+ 10.1
(D-3-22)		Monsanto Chemical Co.	16	R 500	Drilled		Dom. Ind.		
(D-3-25) (Fault Spring)					Spring				
(D-4-21)12		Davis Merkley	6	R 25	Drilled		Stock		
(D-4-21)12		Ivan Batty	4'x4'	R 20	Dug		Dom.		
(D-4-21)12		Q. Hatch	6	R 45	Drilled		Dom.		
(D-4-23)		K. Ranch			Spring				
(D-4-23)26		U. S. Govt.			Spring				
(D-4-24) (Split Mt. Warm Spr.)					Spring				
(D-5-22)6		D. Batty	2½	R 30	Drilled				
(D-5-23)16caa		DAR #508	8	R 352	Drilled		Dom.		
(D-5-23)19		Crane & Griffith Oil Co.		R4500	Drilled				
(D-5-23)20		Utah School Dist.	6	R 18	Drilled		Dom.		
(D-6-24)		S. Fratto & H. Stewart			Spring				
(D-7-20)25b					Spring				
(D-9-24)		American Gilsonite Corp.			Dug				
U(A-1-1)27ddd-1	A-17040	W. D. Morrill	4	R 300	Drilled		Dom.		
U(C-2-1)14ccb-1	A-27434	T. Costuros	7	R 667	Drilled		Dom.		
U(D-1-1) (Uriah Heap Spr. #1)		Town of Roosevelt			Spring		P. S.		
U(D-1-1) (Uriah Heap Spr. #2)		Town of Roosevelt			Spring		P. S.		
U(D-1-1) (Uriah Heap Spr. #3)		Town of Roosevelt			Spring		P. S.		
U(D-1-1)12		Floyd Angus			Drilled		Dom.		
U(D-1-2)17bd			6	R 265	Drilled				
U(D-2-1)		A. Darriette	8	R 140	Drilled		Dom.		
U(D-2-1)7		J. F. Ekstrom	4	R 170	Drilled		Stock		
U(D-2-1)24		E. Markey	6	R 50	Drilled		Dom.		
U(D-2-1)25		V. Cuch	6	R 90	Drilled		Dom.		
U(D-2-2)		A. Daniels	6	R 90	Drilled		Dom.		
U(D-3-2)7		Ute Indians	8	R 70	Drilled		Dom.		
U(D-6-1)22d	Test well	U.S.G.S.		R 688	Drilled	1955	Not used		



Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million											Percent Sodium	Analysis By			
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)			Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃
U(D-2-1)24	2/5/54		14	0.13	308	98		449		688	1,170	252	0.0	0.9	2,850	1,170		PH
U(D-2-1)25	5/10/56			0.16						478		296			1,350	540		PH
U(D-2-2)	5/10/56			5.1						466		63			1,490	840		PH
U(D-3-2)7	5/10/56			0.85						344		134			1,960	820		PH
U(D-6-1)22d	4/12/55	83,200										47,800				35,200		GS

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(D-2-22)31a	8/8/50	399	8.8	0.02	48	23	2.3	28	1.3	215	36	2.1	0.3	0.5	226	214	2	GS
(D-3-21)17eda	8/3/39		7.5		98	27				185	231	16	0.3		550	356		PH
(D-3-21)28aba-1	12/11/51		11	0.16	88	26				247	134	1.8	0.8	0.3	416	325		PH
(D-3-21)303dc-1	12/11/47		6.4	0.00	52	27				120	124	6.0	0.5	0.0	332	240		PH
(D-3-21)31ahe-1	10/5/48	568	8.9		8.0	4.6	129			286	77	3.0		1.0	372*	39	88	GS
(D-3-22)	12/11/51	1,660	5.8	0.00	55	16		7.6		210	36	3.6	0.0	0.3	232	202	63	PH
(D-3-25)	9/18/48		13		74	29		237		239	94	370		3.2	938*	304		GS
(D-4-21)12	6/10/53		5.7	2.7	93	23		5.3		370	28	3.6	0.1	0.3	377	328		PH
(D-4-21)12	6/10/53		6.9	0.08	89	40		3.6		413	50	1.6	0.3	0.2	422	387		PH
(D-4-21)12	6/10/53		0.1	1.6	101	33		3.9		403	55	3.4	0.2	0.2	432			PH
(D-4-23)	10/27/53	364	17							202	31	2.0		0.6		128	53	GS
(D-4-23)26	5/4/50		10	0.00	78	37		13		272	124	13	0.0	0.3	407	345		PH
(D-4-23)26	10/27/53	752	12							299	134	20		0.5		363		GS
(D-4-24)	1948	1,570	18		97	32		193		198	212	291		1.2	942*	374		GS
(D-5-22)6	2/28/55		29	0.15	141	51		39		425	246	10	1.1	29	758	560		PH
(D-5-23)16caa	4/26/39		24	0.60	2.4	1.5		300		878	92	140			1,250	12		PH
(D-5-23)19	6/22/53		26	0.05	95	31		79		206	307	34	1.8	0.1	674	366		PH
(D-5-23)20	1/21/54		18	0.18	531	74		496		428	2,140	80	0.0	16	3,550	1,630		PH
(D-6-24)	10/27/53	2,570	15							342	987	50		1.1		370		GS
(D-7-20)25b	10/6/48	939	24		76	35		89		342	166	46		10	614*	334	37	GS
(D-9-24)23			4.8	0.98	17	1.4		348		313	413	89	0.5	0.1	1,030	48		PH
U(A-1-1)27ddd-1	1/24/47		4.4	0.00	58	31		670		177	1,470	40	1.8	0.0	2,530	270		PH
U(C-2-1)14ecb-1	6/11/51		2.4	0.11	20	5.0	1,100			404	283	1,270	0.3	30	3,060	70		PH
U(D-1-1)	6/11/54		10	0.04	77	13		3.2		279	10	4.0	0.5	7.3	305	246		PH
U(D-1-1)	6/11/54		12	0.02	76	12		6.5		283	10	4.0	0.0	5.5	264	239		PH
U(D-1-1)	6/11/54		12	0.03	77	12		5.0		277	13	4.0	0.5	4.0	290	240		PH
U(D-1-1)12	3/3/55		6.2	0.25	157	51		122		458	421	32	1.0	5.1	958	604		PH
U(D-1-2)17ba	9/8/39		2.5	0.00	32	22		91		298	142	9.0	0.4		472	171		PH
U(D-2-1)	5/10/56			0.50						427		254			4,820	2,160		PH
U(D-2-1)7	2/15/55		8.4	1.1	421	686	1,570			126	6,610	206	1.2	22.4	9,980	3,880		PH

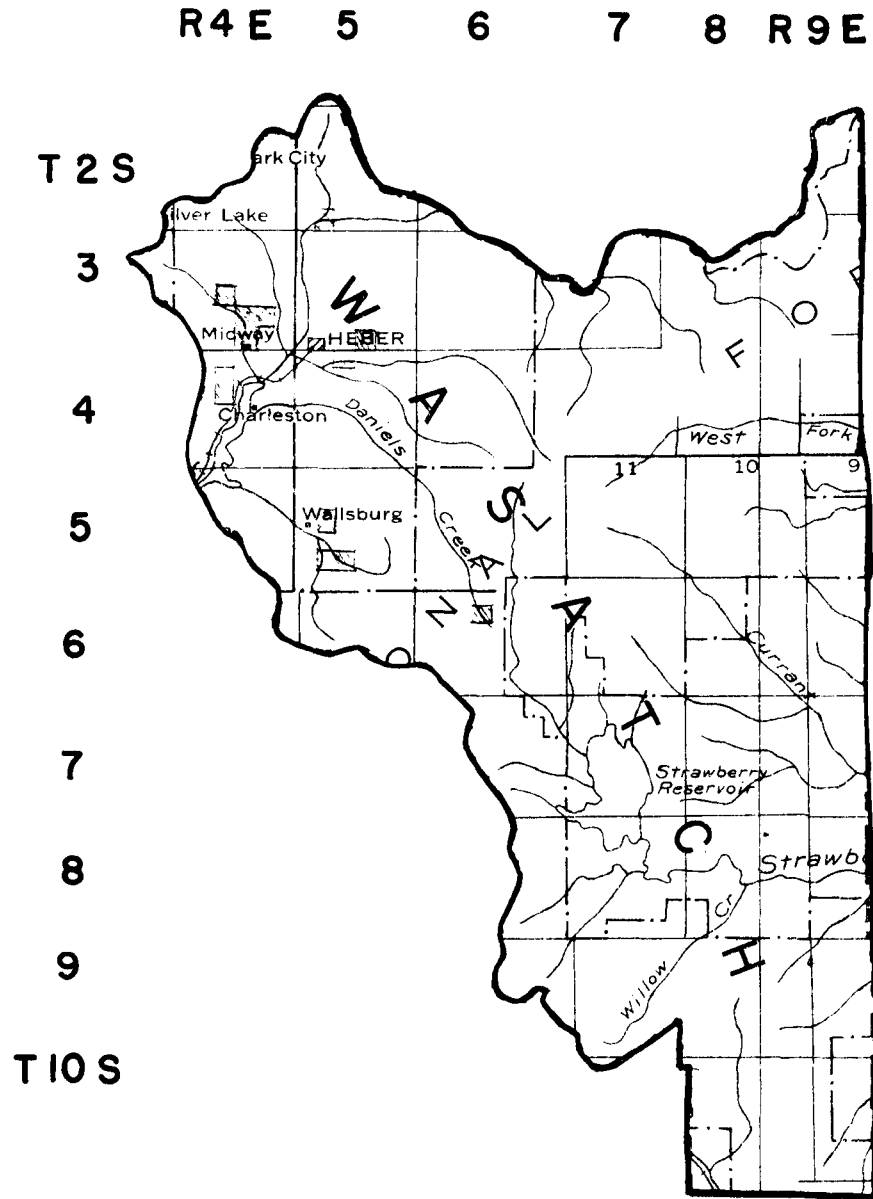
Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-5-1)25cbd-1	A-23385	L.D.S. Church	3	R 147	Drilled		Dom.		
(C-5-1)25ccc-4	A-22467	R. T. Eastmond	4	R 120	Drilled		Bathing		
(C-6-2)6a		Town of Cedar Fort			Spring		P. S.		
(C-10-1)8		Roy Tachiki		R 400	Drilled		Dom. Irr.		
(C-10-1)8		Oren Barney		R 220	Drilled		Irr.		
(C-10-1)26		Town of Goshen			Spring		P. S.		
(C-10-1)28ada-1	A-23372	Town of Elberta	6	R 335	Drilled		P. S.		
(C-10-1)31bdb-1	A-26202	Earl Berney	6	R 225	Drilled		Dom. Irr.		
(C-10-2)22		Tintic Standard Mining Co.			Spring		Dom. Ind.		
(D-4-3)32 (Tunnel Spr.)		Town of American Fork			Spring		P. S.		
(D-5-1)5bbc-1	A-25170	General Refractories	10	R 293	Drilled		Ind.		
(D-5-1)9daa-1	A-26671	Town of Lehi	16	R 430	Drilled		P. S.		
(D-5-1)23cab-2		W. Storrs			Drilled		Dom. Irr.		
(D-5-2)7 (Alpine Spring)		Town of Alpine			Spring		P. S.		
(D-5-2)7aba (School House Spr.)		Town of Alpine			Spring		P. S.		
(D-5-2)7ab (Grove Spr.)		Town of Alpine			Spring		P. S.		
(D-5-2)8acd-1	A-25928	Manila Water Co.	6	R 368	Drilled		P. S.		
(D-5-2)32acb-1	D. S.	Alfred Richins	4	R 287	Jetted	1928	Dom. Irr.	4/13/47	+ 43.05
(D-5-2)32bdc-2	C-8348	Boyd Anderson	4	R 171	Drilled		Dom. St. Irr.		
(D-5-2)33acd-1	A-26676	Town of Lindon	4	R 400	Drilled		P. S.		
(D-5-2)36 (Dry Canyon Spr.)		Town of Lindon			Spring		P. S.		
(D-5-3)26 (Vivian Park Spr.)		Vivian Park Ass.			Spring		Dom.		
(D-5-3)26 (Lower So. Fork Spr.)		Provo City			Spring		P. S.		
(D-5-3)33cbb (Alta Spr.)		Town of Orem			Spring		P. S.		
(D-5-3)33d (Lost Creek Canyon Spr.)		Provo City			Spring		P. S.		
(D-5-3)34 (Upper Falls Resort Spr.)		Provo City			Spring		P. S.		
(D-5-3)34c (Bridal Falls Spr.)		Provo City			Spring		P. S.		
(D-5-3)36 (So. Fork Spr.)		Provo City			Spring		Fish Hat.		
(D-6-2)		Town of Orem	15	R 110	Drilled		P. S.		
(D-6-2) (Canyon Rd. Well)					Drilled		P. S.		
(D-6-2)5acc-3	A-2935	Consolidated Western Steel	16	R 276	Drilled		Ind. Dom.		
(D-6-2)5acc-4	A-26510	U. S. Steel Corp.	18	R1063	Drilled		Ind. Dom.		
(D-6-2)8bcd-4	A-16225	U. S. Steel Corp.	14	R 830	Drilled	1944	Ind.		
(D-7-2)4bac-1	C-12945	Provo City	5	R 160	Drilled		Dom.		
(D-7-3) (Lower Spring Creek Spr.)		A. W. Cherrington			Spring		P. S.		



Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(C-5-1)25cbt-1	8/9/55		27	2.8	192	50		246		339	448	338	1.8	0.0	1,570	688		PH
(C-5-1)25ccc-4	5/28/53		21	0.29	179	55		229		317	414	343	1.8	0.5	1,500	676		PH
(C-6-2)6a	7/22/52		10	0.05	53	24		33		299	33	15	0.0	1.4	306	231		PH
(C-10-1)8	9/14/55		20	0.02	127	51		150		151	144	368	0.7	8.5	1,050	528		PH
(C-10-1)8	8/9/54		38	0.36	206	73		300		117	352	604	0.1	199	2,200	816		PH
(C-10-1)26	12/11/40		42	0.00	103	47		118		241	142	255	0.4		1,020	449		PH
(C-10-1)28ada-1	10/19/55		41	0.15	332	88		118		135	522	468	0.5	164	2,000	1,190		PH
(C-10-1)31bdb-1	9/14/55		35	0.02	52	58		258		313	160	328	0.0	8.3	1,130	370		PH
(C-10-2)22	2/26/41		21	0.10	72	13		31		222	66	34	0.2		370			PH
(D-5-1)9daa-1	7/28/52		18	0.17	43	20		22		a/ 157	48	39	2.5	5.6	274	190		PH
(D-4-3)12	7/25/52		7.5	0.05	54	23		16		215	83	1.2	0.0	0.5	286	231		PH
(D-5-1)5bbc-1	5/4/54		9.0	0.43	147	29		72		306	115	204	0.1	7.8	874	488		PH
(D-5-1)23cwb-2	7/30/49	360			42	15	4.6		2.0b/	171	36	8.2		0.5				AC
(D-5-2)7	4/3/51		6.6	0.00	50	18		15		206	21	2.4	0.0	0.1	237			PH
(D-5-2)7dba	2/51		12	0.03	18	2.9		9.3		65	3.7	3.0	0.3	0.0	86	56		PH
(D-5-2)7db	5/2/39		8.0	0.00	64	15		9.5		190	26	6.0			256	220		PH
(D-5-2)8ccd-1	6/8/55		9.9	0.45	122	53		77		314	322	60	0.5	15	851	524		PH
(D-5-2)32ecb-1	7/8/54	412	20	0.02	46	19	13		2.5	230	24	8.0	0.1	0.2	236	193	13	GS
(D-5-2)32bdc-2	7/8/54	602	13	0.04	76	29	13		0.5	280	80	20	0.2	0.2	376	308	8	GS
(D-5-2)33acd-1	12/11/53		10	0.76	64	26		9.4		271	31	17	0.0	6.2	298	265		PH
(D-5-2)36	10/23/53		13	0.09	45	24		11		242	12	14	0.0	0.9	246	210		PH
(D-5-3)26	7/25/52		5.0	0.14	51	21		9.0		a/ 271	2.7	4.8	0.0	1.3	234	213		PH
(D-5-3)26	7/25/52		5.1	0.46	33	15		9.9		a/ 180	12	3.6	0.0	0.5	170	144		PH
(D-5-3)33cbb	8/28/51	221	4.8	0.01	30	10	1.2		0.6	b/ 128	12	1.1	0.2	1.3	122	116	2	GS
(D-5-3)33cbb	7/28/52		6.8	0.19	24	14		7.4		c/ 138	16	2.4	0.0	0.3	136	117		PH
(D-5-3)33d	7/31/46		4.4	0.00	33	0.8		23		146	9.7	4.0	0.0	0.0	143	90		PH
(D-5-3)34	7/31/46		4.1	0.00	34	0.9		39		162	31	4.0	0.0	0.0	153	90		PH
(D-5-3)34c	7/31/46		4.0	0.00	38	0.7		29		168	8.9	8.0	0.0	0.0	169	100		PH
(D-5-3)36	7/31/46		5.7	0.00	48	0.6		38		222	8.9	8.9	0.0	0.0	215	120		PH
(D-5-3)36	7/25/52		7.9	0.08	41	15		13		201	18	4.8	0.0	0.3	206	165		PH

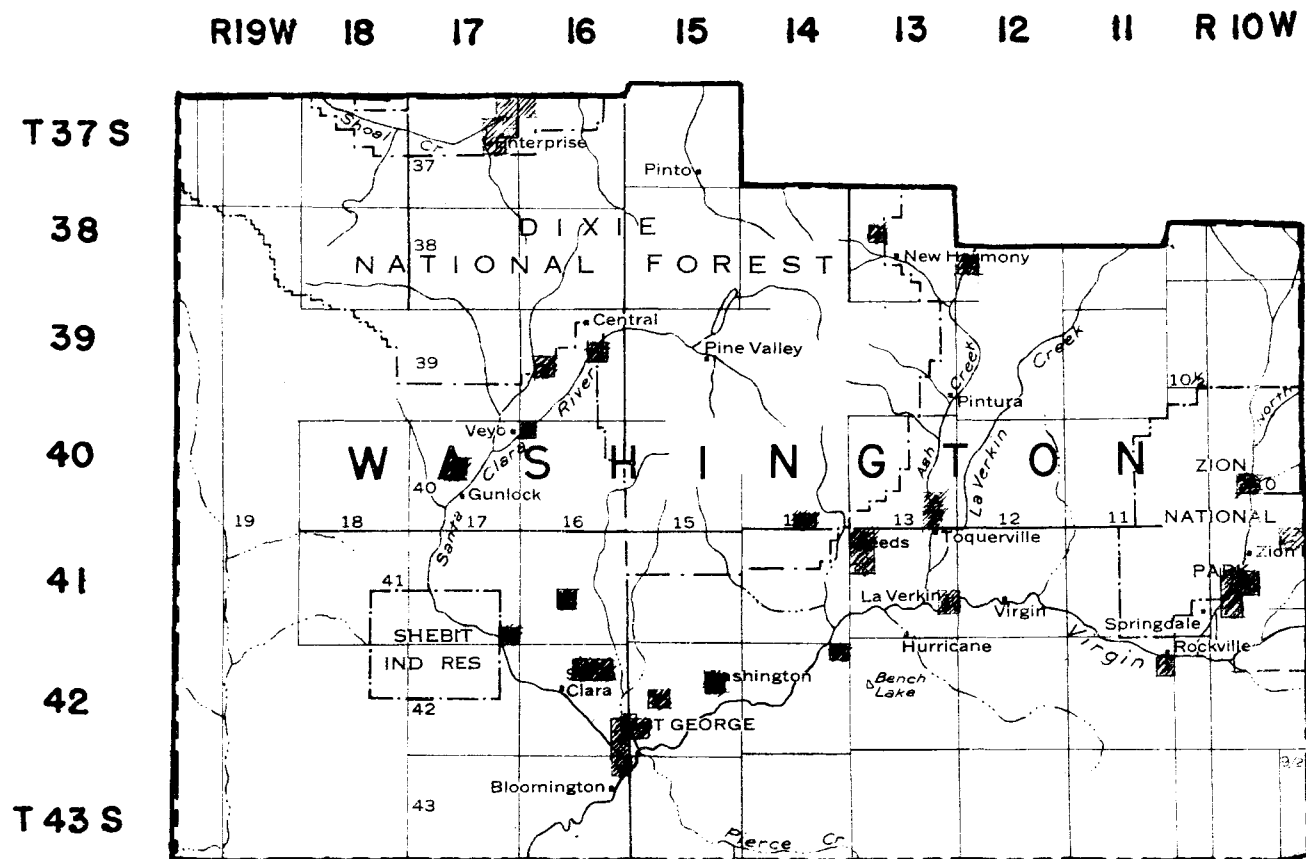
a/ includes equivalent of 2 ppm CO₃b/ includes equivalent of 5 ppm CO₃c/ includes equivalent of 3 ppm CO₃d/ includes equivalent of 1 ppm CO₃e/ includes equivalent of 3 ppm CO₃

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-7-3) (Upper Spring Creek Spr.)	Provo City				Spring		P. S.		
(D-7-3) (Bartholomew Spr.)					Spring		P. S.		
(D-7-3)8bbc-1	A-25534	Utah State Hosp.	8	R 250	Drilled	1954	Dom.		
(D-7-3)10 (Slate Canyon Spr.)		Utah State Hosp.			Spring		Dom.		
(D-8-3)3 (Knowles Tunnel Spr.)		Town of Springville			Spring		P. S.		
(D-8-3)3 (Burt Springs)		Town of Springville			Spring		P. S.		
(D-8-4)8 (Maple Canyon Spr.)		Town of Mapleton			Spring		P. S.		
(D-9-1)27aca-2	A-20729	Geneva Steel	8-10	R 365	Drilled		Ind. Dom.		
(D-9-2)33 (Pecayune Canyon Spr.)		Spring Lake Water Works			Spring		P. S.		
(D-9-3)12 (Cold Spr.)		Town of Spanish Fork			Spring		P. S.		
(D-9-4)28		M. E. Smith			Spring		P. S.		
(D-10-2)32 (Santaquin Canyon Spr.)		Town of Genola			Spring		P. S.		
(D-11-8)22bdd-1	A-24909	Utah Power & Light Co.	16		Drilled		Dom. Ind.		
(D-11-8)22dcb-1	A-24282	Utah Power & Light Co.	16	R1540	Drilled		None		
(D-11-8)26 (Fish Creek Canyon Spr.)		Town of Helper			Spring		P. S.		
(D-11-10) (Colton Spr.)		Town of Price			Spring		P. S.		



Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(D-6-2)	12/13/55	470	19	0.15	48	21		66		336	56	9.0	0.5	1.8	373	206		PH
(D-6-2)	8/28/51		15	0.01	58	24	7.4		0.8	223	56	15	0.2	3.4	300	243	6	GS
(D-6-2)5acc-3	3/17/55		14	5.1	86	16		69		367	56	50	0.1	0.0	465	280		PH
(D-6-2)5acc-4	6/29/55		11	0.24	29	8.9		19		146	21	6.0	0.2	0.0	157	110		PH
(D-6-2)Pbcd-4	4/1/48		18	0.20	19	11				160	11	9.0				93		GS
(D-6-2)Pbcd-4	12/7/48		15	0.30	25	9.4	7.8			168	8.2	14	0.2	0.0	141	102		GS
(D-7-2)4bac-1	8/12/40		16		68	22		3.2		252	48	5.0	0.2		335	259		PH
(D-7-3)	6/28/50		7.0	0.00	44	1.8		5.1		208	11	3.6	0.0	3.5	188	173		PH
(D-7-3)	3/23/51	364	7.9		49	17		9.1		224	12	9.0		3.9	219*	191	9	GS
(D-7-3)	3/23/51	356	7.6	0.02	50	16	2.9		2.7	217	11	2.8	0.1	3.8	196	191	3	GS
(D-7-3)	6/28/50		7.9	0.00	54	22		4.4		240	22	6.1	0.0	1.9	236	223		PH
(D-7-3)	3/23/51	286	8.0	0.02	48	7.0	2.3		2.9	176	5.2	1.9	0.1	2.4	159	149	3	GS
(D-7-3)Pbbc-1	12/7/55		5.8	0.13	39	17		19		216	20	6.0	0.0	2.0	200	168		PH
(D-7-3)10	2/20/53		4.5	0.00	70	20		5.0	a/	145.	34	5.5	0.4	1.0	338	260		PH
(D-8-3)3	6/28/50		5.9	0.00	38	5.9		2.8		140	6.2	1.8	0.0	1.9	122	119		PH
(D-8-3)3	3/23/51	415	8.0	0.03	51	22	4.5		3.0	240	22	5.0	0.1	2.2	231	218	4	GS
(D-8-3)3	6/28/50		10	0.00	60	18		7.2		240	25	7.3	0.0	2.6	250	223		PH
(D-8-3)3	3/23/51	445	10	0.01	66	17	6.4		2.2	249	34	8.5	0.0	0.7	261	234	6	GS
(D-8-4)8	2/19/41		2.0	0.00	47	15	6.5			198	16.	10	0.0		214	181		PH
(D-9-1)27aca-2	11/7/51		20	0.48	51	16		97		293	60	65	1.2	2.2	445	197		PH
(D-9-2)33	2/19/41		2.9	0.05	54	23		9.5		258	18	13	0.1	0.0	245	230		PH
(D-9-3)12	3/21/55		8.6	0.01	123	9.0		84		272	169	88	0.2	1.8	624	344		PH
(D-9-4)28	5/7/41		5.5	0.00	69	20		16		276	24	24	0.2		311	253		PH
(D-10-2)32	2/6/52		3.1	0.02	76	6.4		20		267	29	7.3	0.0	0.0	267	211		PH
(D-11-8)22tab-1	10/55		11	0.20	55	35		11		340	16	5.3	0.1	1.0	294	282		PH
(D-11-8)22det-1	2/9/54		11	7.3	55	26		11		301	53	15		7.2	310	246		PH
(D-11-8)26	9/3/46		4.4	0.00	56	31		8.5		312	12	8.7	0.0	0.0	282	260		PH
(D-11-10)	2/15/51	522	5.9	0.01	58	33	5.8		3.7	320	24	10	0.1	1.6	297	280	4	GS

a/ includes equivalent of 2 ppm CO₃



Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-2-5)32		L.D.S. Dairy Farm	6	R 140	drilled		Dom.		
(D-3-4) (Mahogany Spring)		Irrigation Co.			spring		Irr.		
(D-3-4)21b		Town of Midway			spring		P.S.		
(D-3-4)26bca (Lukes Hot Pots)					spring		Bathing		
(D-3-4)27 (Gerber Spring)		Town of Midway			spring		P.S.		
(D-3-4)34 (Spring #2)		Nephi Huber			spring		Dom.		
(D-3-5)34 (Lower Spring)		Town of Heber			spring		P.S.		
(D-4-4)9		Town of Charleston			spring		P.S.		
(D-4-4)16 (Soldier's Hollow Spr.)		Town of Charleston			spring		P.S.		
(D-4-5)4 (City Spring)		Town of Heber			spring		P.S.		
(D-4-5)4ab (Broadhead Spring)		Town of Heber			spring		P.S.		
(D-5-5)17 (Warm Spring)		Town of Wallsburg			spring		P.S.		
(D-5-5)28dc (Maple Spring)		L. D. Parcell			spring		Irr.		
(D-5-5)29		Town of Wallsburg			spring		P.S.		
(D-6-6)10d (Acorn Inn Spr.)		H. N. Olson			spring		Dom.		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million											Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis By
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Mitrate (NO ₃)			
(D-2-5)32	6-8-50		22	.10	130	24		15		245	139	60	0.0	31	632	425	PH
(D-3-4)	5-29-52		2.7	.06	74	0.9				304	15	7.3	0.3	0.1	314	188	PH
(D-3-4)21b	9-18-50		6.9	.00	63	26		3.6		41	41	5.5	0.3	2.2	294	264	PH
(D-3-4)26bca	7-1-52		5.6	.31	358	16		257		754	698	121	0.3	0.1	1,890	960	PH
(D-3-4)27	5-29-52		2.2	.11	77	6.3		55		314	67	6.7	0.3	0.1	346	218	PH
(D-3-4)34	7-17-50		18	.00	196	28		65		460	280	48	0.1	1.5	886	603	PH
(D-3-5)34	9-29-50		24	.02	46	16		46		218	22	7.3	0.3	0.2	228	181	PH
(D-4-4)9	1-14-55		23	.01	101	21		30		364	70	22	0.0	1.0	427	338	PH
(D-4-4)16	7-26-48		16	.00	71	28		23		270	46	18	0.5	0.0	390	293	PH
(D-4-5)4	3-3-48		25	.00	49	12		5.0		185	10	11	0.3	0.0	215	170	PH
(D-4-5)4ab	9-21-50		2.5	.00	52	17		66		225	34	8.5	0.1	0.3	278	198	PH
(D-5-5)17	5-13-41		13	.00	65	18		13		246	41	14	0.0		298	238	PH
(D-5-5)28dc	5-13-41		9.2	.00	43	18		8.8		210	16	8.0	0.1		217	182	PH
(D-5-5)29	9-18-50		12	.00	68	16		18			57	9.1	0.1	0.8	278	236	PH
(D-6-6)10d	6-22-54			.04						264	12	12	0.0	2.0	259	226	PH

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-41-17)36		Town of Ivins			Spring		P. S.		
(C-42-11)12		Rockville Pipeline Spring			Spring		P. S.		
(C-42-13)		Hurricane Hot Spring			Spring		Baths		
(C-42-14)1bb		C. O. Watkins			Spring		Irr.		
(C-42-15)14		Town of Washington			Spring		P. S.		
(C-42-15)20bac DVS A-16650		P. E. Smith			Spring		Irr.		
(C-42-15)30abd-1 A-20376		F. D. Jones	4 1		Dug		Dom. St. Irr.		
(C-42-16)10aa		Town of Santa Clara			Spring		P. S.		
(C-42-16)11cb		Town of Santa Clara			Spring		P. S.		
(C-42-16)25		Irrigation Co.			Spring		Irr.		
(C-42-16)36cba-1 A-23606		O. W. Gubler	10	R 40	Drilled		Dom.		
(C-43-16)1add-1 A-28105		Town of St. George	16	R 53	Drilled		P. S.		
(C-43-16)1bab-1 A-28105		Town of St. George	16	R 53	Drilled		P. S.		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(C-37-16)6ccc-1	a 2298	LeRoy Adams	14	R 200	Drilled		Irr.	12/6/53	-100.45
(C-37-17)lccd-1	A 15465	H. R. Truman	16	R 438	Drilled		Irr.	3/17/54	- 62.67
(C-37-17)ldcc	a 2296	Jones, Barlow & Holt	14	R 250	Drilled	1948	Irr.	10/18/54	- 76.70
(C-37-17)lddc	A 16339	L. A. Holt	14	R 205	Drilled	1943	St. Irr.	12/6/53	- 74.44
(C-37-17)lldba	C-18726	E. A. Pickering	1½	M 41	Dug	1926	Dom. Irr.	12/20/51	- 37.44
(C-37-17)12abc	A-16231	Grant Clove	16	R 125	Drilled		Irr.	6/30/49	- 42.45
(C-37-17)14aac		Town of Enterprise			Spring		P. S.		
(C-37-17)14acb	C-17896	Town of Enterprise	10	R 150	Drilled	1930	P. S. Irr.	12/15/39	- 31.40
(C-38-12)19aaa-1		E. S. Graff		120	Drilled		Irr.		
(C-38-13)16		Town of New Harmony			Spring		P. S.		
(C-38-13)16		Town of New Harmony			Spring		P. S.		
(C-39-16)14		Town of Central			Spring		P. S.		
(C-39-16)20		Veyo Culinary Water Co.			Spring		P. S.		
(C-40-10)3b		(U.S. Gov.) Zions Nat. Park			Spring		Dom.		
(C-40-10)		(U.S. Gov.) Zions Nat. Park			Spring		Dom.		
(C-40-13)2add-1	C-R385	State of Utah	6	R 345	Drilled		Dom.		
(C-40-13)26		Town of Toquerville, Hurricane & La Verkin			Spring		P. S.		
(C-40-13)35		Washington Canal Co.			Spring		Irr.		
(C-40-13)35		Hurricane, Toquerville, & La Verkin			Spring		P. S.		
(C-40-14)34c		Danish Ranch			Spring		Dom.		
(C-40-16)6		Town of Veyo			Spring		P. S.		
(C-40-17)16		Private Stock Co.			Spring		P. S.		
(C-41-10)		(U.S. Gov.) Zions Nat. Park			Spring		Dom.		
(C-41-10)		(UPRR) Zions Nat. Park			Spring		Dom.		
(C-41-10)15c		(US Gov.) Zions Nat. Park			Spring		Dom.		
(C-41-10)20		(U.S. Gov.) Zions Nat. Park			Spring		Dom.		
(C-41-10)21dc		(U.S. Gov.) Zions Nat. Park			Spring		Dom.		
(C-41-10)29		Springdale Pipe Line Co.			Spring		P. S.		
(C-41-12)		Town of Virgin			Spring		P. S.		
(C-41-12)		Town of Virgin			Spring		P. S.		
(C-41-13)6		Savage Family			Spring		Stock		
(C-41-13)7		Leeds Domestic Waterusers Assn.			Spring		P. S.		
(C-41-13)24		La Verkins Warm Spring #4			Spring		Baths		
(C-41-13)24		La Verkins Warm Spring #5			Spring		Baths		
(C-41-16)21		Town of Ivins			Spring		P. S.		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis By		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃
(C-41-12)	4/14/52		4.4	0.08	126	25		8.3		^{/a} 317	179	27	0.4	0.2	560	418		PH
(C-41-13)6	3/19/51		22	0.22	74	29		54		297	120	46	0.2	0.2	493	303		PH
(C-41-13)7	8/23/53		38	0.00	59	23		42		^{/b} 282	57	28	0.0	0.1	392	242		PH
(C-41-13)24	8/15/50	13,900	9.3		816	197		2,430		1,290	1,940	3,580			9,610*	2,850		GS
(C-41-13)24		13,600								816	2,020	3,590						GS
(C-41-16)21	1/13/50		13	0.30	45	14		7.1		117	57	11	0.6	0.0	214	162		PH
(C-41-17)36	2/20/47		24	0.00	116	48		113		299	404	50	0.6	0.0	930	490		PH
(C-42-11)12	2/8/52		3.1	0.40	22	17		105		372	17	21	0.3	4.9	394	112		PH
(C-42-13)	4/12/28				692	92		2,650		1,080	1,970	3,500			9,890			GS
(C-42-14)1bb	11/28/55		15	0.19	192	80		54		202	679	26	0.1	20	1,150	810		PH
(C-42-15)14	6/29/55		7.2	0.25	44	29		20		204	65	8.0	0.2	1.6	298	204		PH
(C-42-15)20bac	3/29/51		21	0.00	58	39		155		213	451	41	1.0	0.3	890	306		PH
(C-42-15)30dbd-1	8/11/51	3,700			332	101	450		82	310	1,740	94			3,240		42	AC
(C-42-16)10aa	1/8/48		19	0.00	45	17		93		177	205	19	1.0		516	185		PH
(C-42-16)11cb	1/8/48		18	0.00	42	18		51		152	140	16	0.7	0.0	393	180		PH
(C-42-16)25	3/29/51		19	0.12	69	18		130		203	304	30	0.4	1.6	691	249		PH
(C-42-16)36cba-1	3/27/52		9.2	0.76	174	11		149		548	276	48	0.4	1.9	990	479		PH
(C-43-16)1ada-1	5/3/56		12	5.5	367	100		154		561	1,050	76	0.4	0.2	2,010	1,330		PH
(C-43-16)1bab-1	5/7/56		10	1.0	475	100		115		427	1,350	60	0.6	1.6	2,490	1,510		PH

/a includes equivalent of 2 ppm CO₃/b includes equivalent of 4 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃	
(C-37-16)6ccc	6/13/50	573								272		35					GS
(C-37-17)1ccc-1	6/13/50	495	47		64	12		24		250	16	25		4.6	316*	209	GS
(C-37-17)1dccc	6/15/50	550								275		26					GS
(C-37-17)1ddc	6/13/50	662	42		97	16		19		315	25	38	0.2	15	407*	308	GS
(C-37-17)11dba	6/13/50	537								260		29					GS
(C-37-17)12dbc	6/13/50	613								276		41					GS
(C-37-17)14aac	4/21/41		34	0.00		9.2		16			6.4	18	0.4		199	106	PH
(C-37-17)14aac	6/13/50	297	55		33	9.4		18		164	6.6	12	0.6	1.2	217*	121	GS
(C-37-17)14acb	6/13/50	524								268		21					GS
(C-38-12)19aaa-1	9/11/56	1,670					39			246	804	29				992	GS
(C-38-13)16	2/22/41		52	0.00	40	2.3		23		183	8.1	14	0.3	0.0	234	108	PH
(C-38-13)16	8/8/52		64	0.11	37	11		18		182	9.9	8.5	0.0	0.8	226	137	PH
(C-39-16)14	8/5/52		58	0.08	65	12		25		269	13	17	0.4	0.1	318	210	PH
(C-39-16)20	4/13/54		29	0.03	63	9.4		23		225	30	22	0.2	4.0	310	197	PH
(C-40-10)34	8/18/54		9.4	0.00	37	12		4.1		169	3.5	6.0	0.0	0.6	168	144	PH
(C-40-10)	1/16/50		12	1.8	27	18		7.5		144	17	12	0.3	0.2	157	278	PH
(C-40-13)2add-1	8/8/52		50	0.59	60	29		19		206	108	16	0.0	2.3	384	269	PH
(C-40-13)26	3/14/41		36	0.00	72	29		20		220	143	21	0.1		472	298	PH
(C-40-13)35	11/28/55		26	0.08	86	34		25		265	165	11	0.2	4.9	512	356	PH
(C-40-13)35	3/27/51		42	0.00	78	26		26		233	143	16	0.2	1.2	474	301	PH
(C-40-14)34c	7/55		8.4	0.45	68	44		87		368	216	10	0.8	0.0	658	352	PH
(C-40-16)6	8/20/45		35	0.10	52	19		5.0		146	22	38	0.3	0.0	297	206	PH
(C-40-17)16	8/1/52		58	0.10	54	30		58		316	78	39	0.0	9.2	478	258	PH
(C-41-10)	1/16/50		13	0.20	16	13		0.0		101	3.8	1.5	0.0	1.3	98	91	PH
(C-41-10)	6/6/50		7.4	0.00	45	33		4.1		294	7.4	4.1	0.1	0.4	242	246	PH
(C-41-10)15c	1/16/50		13	0.40	13	11		1.1		98	3.0	0.8	0.0	1.1	83	76	PH
(C-41-10)20	1/16/50		13		18	14	1.9			111	4.1	0.8	0.0	0.4	103	96	PH
(C-41-10)21dc	1/16/50		11	1.40	52	20		0.8		153	16	1.3	0.2	0.2	187	145	PH
(C-41-10)29	4/9/52		12	0.56	36	12		20		178	28	4.8	0.2	0.1	176	140	PH
(C-41-12)	3/26/41		27	0.00	116	28		28		294	174	28	0.4	0.0	566	404	PH

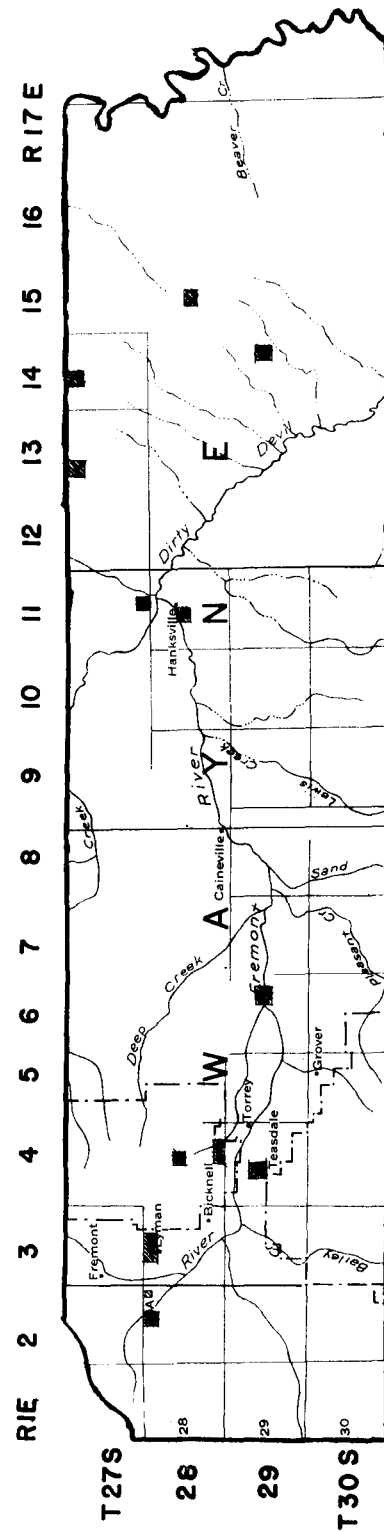
/a includes equivalent of 4 ppm CO₃

/b includes equivalent of 6 ppm CO₃

/c includes equivalent of 4 ppm CO₃

/d includes equivalent of 1 ppm CO₃

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(D-27-11)34		C. A. A.	6	R 600	drilled		dom.		
(D-27-11)34dca-1	A-16795	C. A. A.	6	R 638	drilled		dom.		
(D-27-11)34ddb-1	A-23636	C. A. A.	6	R 602	drilled		dom.		
(D-27-13)4		U.S. Grazing Service			drilled			11-1-44	- 720
(D-27-14)5baa-1	C-68	G. H. Frans	6½	R 610	drilled		dom.stock		
(D-28-2)3ab		Loa Waterworks Corp.			spring		P. S.		
(D-28-3)3		Lyman Waterworks			spring		P. S.		
(D-28-3)4		Loa Waterworks Corp.			spring		P. S.		
(D-28-4)15					spring		stock, Irr.		
(D-28-4)34		Sand Creek Irr. Co.			spring		P. S.		
(D-28-4)35		Teasdale Waterworks Corp.			spring		P. S.		
(D-28-11)16adb-2	C-8387	Town of Hanksville	8½	R 300	drilled		P. S.		
(D-28-11)16dca-2	A-21110	Town of Hanksville	6½	R 338	drilled		P. S.		
(D-28-11)16ddb-1	A-26449	M. H. Stone	1½	R 342	drilled		dom.		
(D-28-15)21		U.S. Grazing Service			spring		stock		
(D-29-4)16		Teasdale Waterworks Corp.			spring		P. S.		
(D-29-6)14		Dewey Gifford			spring				
(D-29-14)14a		Arthur Ecker			spring		dom.		



Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis by		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃
(D-27-11)34			29	0.0	66	34		425		431	321	374	0.7	13	1,440	301		PH
(D-27-11)34dca-1	6-28-52		13	2.2	130	5.3		1,160		182	236	1,750			3,530	346		PH
(D-27-11)34ddb-1	6-28-52		14	3.0	101	7.1		869		193	281	1,220			2,730	282		PH
(D-27-13)4	11-1-44	673			62	46		17		366	65	9.0		1.0	380*	344		GS
(D-27-14)5	7-15-34				216	150		16		152	995	16	.7	6.2		1,160		GS
(D-28-2)3ab	5-17-41		33	0.	22	4.8		15		123	2.6	12	.3	0	158	74		PH
(D-28-3)3	5-16-41		36	0	56	13		50		150	69	12	.1	0	293	193		PH
(D-28-3)4	8-12-53		44	.02	24	5.3		18		121	11	5.8	.1	.8	155	82		PH
(D-28-4)15	11-8-54		30	.00	18	1.9		6.7		63	9.5	4.0	.4	.6	91	54		PH
(D-28-4)34	12-2-46		24	0	16	8.2				66	2.8	5.3	.3	0	88	70		PH
(D-28-4)35	8-13-53		37	.32	19	8.2		12		109	13	2.2	.1	.0	128	82		PH
(D-28-11)16ddb-2	12-11-51		16	.29	18	.0		126		243	109	3.0	.0	.3	380	43		PH
(D-28-11)16dca-2	3-27-44	619			22	4.6		115		240	119	3.0		.5		74		GS
(D-28-11)16dca-2	3-16-47	617			15	14		115		238	130	8	.7	.1		95	72	GS
(D-28-11)16ddb-1	3-16-47	588			10	8.7		122		236	119	4	.7	.5		61	81	GS
(D-28-11)16ddb-1	5-19-55		7.5	.1	21	.0		175		245	165	6.0	.4	.0	441	54		PH
(D-28-15)21	11-1-44	740			79	30		33		203	147	52		.2		320		GS
(D-29-4)16	5-17-41		26	0	18	9.3		8.4		104	2.8	11	.4	0	129	84		GS
(D-29-6)14	9-5-51		30	.15	215	55		80		362	576	34	.5	2.2	1,200	764		PH
(D-29-14)14a	11-26-49		8.5	.6	36	51		122		a/352	92	62	.4	4.0	724	149		PH

a/ Includes 14 ppm of CO₃

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-5-1)27abd-1	C-14542	G. E. Kendall	4	R 75	Jetted		Dom.St.Irr.		
(B-5-1)30add-1		Ogden Arsenal		R 900	Drilled		Dom.		
(B-5-2)1ddd-1	A-2555	Ogden City	10	R 472	Drilled	1943	Dom.	1/17/45	-151.97
(B-5-2)2bab-1	D. S.	G. Egan	1½	R 50	Jetted				
(B-5-2)3bbb-3	A-16847	J. Hyland	2	R 247	Jetted		Dom.St.Irr.	2/14/56	+ 2.0
(B-5-2)3ddd-1	C-18433	S. H. Slate	2	R 70	Jetted		Stock		
(B-5-2)4add-1	A-17877	James Rawson	3	R 695	Jetted		Dom.St.Irr.	3/5/54	+ 33.6
(B-5-2)4ddc-3	A-14687	D. Genetti	2½	R 573	Jetted				
(B-5-2)5aaa-1	A-23853	L. Javers	2	R 590	Jetted		Dom.St.Irr.		
(B-5-2)5ccb-2	A-17536	C. D. Stokes	2	R 683	Jetted		Dom.St.Irr.		
(B-5-2)6bdd-1	C-20404	V. Stoddard	1½	R 74	Jetted		Dom. Irr.	3/5/54	+ 19.9
(B-5-2)6cad-1	A-11919	L. Belnap	2	R 355	Jetted				
(B-5-2)6ccd-1	A-24962	J. O. Stoddard	2½	R 610	Jetted		Dom.St.Irr.		
(B-5-2)7dcd-1	A-16333	F. D. Flowers	2	R 688	Jetted		Dom.St.Irr.	3/5/54	+ 37.7
(B-5-2)8aba-1	A-19818	T. R. Jones		R 100	Jetted			4/21/54	+ 13.2
(B-5-2)8abc-1	Pressure Relief	U. S. B. R.		R 126	Drilled		Pressure Relief	4/3/56	+ 2.9
(B-5-2)9aba-3	C-20630-R	M. Hunter	2	R 257	Jetted		Dom. St.	2/14/56	+ 6.9
(B-5-2)9baa-1	C-15032	Kanesville Ward	2	R 308	Jetted			3/5/54	+ 20.9
(B-5-2)9cbb-1	C-14433	J. C. Hanson	1½	R 80	Jetted		Dom. St.	2/14/56	+ 2.5
(B-5-2)9cbb-2	A-19585	J. C. Hanson	2	R 250	Jetted		Dom.St.Irr.	11/5/54	+ 6.1
(B-5-2)9dco-1	A-12881	Interstate Broadcasting -	2	R 676	Jetted		Dom.	11/5/54	+ 40.2
(B-5-2)10abd-1	A-17539	B. L. Jackson [Corp.]		R 306	Jetted		Dom.St.Irr.		1
(B-5-2)10abc-1	A-18011	J. V. Peterson	2	R 120	Jetted		Dom.St.Irr.	11/5/54	+ 1.7
(B-5-2)11aac-1	A-16081	Johnson Sand & Gravel	14	R 540	Drilled		Ind.		
(B-5-2)12aab-1	A-16484	Ogden City	14	R 507	Drilled		Dom.		
(B-5-2)13dad-1		Town of Riverdale		R 514	Drilled		P. S.	3/12/54	- 73.5
(B-5-2)16caa-1	A-15959	J. D. Hooper	2	R 552	Jetted		St.Irr.	9/16/54	+ 14.4
(B-5-2)16daa-2	A-a-1481	Geo. Venstra	2	R 92	Jetted		Dom.St.	9/16/54	+ 6.0
(B-5-2)16ddc-1	Test Well	U. S. B. R.	12	R 750	Drilled		Obs.		
(B-5-2)16ddo-2	Test Well	U. S. B. R.	6	R 366	Drilled		Obs.	1/15/57	+ 19.0
(B-5-2)17beb-2	A-a-1818	L. Todd	1½	R 158	Jetted		Dom.St.Irr.	9/16/54	+ 12.2
(B-5-2)17caa-1	C-19335	A. G. Peterson	1½	R 415	Jetted		Stock	9/16/54	+ 10.3
(B-5-2)17cca-1	A-16474	L. Hancock	2	R 336	Jetted		Dom.St.Irr.	10/11/54	+ 10.6
(B-5-2)18dda-3	A-18132	L. P. Wettles	2	R 595	Jetted		Dom.St.Irr.	9/16/54	+ 33.3
(B-5-2)19abc-1	A-23918	R. O. Flinders	1½	R 327	Jetted		Dom.St.Irr.	9/16/54	+ 11.0

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(A-6-1)11c	Well #42	Ogden City			Drilled		P. S.		
(A-6-1)11c	Composite of 47 wells	Ogden City	4-12	R 100-600	Drilled		P. S.		
(A-6-1)11cab-1	Test Well	U. S. G. S.	8	R 354	Drilled		Obs.		
(A-6-1)11dbd-1	C-17135	H. M. Bitter	8 1/2	M 90	Drilled	1932	Dom.	9/17/32	+ 12.0
(A-6-1)11dbd-2	C-17130	H. M. Bitter	8 1/2	R 68	Drilled	1932	Dom.	9/24/32	+ 10.7
(A-6-1)11dbd-3	Test Well	U. S. G. S.	18	R 4	Dug	1932	Obs.	12/31/33	+ 0.09
(A-6-1)11dcd-1	Test Well	U. S. G. S.	8	R 192	Drilled	1955	Obs.		
(A-6-1)12aad-1	Test Well	U. S. G. S.	8	M 108	Drilled	1932	Obs.	12/31/55	- 3.28
(A-6-1)12aad-2		Ogden City	8 1/2	M 40	Drilled	1932	P. S.	11/17/34	-15.15
(A-6-1)12aad-3	Test Well	U. S. G. S.	18	M 4	Dug	1932	Obs.	10/12/32	- 0.5
(A-6-1)12acc-1	C-9845	J. O. Read & Bros.	4	M 53	Jetted	1911	Fish Hatchery	9/21/34	+ 0.53
(A-6-1)12acc-6	C-9850	J. O. Read & Bros.	6	M 43.5	Jetted	1911	Fish Hatchery	9/30/35	+ 2.10
(A-6-1)13ab			36	M 22.5	Dug		Abandoned	11/3/45	-14.75
(A-6-1)25aa-DVS (Hawkins Spring)		Town of Huntsville			Spring		P. S.		
(A-6-1)25aa-DVS (Bennett Spring)		Town of Huntsville			Spring		P. S.		
(A-6-1)30c-DVS (Coldwater Spring)		Ogden City			Spring		P. S.		
(A-6-2)6dd-1	Test Well	U. S. G. S.	8 1/2	R 100	Drilled	1932	Obs.	11/3/45	-10.11
(A-6-2)6dd-2	Test Well	U. S. G. S.	8 1/2	R 14	Drilled	1932	Obs.	12/31/33	- 7.63
(A-6-2)7					Spring		Stock		
(A-6-2)17da		L. Allen	36	M 14.4	Dug		Dom.	10/18/33	-13.54
(A-6-2)18bab-1	Test Well	U. S. G. S. & U.S.R.F.	8	R 150	Drilled		Obs.	11/30/55	-85.0
(A-7-1)7c (Thimble Berry Spring)		Liberty Irr. Co.			Spring		P. S.		
(A-7-1)19dbc-DVS		Liberty Pipe Line Co.			Spring				
(A-7-1)22caa-DVS (Patio Spring)		Eden Water Works			Spring		Swimming pool		
(A-7-1)35aba-1		Cobabe			Drilled				
(A-7-1)35cb			36	M 20	Dug			10/30/40	-16.02
(A-7-1)36cab		Browning			Drilled				
(A-7-3)35 (Farr Spring)					Spring		Dom. Bathing		
(B-5-1)17aab-2	A-21506	Town of South Ogden	14	R 463	Drilled		P. S.	2/28/56	-291.0
(B-5-1)17cbd-1	A-23046	Washington Terrace	14	R 550	Drilled		P. S.		
(B-5-1)18	(Stimpson Spring)	Clarence W. Stimpson			Spring		P. S.		
(B-5-1)18ccb-1	A-19371	Town of Riverton	12	R 514	Drilled		P. S.		
(B-5-1)22ccc-DVS		Town of Uintah			Spring		P. S.		
(B-5-1)25d					Spring				
(B-5-1)26bda-1		J. H. Dye	4	R 77	Jetted				

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-6-1)29aca-1	C-5480	A. Farr & Sons Co.	156	R 13	Dug	1913	Ind.	4/14/43	- 12.51
(B-6-1)29ccc		Ogden Union RR Depot	12	R 755	Drilled	1930	Net used	6/6/45	+ 14.9
(B-6-1)30hcb-1	C-11894	American Packing & Prod. Co.	4	R 483	Jetted	1936	Stock	9/31/37	+ 32.90
(B-6-1)30hcb-2	D. S.	American Packing & Prod. Co.	2	R 110	Jetted		Stock	3/27/47	+ 6.9
(B-6-1)30hcc-2	A-20129	G. Suesch	3	R 440	Jetted		Dom.	10/11/54	+ 7.2
(B-6-1)30hda-1	C-692	Fox Keller	3	R 135	Drilled	1934	Stock	2/13/43	+ 11.7
(B-6-1)30hda-2	C-693	Fox Keller	2	R 185	Drilled	1934	Net used		
(B-6-1)32bbb		Pacific Fruit Express	4	R 520	Drilled	1930			
(B-6-1)36aca-DVS.		O.U.R. & D. CO.			Spring		Dom. Ind.		
(B-6-2)1acd-3	D. S.	G. B. Taylor	2	R 570	Jetted	1937	Dom.	12/10/45	+ 5.0
(B-6-2)1ada-1	A-16720	H. A. Jensen	2	R 639	Jetted		Dom.	11/4/54	+ 45.3
(B-6-2)1add-1	A-11801	R. E. Alvord	2	R 260	Jetted		Dom. St.	11/4/54	+ 6.2
(B-6-2)2dda-1	A-21947	D. White	2	R 284	Jetted		Dom. St. Irr.		
(B-6-2)3cdc		C. Cowan	2	R 293	Jetted		Dom. St. Irr.		
(B-6-2)3cdd-1	C-20176	A. F. Cowan	2	R 354	Jetted		Dom. St. Irr.		
(B-6-2)4bda-1	A-23270	Rosa VanSickle	2	R 321	Jetted		Dom. St. Irr.		
(B-6-2)5acb-2	A-22852	T. E. Knight	2	R 850	Jetted		Dom. St. Irr.	3/4/54	+ 43.1
(B-6-2)6cbo-2	A-14532	Warren L.D.S. Ward	2	R 512	Jetted		Dom.	9/16/53	+ 15.7
(B-6-2)6ddb-1	A-15597	W. Hedson	2	R 308	Jetted		Dom. St. Irr.		
(B-6-2)7cbb-5	A-24165	Ellen Wayment	2	R 294	Jetted		Dom. St. Irr.		
(B-6-2)7cbo-1	A-22758	G. Rose	2	R 546	Jetted		Dom. St. Irr.		
(B-6-2)8cda-2	A-17857	S. Hancock	2	R 486	Jetted		Stock, Irr.		
(B-6-2)10abd-1	C-20159	F. C. Cowan	2	R 260	Jetted		Dom. St. Irr.	9/15/54	+ 13.2
(B-6-2)10adb-1	C-3025	N. Bowns	2	R 260	Jetted		Dom. Stock		
(B-6-2)11adb-2	A-26935	P. Korab	4	R 284	Drilled		Misc.		
(B-6-2)11bbc-1		Weber County School Dist.		R 280	Drilled		Dom.	3/4/54	+ 19.4
(B-6-2)11bcc-1	C-5380	O. L. Fay	2	R 280	Jetted		Dom. St. Irr.		
(B-6-2)11dad-2	A-14046	Jerome Wheeler	2	R 140	Jetted		Dom. Stock		
(B-6-2)12aab-3	A-13028	Weber Co. School Dist.	3	R 605	Drilled	1939	Dom.	5/6/48	+ 12.1
(B-6-2)12aac-1	C-5531	S. Tomlinson	2	R 300	Jetted	1906	Dom.	5/10/43	+ 5.0
(B-6-2)12cbd-1	C-681	S. Smout	2	R 273	Jetted		Dom.		
(B-6-2)12ccc-2	C-255	J. D. Casler	2	R 335	Jetted		Dom. Stock		
(B-6-2)12cdc-2	C-264	E. M. Decker	2	R 335	Jetted		Dom. St. Irr.		
(B-6-2)14aab-2	D. S.	E. R. Ekins		R 887	Drilled				
(B-6-2)16aca-1	C-721	S. Repelate	4	R 460	Drilled		Irr. Stock		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-5-2)19acb-2	A-19418	L. A. Flinders	2	R 649	Jetted		Dom. St.	10/11/54	+ 41.2
(B-5-2)21aad-1	A-17689	O. Dickson	2	R 91	Jetted		Dom. St. Irr.	9/16/54	+ 8.9
(B-5-2)22ccc-2	A-13535	Cleo Carnahan	1 1/2	R 93	Jetted		Dom.		
(B-5-2)24cba-1	A-19813	Town of Roy	14	R 565	Drilled	1949	P. S.		
(B-5-2)33aba-1	C-5561	R. Burnett		M 25	Dug		Stock	5/12/53	- 10.43
(B-5-3)10ddd-1	A-12443	Utah State Fish & Game	3	R 304	Jetted		Dom.		
(B-5-3)11dac		Bird Refuge		R 178	Jetted		Bird Refuge		
(B-5-3)11dda-1	C-5514	G. Fowers	2	R 355	Jetted		Dom. St.		
(B-5-3)12aad-1	C-5494	W. O. Rehnep	2	R 300	Jetted				
(B-5-3)12add-2	A-19713	D. Widdison	2	R 707	Jetted		Dom. St. Irr.	2/13/56	+ 41.2
(B-5-3)12bdd-1	A-15686	J. Love	2	R 350	Jetted		Dom. St.	2/13/56	+ 22.4
(B-5-3)15dda-1	A-11790	T. W. Reed	2	R 649	Jetted		Dom. St. Irr.		
(B-5-3)27bd		U. S. B. R.		R 135	Jetted				
(B-6-1)4acd-2	D. S.	H. Roylance	2	R 44	Jetted		Not used	4/17/43	+ 2.6
(B-6-1)4bbd-2	C-18427	E. W. Sandstrom	2	R 140	Jetted	1900	Not used	3/28/46	+ 9.2
(B-6-1)4bda-1		W. V. Richardson		R 165	Jetted			4/21/54	+ 8.0
(B-6-1)5dad-1	C-5621	J. A. Chadwick	2	R 345	Drilled	1930	Dom. St.	5/13/43	+ 6.2
(B-6-1)5ddd-1	D. S.	M. J. Hopkins	1 1/2	R 49	Jetted		St.	10/31/40	- 11.47
(B-6-1)6caa-1	C-595	M. Harris	2	R 640	Drilled		Dom. St. Irr.	4/14/43	+ 49.5
(B-6-1)7cca-1	A-15283	U.A.S.F. Depot	16	R 800	Drilled	1943	Dom. Ind.	8/5/45	+ 30.9
(B-6-1)8aac-1	D. S.	Joe Collette	2	R 200	Jetted		Not used	4/14/43	+ 3.9
(B-6-1)8acb-1	D. S.	L.W. Winkler & C. Nielson	4	R 300	Jetted		Not used	3/27/50	- 4.02
(B-6-1)8bdd-16	C-5438	J. T. Rybee	2	R 125	Jetted	1931		7/29/49	+ 7.3
(B-6-1)8abb-1		Bee Line Service Station			Well		Dom.		
(B-6-1)8abb-2		A. J. Willard			Well		Dom.		
(B-6-1)8dbd-1	C-416	S. A. Agren	3	R 145	Jetted		Dom. St. Irr.	3/3/54	+ 11.5
(B-6-1)17acb-1	C-677	C. Storre	2	R 130	Jetted		Not used	4/14/43	+ 11.5
(B-6-1)21aad-1	C-8389	Western Irrigation Co.	12 1/2	R 270	Drilled	1934	Not used	7/29/45	- 47.57
(B-6-1)23		At mouth Ogden Canyon			Shaft				
(B-6-1)23ccc (Ogden Hot Spr.)					Spring				
(B-6-1)23dcb (El Monte Spr.)		Perry			Spring		Bathing		
(B-6-1)25bb (Warm Water Spr.)		Ogden City			Spring		P. S.		
(B-6-1)27aac-1	C-14801	W. Smith	36	R 13	Dug		Irr.	7/16/43	- 3.96
(B-6-1)28abd-1		Ogden City	18	R 600	Drilled	1944	P. S.	10/25/45	- 118.6
(B-6-1)29abb-1	C-13003	Weber Products Co.	10	R 464	Drilled	1939	Ind.	7/16/43	+ 18.4

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-6-3)1aab-2	A-15291	J. F. Stewart	2	R 300	Jetted		Dom.Irr.		
(B-6-3)1daa-2	A-15322	R. W. Stewart	2	R 300	Jetted		Dom.St.Irr.	7/1/58	+ 5.5
(B-6-3)5dca-1	C-9726	Perry Land & Livestock Co.	2	R 150	Jetted		Dom.Stock		
(B-6-3)7acd-1	C-9727	Perry Land & Livestock Co.	2	R 140	Jetted		Dom.Stock	7/28/55	+ 5.0
(B-6-3)7bdc-1	A-13732	Perry Land & Livestock Co.	4½	R 325	Drilled		Stock	7/28/55	+ 3.6
(B-6-3)10aac-1	C-9739	Perry Land & Livestock Co.	3	R 150	Jetted		Dom.St.Irr.	7/26/55	+ 10.0
(B-6-3)10abb-1	A-13732	Perry Land & Livestock Co.	4½	R 521	Drilled		Stock	7/26/55	+ 12.3
(B-6-3)11dcb-1	C-9733	Perry Land & Livestock Co.	2	R 365	Jetted		Stock,Irr.		
(B-6-3)11dcb-2	A-13732	Perry Land & Livestock Co.	4½	R 495	Drilled		Stock		
(B-6-3)12ada-1	A-15163	R. Wayment	2	R 460	Jetted		Dom.St.Irr.	7/1/55	+ 3.5
(B-6-3)13aad-1	C-5582	G. East	2	R 420	Jetted		Dom.St.Irr.		
(B-6-3)13abb-1	A-23738	K. Burrow	2	R 521	Jetted		Dom.St.Irr.	7/1/55	+ 10.6
(B-6-3)13ddo-1	A-15038	A. T. Knight	1½	R 474	Jetted		Dom.St.Irr.	7/29/55	+ 12.4
(B-6-3)14dco-2	A-20492	West Warren L.D.S.Church	2	R 504	Jetted		Misc.	9/15/54	+ 18.7
(B-6-3)15ccd-1	A-14262	B. Higgs	2	R 286	Jetted		Dom.Irr.		
(B-6-3)15dad-	Test Well	U. S. E. R.	12	R 827	Drilled		Obs.		
(B-6-3)16dab-1	A-13732	Perry Land & Livestock Co.	4½	R 477	Drilled		Stock,Irr.	9/16/53	+ 22.4
(B-6-3)17caa-1	A-13732	Perry Land & Livestock Co.	4	R 328	Drilled		Irr.	7/28/55	+ 24.0
(B-6-3)17dba-1	A-13732	Perry Land & Livestock Co.	4	R 411	Drilled		Stock,Irr.		
(B-6-3)18abd-1	A-13732	Perry Land & Livestock Co.	4½	R 325	Drilled		Stock,Irr.		
(B-6-3)19abc-1	A-16107	O. L. Foy	2	R 220	Jetted		Dom.St.Irr.	7/26/55	+ 5.3
(B-6-3)19acc		Southern Pacific RR		R 187	Jetted				
(B-6-3)19cc (Mosquito Mound Spr.)					Spring				
(B-6-3)20bcc-1	C-9731	Perry Land & Livestock Co.	2	R 100	Jetted		Stock		
(B-6-3)20ddd		Perry Land & Livestock Co.	1½		Jetted		Stock		
(B-6-3)21acc-1	A-18518	Perry Land & Livestock Co.	2	R 515	Jetted		Stock		
(B-6-3)22aaa-1	A-15175	J. Barrow	2	R 300	Jetted		Dom.St.Irr.	9/15/54	+ 10.0
(B-6-3)22acb-1	A-13309	E. J. Rausi	2	R 296	Jetted			7/29/55	+ 4.8
(B-6-3)23bad-1	A-16767	A. C. Barrows	2	R 529	Jetted		Dom.St.Irr.	9/15/54	+ 19.7
(B-6-3)23bcc-1	A-15378	C. W. Barrows	1½	R 418	Jetted		Dom.St.Irr.	10/7/54	+ 10.4
(B-6-3)23ccc-1	C-17841	P. F. Barrow	2	R 298	Jetted		Dom.St.Irr.	7/29/55	+ 13.6
(B-6-3)24aab-1	A-22490	S. T. Knight	2	R 590	Jetted		Dom.St.Irr.	4/26/55	+ 16.0
(B-6-3)24cab-2	A-14444	R. C. Penman	2	R 260	Jetted		Stock,Irr.	4/26/55	+ 11.0
(B-6-3)25cbb-1	D. S.	R. C. Penman	2	M 330	Jetted			10/2/54	+ 19.0
(B-6-3)25ddc-1	A-14387	S. Hadley	2	R 256	Jetted		Dom.St.Irr.	3/2/55	+ 18.9

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-6-2)17acc-3	A-16199	J. H. Gibson	2	R 478	Jetted		Misc.		
(B-6-2)17caa-1	A-14041	L. B. Gibson	2	R 497	Jetted		Dom. St. Irr.		
(B-6-2)18hcc-1	A-11827	L. L. Keller	2	R 535	Jetted	1935	Stock		
(B-6-2)19abd-1	C-5374	P. H. Green	2	R 300	Jetted		Dom. St. Irr.		
(B-6-2)20acd-3	A-14704	I. M. Gibson	2	R 378	Jetted		Dom. Irr.		
(B-6-2)20bad-2	C-15030-R	D. Costesse	2	R 497	Jetted		Dom. St. Irr.	10/7/54	+ 19.5
(B-6-2)20cbc-4	A-15220	C. J. Heslop	2	R 441	Jetted		Dom. St. Irr.		
(B-6-2)21aaa-4	A-23272	Jes. Iurraga	2	R 325	Jetted		Dom. St. Irr.		
(B-6-2)21bdb-1	C-4343	Central Pacific RR	2	R 548	Jetted		Dom.		
(B-6-2)21cdd-2	A-13931	G. A. Hunter	2	R 356	Jetted		Dom. St. Irr.		
(B-6-2)21edd-3	A-13967	C. Degiorgio	2	R 450	Jetted		Dom.		
(B-6-2)25bbc-1	A-17603	A. Thornton	2	R 414	Jetted		Dom. St. Irr.		
(B-6-2)25bbc-3	A-23748	F. Dence	2	R 418	Jetted		Dom. St. Irr.		
(B-6-2)25bdc-1	A-12676	E. Bitten	1 1/2	R 440	Driven	1936	Dom.	5/13/43	+ 18.1
(B-6-2)25ccc-1	C-15111	G. E. Stratford	3	R 560	Jetted	1919	Stock	4/19/48	+ 5.6
(B-6-2)25ccc-3	C-15109	G. E. Stratford		R 300	Jetted	1934	Dom.	5/14/43	- 21.0
(B-6-2)26aaa-1	A-15202	C. Treman	2	R 446	Jetted		Dom. St. Irr.	4/6/54	+ 21.2
(B-6-2)26aac-1	C-1194	Amalgamated Sugar Co.	2	R 481	Jetted	1931	Fire Protection	8/12/43	+ 6.3
(B-6-2)26ada-1	C-8387	Amalgamated Sugar Co.	16	R 600	Drilled		Ind.		
(B-6-2)26caa-1	A-12269	J. B. Hunter	2	R 496	Jetted				
(B-6-2)26dad-1	C-14289	L. L. Keller	2	M 690	Jetted		Dom. Irr.		
(B-6-2)27bab-1	A-12146	E. H. Hansen	2	R 467	Jetted			10/11/54	+ 14.5
(B-6-2)26bba-1	A-12131	A. McFarland	2	R 550	Jetted				
(B-6-2)27bba-2	A-21112	L. D. Lucia	2	R 536	Jetted		Dom. St. Irr.		
(B-6-2)27bac-2	A-21071	V. Ostrup	2	R 913	Jetted		Dom. St. Irr.	10/10/54	+ 35.0
(B-6-2)27dcd-2	A-20938	J. Defries	2	R 625	Jetted		Dom. St. Irr.	10/7/54	+ 27.2
(B-6-2)28cdd-1	A-20570	J. H. Buck	2	R 717	Jetted		Dom. St. Irr.		
(B-6-2)28daa-2		P. Atkinson	2	R 602	Jetted		Dom. St. Irr.	10/7/54	+ 10.7
(B-6-2)29add-2	C-14965	Taylor L.D.S.Ward	2	R 400	Jetted		Dom.	3/4/54	+ 15.8
(B-6-2)29cad-2	A-19949	J. Marshetti	3	R 448	Jetted		Stock		
(B-6-2)30bcd-1	A-14043	C. Degeorgio	2	R 310	Jetted		Stock, Irr.		
(B-6-2)32cda-2	A-18166	H. Hadley	2	R 838	Jetted		Dom. St. Irr.		
(B-6-2)33aba-1	C-418	C. E. Steker	2	R 560	Jetted		Dom. St. Irr.		
(B-6-2)34abb-1	A-11869	H. Swarner	3	R 648	Jetted		Dom.		
(B-6-2)35abb-1	A-22915	E. L. Duke	2	R 478	Jetted		Dom. St. Irr.		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-7-2)35ada-1	A-22667	V. Havens	2	R 750	Jetted		Dom.St.Irr.		
(B-7-2)35dad-2	C-15439	Weber School District	2	R 545	Jetted		Dom.	6/30/55	+ 15.4
(B-7-2)36cca-2	C-55-4	J. E. Thomas	12	R 22	Drilled		Dom.Stock		
(B-7-2)36cca-5	A-23364	I. Taylor	2	R 420	Jetted		Dom.St.Irr.	5/27/54	+ 21.3
(B-7-2)36cdd-1	D. S.	J. D. Brown		R 617	Drilled			3/3/54	+ 38.0
(B-7-3)25cdc-2	A-14053	J. Maw	2	R 505	Jetted		Stock	4/26/55	+ 25.0
(B-7-3)32daa-1	A-15825	G. East	2	R 399	Jetted		Dom.St.Irr.	5/26/54	+ 21.0
(B-7-3)33add-1	A-15824	G. East	2½	R 390	Jetted		Dom.St.Irr.	6/26/55	+ 23.0
(B-7-3)33cdd-1		G. East		R 400	Jetted			5/26/54	+ 22.0
(B-7-3)35add-1	A-17924	J. S. Decker	2	R 485	Jetted		Dom.St.Irr.		
(B-7-3)35cad-1	C-5488	H. VanBrack	2	R 350	Jetted		Stock, Irr.		
(B-7-3)35daa-1	C-5489	H. VanBrack	2	R 145	Jetted		Stock, Irr.	3/4/54	+ 8.4
(B-7-3)36bcc-1	A-17702	G. W. Clark	2	R 471	Jetted		Dom.Stock	5/26/54	+ 9.2
(B-7-3)36ccc-1	A-15871	D. E. Clark	2	R 473	Jetted		Stock, Irr.		

Well Coordinate Number	Claim or Application	Owner	Diameter (inches)	Depth (feet)	Type of Well or Spring	Year Drilled	Use	Water level above or below L.S.D.	
								Date measured	Level (feet)
(B-6-3)26bbb-1	C-7505	F.G.Kelly & R.J.Urry	3	R 512	Jetted		Dom.St.Irr	3/4/54	+ 26.3
(B-6-3)27bdb-1	C-9737	Perry Land & Livestock Co.	2	R 100	Jetted		Dom.Stock	7/29/55	+ 11.8
(B-6-3)35abo-		O. Foy	2	R 220	Jetted				
(B-6-4)13c					Jetted				
(B-7-1)18		Little Missouri Irr.Co.			Spring		P. S.		
(B-7-1)22abc-DVS (Rice Creek Spr.)		Town of North Ogden			Spring		P. S.		
(B-7-1)29abb-3	A-15256	E. M. Squires	3	R 160	Jetted		Dom.St.Irr.	4/21/54	+ 5.0
(B-7-1)30		E. Barnett		R 58	Dug			4/21/54	- 36.7
(B-7-1)31bdb-1	A-18108	R. D. Oakley	2	R 482	Jetted		Dom.St.Irr.	3/2/54	+ 37.3
(B-7-1)32aac-3	C-16747-R	P. E. Alvord	2	R 210	Jetted		Dom.St.Irr.	4/21/54	+ 77.8
(B-7-1)32add-2	A-23769	M. J. Kuns	2	R 310	Jetted		Dom.St.Irr.	5/27/54	+ 41.2
(B-7-1)32add-5	A-17802	V. Johns	2 1/2	R 106	Jetted		Dom.St.Irr.	4/21/54	+ 16.9
(B-7-1)33cad-2	A-12788	Chas. Randall	3	R 186	Jetted		Dom.Stock		
(B-7-1)33cbd-1	C-2340	J. A. Woodfield	3	R 197	Jetted		Dom.St.Irr.	4/21/54	+ 76.8
(B-7-1)34bcc-DVS (Coldwater Spr.)		Town of North Ogden			Spring		P. S.		
(B-7-1)34cbe-1	C-14787	W. A. Montgomery	2	R 135	Jetted		Dom.St.Irr.	5/27/54	+ 10.6
(B-7-2)4dc (Utah Hot Spr.)					Spring				
(B-7-2)20aaa-1	C-3704	J. Maw	1 1/2	R 150	Jetted		Stock	3/4/54	+ 10.0
(B-7-2)21acc-1	D. S.	A. C. Maw	1 1/2	R 175	Jetted		Stock		
(B-7-2)22cac-1	C-14848	O. England	1 1/2	R 300	Jetted			6/27/55	+ 3.6
(B-7-2)23cad-1	C-5373	E. Higley	2 1/2	R 400	Jetted		Dom.St.Irr.	6/30/55	+ 42.0
(B-7-2)23cad-2	D. S.	E. Higley	1 1/2	R 150	Jetted			6/30/55	+ 6.0
(B-7-2)26dac-1	C-14418	J. W. Randall	2	R 500	Jetted		Dom.Stock	3/3/54	+ 35.0
(B-7-2)27aad-2	D. S.	E. Costley	2	R 350	Jetted			6/27/55	+ 6.6
(B-7-2)28abe-1		O. England	2	R 334	Jetted			6/28/55	+ 9.2
(B-7-2)28cba-1	D. S.	W. T. Maw	2	R 600	Jetted			6/28/55	+ 7.4
(B-7-2)31cbd-1	C-20577	M. P. Hill	2	R 130	Jetted				
(B-7-2)31dac-2	B-14430-R	E. Hadley	2	R 525	Jetted		Stock	5/27/54	+ 9.1
(B-7-2)32aca-1	A-15170	D. Baker	2	R 630	Jetted		Dom.St.Irr.	9/16/53	+ 35.1
(B-7-2)32ada-1	A-15846	Weber School District	3	R 700	Drilled		Dom.		
(B-7-2)32aab-1	A-15095	M. Olson	1 1/2	R 300	Jetted		Dom.Stock		
(B-7-2)33beb-1	C-14387	E. Carver	1 1/2	R 22	Driven		Dom.		
(B-7-2)33beb-2	D. S.	E. Carver	1 1/2	R 75	Driven		Stock		
(B-7-2)34bbc-1	C-14850	O. England	1 1/2	R 300	Jetted		Stock,Irr.	6/28/55	+ 9.6
(B-7-2)34ccc-1	C-15046	C. Taylor	1 1/2	R 18	Driven		Dom.		

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(A-7-1)35eba-1	9/16/52	988	49		158	12				332	39	72		103		446		GS
(A-7-1)35eba-1	5/12/53	837	47		142	8.2				322	34	66		75		388		GS
(A-7-1)35eb	10/16/53				40			5.5		111	15	12		29		135	8	PH
(A-7-1)36cnb	9/16/52	233	25		22	8.2				76	9.9	30		1.1		90		GS
(A-7-3)35	9/5/52	427	12		49	22		9.1		245	14	12		.3	238*	212	8	GS
(B-5-1)17eat-2	3/19/53		27	1.2	24	13		62		263	.6	17	0.01	.2	283	113	54	PH
(B-5-1)17eat-2	2/28/56	471			26	12	52		11	273		19			284	113	47	BR
(B-5-1)17ebd-1	2/8/56	620			72	22	29		4.7	356	13	29			346	271	19	BR
(B-5-1)17ebd-1	3/1/56		2.8	.07	73	20		56		356	52	26	2.1	.5	416	264	32	PH
(B-5-1)18	9/27/50		22	.15	51	26		38		274	49	27	.3	.2	384	234	26	PH
(B-5-1)18nct-1	3/2/51		14	.06	53	7.8		24		211	15	15	.3	.4	258	165	25	PH
(B-5-1)27ccc	1/11/52		13	.14	59	8.8		18		214	25	12	.0	2.2	242	183	18	PH
(B-5-1)25d	12/5/53	147	3.4		15	2.7	8.0			52	15	7.4		1.7	77	48	26	BR
(B-5-1)26tan	1/26/54	371			35	11	14			3.9	170	1.0	20		189	133	18	BE
(B-5-1)27ebd-1	12/4/54	186	1.2		12	4.8	12			2.7	68	2.9	15	6.2	92	50	32	BR
(B-5-1)27eto	4/26/55	181			8.6	5.5	13		3.1	78	4.3	16			88	45	37	BR
(B-5-1)20aid-1	1/5/53	564			44	15	40			2/324	20	24	.2	2.7	330*	238	27	GS
(B-5-2)1434-1	4/2/53	472	18	.02	50	17	30		5.7	273	7.4	22	.1	.1	276	195	24	GS
(B-5-2)1434-1	11/5/53		14	.1	36	16	46			269	2.2	22	.2	0	282	118	39	PH
(B-5-2)1434-1	9/11/50	479	21	.23	49	15	31		8.0	272	7.7	23	.2	.0	279	184	26	GS
(B-5-2)1434-1	3/4/52		5.1	1.8	67	9.1	30			286	13	18	.0	1.8	297	199	24	PH
(B-5-2)1434-1	5/27/52	510	1.8	.06	54	17	30		5.3	272	12	20	.1	.4	297	204	24	GS
(B-5-2)20et-1	5/15/56	384			80	22	38		2.8	446	1.0	44			443	332	19	BR
(B-5-2)20et-3	2/11/56	421			39	12	31		4.7	242		19			230	150	30	BR
(B-5-2)20et-1	4/11/55	1,150			99	61	48		18	650		73	.1		642	497	17	BR
(B-5-2)20et-2	3/1/54	380	22		40	11	21		2.7	188	14	19	.0	.4	218	149	23	BR
(B-5-2)20et-2	2/16/56	532			51	10	23		2.1	198	7.7	19			227	145	25	BR
(B-5-2)20et-1	1/2/56	571			40	11	22		2.0	196	19	20	.1		203	155	25	BR
(B-5-2)20et-2	4/7/55	328			44	11	19		2.0	190	10	17	.1		212	157	20	BR
(B-5-2)20et-1	2/5/54	459	32		37	14	36		8.2	264		20	.0	.5	276	148	33	BR

a/ Includes equivalent of 10 ppm CO₃

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			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(A-6-1)11c	12/11/53		10	0.38	37	8.9		11		149	13	5.5		3.7	147	129	16	PH
(A-6-1)11c	10/16/33		17	.01	43	11	9.8		1.5	173	12	10		6.2	191	153	12	PH
(A-6-1)11c	12/15/52	339	12	.06	47	11	8.4		.7	186	11	10	0.1	3.7	197	162	10	GS
(A-6-1)11cab-1	11/28/52	247	8.8		35	7.3				130	11	5.0		5.2		118		GS
(A-6-1)11cab-1	11/20/52	436	9.3		51	13		27		230	31	11		3.3	259*	181	24	GS
(A-6-1)11cab-1	12/15/52	295	9.4	.07	46	7.7	4.5		.7	164	11	4.5	.1	2.9	174	146	6	GS
(A-6-1)11dbd-1	9/17/32		14	.02	30	7.3	11		2.3	131	8.7	10	.6	1.3	142	105	18	PH
(A-6-1)11dbd-2	9/24/32		18	.04	47	10	14		2.0	197	2.5	22	1.1	.0	198	158	16	PH
(A-6-1)11dbd-3	10/12/32		27	.02	73	17	7.2		6.0	286	17	12	.8	6.0	299	252	6	PH
(A-6-1)11dd-1	11/4/55	413	10	.00	55	17	6.3		1.2	233	12	12	.1	2.7	224	201	6	GS
(A-6-1)12aad-1	10/12/32		4.8	.01	13	9.5	47		4.3	a/ 64	32	61	.4	.0	210	71	57	PH
(A-6-1)12aad-1	6/17/53	573	17	.04	46	16	49		1.9	199	20	72	.2	1.1	319	181	37	GS
(A-6-1)12aad-2	10/13/32		2.0	.03	22	6.8	6.0		2.6	96	10	5.5	.0	2.4	98	83	13	PH
(A-6-1)12aad-3	10/12/32		15	.05	68	20	6.5		3.2	302	12	8.8	.0	.0	272	252	5	PH
(A-6-1)12acc-1	10/16/33				45			11		164	10	16		13	194	153	14	PH
(A-6-1)12acc-6	10/16/33				32			9.1		116	8.0	10		5.2	131	102	16	PH
(A-6-1)13ab	10/16/33				110			3.0		398	12	10		26	401	368	1	PH
(A-6-1)25aa	9/27/50		17	.0	58	17		14		247	17	16	.3	.2	266	217	12	PH
(A-6-1)25aa	9/16/52	422	12		58	17				254	8.6	10		2.4		216		GS
(A-6-1)30c	8/6/53		8.9	.00	45	17		8.30		219	6.1	8.4	.05	.1	202	182	9	PH
(A-6-2)6dd-1	11/23/32		4.2	.46	41	12	20		1.7	194	16	17	.4	.0	199	152	22	PH
(A-6-2)6dd-2	10/13/32		5.4	.02	42	13	8.3		3.0	178	14	8.0	.0	9.8	186	158	10	PH
(A-6-2)7	10/16/33				50			3.7		224	9.0	5.0		15	228	204	4	PH
(A-6-2)17da	10/16/33				64	18				259	9.0	7.0		4.1	230*	234	.5	PH
(A-6-2)18bab-1	11/30/55	413	17	.01	54	15	13		1.0	242	6.9	14	.1	2.0	236	196	12	GS
(A-7-1)7c	6/16/41		12	.0	47	12		13		198	7.5	14	.15	0	206	164	10	PH
(A-7-1)19dbc	3/7/51		4.6	.07	23	.0		5.2		55	15	4.2	.2	.7	80	56	17	PH
(A-7-1)22caa-DVS	10/16/33				14			11		73	8.0	10		.25	88	58	30	PH
(A-7-1)22caa-DVS	3/7/51		9.8	.12	15	.0	12			46	7.7	7.9	.4	.5	80	27	.1	PH
(A-7-1)22cab-DVS	3/16/52	247	11		32	8.0		7.4		135	9.5	5.5		.6	140*	112	12	GS

a/ Includes equivalent of 6.9 ppm CO₃

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			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
(B-5-2)21aad-1	9/16/54	959	37		20	31	136		20	521	1.0	65	0.0	0.4	527	178	59	BR
(B-5-2)22ccc-2	9/16/53	1,310	36		53	62	118		23	465	13	175	.5	12	711	386	38	BR
(B-5-2)24aba-1	10/21/50		16	0.58	42	19			23	233	17	22	.0	.5	232	184	21	PH
(B-5-2)33aba-1	4/22/46	767	38	.06	63	52			28	383	58	28	.5	20	478	371	14	GS
(B-5-3)10add-1	9/16/53	353	24		30	9.8	33		3.1	185		18		3.2	200	101	38	BR
(B-5-3)11dac	4/21/54	556	30		28	19	53		18	314	6.2	24		.2	322	147	41	BR
(B-5-3)11dda-1	2/13/56	362			35	9.5	23		2.0	192		18			199	127	28	BR
(B-5-3)12aad-1	2/24/56	430			30	18	33		5.9	253					245	149	31	BR
(B-5-3)12add-2	2/13/56	412			27	11	43		7.4	202	6.2	31			246	113	43	BR
(B-5-3)12bdd-1	2/13/56	358			31	9.3	32		2.3	207		18			202	116	37	BR
(B-5-3)15dda	9/15/53	386	25		18	6.2	56		3.1	a/200	1.0	24	.1	2.4	226	71	62	BR
(B-5-3)27bd	11/18/57	15,500	46		506	95	2,620		313	161	46	5,350	.4	9.9	9,530	1,650	74	BR
(B-6-1)4acd-2	5/14/43	379			40	17		19		242	0	9.0	.0	.1	204*	170	19	GS
(B-6-1)4bbd-2	5/14/43	414			36	19		30		272	0	7.0	.2	.1	226*	168	28	GS
(B-6-1)4bda-1	4/21/54	428	17	.50	36	14	22		2.3	265	.5	8.2		.3	223	148	24	BR
(B-6-1)5dad-1	5/13/43	642			22	15	112			404	0	19	.4	.2	368*	116	68	GS
(B-6-1)5ddd-1	5/14/43	15,600			95	303	3,230			1,270	1,000	4,550	.3		9,800*	1,480	83	GS
(B-6-1)6caa-1	4/14/43	262			32	10	14			b/170	4.0	6.0		.3	150*	121	21	GS
(B-6-1)6caa-1	2/24/56	275			32	10	11		2.3	156	5.8	9.6			175	121	16	BR
(B-6-1)7cca-1	8/5/46											1,750						GS
(B-6-1)8aac-1	5/14/43	437			28	12		48		208	0	38	.1	.1	229*	120	47	GS
(B-6-1)8acb-1	5/14/43	1,750			46	25	289			272	0	440	.8	.2	935*	218	74	GS
(B-6-1)8bdd-16	3/27/43	1,630			57	21	272			c/340	1	381	.8	1.0	901*	229	72	GS
(B-6-1)8dbb-1	2/17/55	1,290			37	17	195		20	288	1.4	265	.6		684	163	69	BR
(B-6-1)8dbb-2	2/17/55	2,100			57	16	328		36	252	16	526	1.0		1,110	207	74	BR
(B-6-1)8dbd-1	3/3/54	1,000	19		32	12	152		20	d/338	1.4	148	.6	.1	548	130	68	BR
(B-6-1)17bcb-1	5/15/43		37	2.0	56	34		540		e/307	0	853			1,630	280	81	
(B-6-1)21add-1	5/14/43	1,540			41	7.2	265			318	21	330	1.0	1.0	843*	132	82	GS
(B-6-1)23	8/16/28				160		2,832			208	150	4,700			7,903	800	88	GS
(B-6-1)23	11/3/51	14,700	53	.08	337	8.0	2,740		407	200	100	5,060	3.4		8,820*	874	81	GS

a Includes equivalent of 11 ppm CO₃b Includes equivalent of 12 ppm CO₃c Includes equivalent of 24 ppm CO₃d Includes equivalent of 7 ppm CO₃e Includes equivalent of 14 ppm CO₃

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			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃
(B-5-2)6cad-1	2/16/56	446			33	14	40		7.8	262		22			273	142	37	BR
(B-5-2)6ccd-1	2/16/56	441			41	11	19		2.0	192	9.1	17			205	147	22	BR
(B-5-2)7dcb-1	3/5/54	382	20		38	11	19		2.7	190	3.8	18			203	141	22	BR
(B-5-2)8aba-1	4/21/54	442	28				28		11	249		20			265			BR
(B-5-2)8abc	4/3/56	430			38	15	24		11	251		13			258	155	24	BR
(B-5-2)9aba-3	2/14/56	424			40	15	27		5.9	247		19			229	163	26	BR
(B-5-2)9baa-1	3/5/54	381	26		36	8.1	34		2.3	217	a/217	16	0.0	0.1	228	124	37	BR
(B-5-2)9cbb-1	2/14/56	473			29	20	33		16	277		21			258	154	29	BR
(B-5-2)9cbb-2	11/5/54	423	26		40	13	28		6.3	246	b/246	1.4	20	.0	237	154	27	BR
(B-5-2)9dcc-1	11/5/54	385	19		45	11	15		2.0	188	18	20	.0	.6	220	157	17	BR
(B-5-2)9dcc	2/14/56	383			46	11	15		2.0	189	14	19			211	161	17	BR
(B-5-2)10abd	11/5/54	895	45		77	50	39		11	c/487	53	38	.4	9.3	544	398	17	BR
(B-5-2)10dbc-1	11/5/54	1,050	38		29	55	92		25	d/559	1.4	85	.3	.6	564	296	38	BR
(B-5-2)11aac-1	9/16/54	467	17		49	13	29		3.5	256	10	23	.0	.2	255	177	26	BR
(B-5-2)12aab-1	11/6/48		17	0.05	48	16		11		299	3.2	22	.1	.0	270	112	11	PH
(B-5-2)13dad	3/12/54	410	19		47	11	16		2.0	204	15	20		.6	225	163	17	BR
(B-5-2)16caa-1	9/16/54	389	23							212		17			209			BR
(B-5-2)16daa-2	0/16/54	992	38							529		79			535			BR
(B-5-2)16ddo-1	8/6/55	576			26	14	64		25	257	45	28			335	125	47	BR
(B-5-2)16ddc-1	8/8/56	393			51	13	14		2.0	e/191	29	21			231	183	14	BR
(B-5-2)16ddc-1	8/30/56	402			44	13	13		1.6	197	2.9	21			233	163	15	BR
(B-5-2)16dad-2	10/16/56	386			27	5.0	48		2.7	175	14	27	.3		237	87	54	BR
(B-5-2)16dad-2	10/26/56	824			25	.4	119		5.9	f/17	59	92	1.5		411	63	78	BR
(B-5-2)16ddc-2	1/15/57	436			30	7.8	55		3.9	193	12	40			244	107	52	BR
(B-5-2)17beb-2	9/16/54	376	22		41	11	21		2.0	207	3.4	17	.0	.1	204	149	24	BR
(B-5-2)17caa	9/16/54	377	22		40	9.9	23		2.3	211	1.9	16		.1	200	140	26	BR
(B-5-2)17caa-1	10/11/54	412	30		35	13	23		7.4	g/239	.5	19	.0	.1	263	142	25	BR
(B-5-2)18dia-3	9/16/54	362	22		38	9.2	23		2.0	190	11	17	.0		197	132	27	BR
(B-5-2)19abc-1	9/16/54	417	26							238		17			229			BR
(B-5-2)19acb-2	10/11/54	381								h/192	32	18						BR

a Includes equivalent of 14 ppm CO₃d Includes equivalent of 44 ppm CO₃g Includes equivalent of 14 ppm CO₃b Includes equivalent of 11 ppm CO₃e Includes equivalent of 14 ppm CO₃h Includes equivalent of 12 ppm CO₃c Includes equivalent of 29 ppm CO₃f Contains 24 ppm OH - 41 PPM CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million												Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)				
(B-6-2)6abc-2	9/16/53	1,880	30		99	43	172		14	119		515		13	1,210	359	46	BR
(B-6-2)6abb-1	4/4/55	663			16	9.6	111		9.4	253		99	0.2		368	80	73	BR
(B-6-2)7abc-5	1/13/55	528	33		13	7.1	96		7.8	247	1.9	47	0.3	.5	323	62	74	BR
(B-6-2)7abc-1	1/13/55	1,400	23		63	25	181		7.4	191	1.9	272	.1		808	350	59	BR
(B-6-2)8cda-2	1/14/55	593	24		29	9.4	80		5.1	187	1.4	95	.1	1.8	329	112	59	BR
(B-6-2)10abd-1	9/15/54	952	29		18	4.5	166		32	300	1.0	153	.0	.4	545	64	78	BR
(B-6-2)10adb-1	1/13/55	946			20	5.4	164		32	290	13	154	.5		548	71	76	FR
(B-6-2)11adb-1	9/20/55	4,040			151	50	540		74	218	4.8	1,200			2,570	580	64	BR
(B-6-2)11bbc-1	3/4/54	1,230	36		29	4.9	189		41	217	1.4	267			740	92	74	BR
(B-6-2)11bcc-1	1/13/55	1,200			30	6.6	186		40	197	16	269	.4		656	103	72	BR
(B-6-2)11dad-2	1/13/55	754			15	3.1	134		30	295	16	87	.5		442	51	77	BR
(B-6-2)12aab-3	5/10/43	558			15	5.5		104		264	0	48	.6	.1	303*	60	79	GS
(B-6-2)12aac-1	5/10/43	628			32	11		82		202	0	98	.2	.2	323*	125	59	GS
(B-6-2)12cbb-1	5/15/43		19		26	5.1		82		a/221	.0	60			323	87	67	
(B-6-2)12ccc-2	5/15/43		19		22	3.7		217		b/242	.0	242			464	69	87	
(B-6-2)12cdc-2	11/4/54	969	20		11	3.2	180		30	c/301	1.4	166	.5	.0	522	40	84	BR
(B-6-2)14dab-2	9/15/54	1,320	22		59	15	169		19	296	1.0	273		.7	689	208	61	BR
(B-6-2)16aca-1	4/5/55	2,210			157	36	195		33	150	24	611			1,290	542	42	BR
(B-6-2)17acc-3	11/23/55	521			34	11	50		10	187	1.4	69			281	131	43	BR
(B-6-2)17caa-1	11/25/55	707			38	11	84		5.9	192		127			373	141	55	BR
(B-6-2)18bcc-1	11/25/55	897			11	7.6	171		9.0	317		130			492	58	84	BR
(B-6-2)19abd-1	1/13/55	369	22		23	6.3	48		2.3	193	1.9	24	.1	.2	214	85	55	BR
(B-6-2)20acd-3	11/25/55	430			32	11	41		5.5	237		24			243	124	41	BR
(B-6-2)20bad-2	10/7/54	402	26		31	7.0	39		6.6	196	2.4	30	.0	.2	239	106	42	BR
(B-6-2)20cbc-4	11/25/55	447			36	10	39		7.0	205	4.3	37			269	132	38	BR
(B-6-2)21aaa-4	1/14/55	421	26		34	9.0	48		6.6	252	2.4	21	.1	.2	261	122	45	BR
(B-6-2)21bdb-1	1/13/55	485	24		42	9.6	44		4.7	186		64	.1		266	145	39	BR
(B-6-2)21cdd-2	11/25/55	413			35	9.8	37		4.7	231	.5	20			248	128	38	BR
(B-6-2)21cdd-3	11/25/55	369			33	9.6	34		3.5	186	12	24			207	121	37	BR
(B-6-2)25bbc-1	1/14/55	401			27	7.1	53		6.3	210	18	21	.2		250	97	52	BR

a Includes equivalent of 11 ppm CO₃b Includes equivalent of 12 ppm CO₃c Includes equivalent of 14 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Micromhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis by	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(B-6-1)23	2/12/53	14,700								200	105	5,190						GS
(B-6-1)23dcb	4/27/43	14,700			355	11		3,000		208	102	5,080			8,650*	931	88	GS
(B-6-1)25bb	8/23/50		8.6	0.0	15	41		12		233	22	9.7	.0	0.09	231	206	11	PH
(B-6-1)27cac-1	5/1/43	769			54	48		50		420	55	25	.0	5.9	445*	332	25	GS
(B-6-1)28dba-1	9/11/50	2,070	25	.09	120	33	235		13	162	12	595	.2	.7	1,320	435	53	GS
(B-6-1)28dba-1	7/22/53 8:31 am	1,850	25		97	44	213			157	12	490		1.1	953*	423	52	GS
(B-6-1)28dba-1	7/22/53 8:36 am	2,380	26		116	38	280			156		675		.5		446	58	GS
(B-6-1)28dba-1	7/22/53 12:00 N	1,940	26		98	31	220			151	13	515		7.9	985*	372	56	GS
(B-6-1)28dba-1	7/22/53 3:00 pm	1,940	25		98	30	218			152		512		7.1		368	56	GS
(B-6-1)28dba-1	7/22/53 9:00 pm	1,930	24		98	29	233			151	15	518		.4	992*	364	58	GS
(B-6-1)29abb-1	4/27/43	5,080			139	32		897		198	33	1,580		.5	2,780*	478	80	GS
(B-6-1)29aca-1	5/1/43	1,100			82	55		81		466	95	82	.1	12	637*	430	29	GS
(B-6-1)29ccc	5/13/43	3,490	16	.12	232	57	363		35	118	6.6	1,100	.3	.5	1,991	814	48	GS
(B-6-1)29ccc	10/12/54	3,550	11		217	53	334		43	102		1,060	.0	.0	2,010	761	47	BR
(B-6-1)30bcb-1	4/6/43	4,480	17	.07	24	6.7	59		10	175	.7	60	.2	.1	254	88	56	GS
(B-6-1)30bcb-2	4/6/43	6,890	13	.20	256	58	1,140		97	295	.7	2,300	.3	4.0	4,200	878	71	GS
(B-6-1)30bcc-2	10/11/54	407								a/168	10	39					BR	
(B-6-1)30bda-1	5/13/43	8,770			250	41		1,600		282	6.0	2,860			4,900*	792	81	GS
(B-6-1)30bda-2	5/13/43	8,720			258	45		1,578		286	6.0	2,850			4,880*	829	81	GS
(B-6-1)32bbb	4/12/43	2,080			34	21		486		b/1,220	1.0	158	1.6	.5	1,300*	172	86	GS
(B-6-1)36aca-DVS	10/21/46		4.0	.00	16	4.4		7.3		60	7.9	10	.0		84	55	22	PH
(B-6-2)1acd-3	5/10/43	3,930			35	12		33		222	0	19	.2	.1	209*	137	35	GS
(B-6-2)1ada-1	11/4/54	298	20		33	11	10		1.6	165	.5	11	.0	1.5	155	127	15	BR
(B-6-2)1ddb-1	11/4/54	566	23		27	8.8	56		22	197	.5	81	.1	.4	290	103	48	BR
(B-6-2)2dda	4/7/55	1,150			13	4.0	208		38	298	3.8	214	1.0		628	49	82	BR
(B-6-2)3cdc	4/7/55	1,320			23	6.2	225		38	292	2.4	269	.3		715	84	79	BR
(B-6-2)3odd-1	4/7/55	2,870			81	21	428		63	221	9.1	788	.1		1,570	289	72	BR
(B-6-2)4bbd-1	4/4/55	1,890			104	30	182		35	203		492	.1		972	381	48	BR
(B-6-2)5acb-2	3/4/54	507	24		17	5.2	90		2.3	271	1.4	30	.4	1.5	306	65	74	BR
(B-6-2)4bbd-1	4/5/55	2,050			121	30	209		38	203		545	.1		1,170	426	49	BR

a Includes equivalent of 4 ppm CO₃b Includes equivalent of 94 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million												Percent Sodium	Analysis by		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)			Total Dissolved Solids	Total Hardness as CaCO ₃
(B-6-3)10abb-1	4/26/55	415			11	5.0	74		5.5	228		22	0.3		244	48	75	RR
(B-6-3)10abb-1	7/26/55	422			12	5.2	73		5.5	a/224	1.4	23			249	53	73	RR
(B-6-3)11dcb-1	9/16/53	439								256	1.4	21			251			RR
(B-6-3)11dcb-2	9/16/53	370	24		19	5.9	54		5.1	193	1.4	20	.1	6.1	219	73	60	RR
(B-6-3)12ada-1	7/1/55	858			45	17	91		8.6	176		175	.1		484	181	51	RR
(B-6-3)13aad-1	7/29/55	414			19	7.7	56		5.9	b/224		22			251	78	59	RR
(B-6-3)13abb-1	7/1/55	364			20	5.4	51		2.3	190	1.4	21	.1		215	73	59	RR
(B-6-3)13add-1	7/29/55	382			22	7.3	47		5.1	200	3.4	20			225	86	53	RR
(B-6-3)14dcc-2	9/15/54	351	23		20	6.5	47		2.7	g/189	1.0	19	.0	.1	196	78	56	RR
(B-6-3)15ccd-1	8/1/55	413			12	5.7	67		11	221	7.2	17			244	53	69	RR
(B-6-3)15dad	7/26/55*	687			12	7.7	114		23	267	27	67			399	63	73	RR
(B-6-3)15dad	8/5/55*	614			32	15	62		13	229	12	65			323	142	46	RR
(B-6-3)15dad	8/20/55*	781			21	6.8	13		3.1	286		110			451	80	79	RR
(B-6-3)16dab-1	9/16/53	396	26		17	6.2	62		4.7	200	1.9	25	.2	4.0	231	69	64	RR
(B-6-3)17caa-1	7/28/55	609			21	7.4	93		6.6	d/195	6.7	90			340	83	69	RR
(B-6-3)17dba-1	4/25/55	414			16	6.5	68		6.3	214	9.6	26	.4		256	66	67	RR
(B-6-3)18abd-1	4/25/55	2,480			17	11	489		23	260	50	649	.7		1,360	89	90	RR
(B-6-3)19abc-1	7/26/55	574			7.4	4.0	114		9.0	279	8.6	41	.0		337	35	84	RR
(B-6-3)19abc-1	11/3/55		17		0.0	11		125		g/296	14	39	.8	1.0	348	38	86	FE
(B-6-3)19acc	9/27/55	2,060			76	14	301		9.8	149	1.4	557			1,150	246	72	RR
(B-6-3)19cc	9/15/53	14,200	32		613	156	2,260		71	415	14	4,500	.6	2.1	9,260	2,170	68	RR
(B-6-3)20bcc-1	9/15/53	404	36		9.2	3.2	74		5.9	221	1.0	20		6.2	242	36	79	RR
(B-6-3)20ddd	7/28/55	386			10	3.2	64		12	212		17			212	38	72	RR
(B-6-3)21acc-1	4/25/55	530			13	5.9	95		7.8	257		45	.5		315	57	76	RR
(B-6-3)22aaa-1	9/15/54	408	23		13	8.1	60		8.2	229	.5	19	.0	.3	232	67	63	RR
(B-6-3)22acb-1	9/29/55	427			13	9.0	58		16	241		17			259	70	58	RR
(B-6-3)23bad-1	9/15/54	389	24		17	6.3	56		3.5	199		19	.2	.2	212	69	62	RR
(B-6-3)23bcc-1	10/7/54	353					45		3.1	f/185	1.4						54	RR
(B-6-3)23ccc-1	7/29/55	403			19	9.6	50		7.8	217	2.9	18			232	86	53	RR
(B-6-3)24aab-1	4/26/55	466			11	4.6	93		2.3	248	4.8	29	.3		284	46	81	RR

*7/26/55 Aquifer depth: 298'

*8/5/55 Aquifer depth: 520'

*8/20/55 Aquifer depth: 827'

a Includes equivalent of 10 ppm CO₃b Includes equivalent of 13 ppm CO₃c Includes equivalent of 7 ppm CO₃d Includes equivalent of 10 ppm CO₃e Includes equivalent of 3 ppm CO₃f Includes equivalent of 7 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million													Percent Sodium	Analysis By	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
(B-6-2)25bbc-3	1/14/55	374	23		19	5.0	53		7.8	210	1.4	18	0.1	0.2	218	48	61	BR
(B-6-2)25bdc-1	5/13/43	376			20	5.5		60		212	0	21	.2	.1	211*	72	66	GS
(B-6-2)25ccc-1	5/13/43	2,400			178	43		233		172	0	700		.2	1,246*	621	46	GS
(B-6-2)25ccc-3	5/14/43	533			34	17		65		322	0	22	.3	.1	249*	159	48	GS
(B-6-2)26aaa-1	4/6/54	884	27		45	8.8	102		12	190	1.0	175		.2	467	148	58	GS
(B-6-2)26aac-1	5/14/43	949			70	18		97		230	0	191	.2	.5	496*	248	46	GS
(B-6-2)26ada-1	4/6/54	909	26		66	14	81		11	217	.5	180		.1	512	222	43	BR
(B-6-2)26aaa-1	1/14/55	438			40	9.9	46		8.6	244	20	22	.1		262	140	40	BR
(B-6-2)26dad-1	1/14/55	895	27		73	19	69		6.3	171	1.4	193		.6	505	260	36	BR
(B-6-2)27bab-1	10/11/54	596	25		47	8.5	51		12	248	.5	68	.3	.4	343	152	40	BR
(B-6-2)27bbe-1	10/11/54	1,220								172		301						BR
(B-6-2)27bbe-2	1/14/55	1,170	27		95	21	94		15	189	1.9	276			682	325	37	BR
(B-6-2)27bdc-2	10/10/54	1,200	33		23	7.7	195		14	270	1.4	249	.5	.0	647	89	80	BR
(B-6-2)27dcd-2	10/7/54	453	22		40	8.7	37		3.9	a/193	6.7	49	.0	.1	260	137	36	BR
(B-6-2)28ccd-1	11/25/55	371			34	9.0	32		2.7	192	7.2	21			218	123	35	BR
(B-6-2)28daa-2	10/7/54	415								193	.5	24						BR
(B-6-2)29ecd-2	3/4/54	449	25		37	9.6	38		9.0	233		31			269	132	37	BR
(B-6-2)29ecd-2	4/26/55	397			39	8.2	33		5.0	225	1.0	17	.2		252	132	34	BR
(B-6-2)30bcd-1	10/7/54	386	24		50	8.5	37		3.9	b/212	.5	18	.0	.6	228	111	41	BR
(B-6-2)32cda-2	11/25/55	628			9.6	3.7	123		5.5	256	6.7	69			376	39	86	BR
(B-6-2)32cda-2	1/26/56	623			9.6	3.5	121		6.3	275		69			360	39	85	BR
(B-6-2)33aba-1	11/25/55	366			38	9.3	26		3.1	196	5.3	20			220	134	29	BR
(B-6-2)34abb-1	4/26/55	376			39	9.8	28		2.3	193	19	18	.1		217	138	30	BR
(B-6-2)35abb-1	1/14/55	384	27		37	8.1	36		2.3	221	1.4	19			235	125	38	BR
(B-6-3)1aad-2	1/13/55	604	31		5.6	4.6	127		7.8	310	3.4	48	.3		363	33	87	BR
(B-6-3)1daa-2	7/1/55	586			6.2	4.0	118		7.0	c/293		44	.3		349	32	86	BR
(B-6-3)5dca-1	7/28/55	441			7.0	3.7	84		10	244		21			261	33	80	BR
(B-6-3)7acd-1	7/28/55	550			5.0	2.8	107		15	261		44			350	24	84	BR
(B-6-3)7bdc-1	7/28/55	2,550			18	12	473		23	262		654			1,320	93	89	BR
(B-6-3)10aac-1	7/26/55	446			7.4	4.3	87		9.0	235	12	22			277	36	80	BR

a Includes equivalent of 11 ppm CO₃

b Includes equivalent of 9 ppm CO₃

c Includes equivalent of 7 ppm CO₃

Well Coordinate Number	Date of Collection	Specific Conductance (Microhmhos at 25° C.)	Chemical Analysis in parts per million														Percent Sodium	Analysis by	
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na+K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
(B-7-2)28abc-	6/28/55	4,300			184	75	524		4.2	160	18	1,280	0.0			2,560	769	58	BR
(B-7-2)28cba-1	6/28/55	1,230			47	18	170		4.7	170	45	270	.3			645	190	65	BR
(B-7-2)31cbd-1	6/28/55	2,810			14	15	534		18	353	9.1	696	.3			1,450	96	91	BR
(B-7-2)31dco-2	4/11/50		27	0.0	96	42		203		124	.3	534	.0	0.1		1,044	415	52	PH
(B-7-2)31dco-2	5/27/54	1,940	32		97	39	193		15	157	8.6	518		.4		1,120	403	50	BR
(B-7-2)32aca-1	9/16/53	890	24		34	8.2	128		2.7	221		165	.3	.6		468	120	69	BR
(B-7-2)32ada-1	4/11/50		31	.2	24	8.5		78		236	.3	48	.2	.1		319	95	64	PH
(B-7-2)32aab-1	5/27/54	667	50		28	8.5	103		4.7	239		92	.2	.2		400	105	67	BR
(B-7-2)33beb-1	4/11/50		21	.2	74	183		511		606	172	964	.2	2.6		2,380	936	54	PH
(B-7-2)33beb-2	4/11/50		20	1.0	116	32				199	.1	755	.1	.1		1,472	422		PH
(B-7-2)34bbc-1	6/28/55	1,980			46	12	306		51	300	1.0	460	.5			1,040	165	74	BR
(B-7-2)34dcc-1	6/30/55	785			40	28	80		2.1	367	38	53	.6			454	213	42	BR
(B-7-2)35ada-1	4/5/55	312			33	9.4	24		2.0	178	17	8.2	.1			173	120	30	BR
(B-7-2)35dad-2	6/30/55	376			34	11	29		3.9	212		21	.4			228	129	32	BR
(B-7-2)36cca-2	5/27/54	1,770	23		64	67	213		18	638	68	239				1,010	435	50	BR
(B-7-2)36cca-5	5/27/54	1,390	23		48	23	195		18	302		288	.1	.5		721	214	64	BR
(B-7-2)36cdd-1	3/3/54	319	22		34	9.6	16		2.0	181	5.8	9.6	.2	1.4		179	66	22	BR
(B-7-3)25cdc-2	4/26/55	1,380			16	12	253		12	253	9.1	308	.5	.0		743	88	84	BR
(B-7-3)32daa	5/26/54	825	29		8.2	4.0	78		8.6	232	4.3	13	.4	.1		262	37	78	BR
(B-7-3)33add-1	6/26/55	649			6.6	4.3	141		9.0	377	2.9	29	.0	.0		406	34	87	BR
(B-7-3)33cdd-	5/26/54	653	27		6.8	2.9	139		9.0	378	4.3	31	.2	.1		413	29	88	BR
(B-7-3)35add-1	5/26/54	1,360	28		18	9.3	234		13	174	4.3	334	.1	.6		700	83	84	BR
(B-7-3)35cdd-1	6/26/55	802			1.8	2.9	189		8.2	443	8.2	46	.0	.0		493	17	94	BR
(B-7-3)35daa-1	3/4/54	1,850	28		.6	3.4	423		13	780		217	.1	.5		1,080	16	97	BR
(B-7-3)36bcc-1	5/26/54	983	26		11	6.8	178		9.4	223	3.4	205	.1	.4		534	57	85	BR
(B-7-3)36ccc-1	4/4/55	964			12	7.9	178		7.8	226		195	.5			516	62	84	BR

a Includes equivalent of 50 ppm CO₂

Well Coordinate Number	Date of Collection	Specific Conductance (Microhms at 25° C.)	Chemical Analysis in parts per million												Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis by
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Me+ K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)				
(B-6-3)24cab-2	4/26/55	448			25	12	56		7.8	253	4.8	22	0.2		273	113	50	BR
(B-6-3)25ebb-1	10/7/54	354	22		27	6.7	38		2.3	a/191	2.9	18	.0	0.2	220	96	45	BR
(B-6-3)25ddd-1	8/2/55	404			35	12	32		5.5	b/328	1.4	19			232	139	32	BR
(B-6-3)26bbb-1	3/4/54	372	22		20	7.6	47		2.7	195	2.9	24	.2	.1	214	81	55	BR
(B-6-3)27bdb-1	7/29/55	373			22	8.5	43		6.6	206		17			212	89	49	BR
(B-6-3)35abc	4/25/55	570			8.0	3.9	117		8.2	287	6.2	42	.7		346	36	85	BR
(B-6-4)13c	9/15/53	4,920	26		9.2	2.1	1,060		21	c/800	.5	1,230	1.4	2.7	2,780	110	94	BR
(B-7-1)18	8/9/44		22		46	9.6		31.		113	91	17	.1	12	242	153	30	PH
(B-7-1)22abc-DVS	2/26/51		7.0	0.05	35	5.8		7.2		105	14	4.9	.2	.4	130	112	12	PH
(B-7-1)22abc-DVS	4/5/55	263			33	11	4.6		.8	137	18	5.3			136	128	7	BR
(B-7-1)29cbb-3	4/21/54	354								175	11	13			212			BR
(B-7-1)30	4/21/54	604	22		84	18	19		.8	348	30	15	.1		361	286	13	BR
(B-7-1)31bdb-1	3/2/54	296	21		35	8.1	11		.8	162	4.8	9.6	.0	1.3	177	105	17	BR
(B-7-1)32aac-3	4/21/54	297	15		39	7.3	7.6		.4	169		7.1			178	129	11	BR
(B-7-1)32cdd-2	5/27/54	280	18		36	7.3	9.7		.8	160	6.7	7.1			158	120	15	BR
(B-7-1)32ddd-5	4/21/54	412	14		39	15	18		3.9	251	1.0	12			218	158	19	BR
(B-7-1)33cad-2	5/27/54	300	14		40	10	6.7		.8	d/175	9.1	7.1			166	144	9	BR
(B-7-1)33cbd-1	4/21/54	298	15		40	9.6	6.4		.4	170	5.8	7.5		1.6	173	140	9	BR
(B-7-1)34bcc-DVS	2/26/51		6.0	.00	48	20		18		261	12	6.1	.3	.4	214	201	16	PH
(B-7-1)34cbe-1	5/27/54	403	11		47	20	6.9		.8	231	17	9.6		4.4	215	199	7	BR
(B-7-2)4dc	11/18/11			9	1,174	28		8,563		188	203	15,079						BR
(B-7-2)4dc	11/3/51	37,200	41	.03	1,190	46	7,720	1,100		199	200	14,800	2.7		25,200*	3,160	78	GS
(B-7-2)4dc	3/2/54	28,300	33	.08	859	39	5,550	742		190	181	10,800	2.6	6.5	18,900	2,300	78	GS
(B-7-2)20dan	3/4/54	1,290	22	.48	12	9.6	238	34		418	1.2	205	.9	1.0	739	70	82	GS
(B-7-2)21dcc-1	4/11/50		31	.20	42	21		384		270	.2	570	.1	.3	1,191	193	30	GS
(B-7-2)22cac-1	6/27/55	1,080			18	8.1	64		32	331		172	.7		591	78	77	BR
(B-7-2)23cad-1	6/30/55	547			38	6.0	64		11	228	8.6	55	.3		316	119	51	BR
(B-7-2)23cad-2	6/30/55	510			23	6.3	78		11	276		32	.6		308	83	63	BR
(B-7-2)26dac-1	3/3/54	404	53		34	7.3	43		3.9	269	2.9	7.1	.4	.2	271	115	44	BR
(B-7-2)27ead-2	6/27/55	2,030			40	12	336		27	312		471	.4	.0	1,040	150	80	BR

a Includes equivalent of 10 ppm CO₃b Includes equivalent of 9 ppm CO₃c Includes equivalent of 63 ppm CO₃d Includes equivalent of 20 ppm CO₃

ARRANGEMENT OF THE DATA

The surface water quality data are arranged by major drainage basins into two sections, (1) the Colorado River Basin, and (2) the Great Basin and Snake River Basin. Within each basin the analyses are grouped into two parts, (1) daily and weekly sampling stations, and (2) miscellaneous sampling points.

Beginning with the uppermost station on the main stem or tributary of a stream entering or originating in Utah, all stations or sampling points are listed as they occur in sequence or downstream order. Sampling stations on the main stem are placed in similar order between tributaries. The downstream listing of each tributary to the main stem begins at the origin of the tributary and ends at the junction with the main stem. In turn, each branch of the tributary is treated in a similar manner.

The relative location of daily and weekly sampling stations in the Colorado River Basin is shown in Figure 32, p. 198. With reference to this figure, the arrangement of the first four stations in downstream order is:

Dolores River near Cisco, Utah

Colorado River near Cisco, Utah

Henrys Fork near Linwood, Utah

Green River near Greendale, Utah

Virgin River at Virgin is the only station that has been operated on a daily sampling basis in the Lower Colorado River Basin in Utah. Four other downstream stations in this basin have been operated on a weekly sampling basis.

In the Great Basin of Utah the only daily station is the Sevier River at Lyndyl (Figure 33, p. 253).

The data for miscellaneous sampling points in the Great Basin and Snake River Basin in Utah have been separated into two parts, (1) Great Salt Lake and Snake River drainage basins, and (2) Sevier Lake and other drainage basins. The downstream order applies to tributaries within each of these basins and in a clockwise sequence with reference to closed basins, (Great Salt Lake, Sevier, Beaver, Little Salt Lake, etc.).

Beginning with the Bear River drainage basin the tributaries to Great Salt Lake are listed in the above clockwise direction southward to the Jordan River and hence around to southwest, then northwest drainage areas.

The few samples from Snake River Basin are listed following the Great Salt Lake Basin.

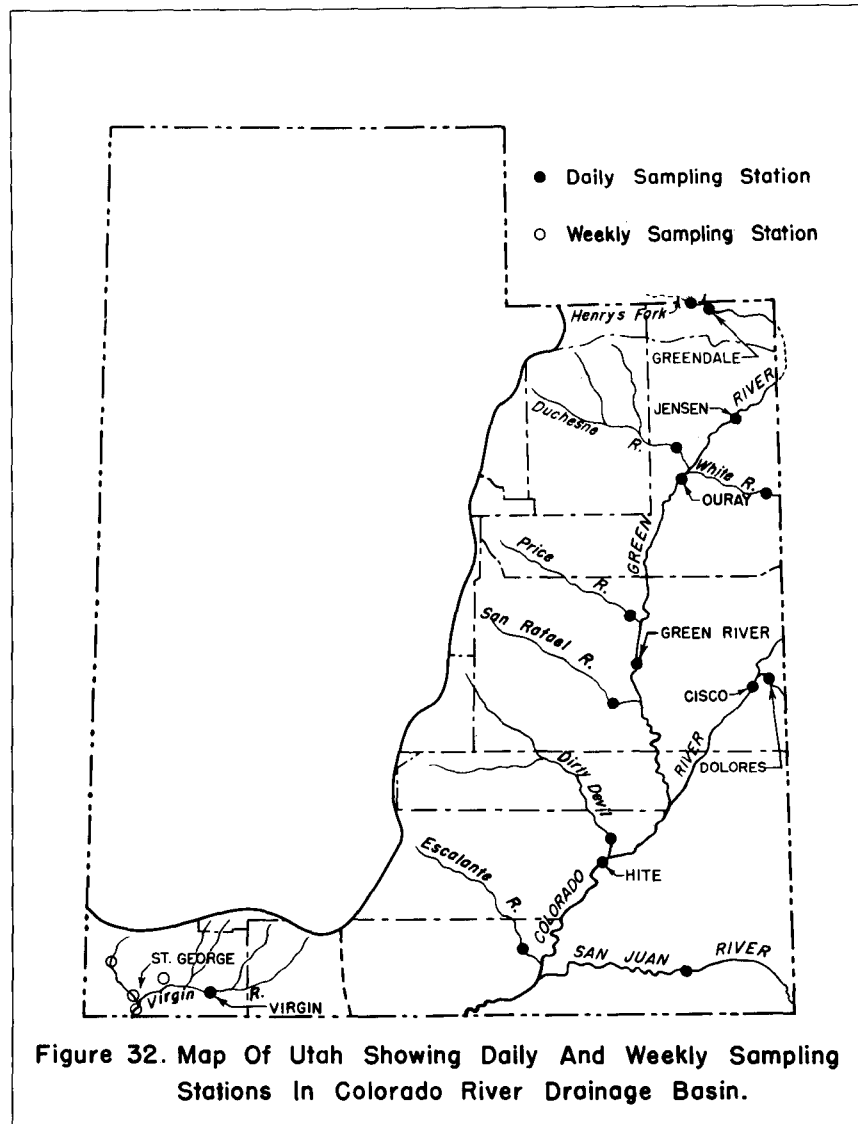
Data for miscellaneous points in the Sevier River Basin, beginning with Assay Creek, are listed in downstream order, followed by the data for Scipio Lake Reservoir, Pavant valley, Beaver River Basin, and Little Salt Lake Basin.

CHEMICAL ANALYSES

The tables of chemical analyses show dates, water discharges, physical properties, mineral constituents, salt loads, and other information. One type of form is used for daily and weekly station data and another type for miscellaneous data.

Information about the location, drainage area, available records, extremes, and discharge records precedes the tabulated data for daily and weekly stations. For the period prior to the last complete year of record

**CHEMICAL ANALYSES
OF
SURFACE WATERS
IN
UTAH**



a summary is shown for each year of operation. This summary includes the maximum, minimum, and average (or weighted average) analysis and the mean water discharge figures for each water year.

Also included on the above forms are records of daily salt loads, in tons per acre-foot, or tons per day, or both, and values for boron where available. Beginning with 1952, values are shown for "sodium-adsorption-ratio" in addition to "percent sodium." Calculated values for sodium and potassium are shown **between** the Na and K columns. Determined values are listed under each heading.

The arrangement of the various chemical constituents and properties is similar for both types of forms with the above exceptions. On the miscellaneous sampling data form, no column is provided for carbonate (CO_3). When present, the value for this constituent is shown in footnotes.

Stream discharge values are shown where available, and no estimated figures are included.

The two-letter code for reference to the origin of the analyses appears on page 30.

DOLores RIVER BASIN—Continued
DOLores RIVER NEAR CISCO, UTAH—Continued

Chemical analyses, in parts per million, water year October 1954 to September 1955

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent adsorption	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate					
Oct. 1-6, 8-9, 1954	438	10	0.28	146	42	208	13	143		489	242	0.5	17		1,240	1.69	1,470	537	420	45	3.9	1,880	7.3	
Oct. 7a	258	—	—	—	—	—	—	149		567	650	—	—		—	—	—	628	506	—	—	—	3,130	7.2
Oct. 10a	1,140	—	—	—	—	—	—	191		329	65	—	—		—	—	—	384	227	—	—	—	1,080	7.3
Oct. 11-19	535	14	—	182	39	121	9.9	158		534	132	—	11	0.07	1,120	1.52	1,010	620	430	29	2.1	1,600	7.3	
Oct. 21-31	185	9.7	—	118	45	306	16	125		417	420	—	30	—	1,420	1.93	709	480	377	57	6.1	2,330	7.3	
Nov. 3, 5, 8, 10, 12, 15	159	7.3	—	126	55	556	34	120		469	835	—	29	.08	2,170	2.95	932	540	442	67	10	3,610	7.6	
Nov. 17, 18, 22, 24, 29	138	9.0	—	130	59	644	37	116		490	960	—	37	.10	2,420	3.29	902	567	472	69	12	4,020	7.4	
Dec. 1, 6, 8, 10, 15	136	6.4	—	132	67	735	44	140		537	1,120	—	28	.10	2,740	3.73	1,010	605	490	71	13	4,550	7.3	
Dec. 3, 13	133	6.8	—	155	80	1,390	77	103		596	2,220	—	45	—	4,620	6.28	1,660	716	631	79	23	7,550	7.6	
Dec. 17, 20, 22, 27, 29	85.0	12	—	150	74	1,020	48	153		565	1,540	—	36	.17	3,520	4.79	789	679	554	75	17	5,740	7.4	
Jan. 3, 5, 7, 12, 14, 1955	104	12	—	134	57	763	39	153		446	1,180	—	28	.12	2,730	3.71	767	569	444	73	14	4,630	7.3	
Jan. 17, 18, 21, 28, 31	87.0	9.1	—	134	54	772	35	144		439	1,180	—	34	.19	2,730	3.71	641	556	438	74	14	4,600	7.1	
Feb. 2, 4, 7, 9, 11, 14, 16	104	6.5	—	123	49	727	34	146		411	1,080	—	63	.15	2,570	3.50	722	508	389	74	14	4,530	7.3	
Feb. 18, 21, 23, 25, 28	102	6.5	—	102	38	427	21	139		398	655	—	11	—	1,630	2.22	753	410	296	68	9.2	2,630	7.3	
Mar. 2a	680	5.2	—	—	—	—	—	138		200	635	—	15	—	—	—	—	382	252	—	—	—	2,710	7.1
Mar. 4, 9, 11, 14	894	7.0	—	87	26	156	12	158		225	218	—	9.5	.10	818	1.11	1,970	324	194	50	3.8	1,390	7.3	
Mar. 16, 18, 21, 23	364	10	—	118	38	262	15	162		359	362	—	16	.08	1,260	1.71	1,240	450	318	55	5.4	2,040	7.7	
Mar. 25, 28	222	9.1	—	126	49	484	26	166		408	720	—	21	—	1,930	2.62	1,160	516	380	66	9.3	3,230	7.3	
Apr. 6-10, 13, 15	355	9.7	—	94	31	218	12	156		279	305	—	16	.06	1,040	1.41	997	362	234	56	5.0	1,740	7.4	
Apr. 18, 22, 25-30	2,950	13	—	46	13	42	4.2	123		74	63	—	3.5	.06	320	.44	1,770	168	68	34	1.4	557	7.6	
May 2, 6-10	2,530	7.3	—	54	11	35	3.7	147		71	43	—	3.5	—	300	.41	2,050	180	59	29	1.1	511	7.5	
May 11-20	2,031	8.5	—	52	11	32	3.3	137		69	39	—	3.1	.05	285	.39	1,560	174	62	28	1.1	487	7.5	
May 21-31	1,373	7.6	—	52	13	45	4.8	126		92	58	—	4.1	—	338	.46	1,250	183	80	34	1.4	578	7.5	
June 1-10	1,236	8.3	—	54	13	59	4.4	129		97	81	—	5.5	—	386	.52	1,290	188	82	40	1.9	657	7.4	
June 11-20	1,392	9.1	—	52	10	37	3.3	116		87	50	—	4.4	.05	310	.42	1,170	170	76	32	1.2	524	7.5	
June 21-30	695	7.9	—	59	15	94	6.2	99		136	140	—	6.3	—	513	.70	963	208	128	49	2.3	888	7.3	
July 1-2, 4, 6-7, 9	302	8.4	—	77	22	168	9.3	95		134	255	—	12	.07	793	1.08	647	282	204	55	4.4	1,350	7.5	
July 10-20	170	6.5	—	102	33	286	17	91		309	440	—	20	.10	1,260	1.71	778	390	316	60	8.3	2,150	7.3	
July 21-28, 31	147	9.3	—	126	44	349	20	106		450	500	—	28	—	1,580	2.15	627	496	408	59	6.8	2,540	7.3	
July 29-30	230	17	—	190	78	636	29	140		726	915	—	29	—	2,690	3.66	1,670	794	680	62	9.8	4,250	7.6	
Aug. 1	152	13	—	523	93	289	—	236		1,690	245	—	2.8	—	2,970	4.04	1,220	1,690	1,490	27	3.1	3,550	7.0	
Aug. 2-10	345	16	—	237	49	185	14	154		729	218	—	18	—	1,540	2.09	1,430	793	667	33	2.9	2,150	7.4	
Aug. 12-13, 16-18, 20	274	15	—	172	40	199	14	150		515	255	—	21	.09	1,300	1.77	962	594	470	41	3.5	1,950	7.4	
Aug. 14, 19	430	17	—	364	59	307	20	186		1,050	410	—	47	—	2,370	3.22	2,750	1,150	998	36	3.9	3,160	7.3	
Aug. 15	254	13	—	86	25	116	—	198		217	132	—	3.2	—	690	.94	473	318	156	44	2.8	1,150	7.1	
Aug. 21-26	199	14	—	231	49	210	15	135		699	282	—	23	—	1,590	2.16	854	778	668	36	3.3	2,280	7.3	
Aug. 27-30	236	14	—	121	36	127	11	145		363	160	—	21	—	924	1.26	589	450	331	37	2.6	1,400	7.5	
Aug. 31	156	13	—	150	57	717	31	120		444	1,130	—	29	—	2,630	3.58	1,110	609	510	71	13	4,400	7.8	
Sept. 1-3	115	12	—	136	49	281	17	134		480	375	—	34	—	1,450	1.97	450	541	431	52	5.3	2,240	7.3	
Sept. 5-10	66.7	11	—	183	76	614	34	95		713	895	—	50	—	2,620	3.56	472	769	601	62	9.6	4,190	7.0	
Sept. 11-18, 20	47.0	7.9	—	223	101	917	49	89		928	1,400	—	49	.20	3,720	5.06	472	972	899	66	13	5,970	7.0	
Sept. 19	43.0	8.2	—	171	36	336	21	131		449	540	—	16	—	1,640	2.23	190	574	467	55	6.1	2,790	7.0	
Sept. 21-20	42.2	6.5	—	254	141	1,160	68	62		1,210	1,820	—	25	—	4,720	6.42	532	1,210	1,160	66	14	7,520	6.7	
Weighted average	5567	9.4	—	78	21	119	8.1	131		190	166	—	8.8	—	665	0.90	1,020	281	174	47	3.1	1,080	—	

aNot included for computation of weighted averages.

bRepresents 76 percent of runoff for water year October 1954 to September 1955.

DOLORES RIVER BASIN
DOLORES RIVER NEAR CISCO, UTAH

LOCATION—At gaging station, 9 miles upstream from mouth and 1½ miles southeast of Cisco, Grand County.
 RECORDS AVAILABLE.—October 1931 to September 1933, March 1941 to September 1955. Water temperatures: March 1951 to September 1955.
 EXTREMES, 1951-52, 1953-55.— Dissolved solids (1953-55) Maximum, 4,720 ppm Sept. 21-30, 1955; minimum, 285 ppm May 11-20, 1955. Hardness (1953-55): Maximum, 1,690 ppm Aug. 1, 1955; minimum, 168 ppm Apr. 18, 22, 25-30, 1955. Specific conductance: Maximum daily, 8,400 micromhos Sept. 25, 1955; minimum daily, 254 micromhos May 8, June 16, 1952. Water temperatures: Maximum observed, 81° F Sept. 1, 1953, Aug. 2, 1955; minimum observed, freezing point on many days during winter months.
 REMARKS.— Values reported for dissolved solids are sums of determined constituents. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply Paper 1393.

Date of collection	Mean dis-charge (cfs)	Silica (SiO ₂)	Iron (Fe)	Cal-cium (Ca)	Mag-ne-sium (Mg)	So-dium (Na)	Po-tas-sium (K)	Bicar-bonate (HCO ₃)	Car-bonate (CO ₃)	Sul-fate (SO ₄)	Chlo-ride (Cl)	Fluo-ride (F)	Ni-trate (NO ₃)	Bo-ron (B)	Dissolved solids			Hardness as CaCO ₃		Per-cent so-dium	So-dium adsorp-tion ratio	Specific conduct-ance (micro-mhos at 25°C)	pH
															Parts per mil-lion	Tons per acre-foot	Tons per day	Calcium-mag-nesium	Non-carbon-ate				
Water year 1932																							
Maximum, Sept. 16, 1932 -		6.4	0.10	134	80	905	34	193		477	1,450		0.5		3,180	4.32		664	506	74			
Minimum, May 21, 1932 -		10	.16	46	8.6	18	2.6	139		46	18		.7		219	.30		150	36	20			
Water year 1933																							
Maximum, Oct. 22, 1932 -		5.2	.10	141	101	926	38	201		598	1,440		1.5		3,350	4.55		768	603	71			
Minimum, June 5, 1933 -		8.8	.12	48	7.3	19	1.4	128		48	17		1.5		215	.29		150	45	22			
Water year 1951																							
Maximum, Mar. 8-13, 1951	138	6.9		123	62	1,040		174		398	1,610		5.7		3,330	4.53	1,240	562	420	80		5,760	7.5
Minimum, June 1-10, 1951	944	8.2		60	12		68	141		102	88		1.9		410	.56	1,050	199	84	43		682	7.7
Weighted average ----	347																					1,440	
Water year 1952																							
Maximum, Nov. 22-30, Dec. 1, 1951 -----	99.2	8.4		128	64	825		158		454	1,250		15		2,820	3.84	760	582	453	75	15	4,750	7.5
Minimum, June 11-20, 1952	4,731	7.2		37	6.7	15		116		35	14		1.0		173	.24	2,210	120	25	21	.6	289	7.7
Weighted average ----	1,758																					542	
Water year 1953																							
Maximum, Feb. 15-16, 1953	154	11	.07	125	65	1,110	54	189		396	1,800	0.3	9.2	0.13	3,660	4.98	1,520	580	424	79	20	6,240	8.2
Minimum, June 1-8, 1953	1,986	9.6	.03	48	9.1	23	2.3	125		68	28	.5	2.0	.06	252	.34	1,350	158	55	24	.8	416	8.1
Water year 1954																							
Maximum, Oct. 1-9, 1953, 1954 -----	43.9	4.3	.08	231	131	1,120	60	134		1,050	1,670	.6	30	.26	4,360	5.93	517	1,120	1,000	67	15	6,780	7.1
Minimum, May 24, 1954	1,270	10	.10	64	12	34	2.5	154		89	43	.2	2.4		333	.45	1,140	209	83	26	1.0	562	7.6
Weighted average ----	307	8.3	.09	96	32	222	13	136		286	316	.4	15		1,050	1.43	870	371	260	55	5.0	1,730	

COLORADO RIVER MAIN STEM—Continued

COLORADO RIVER NEAR CISCO, UTAH—Continued

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonylate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25° C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium magnesium	Non-carbonate				
Water year 1937																							
Maximum, Sept. 21-30, 1937	1,830														1,860								
Minimum, May 11-20, 1937	34,700														279								
Weighted average -----	6,383														690								
Water year 1938																							
Maximum, Oct. 1-10, 1937	2,450														1,670								
Minimum, June 1-10, 1938	48,600														236								
Weighted average -----	10,250														546								
Water year 1939																							
Maximum, Aug. 20-31, 1939	1,282														2,350							2,820	
Minimum, May 21-31, 1939	20,640														291							451	
Weighted average -----	5,873														734								
Water year 1940																							
Maximum, Aug. 11-20, 1940	785														2,670								
Minimum, May 11-20, 1940	22,030														324								
Weighted average -----	4,771														836								
Water year 1941																							
Maximum, Sept. 1-10, 1941	1,858														1,831								
Minimum, May 11-20, 1941	50,840														279								
Average -----	9,085														1,056								
Water year 1942																							
Maximum, Sept. 1-10, 1942	1,804														1,985								
Minimum, June 1-10, 1942	39,200														264								
Average -----	10,640														952								
Water year 1943																							
Maximum, Oct. 11-20, 1942	2,745														1,828								
Minimum, June 11-20, 1943	21,680														270								
Average -----	7,094														1,036								
Water year 1944																							
Maximum, Sept. 11-20, 1944	1,606	17		192	92	298		220		984	205		14		1,910	2.60	8,280	858	677	43		2560	
Minimum, June 11-20, 1944	31,720			49	7.4	24		130		72	16		.5		233	.32	20,000	153	46	25		409	
Water year 1945																							
Maximum, Oct. 11-20, 1944	2,618	14		165	76	236		231		760	175		13		1,550	2.11	11,400	724	535	42		2190	
Minimum, May 11-20, 1945	27,420	10		50	12	27		158		74	18		1.4		270	.37	20,000	174	45	25		459	7.7

COLORADO RIVER MAIN STEM
COLORADO RIVER NEAR CISCO, UTAH

LOCATION.—At gaging station, 1 mile downstream from Dolores River, 11 miles south of Cisco, Grand County.

DRAINAGE AREA.—24,100 square miles, approximately.

RECORDS AVAILABLE.—Chemical analyses: August 1928 to September 1955. Water temperatures: May 1949 to September 1955.

EXTREMES (1928-52, 1953-55).—Dissolved solids: Maximum, 2,670 ppm Aug. 11-20, 1940; minimum, 202 ppm June 11-20, 1933. Hardness (1928-35, 1943-52, 1953-55): Maximum, 1,090 ppm Sept. 1-10, 1934; minimum, 131 ppm June 11-20, 1952. Specific conductance (1941-52, 1953-55): Maximum daily, 4,100 micromhos Sept. 30, 1946; minimum daily, 310 micromhos June 15, 1952. Water temperatures (1949-52, 1953-55): Maximum observed, 81° F Aug. 5, 1949; minimum observed, freezing point on many days during winter months.

REMARKS.—Values reported for dissolved solids are residues on evaporation. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water Supply Paper 1393.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium-magnesium	Non-carbonate				
Water year 1929																							
Maximum, Oct. 1-10, 1928	2,860	18	0.05	163	72	226	6.7	209		794	133		22		1,540	2.09	11,900	703	532	41			
Minimum, June 11-20, 1929	40,500	17	.24	40	10	16	5.0	100		68	12		1.8		219	.30	29,300	141	59	19			
Weighted average	11,800	16	.25	66	25	62	5.3	142		216	39		4.6		503	.68	16,300	268	151	33			
Water year 1930																							
Maximum, Sept. 21-30, 1930	3,450	15	.08	158	68	225	4.2	222		743	138		26		1,490	2.02	13,800	674	492	42			
Minimum, June 11-20, 1930	30,500	11	.08	43	11	25	2.4	118		84	17		2.1		254	.35	20,900	152	56	26			
Weighted average	8,420	14	.14	73	28	60	4.4	156		254	55		6.1		593	.81	13,500	297	169	36			
Water year 1931																							
Maximum, Sept. 1-10, 1931	1,060	9.8	.18	221	108	398	9.3	219		1,220	279		35		2,390	3.25	6,820	996	816	46			
Minimum, June 21-30, 1931	7,610	9.6	.04	58	17	49	3.4	124		159	36		4.9		398	.54	8,170	214	113	33			
Weighted average	3,960	13	.07	102	43	147	4.4	182		426	107		18		950	1.29	10,100	432	282	42			
Water year 1932																							
Maximum, Sept. 21-30, 1932	2,160	14	.10	185	90	273	5.1	219		952	168		22		1,820	2.47	10,600	832	652	41			
Minimum, May 21-31, 1932	39,000	14	.08	43	11	21	2.2	124		73	14		2.2		242	.33	25,500	152	51	23			
Weighted average	9,210	13	.09	69	25	72	3.5	152		228	48		6.0		540	.73	13,400	275	150	36			
Water year 1933																							
Maximum, Sept. 1-10, 1933	1,539	7.0	.08	183	102	298	5.9	200		1,050	176	0.4	24		1,940	2.64	8,040	876	712	42			
Minimum, June 11-20, 1933	37,610	7.6	.12	39	8.3	19	2.4	97		68	11		1.8		205	.28	20,900	132	52	23			
Weighted average	6,400	12	.11	75	29	86	3.8	144		273	59		6.6		616	.84	10,600	306	188	38			
Water year 1934																							
Maximum, Sept. 1-10, 1934	890	16	.02	222	131	397	7.0	231		1,320	263	.3	28		2,500	3.40	5,600	1,090	903	44			
Minimum, May 11-20, 1934	14,000	12	.08	47	14	39	1.9	105		130	26	.1	2.8		325	.44	12,300	175	89	32			
Weighted average	3,070	14	.07	105	48	154	5.4	172		474	109		11		1,010	1.37	8,310	460	318	42			
Water year 1935																							
Maximum, Nov. 1-10, 1934	1,420	17	.19	202	100	339	9.6	251		1,040	251	.2	25		2,110	2.86	8,070	915	710	44			
Minimum, June 11-20, 1935	45,000	13	.24	37	11	15	3.2	98		62	11	.0	1.5		202	.27	24,500	138	57	19			
Weighted average	6,466	14	.10	75	28	81	3.8	148		256	60	.2	5.5		596	.81	10,400	302	180	36			
Water year 1936																							
Maximum, Dec. 21-31, 1935	2,100							249		661	194	.7	5.4		1,540	2.09	8,790				2010		
Minimum, May 21-31, 1936	35,200														224	.30	21,300				346		
Weighted average	7,942														568	.77	12,200						

COLORADO RIVER MAIN STEM--Continued

COLORADO RIVER NEAR CISCO, UTAH--Continued

Chemical analyses, in parts per million, water year October 1954 to September 1955

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium-magnesium	Non-carbonate				
Oct. 1-10, 1954	3,603	15		158	57	163	6.3	221		598	130		8.1		1,240	1.69	12,060	628	448	36	2.8	1,760	7.4
Oct. 11-20	3,927	15		148	49	145	6.0	215		543	105		6.1	0.12	1,120	1.52	11,880	571	395	35	2.6	1,590	7.6
Oct. 21-31	3,023	12		134	54	163	5.8	208		522	139		9.8		1,140	1.55	9,300	556	386	39	3.0	1,660	7.9
Nov. 1, 3, 5, 8, 10, 12, 15	2,776	11		134	54	205	8.0	207		532	204		12		1,260	1.71	9,440	556	387	44	3.8	1,890	7.8
Nov. 17, 19, 22, 24, 29	2,576	15		130	56	206	7.0	172		555	204		11		1,270	1.73	8,890	555	414	44	3.8	1,900	7.9
Dec. 1, 3, 6, 8, 10, 13, 15	2,484	15		130	58	232	8.6	192		560	238		10	.12	1,350	1.84	9,050	563	406	47	4.2	2,040	7.6
Dec. 17, 20, 22, 27, 29, 31	2,038	14		142	60	258	9.3	224		577	277		10		1,460	1.99	8,030	601	418	48	4.6	2,220	7.6
Jan. 5, 7, 14, 17, 19, 1955	2,384	19		123	54	256	8.4	184		501	283		10	.22	1,350	1.84	8,690	529	378	51	4.8	2,090	8.2
Jan. 23, 24, 26, 28, 31	2,094	15		120	55	294	9.2	183		505	317		6.7	.22	1,390	1.89	7,860	526	377	53	5.2	2,190	7.7
Feb. 2, 4, 7, 9, 11, 14	2,132	15		114	52	257	9.2	171		485	299		10	.13	1,330	1.81	7,660	498	358	52	5.0	2,060	7.7
Feb. 16, 18, 21, 23, 25	2,182	10		116	49	246	9.2	186		473	269		8.9		1,270	1.73	7,480	491	338	52	4.8	1,970	7.5
Mar. 2, 4	3,375	7.4		102	38	257	13	159		355	339		12		1,200	1.63	10,940	410	280	57	5.5	1,990	7.6
Mar. 9, 11, 14	4,653	8.8		125	34	130	7.1	162		416	112		8.2	.10	921	1.25	11,520	452	320	38	2.7	1,380	7.5
Mar. 16, 18, 21, 23, 28, 31	2,663	16		114	46	183	7.3	200		430	190		10	.12	1,100	1.50	7,910	474	310	45	3.7	1,650	7.8
Mar. 25	2,320	12		62	18		63	139		144	70		5.2		442	.60	2,770	228	114	38	1.8	746	7.7
Apr. 2, 6-11, 13, 15	3,476	16		96	36	137	5.9	177		337	137		7.2	.09	859	1.17	8,060	388	242	43	3.0	1,310	7.6
Apr. 18, 20, 26-30	8,059	12		66	20	58	3.8	156		157	56		4.3	.06	454	.42	9,880	246	118	33	1.6	724	7.5
May 1-10	13,170	13		58	17	43	3.3	151		117	44		3.5		373	.51	11,950	214	91	30	1.3	598	7.8
May 11-20	13,640	12		58	16	33	2.7	142		113	32		3.2	.19	340	.46	12,520	210	94	25	1.0	538	7.7
May 21-31	13,900	11		60	18	43	2.7	134		145	43		3.3		392	.53	12,590	224	114	29	1.2	620	7.6
June 1-10	10,340	10		68	21	55	3.2	131		178	56		3.4		460	.63	12,840	256	148	31	1.5	695	7.8
June 11-20	13,900	11		58	16	37	2.2	128		133	32		5.0	.00	357	.49	13,400	210	106	27	1.1	566	7.6
June 21-30	10,500	9.9		61	19	52	2.2	126		171	45		4.6	.00	427	.58	12,110	230	127	33	1.5	673	7.6
July 1-10	5,061	11		87	29	82	3.6	145		268	81		4.5	.10	637	.87	8,700	336	217	34	2.0	990	7.6
July 11-20	2,529	10		118	44	125	4.8	162		416	123		6.0	.13	927	1.26	6,390	476	343	36	2.5	1,400	7.6
July 21-26, 28-31	2,928	16		144	56	165	7.1	183		568	148		13		1,210	1.65	9,570	590	440	37	2.9	1,720	8.0
July 27	2,890	19		265	81	205	11	196		1,090	121		5.5		1,850	2.52	14,440	994	834	31	2.8	2,360	7.9
Aug. 1-10	3,766	20		163	49	124	6.9	195		558	103		6.4		1,130	1.54	11,490	608	448	30	2.2	1,570	7.8
Aug. 11-20	2,941	17		162	54	148	7.1	205		587	118		9.4	.11	1,200	1.63	9,530	626	458	34	2.6	1,680	7.5
Aug. 21-31	2,381	17		177	62	169	7.4	202		695	129		13		1,370	1.86	8,610	696	531	34	2.8	1,880	7.9
Sept. 1-10	1,684	13		178	73	194	7.2	198		798	156		15		1,490	2.03	6,770	744	582	36	3.1	2,040	7.8
Sept. 11-20	1,541	11		204	88	229	7.5	184		917	185		16	.20	1,750	2.38	7,280	871	720	36	3.4	2,410	7.6
Sept. 21-30	2,207	16		191	73	207	6.5	213		776	165		12		1,550	2.11	9,240	776	602	36	3.2	2,150	7.6
Weighted average	45,137	13		93	32	95	4.4	159		301	88		6.0		709	0.96	9,830	364	233	36	2.2	1,060	

All figures are 81 percent of runoff for water year October 1954 to September 1955.

COLORADO RIVER MAIN STEM--Continued

COLORADO RIVER NEAR CISCO, UTAH--Continued

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium magnesium	Non-carbonate				
Water year 1946																							
Maximum, Sept. 11-20, 1946	1,954	15		200	87		243	217		961	140		11		1,760	2.39	9,290	856	678	38		2330	7.8
Minimum, June 11-20, 1946	23,190	11		51	13		31	149			20		1.3		293	.40	18,900	180	58	27		465	
Water year 1947																							
Maximum, Oct. 14-20, 1946	3,450	14		154	62		190	240		623	144		4.1		1,310	1.78	12,700	639	442	39		1850	7.9
Minimum, May 11-20, 1947	25,040	11		50	11		29	141		84	20		2.2		277	.38	19,200	170	54	27		443	7.8
Weighted average -----	8,358																					821	
Water year 1948			0.05											0.01									
Maximum, Sept. 11-18, 1948	1,774	15		197	89		248	218		922	175	0.5	11		1,760	2.39	8,430	858	679	39		2360	7.5
Minimum, June 11-19, 1948	26,010	11		58	12		21	156		95	8		1.4		283	.38	19,900	194	66	19		478	7.9
Weighted average -----	9,028																					823	
Water year 1949																							
Maximum, Oct. 12-19, 1948	2,693	16		148	72		255	195		714	218		10		1,530	2.08	11,100	666	506	45		2170	8.2
Minimum, May 11-20, 1949	21,490	12		50	12		33	148		88	22		2.1		292	.40	16,900	174	53	29		473	7.9
Weighted average -----	8,685																					815	
Water year 1950																							
Maximum, Aug. 21-31, 1950	1,488	13		189	86		236	208		879	172		11		1,690	2.30	6,790	825	654	38		2300	7.8
Minimum, June 11-20, 1950	21,350	11		48	13		30	131		96	22		1.4		286	.39	16,500	173	66	28		476	7.8
Weighted average -----	6,006																					1030	
Water year 1951																							
Maximum, Oct. 12-20, 1950	1,932	12		187	88	244		228		872	200		9.5		1,820	2.48	9,490	828	642	39		2370	
Minimum, June 21-30, 1951	23,010	16		48	12	28		118		99	24		1.4		295	.40	18,330	170	73	26		457	
Weighted average -----	5,152	15		85	32	99		159		291	90		4.3		726	.99	10,100	344	213	38		1040	
Water year 1952																							
Maximum, Oct. 21-31, 1951	3,078	15		164	65	204	8.5	216		683	185		8.9		1,490	2.03	12,380	676	500	39	3.4	1970	
Minimum, June 12-20, 1952	46,530	11		38	8.7	16	2.2	111		54	11		1.0		208	.28	26,130	131	40	21	.6	344	
Weighted average -----	11,380	13		63	20	54	3.3	148		162	45		2.6		452	.61	13,890	239	118	33	1.5	680	
Water year 1953																							
Maximum, Sept. 20-30, 1953	1,879	14		196	86	233	7.4	217		856	178		14		1,820	2.48	9,230	842	664	37	3.5	2330	7.8
Minimum, June 1-16, 1953	26,700	14		48	12	25	1.9	126		89	21		2.1		276	.38	19,900	170	66	24	.8	434	
Water year 1954																							
Maximum, Sept. 1-10, 1954	2,132	12		210	88	249	8.2	218		946	178		11		1,810	2.46	10,420	886	708	38	3.6	2390	7.3
Minimum, May 21-30, 1954	9,627	11		66	21	54	2.7	138		180	46		3.8		452	.61	11,750	251	138	32	1.5	718	7.6
Weighted average -----	3,297	13		120	47	148	5.8	181		457	130		8.0		1,020	1.39	9,120	493	344	39	2.9	1490	

GREEN RIVER BASIN—Continued
HENRY'S FORK AT LINWOOD, UTAH—Continued

Chemical analyses, in parts per million, water year October 1954 to September 1955

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25° C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Oct. 1-10, 1954	6.8	23		201	105	113	12	300		827	57		0.6	0.38	1,490	2.03	27.4	933	687	21	1.6	1,910	7.9
Oct. 11-20	7.6	24		201	104	109	12	300		827	53		.4	.33	1,480	2.01	30.4	929	683	20	1.6	1,900	8.0
Oct. 21-31	10.3	23		198	105	108	12	302		815	53		.3	.37	1,460	1.99	40.6	926	678	20	1.5	1,870	7.9
Nov. 1-10	13.4	22		185	93	95	11	308		702	46		.4	.32	1,310	1.78	47.4	844	592	19	1.4	1,730	8.0
Nov. 11-20	20.3	21		179	90	87	10	306		663	42		.2	.30	1,240	1.69	68.0	816	566	19	1.3	1,650	8.0
Nov. 21-30	16.5	24		171	90	97	9.9	273		694	44		.6	.32	1,260	1.71	56.1	796	573	21	1.5	1,660	8.1
Dec. 1-10	25.0	27		182	90	97	10	318		677	44		.6	.33	1,280	1.74	86.4	824	564	20	1.5	1,670	7.9
Dec. 11-20	25.0	25		169	85	82	9.7	318		608	39		.6	.27	1,180	1.60	79.5	771	510	19	1.3	1,550	8.0
Dec. 21-31	25.0	22		167	76	72	8.5	312		548	36		.4	.31	1,080	1.47	72.9	729	474	17	1.2	1,450	7.9
Jan. 1-10, 1955	25.0	21		157	73	68	8.1	291		529	34		.4	.25	1,030	1.40	69.5	692	453	17	1.1	1,390	7.9
Jan. 11-20	25.0	23		149	70	69	8.5	270		523	35		1.2	.17	1,010	1.37	68.2	660	439	18	1.2	1,360	7.7
Jan. 21-31	25.0	22		148	68	67	8.5	236		505	34		1.2	—	987	1.34	66.6	649	428	18	1.1	1,340	7.7
Feb. 1-10	30.0	21		140	63	60	7.7	269		451	32		3.3	—	911	1.24	73.8	608	388	17	1.1	1,250	7.6
Feb. 11-20	30.0	21		132	60	56	7.2	264		422	30		1.4	.17	860	1.17	69.7	576	360	17	1.0	1,190	7.7
Feb. 21-28	30.0	21		134	63	53	5.8	268		424	30		.8	.23	864	1.18	70.0	594	374	16	.9	1,200	7.9
Mar. 1-10	45.0	20		136	64	55	6.1	270		433	30		.7	.23	878	1.19	107	602	382	16	1.0	1,220	7.8
Mar. 11-20	45.0	20		118	56	69	9.5	240		422	31		.8	.26	844	1.15	103	525	328	22	1.3	1,180	8.0
Mar. 21-31	45.0	24		122	58	68	8.5	236		440	31		1.7	—	869	1.18	106	543	350	21	1.3	1,200	7.8
Apr. 1-10	70.0	23		109	47	62	9.5	225		363	28		1.8	—	754	1.03	143	466	281	22	1.3	1,060	8.1
Apr. 11-20	70.0	23		100	45	50	8.9	243		305	27		1.6	.14	681	.93	129	434	236	20	1.0	979	7.7
Apr. 21, 23-30	50.3	20		122	61	64	7.6	270		405	33		.6	—	846	1.15	115	556	334	20	1.2	1,180	7.8
Apr. 28	54.0							292		639	47		1.6	—			94.2	680	440			1,610	8.1
May 1-10	42.8	19		116	56	60	8.4	240		401	36		.6	.19	815	1.11	94.2	520	324	20	1.1	1,150	8.0
May 11-20	23.5	20		117	48	58	8.4	234		375	29		.6	.19	771	1.05	48.9	490	298	20	1.1	1,100	7.8
May 21-23, 30-31	4.6	23		180	85	97	11	303		681	52		.6	—	1,280	1.74	15.9	798	550	21	1.5	1,670	7.8
May 24-30	66.7	24		130	58	69	10	260		438	38		1.0	—	896	1.22	161	563	350	21	1.3	1,260	8.0
June 1-8	19.4	27		180	97	111	12	306		731	54		5.6	.25	1,370	1.86	71.8	848	598	22	1.7	1,770	7.5
June 9-20	183	26		96	38	35	7.3	232		253	23		3.0	.11	595	.81	294	396	206	16	.8	869	7.7
June 21-30	31.4	26		150	73	88	9.7	294		458	38		4.8	.23	1,080	1.47	91.6	674	434	22	1.5	1,430	7.8
July 1-10	1.5	29		286	147	194	14	373		1,260	81		5.5	.30	2,200	2.99	8.91	1,320	1,010	24	2.3	2,640	7.7
July 11-20	.9	27		315	153	200	15	368		1,360	85		5.6	.51	2,340	3.18	5.69	1,420	1,110	23	2.3	2,750	7.6
July 21-31	2.5	28		272	141	181	15	322		1,130	78		1.4	—	2,110	2.87	14.2	1,260	994	24	2.3	2,540	7.8
Aug. 1-6	1.8	29		310	156	199	15	355		1,370	84		.8	—	2,340	3.18	11.4	1,420	1,120	23	2.3	2,760	7.8
Aug. 7, 10	47.0	37		234	96	92	71	306		821	52		1.0	—	1,480	2.01	188	978	728	17	1.3	1,880	7.6
Aug. 8-9	19.5	34		154	49	53	15	251		463	36		2.1	—	933	1.27	49.1	586	380	21	1.3	1,280	7.8
Aug. 11-20	4.5	31		264	128	139	15	330		1,080	66		1.2	.49	1,890	2.57	23.0	1,180	914	20	1.8	2,290	7.8
Aug. 21-31	1.9	31		302	149	189	15	313		1,370	81		.1	.65	2,290	3.11	11.7	1,370	1,110	23	2.2	2,720	8.0
Sept. 1-10	1.7	26		324	161	205	14	337		1,470	84		.2	.74	2,450	3.33	11.2	1,470	1,190	23	2.3	2,880	8.0
Sept. 11-20	1.7	23		302	150	171	14	294		1,370	78		.1	.57	2,290	3.06	10.3	1,370	1,130	21	2.0	2,680	8.0
Sept. 21-30	12.1	23		238	118	124	14	287		1,020	70		.1	.45	1,750	2.38	37.2	1,080	844	20	1.6	2,200	8.0
Weighted average	h29.0	23		133	61	65	8.6	260		451	33		1.7	—	904	1.23	70.8	583	370	19	1.2	1,240	—

a)Not included for computation of weighted averages.

b)Represents 99 percent of runoff for water year October 1954 to September 1955.

GREEN RIVER BASIN

HENRY'S FORK AT LINWOOD, UTAH

LOCATION.—about 75 yards upstream from gaging station, which is in Sweetwater County, Wyoming, 300 feet north of Wyoming-Utah State line at Linwood, Daggett County.

DRAINAGE AREA.—531 square miles.

RECORDS AVAILABLE.—Chemical analyses: March 1951 to September 1955. Water temperatures: March 1951 to September 1955.

KITINGS.—Dissolved solids: Maximum, 2,550 ppm Aug. 21-31, Sept. 1-2, 1954; minimum, 312 ppm June 1-6, 9-10, 1952. Hardness: Maximum, 1,530 ppm Aug. 21-31, Sept. 1-2, 1954; minimum, 208 ppm June 1-6, 9-10, 1952. Specific conductance: Maximum daily, 3,070 micromhos Aug. 20, 1954; minimum daily, 395 micromhos May 15, June 2, 1952. Water temperatures: Maximum observed, 67° F July 1, 1954; minimum observed, freezing point on many days during winter months.

REMARKS.—Values reported for dissolved solids are sums of determined constituents. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply Paper 1343.

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium-magnesium	Non-carbonate				
March to September 1951																							
Maximum, Sept. 21-30, 1951	16.5	24	0.04	168	94	92	9.2	280		681	45	0.5	0.3		1,330	1.81	59.3	806	576	20		1,630	7.9
Minimum, June 11-20, 1951	200	22	.09	80	31	31	8.8	226		191	14	.5	2.9		496	.67	268	327	142	17		714	7.5
Weighted average	78.8	24	.08	107	48	49	8.6	246		328	23	.4	1.5		733	1.00	156	464	263	18		977	
Water year 1952																							
Maximum, Nov. 11-20, 1951	45.2	24	.05	156	83	85	9.5	308		579	41	.4	.2	0.23	1,170	1.59	143	730	478	20	1.3	1,490	8.0
Minimum, June 1-10, 1952	838	18	.04	57	16	17	5.2	166		95	8.0	.5	.8		312	.42	706	208	72	15	.5	468	7.7
Weighted average	149	19	.04	87	38	38	6.4	213		246	19	.4	.7		578	.79	233	373	198	18	.9	800	
Water year 1953																							
Maximum, Sept. 21-30, 1953	4.04	24	.06	256	127	143	11	310		1,080	60	.5	.5		2,000	2.72	21.8	1,160	906	21	1.8	2,280	7.8
Minimum, June 11-20, 1953	856	19	.07	63	17	20	5.9	179		110	8.8	.4	1.3	.11	352	.48	814	227	80	16	.6	516	7.8
Weighted average	74.7	19	.07	107	51	51	7.2	237		342	26	.4	.9		755	1.03	152	476	282	19	1.0	1,010	
Water year 1954																							
Maximum, Aug. 21-31, Sept. 1-2, 1954	.5	26		336	169	217	15	333		1,530	89	.6	.6		2,550	3.47	3.44	1,530	1,260	23	2.4	2,970	8.0
Minimum, Apr. 1-10, 1954	55.4	18		120	63	63	7.5	265		411	30		1.0	.24	844	1.15	126	558	342	19	1.2	1,190	7.9
Weighted average	21.5	20		159	80	81	9.5	292		582	40		.6		1,120	1.52	65.0	726	486	19	1.3	1,500	

GREEN RIVER BASIN

GREEN RIVER AT JENSEN, UTAH

LOCATION.—At bridge on U. S. Highway 40 at Jensen, Uintah County, 15 miles below gaging station, which is 1 mile below Cub Creek and Chew Ranch, 4 miles southeast of Dinosaur National Monument headquarters, 6 1/2 miles northeast of Jensen, and 12 miles upstream from Brush Creek.

RECORDS AVAILABLE.—Chemical analyses: June 1947 to September 1952. Water temperatures: March 1949 to September 1952.

EXTREMES, 1927-52.—Dissolved solids: Maximum, 867 ppm Dec. 1-10, 1949; minimum, 161 ppm June 1-10, 1948. Hardness (1947-51): Maximum, 494 ppm Nov. 11-20, 1949; minimum, 111 ppm June 1-10, 1948. Specific conductance: Maximum daily, 1,750 microhmhos Nov. 18, 1949; minimum daily, 237 microhmhos May 30, 1948. Water temperatures (1949-52): Maximum observed, 75° F on several days in August 1949; minimum observed, 33° F on several days in January 1950 and 1951.

REMARKS.—Values reported for dissolved solids are residue on evaporation. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1951 to September 1952 given in U. S. Geological Survey Water-Supply paper 1243. No appreciable inflow between water sampling point and gaging station except during periods of heavy local runoff.

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (microhmhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, mgnesium	Non-carbonate				
Water year 1948																							
Maximum, Dec. 21-31, 1947	1,327	11	0.04	82	33	73	6.8	242		248	35	0.3	1.2	0.03	610	0.83	2,190	340	142	31		910	8.0
Minimum, June 1-10, 1948	18,350	8.8	.23	30	8.8	12	1.3	109		40	5.3	.2	.6	.00	161	.22	7,380	111	22	19		261	7.6
Weighted average -----	4,250	11	.14	46	16	34	3.0	151		106	14	.3	1.3	.01	306	.42	3,510	181	58	29		475	
Water year 1949																							
Maximum, Dec. 1-10, 1948	831			115	47		109	267		419	44		1.9		867	1.18	1,950	480	262	33		1,270	8.2
Minimum, June 21-30, 1949	15,940	12	.14	44	11		17	144		61	6.5	.2	.8	.01	224	.30	9,640	155	37	19		357	
Weighted average -----	5,070	12		51	15		.39	164		112	14	.4	2.0	.02	326	.44	4,460	188	54	31		519	
Water year 1950																							
Maximum, Nov. 11-20, 1949	1,777	12		122	46		82	258		399	31		2.1		821	1.12	3,940	494	282	27		1,210	7.6
Minimum, June 11-20, 1950	20,190	8.3		39	10		15	146		42	5.8		.5		192	.26	10,500	138	19	19		323	8.1
Weighted average -----	5,638	12		53	17		35	172		112	14		2.1		330	.45	5,020	202	61	27		528	7.7
Water year 1951																							
Maximum, Mar. 11-20, 1951	1,936	11	.04	80	32	75	3.0	211		275	32	.4	3.5		627	.85	3,280	331	158	33		920	7.7
Minimum, June 11-20, 1951	13,830	9.7	.02	36	11	19	4.8	132		53	8.9	.4	4.1		206	.28	7,650	135	27	23		341	7.5
Weighted average -----	4,570	11	.03	49	17	35	5.3	169		104	15	.4	3.2		325	.44	4,010	192	54	28		509	

GREEN RIVER BASIN

GREEN RIVER NEAR GREENDALE, UTAH

LOCATION.—At gaging station on left bank 4 miles northeasterly from Greendale, and 12 miles southeasterly from Linwood, Daggett County.

RECORDS AVAILABLE.—Chemical analyses: October 1956 to July 1957. Water temperatures: October 1956 to July 1957.

REMARKS.—Values reported for dissolved solids are residue on evaporation. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah.

Chemical analyses, in parts per million, October 1956 to July 1957.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium adsorption ratio	So-dium conductance (micro-mhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Oct. 4, 9, 1956	—	5.2	.02	62	23	60	2.7	175	—	215	12	0.4	0.5	—	475	0.65	—	248	104	34	1.7	711	7.8
Oct. 12, 16, 19	—	5.6	.02	63	27	63	2.6	185	—	233	12	.4	.4	0.09	508	.69	—	268	116	34	1.7	753	8.1
Oct. 22	—	6.5	.02	67	27	63	2.6	198	—	230	12	.4	.3	—	519	.71	—	280	118	33	1.6	772	8.0
Oct. 26	—	9.9	.03	86	30	111	5.4	226	—	306	56	.5	3.7	—	730	.99	—	338	153	41	2.6	1,070	7.7
Nov. 2	—	10	.01	79	29	79	2.6	216	—	269	18	.4	.8	—	609	.83	—	316	139	35	1.9	877	8.0
Nov. 13, 16, 20	—	10	.02	82	32	73	2.6	220	—	277	20	.4	.7	.11	619	.84	—	334	154	32	1.7	890	8.1
Nov. 23, 27, 30	—	12	.02	97	38	89	2.6	266	—	335	17	.4	.6	—	743	1.01	—	400	180	32	1.9	1,040	8.0
Dec. 3, 6	—	11	.02	87	33	71	2.6	239	—	279	16	.4	.7	—	630	.86	—	354	158	30	1.6	903	8.1
Dec. 11, 16, 17, 20	—	9.7	.02	100	30	77	2.7	242	—	309	17	.4	1.1	.10	685	.93	—	374	176	31	1.7	957	7.9
Dec. 26, 31, Jan. 4, 1957	—	11	.03	92	33	69	3.0	249	—	285	18	.4	.7	—	671	.91	—	364	160	29	1.6	945	6.9
Apr. 10	—	14	.01	70	28	78	2.6	212	—	239	25	—	1.9	—	562	.76	—	288	114	37	2.0	842	7.2
Apr. 24	—	12	.00	66	26	58	2.6	220	—	184	19	—	1.9	—	482	.66	—	270	90	32	1.5	737	7.0
May 1, 7, 15	—	14	.01	64	23	51	2.6	224	—	149	18	.5	2.5	.09	445	.61	—	253	69	30	1.4	674	7.1
May 22, 29	—	12	.01	55	18	40	2.6	196	—	110	15	—	1.6	—	364	.50	—	212	51	29	1.2	562	7.3
June 5, 10-11	—	11	.03	46	12	20	2.3	162	—	63	8.0	.6	2.1	.08	259	.35	—	166	33	20	.7	404	7.0
June 12-14, 17-20	—	11	.02	44	11	30	2.3	157	—	76	12	.4	1.1	.05	284	.39	—	156	27	29	1.0	434	7.3
June 21, 24-28	—	10	.02	46	13	27	2.3	162	—	85	9.5	.4	1.1	—	288	.39	—	171	38	25	.9	439	7.0
July 1-5, 8-10	—	8.8	.03	40	11	20	2.1	138	—	63	9.5	.5	1.4	—	237	.32	—	143	30	23	.7	363	7.2
July 11-12, 15-19	—	9.4	.05	46	13	28	2.1	166	—	81	10	.7	.9	.07	286	.39	—	170	34	26	.9	439	6.9
July 22-26, 29-31	—	8.1	.04	46	14	30	2.8	162	—	91	12	.6	.8	—	301	.41	—	175	42	27	1.0	466	7.0

GREEN RIVER BASIN
DUCHESE RIVER NEAR HANLETT, UTAH

LOCATION.—At gaging station, a quarter of a mile downstream from Uinta River, 1 1/4 miles southeast of Hanlett, and 6 1/2 miles southeast of Fort Duchesne, Uintah County.

DRAINAGE AREA.—Approximately 3,920 square miles.

RECORDS AVAILABLE.—Chemical analyses: December 1950 to September 1951. Water temperatures: December 1950 to September 1951.

REMARKS, December 1950 to September 1951.—Specific conductance: Maximum, 2,610 micromhos Sept. 27, 29; minimum, 291 micromhos May 29. Water temperatures: Maximum, 72° F July 28-29; minimum, freezing point on many days from December to March.

REMARKS.—Values reported for dissolved solids are sums of determined constituents. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1950 to September 1951 given in U. S. Geological Survey Water-Supply Paper 1213.

Chemical analyses, in parts permillion, December 1950 to September 1951

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Dec. 2-10, 1950	571	16	—	98	60	166	—	278	—	467	96	—	2.1	—	1,040	1.41	1,600	491	263	42	—	1,530	7.8
Dec. 11-20	575	18	—	99	60	160	—	292	—	451	92	—	2.2	—	1,030	1.40	1,600	494	254	41	—	1,480	7.8
Dec. 22, 28, 30	443	—	—	—	—	—	—	296	—	432	79	—	—	—	—	—	—	—	—	—	—	1,400	—
Jan. 1-10, 1951	436	17	—	102	60	163	—	320	—	443	92	—	2.3	—	1,040	1.41	1,220	501	239	41	—	1,490	7.9
Jan. 11	420	—	—	—	—	—	—	310	—	395	89	—	4.1	—	—	—	—	—	—	—	—	1,420	—
Jan. 13-20	420	13	—	70	38	76	—	270	—	219	32	—	1.4	—	582	.79	660	330	110	33	—	839	8.1
Jan. 21-31	420	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	862	—
Feb. 1, 9-10	470	—	—	—	—	—	—	—	—	284	99	—	—	—	—	—	—	—	—	—	—	1,060	—
Feb. 2-3	470	—	—	—	—	—	—	—	—	445	95	—	—	—	—	—	—	—	—	—	—	1,510	—
Feb. 4	470	—	—	—	—	—	—	—	—	196	22	—	—	—	—	—	—	—	—	—	—	782	—
Feb. 11-20	470	15	—	94	59	165	—	274	—	450	100	—	1.8	—	1,020	1.39	1,290	477	252	43	—	1,480	7.8
Feb. 21-28	470	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,630	—
Mar. 1-10	468	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,640	—
Mar. 11-20	399	14	—	113	72	187	—	314	—	543	114	—	1.7	—	1,200	1.63	1,160	578	320	41	—	1,710	—
Mar. 21-31	294	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,650	—
Apr. 1-10	224	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,260	—
Apr. 11-20	220	13	—	108	65	231	—	303	—	573	137	—	1.3	—	1,280	1.74	760	537	288	48	—	1,860	7.1
Apr. 21-30	278	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,720	—
May 1-10	276	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,710	—
May 11-20	636	16	—	93	50	164	—	270	—	423	93	—	1.4	—	973	1.32	1,670	438	216	45	—	1,440	7.9
May 21-24	1,518	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,170	—
May 25-28, 30-31	3,357	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	557	—
May 29	4,600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	291	—
June 1	3,600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	437	—
June 2-10	1,726	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	804	—
June 11-20	2,308	12	—	60	31	83	—	187	—	224	50	—	.9	—	553	.75	3,450	277	124	39	—	864	7.8
June 21-30	4,044	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	893	—
July 1-10	613	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	981	—
July 11-20	460	11	—	91	54	180	—	250	—	455	114	—	.9	—	1,030	1.40	1,280	449	244	47	—	1,520	7.7
July 21-31	460	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,760	—
Aug. 1-10	699	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,390	—
Aug. 11-20	251	13	—	107	61	216	—	284	—	548	130	—	1.6	—	1,220	1.66	827	518	286	48	—	1,760	7.8
Aug. 21, 24	330	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,370	—
Aug. 22-23, 25-31	343	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,570	—
Sept. 1-10	226	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,500	—
Sept. 11-20	133	15	—	132	94	236	—	295	—	740	184	—	2.7	—	1,570	2.14	564	716	474	44	—	2,260	7.9
Sept. 21-30	127	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,250	—
Weighted average	4657	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,140	—

aRepresents 88 percent of runoff for water year October 1950 to September 1951.

GREEN RIVER BASIN—Continued
GREEN RIVER AT JENSEN, UTAH—Continued

Chemical analyses, in parts per million, water year October 1951 to September 1952

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Chemical analyses, in parts per million, water year October 1951 to September 1952										Dissolved solids			Hardness as CaCO ₃		Percent sodium adsorption ratio	Sodium conductance (micro-mhos at 25°C)	pH			
				Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium				Non-carbonate		
Oct. 1-10, 1951	2,589	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	799	—
Oct. 11-20	2,151	13	—	65	26	76	—	198	—	219	30	—	1.4	0.20	534	.73	3,100	269	107	38	2.0	776	7.8	
Oct. 21-31	2,023	—	—	—	—	—	—	—	—	—	—	—	—	—	543	.74	2,980	—	—	—	—	809	—	
Nov. 1-10	1,731	—	—	—	—	—	—	—	—	—	—	—	—	—	579	.84	2,730	—	—	—	—	849	—	
Nov. 11-20	1,705	11	—	76	34	66	—	222	—	238	29	—	1.9	—	589	.80	2,080	330	148	30	1.6	869	7.7	
Nov. 21-30	1,126	—	—	—	—	—	—	—	—	—	—	—	—	—	635	.86	1,930	—	—	—	—	879	—	
Dec. 1-10	1,271	—	—	—	—	—	—	—	—	—	—	—	—	—	628	.85	2,160	—	—	—	—	885	—	
Dec. 11-20	1,078	12	—	83	35	67	—	240	—	243	32	—	2.1	—	619	.84	1,800	351	154	29	1.6	905	7.8	
Dec. 21-31	1,258	—	—	—	—	—	—	—	—	—	—	—	—	—	614	.84	2,090	—	—	—	—	854	—	
Jan. 1-10, 1952	913	—	—	—	—	—	—	—	—	—	—	—	—	—	608	.83	1,500	—	—	—	—	858	—	
Jan. 11-20	1,259	13	—	77	29	66	—	225	—	219	29	—	.8	.10	561	.76	1,910	311	126	31	1.6	830	7.7	
Jan. 21-31	1,297	—	—	—	—	—	—	—	—	—	—	—	—	—	580	.79	2,030	—	—	—	—	830	—	
Feb. 1-10	1,335	—	—	—	—	—	—	—	—	—	—	—	—	—	613	.83	2,210	—	—	—	—	866	—	
Feb. 11-20	1,288	11	—	88	29	68	—	218	—	248	34	—	2.4	—	598	.81	2,080	338	160	30	1.6	883	—	
Feb. 21-29	1,237	—	—	—	—	—	—	—	—	—	—	—	—	—	574	.78	1,920	—	—	—	—	843	—	
Mar. 1-10	1,303	—	—	—	—	—	—	—	—	—	—	—	—	—	584	.79	2,050	—	—	—	—	844	—	
Mar. 11-20	1,391	9.8	—	70	22	93	—	185	—	251	38	—	2.0	—	592	.81	2,220	265	114	43	2.5	873	8.1	
Mar. 21-31	1,715	—	—	—	—	—	—	—	—	—	—	—	—	—	607	.83	2,810	—	—	—	—	886	—	
Apr. 1-10	7,096	—	—	—	—	—	—	—	—	—	—	—	—	—	547	.74	10,480	—	—	—	—	810	—	
Apr. 11-18	12,210	15	—	56	21	75	—	180	—	194	26	—	4.9	.09	478	.65	15,760	226	78	42	2.2	727	7.9	
Apr. 19-20	14,100	13	—	38	14	13	—	128	—	57	10	—	1.6	—	205	.28	7,800	152	48	15	.4	344	8.1	
Apr. 21-30	19,300	—	—	—	—	—	—	—	—	—	—	—	—	—	232	.32	12,990	—	—	—	—	355	—	
May 1-10	28,860	—	—	—	—	—	—	—	—	—	—	—	—	—	216	.29	16,830	—	—	—	—	333	—	
May 11-20	23,650	13	—	43	13	12	—	148	—	53	7.5	—	1.0	—	223	.30	14,240	161	40	14	.4	361	7.7	
May 21-31	17,390	—	—	—	—	—	—	—	—	—	—	—	—	—	206	.28	9,670	—	—	—	—	320	—	
June 1-20	24,520	10	—	35	9.4	9.2	—	115	—	39	6.8	—	2.6	—	175	.24	11,590	126	32	14	.4	283	7.7	
June 21-22a	12,850	9.1	—	—	—	—	—	116	—	36	6.2	—	—	—	—	—	—	110	15	—	—	291	7.7	
June 23-30	11,050	9.4	—	57	19	55	—	190	—	146	21	—	3.6	—	412	.56	12,290	220	64	35	1.6	640	7.7	
July 1-10	7,582	10	—	58	19	55	—	190	—	144	23	—	4.2	—	416	.57	8,420	222	67	35	1.6	650	7.7	
July 11-20	5,236	10	—	55	19	52	—	176	—	146	22	—	2.1	.11	396	.54	5,600	215	71	35	1.5	622	7.9	
July 21-31	3,314	9.9	—	57	19	54	—	192	—	141	22	—	3.4	—	410	.56	3,670	220	62	35	1.6	646	7.6	
Aug. 1-10	3,290	9.5	—	52	19	53	—	172	—	141	23	—	3.3	—	396	.54	3,420	208	66	36	1.6	624	7.8	
Aug. 11-20	3,121	8.6	—	58	23	60	—	178	—	175	28	—	3.3	—	453	.62	3,620	239	93	35	1.7	705	7.8	
Aug. 21-31	3,325	—	—	—	—	—	—	—	—	—	—	—	—	—	508	.69	3,180	—	—	—	—	722	—	
Sept. 1-10	1,894	—	—	—	—	—	—	—	—	—	—	—	—	—	488	.66	2,400	—	—	—	—	741	—	
Sept. 11-20	1,500	6.1	—	62	27	66	—	176	—	208	33	—	1.5	—	506	.69	2,050	266	122	35	1.8	778	7.6	
Sept. 21-30	1,316	—	—	—	—	—	—	—	—	—	—	—	—	—	496	.67	1,760	—	—	—	—	755	—	
Weighted average	16,193	—	—	—	—	—	—	—	—	—	—	—	—	—	310	0.42	5,180	—	—	—	—	477	—	

aNot included for computation of weighted averages.

bRepresents 99 percent of runoff for water year October 1951 to September 1952.

GREEN RIVER BASIN—Continued
WHITE RIVER NEAR WATSON, UTAH—Continued

Chemical analyses, in parts per million, water year October 1954 to September 1955.

Chemical analyses, in parts per million, water year October 1954 to September 1955.																								
Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium-magnesium	Non-carbonate					
Oct. 1-8, 10, 1954	448	15	—	85	27	80	3.2	232	—	200	65	—	2.6	—	588	0.80	711	323	133	35	1.9	927	7.7	
Oct. 9a	1,280	—	—	—	—	—	—	334	—	521	30	—	4.7	—	—	—	—	610	336	—	—	—	1,440	7.2
Oct. 11-20	401	16	—	77	27	78	3.2	226	—	177	65	—	2.4	0.08	550	.75	595	303	118	36	1.9	884	7.6	
Oct. 21-31	366	16	—	75	28	85	2.0	226	—	191	71	—	.8	—	571	.78	564	302	117	38	2.1	904	8.0	
Nov. 1-10	343	16	—	81	29	87	2.0	221	—	188	76	—	.9	—	594	.81	550	323	124	37	2.1	934	7.8	
Nov. 11-20	347	15	—	82	32	97	3.2	236	—	218	82	—	7.6	.09	654	.89	613	336	142	38	2.3	1,010	7.6	
Nov. 21-30	318	15	—	78	32	99	2.8	244	—	208	83	—	7.7	—	647	.88	556	326	126	39	2.4	1,010	7.6	
Dec. 1-10	337	16	—	82	34	100	2.5	249	—	227	82	—	4.3	—	681	.93	620	344	140	38	2.3	1,040	8.0	
Dec. 11-20	274	16	—	92	31	108	2.5	253	—	230	97	—	1.4	.09	715	.97	529	357	150	39	2.5	1,110	7.6	
Dec. 21-31	268	20	—	90	30	114	3.6	245	—	228	106	—	16	—	736	1.00	533	348	147	41	2.7	1,160	7.4	
Jan. 1-10, 1955	239	19	—	81	25	100	2.2	234	—	194	88	—	2.7	—	632	.86	442	305	114	41	2.5	994	7.8	
Jan. 11-15, 19-20	243	22	—	87	26	109	2.2	250	—	204	97	—	3.0	.06	678	.92	445	324	119	42	2.6	1,050	7.9	
Jan. 16-18	247	32	—	141	45	175	5.4	405	—	343	156	—	5.4	—	1,120	1.52	747	537	205	41	3.3	1,660	7.9	
Jan. 21-31	274	19	—	80	24	98	2.1	231	—	187	89	—	2.4	—	620	.84	459	298	108	41	2.5	971	7.7	
Feb. 1-10	325	19	—	76	24	91	2.2	221	—	178	82	—	2.7	—	600	.82	526	288	107	40	2.3	935	7.5	
Feb. 11-20	358	19	—	82	25	100	2.2	234	—	197	92	—	1.8	.09	653	.89	631	308	116	41	2.5	1,010	7.6	
Feb. 21-22, 26-28	334	19	—	82	26	95	2.0	228	—	192	91	—	1.5	—	624	.85	563	312	124	40	2.3	991	7.8	
Feb. 23-25	320	29	—	130	44	175	4.4	376	—	350	160	—	4.3	—	1,090	1.48	942	506	198	43	3.4	1,620	7.8	
Mar. 1-10	465	15	—	66	21	81	2.8	208	—	172	59	—	4.3	—	532	.72	668	251	80	41	2.2	839	7.7	
Mar. 11-20	1,282	11	—	66	25	77	4.2	195	—	207	50	—	3.6	.08	554	.75	1,920	268	108	38	2.0	856	7.6	
Mar. 21-31	549	15	—	85	30	100	3.7	244	—	252	71	—	2.9	—	704	.96	1,040	336	136	39	2.4	1,070	7.6	
Apr. 1-10	438	16	—	82	32	105	3.7	242	—	254	72	—	7.2	—	718	.98	849	336	138	40	2.5	1,080	7.7	
Apr. 11-20	561	16	—	77	30	97	3.7	262	—	223	60	—	2.9	.08	657	.89	995	316	101	40	2.4	1,010	7.4	
Apr. 21-30	568	15	—	70	26	80	2.5	220	—	194	58	—	2.3	—	570	.78	874	282	101	38	2.1	882	7.8	
May 1-10	1,081	17	—	56	18	42	2.5	184	—	110	32	—	4.0	—	380	.52	1,110	214	62	30	1.2	602	7.5	
May 11-20	1,605	15	—	50	16	30	1.9	172	—	80	22	—	2.9	.07	308	.42	1,330	191	50	25	.9	493	7.5	
May 21-31	1,546	14	—	52	17	25	1.9	173	—	69	21	—	13	—	288	.39	1,300	200	58	21	.8	475	7.5	
June 1-10	1,412	14	—	49	15	26	1.7	157	—	75	24	—	1.5	—	285	.39	1,090	184	56	23	.8	460	7.7	
June 11-20	1,645	14	—	47	13	24	1.9	149	—	69	22	—	5.3	.04	274	.37	1,220	171	49	23	.8	442	7.5	
June 21-30	757	15	—	58	17	42	2.2	180	—	104	35	—	4.7	—	376	.51	769	214	67	30	1.2	610	7.4	
July 1-10	350	16	—	72	23	67	2.7	220	—	153	59	—	2.7	—	523	.71	494	274	94	34	1.8	827	7.4	
July 11-20	193	20	—	78	31	97	3.2	204	—	230	88	—	3.3	.11	658	.89	343	322	155	39	2.4	1,020	7.6	
July 21-24, 27-31	212	20	—	81	33	97	3.2	224	—	236	86	—	1.5	.12	684	.93	392	338	154	38	2.3	1,050	7.7	
July 25-26a	240	18	—	—	—	—	—	314	—	916	82	—	.4	.42	—	—	—	596	339	—	—	—	2,320	7.5
Aug. 1-3, 5-10	353	21	—	86	30	107	4.3	270	—	253	58	—	2.3	—	704	.96	671	338	117	40	2.5	1,070	7.6	
Aug. 4a	338	21	—	283	170	—	—	736	—	2,160	73	—	1.9	—	—	—	—	1,410	806	—	—	—	4,450	7.6
Aug. 11-20	346	19	—	94	35	102	4.6	244	—	283	72	—	1.9	.16	743	1.01	694	378	178	37	2.3	1,110	7.6	
Aug. 21-31	308	17	—	103	32	119	6.3	246	—	307	82	—	6.9	—	801	1.09	666	388	187	39	2.6	1,210	7.4	
Sept. 1-10	219	18	—	77	32	105	3.1	226	—	225	92	—	2.1	—	679	.92	401	324	138	41	2.5	1,040	8.0	
Sept. 11-20	177	17	—	79	33	110	3.1	217	—	237	101	—	3.0	.06	704	.96	336	332	144	42	2.6	1,080	7.4	
Sept. 21-30	228	17	—	94	31	99	3.1	224	—	260	90	—	2.9	—	729	.99	449	362	178	37	2.3	1,100	7.6	
Weighted average -	6536	16	—	68	23	67	2.7	205	—	159	53	—	4.5	—	502	0.68	726	264	96	35	1.8	784	—	

aNot included for computation of weighted averages.

bRepresents 99 percent of runoff for water year October 1954 to September 1955.

GREEN RIVER BASIN

WHITE RIVER NEAR WATSON, UTAH

LOCATION.—At gaging station, just downstream from Escavation Creek and 7 miles north of Watson, Uintah County.

DRAINAGE AREA.—4,020 square miles, approximately.

RECORDS AVAILABLE.—Chemical analyses: December 1950 to September 1955. Water temperatures: December 1950 to September 1955.

EXTREMES, 1950-55.—Dissolved solids: Maximum, 1,450 ppm Aug. 1, 1953; minimum, 230 ppm June 21-30, 1951. Specific conductance: Maximum daily, 4,450 micromhos Aug. 4, 1955; minimum daily, 319 micromhos June 29, 1951. Water temperatures: Maximum observed, 89° F Aug. 6, 1954; minimum observed, freezing point on many days during winter months.

REMARKS.—Values reported for dissolved solids are residue on evaporation. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply Paper 1393.

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium magnesium	Non-carbonate				
Water year 1951																							
Maximum, July 21-22, 1951	1,220	—													811	1.10	2,670					1,190	
Minimum, June 21-30, 1951	2,269														230	.31	1,410					366	
Weighted average	702														403	.55	764					627	
Water year 1952																							
Maximum, Apr. 7-8, 1952	2,755														957	1.30	7,120					1,300	
Minimum, June 11-20, 1952	4,292	14		54	14	20		200		48	14		2.3		268	.36	3,110	192	28	18	0.6	429	7.6
Weighted average	996														442	.60	1,190					699	
Water year 1953																							
Maximum, Aug. 1, 1953	2,340									705					1,450	1.97	9,160	836				1,750	
Minimum, June 11-20, 1953	3,025	14		45	9.7	17		147		49	15		2.0	0.08	240	.33	1,960	152	31	20	.6	375	8.4
Weighted average	619														505	.69	844					799	
Water year 1954																							
Maximum, Aug. 16, 1954	302	12		154	54	109		304		430	104		1.2		1,010	1.37	824	606	357	28	1.9	1,490	
Minimum, May 14-20, 1954	1,232														294	.40	978					451	
Weighted average	470														584	.79	712					956	

GREEN RIVER BASIN
WILLOW CREEK NEAR OURAY, UTAH

LOCATION.—At gaging station, 8 miles upstream from mouth and 10 miles south of Ouray, Uintah County.

DRAINAGE AREA.—967 square miles.

RECORDS AVAILABLE.—Chemical analyses: December 1950 to January 1955. Water temperatures: December 1950 to January 1955.

EXTREMES, 1950-54.—Specific conductance: Maximum daily, 8,770 micromhos July 8, 1951; minimum daily, 673 micromhos May 8, 1952. Water temperatures: Maximum observed, 89° F July 14, 1951, June 8, 1953; minimum observed, freezing point on many days during winter months.

REMARKS.—Values reported for dissolved solids are sums of determined constituents. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply Paper 1393.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos at 25° C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Dec. 1950 to Sept. 1951																							
Maximum, July 11-20, 1951	40.5	19		119	302	1,170		753		3,120	154		0.6		5,260	7.15	2.94	1,540	922	62		6,250	8.0
Minimum, Apr. 11-20, 1951	16.8	19		80	69	161		417		440	23		2.5		1,000	1.36	109	483	142	42		1,430	7.5
Weighted average																							
Water year 1952																							
Maximum, Nov. 16-20, 1951	12.4	25		126	167	529		780		1,360	66		3.9		2,560	3.62	89.1	1,000	362	53	7.3	3,300	8.1
Minimum, May 11-20, 1952	227	18		73	40	45		316		163	10		2.3		507	.69	311	346	88	22	1.1	779	7.7
Weighted average	49.1																						
Water year 1953																							
Maximum, July 1-10, 1953	1.0	13		111	280	1,180		734		3,060	140		.6		5,150	7.00	13.9	1,430	828	64	14	6,110	8.2
Minimum, July 31, Aug. 1-3, 1953	55.0	33		86	45	126		390	20	268	12		.6		782	1.06	116	400	47	41	2.7	1,150	8.4
Weighted average	18.7																						
Chemical analyses, in parts per million, October 1953 to January 1955.																							
Oct. 1-2, 1953	2.7	—													a2,810	3.82	20.5					3,590	
Oct. 3-10	3.8														a1,930	2.62	19.8					2,570	
Oct. 11-13	8.3	16		79	111	356		586		887	42		1.6		1,780	2.42	39.9	654	173	54	6.0	2,480	8.1
Oct. 14-20	9.9	18		70	67	159		445		398	22		1.4	0.95	.956	1.30	25.6	448	83	44	3.3	1,420	8.1
Oct. 21-31	25.6														a912	1.24	63.0					1,320	
Nov. 1-10	14.9														a996	1.35	40.1					1,430	
Nov. 11-20	14.3	17		80	73	179		489		454	21		1.0		1,070	1.46	41.3	500	99	44	3.5	1,550	8.1
Nov. 21-30	21.4	20		87	65	143		491		370	20		1.3	.74	.949	1.29	54.8	484	81	39	2.8	1,410	8.1
Dec. 1-10	20.5	21		86	70	166		503		423	21		1.5	.93	1,040	1.41	57.6	504	92	42	3.2	1,530	8.1
Dec. 11-20	20.0	21		88	79	201		544		485	25		1.5	1.0	1,170	1.59	63.2	546	100	45	3.7	1,680	8.1
Dec. 21-31	20.0	21		92	81	211		568		500	26		1.5	1.0	1,210	1.65	65.3	566	100	45	3.9	1,740	8.0
Jan. 1-10, 1954	20.0	19		90	70	174		515		431	22		1.5	1.0	1,060	1.44	57.2	512	89	42	3.4	1,540	8.0
Jan. 11-20	20.0	18		82	59	147		455		361	21		1.8	.82	.915	1.24	49.4	448	75	42	3.0	1,320	8.1
Jan. 21-27	20.0	16		77	53	136		418		324	18		2.0	—	.832	1.13	44.9	408	65	42	2.9	1,190	8.2
Jan. 28-31, Feb. 1-3	20.9	16		88	73	215		461		551	30		2.4	—	1,200	1.63	67.7	522	144	47	4.1	1,700	8.1
Feb. 4-10	22.0	16		73	48	118		376		306	18		2.0	—	.766	1.04	45.5	380	72	40	2.6	1,120	8.1
Feb. 11-20	23.8	17		76	52	131		405		329	15		2.2	.65	.822	1.12	52.8	402	70	41	2.8	1,210	8.1
Feb. 21-28	27.0														a754	1.03	55.0					1,110	
Mar. 1-8	31.4														a1,030	1.40	87.3					1,470	
Mar. 9-11	66.3														a610	.83	109					888	
Mar. 12-20	31.9	15		77	52	121		405		312	14		2.1	.56	.793	1.08	68.3	406	74	39	2.6	1,170	8.2
Mar. 21-31, Apr. 1-3	37.3														a775	1.05	78.1					1,150	
Apr. 4-10	61.3														a564	.77	93.3					805	
Apr. 11-20	61.7	14		74	33	75		308		215	9.0		3.0	.39	.575	.78	95.8	320	67	34	1.8	878	7.9
Apr. 21-27	34.4														a745	1.01	69.2					1,090	
Apr. 28-30	16.0														a1,090	1.48	47.1					1,530	
May 1-2	25.0														a926	1.26	62.5					1,320	

GREEN RIVER BASIN
GREEN RIVER NEAR URAY, UTAH

LOCATION.—At gaging station, 2 3/4 miles upstream from Willow Creek and 3 miles southwest of Carey, Uintah County.
RECORDS AVAILABLE.—Chemical analyses: December 1950 to September 1952. Water temperatures: December 1950 to September 1952.
REMARKS.—Values reported for dissolved solids are residue on evaporation. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for December 1950 to September 1951 given in U. S. Geological Survey Water-Supply Paper 1213. Records of discharge for water year October 1951 to September 1952 given in U. S. Geological Survey Water Supply Paper 1243.
Chemical analyses, in parts per million, December 1950 to September 1952

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium-magnesium	Non-carbonate				
Dec. 1-10, 1950	2,736	—	—	74	35	79	—	237	—	240	40	—	0.9	—	625	0.85	4,620	—	—	—	—	914	—
Dec. 11-20	2,903	13	—	—	—	—	—	—	—	—	—	—	—	—	623	.85	4,880	328	134	34	—	902	7.7
Dec. 21-23, 26	2,432	—	—	—	—	—	—	—	—	—	—	—	—	—	626	.85	4,110	—	—	—	—	908	—
Jan. 6-8, 1951	1,077	14	—	—	—	—	—	258	—	—	49	—	—	—	—	—	—	366	154	—	—	1,050	7.8
Feb. 5-7, 10	2,212	14	—	—	—	—	—	239	—	—	39	—	—	—	—	—	—	320	124	—	—	908	8.0
Feb. 11-20	3,400	13	—	66	29	86	—	227	—	222	37	—	1.6	—	557	.76	5,110	284	98	40	—	843	7.7
Feb. 22, 23-24, 26	3,438	12	—	—	—	—	—	206	—	—	40	—	—	—	—	—	—	276	107	—	—	858	7.7
Mar. 1-3, 8-9	3,352	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	900	—
Mar. 10, 16-19	3,022	15	—	68	29	86	—	212	—	232	41	—	1.9	—	614	.84	5,390	—	—	—	—	882	8.2
Mar. 24, 28-30, 31	4,568	—	—	—	—	—	—	—	—	—	—	—	—	—	625	.79	2,860	288	115	39	—	933	—
Apr. 1-5, 7-8	4,773	—	—	—	—	—	—	—	—	—	—	—	—	—	616	.84	7,600	—	—	—	—	818	—
Apr. 11-18	5,532	21	—	58	24	43	—	197	—	138	22	—	—	—	548	.75	7,060	—	—	—	—	636	7.3
June 11-12, 19	17,900	13	—	43	15	39	—	163	—	58	10	—	1.6	—	419	.57	6,770	243	82	28	—	404	7.6
July 16-19	7,962	12	—	38	14	21	—	142	—	62	12	—	.6	—	235	.32	5,050	152	36	23	—	382	7.7
July 23, 25-28, 30-31	7,599	—	—	—	—	—	—	—	—	—	—	—	—	—	308	.22	6,600	—	—	—	—	486	—
Aug. 1-10	8,010	—	—	—	—	—	—	—	—	—	—	—	—	—	363	.49	7,850	—	—	—	—	546	—
Aug. 11, 13	6,922	12	—	54	15	44	—	180	—	114	18	—	1.1	—	474	.47	6,490	196	48	33	—	560	7.8
Aug. 21-31	4,170	—	—	—	—	—	—	—	—	—	—	—	—	—	476	.64	5,340	—	—	—	—	713	—
Sept. 1-10	3,507	—	—	—	—	—	—	—	—	—	—	—	—	—	447	.61	5,110	—	—	—	—	642	—
Sept. 11-20	2,485	9.8	—	59	24	64	—	181	—	184	31	—	.6	—	485	.66	3,250	246	97	36	—	734	7.7
Sept. 21-30	2,000	—	—	—	—	—	—	—	—	—	—	—	—	—	532	.72	2,870	—	—	—	—	779	—
Oct. 1-10	3,289	—	—	—	—	—	—	—	—	—	—	—	—	—	633	.86	5,620	—	—	—	—	919	—
Oct. 11-20	3,089	13	—	68	30	90	—	206	—	251	40	—	1.1	—	604	.82	5,040	293	124	40	2.3	852	8.0
Oct. 21-23, 27-28, 30-31	3,909	—	—	—	—	—	—	—	—	—	—	—	—	—	678	.92	7,160	—	—	—	—	969	—
Nov. 2, 4, 6, 8, 10	2,938	—	—	—	—	—	—	—	—	—	—	—	—	—	622	.85	4,930	—	—	—	—	894	—
Nov. 11-20	2,625	13	—	76	36	80	—	228	—	257	40	—	—	—	642	.87	4,550	—	150	34	1.9	951	8.1
Nov. 21-30	2,368	—	—	—	—	—	—	—	—	—	—	—	—	—	670	.91	4,280	—	—	—	—	970	—
Apr. 4-5, 9-10, 1952	14,720	17	—	97	36	110	—	228	—	268	41	—	2.2	0.22	804	1.09	31,950	390	203	38	2.4	1,140	7.6
Apr. 19, 25	16,600	18	—	72	24	55	—	218	—	175	25	—	3.4	—	493	.67	22,100	278	100	30	1.4	734	7.9
May 2, 12, 17, 23	31,700	12	—	52	15	33	—	198	—	80	12	—	.4	—	302	.41	25,850	191	29	27	1.0	475	7.7
June 3, 9, 14, 23	32,480	11	—	40	12	21	—	152	—	56	8.0	—	—	—	224	.30	19,640	150	25	23	.7	351	7.8
July 10-20	7,573	—	—	—	—	—	—	—	—	—	—	—	—	—	384	.52	7,440	—	—	—	—	602	—
July 21-31	4,636	—	—	—	—	—	—	—	—	—	—	—	—	—	434	.59	5,430	—	—	—	—	680	—
Aug. 1-6	4,728	—	—	—	—	—	—	—	—	—	—	—	—	—	516	.70	6,590	—	—	—	—	767	—
Aug. 14-20	4,361	—	—	—	—	—	—	—	—	—	—	—	—	—	515	.70	6,980	—	—	—	—	763	—
Aug. 21-31	4,319	—	—	—	—	—	—	—	—	—	—	—	—	—	576	.78	6,720	—	—	—	—	841	—
Sept. 1-10	3,439	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	833	—
Sept. 11-15	2,726	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	874	—
Sept. 16-30	2,373	—	—	—	—	—	—	—	—	—	—	—	—	—	585	.80	3,750	—	—	—	—	879	—

a—determined by Schwarzenbach method.
b—sum of determined constituents.

GREEN RIVER BASIN
PRICE RIVER AT WOODSIDE, UTAH

LOCATION.—At bridge on U. S. Highway 50 at Woodside, Every County, and 20 miles upstream from mouth.

DRAINAGE AREA.—1,500 square miles, approximately.

RECORDS AVAILABLE.—Chemical analyses: December 1946 to September 1949, February 1951 to September 1955. Water temperatures: February 1951 to September 1955.

EXTREMES, 1951-55.—Dissolved solids: Maximum, 8,220 ppm Dec. 11, 1951; minimum, 592 ppm May 21-30, 1952. Hardness: Maximum, 3,010 ppm Dec. 11, 1951; minimum, 353 ppm June 1-3, 6-10, 1952. Specific conductance: Maximum daily, 5,560 microhm Dec. 11, 1951; minimum daily, 814 microhm June 1, 1952. Water temperatures: Maximum observed, 90° F July 18-11, 1954; minimum observed, freezing point on many days during winter months.

REMARKS.—Values reported for dissolved solids are sums of determined constituents. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply Paper 1393.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium adsorption ratio	Sodium conductance (microhmhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate			
Water year 1947																						
Maximum, Jan. 7, 14, 22, 28, 1947				314	298	84		482		3,140	121	0.3	11		4,970	6.76		2,010	1,610	48	5,720	
Minimum, Apr. 25, 1947				119	103	248		322		900	38		7.7		1,570	2.14		720	456	43	2,140	
Water year 1948																						
Maximum, Dec. 3, 8, 15, 29, 1947	52	9.7		282	301	999		410		3,450	126		8.5		5,380	7.32	755	1,940	1,600	53	5,890	
Minimum, Apr. 2, 14, 21, 29, 1948	53	7.9		160	141	453		284		1,580	59		3.7		2,540	3.45	363	979	746	50	3,160	7.9
Water year 1949																						
Maximum, Oct. 13, 21, 1948	15	6.7		320	330	1,060		267		3,890	125		9.7		5,870	7.98	238	2,160	1,340	52	6,490	
Minimum, Apr. 8, 20, 1949	234	13		99	65	144		288		537	222		4		1,020	1.39	644	514	278	38	1,450	
February to September 1951																						
Maximum, Apr. 11-20, 1951	32.4	11	0.03	260	260	809	12	335		2,930	109	4	6.7		4,560	6.20	399	1,720	1,440	50	5,240	7.8
Minimum, Mar. 21-31, 1951	94.4	11	.32	182	136	410	15	321		1,510	57	.3	5.3		2,490	3.39	635	1,010	750	46	3,100	7.7
Weighted average	109	12	—	273	165	533	10	292		2,090	65	4	4.1		3,300	4.49	971	1,360	1,120	46	3,870	
Water year 1952																						
Maximum, Dec. 11, 1951	22.0	12	.03	432	469	1,520		646		5,310	175		11		8,220	11.20	488	3,010	2,480	52	8,540	7.8
Minimum, May 21-31, 1952	1,484	12	.06	78	39	65	3.3	262		245	14		4	5.9	592	.81	2,370	355	140	28	1,5	908
Weighted average	328	12	.06	125	81	203	5.4	283		778	31	.3	4.2		1,380	1.88	1,220	645	413	40	3.5	1,780
Water year 1953																						
Maximum, Nov. 22-30, 1952	61.0	9.2	.06	310	310	914	8.3	452		3,360	112	.3	11		5,260	7.15	937	2,050	1,680	49	5,890	7.8
Minimum, Aug. 29-31, 1953	428	14	.11	182	83	256	8.7	234		1,100	33	.7	1.3		1,790	2.43	2,170	796	604	41	3.9	2,300
Weighted average	81.3	10	.09	219	192	558	9.1	322		2,100	70	.3	6.8		3,330	4.53	731	1,340	1,070	47	6.6	3,970
Water year 1954																						
Maximum, Mar. 23-29, 1954	76.0	9.6		256	308	1,030	9.7	383		3,540	111		20		5,470	7.44	1,120	1,900	1,590	54	10	6,110
Minimum, Mar. 11-12, 1954	172	9.4		137	94	301	6.2	251		1,080	34		7.7		1,790	2.43	831	728	523	47	4.8	2,320
Weighted average	72.2	9.0		246	205	653	9.7	306		2,430	77		8.0		3,790	5.15	799	1,450	1,210	49	7.4	4,430

GREEN RIVER BASIN--Continued
WILLOW CREEK NEAR CURAY, UTAH--Continued
Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium magnesium	Non-carbonate				
May 3-10	10.4														1,900	2.58	53.4						
May 11-20	6.0	18		83	138	518	6.4	675		1,190	64		1.2		2,350	3.20	38.1	775	222	59	8.1	2,480	8.2
May 21-31	8.0														1,710	2.33	36.9						
June 1-10	6.2	18		64	107	337		586		787	41		.8	2.1	1,650	2.24	27.6	600	119	55	6.0	2,350	8.2
June 11-22	2.5	21		81	118	445		618		1,050	47		.9	2.4	2,070	2.82	14.0	688	181	58	7.4	2,700	8.1
June 23-30	1.2	16		78	229	1,050		1,040		2,340	111		1.6	6.0	4,340	5.90	14.1	1,140	287	67	14	5,230	8.1
July 1-10	.5	15		81	245	1,130		1,040		2,580	116		.8	6.5	4,590	6.38	6.33	1,210	357	67	14	5,460	8.1
July 11-14, 16, 19	1.1	14		87	217	1,030		988		2,290	103		1.1	5.8	4,230	5.75	12.4	1,110	300	67	13	4,940	8.1
July 15, 17-18, 20	6.8	26		91	83	338		608		734	43		1.5	1.9	1,620	2.20	29.7	568	69	56	6.2	2,250	7.8
July 21	4.0	20		110	130	474		723		1,120	52		1.6	2.0	2,270	3.09	24.5	810	217	56	7.2	2,980	7.6
July 22-24	1.3	18		88	233	900		975		2,070	93		1.0	4.3	3,890	5.29	13.7	1,180	380	62	11	4,820	7.8
July 25-27	26.7	20		73	52	170		412		382	23		2.2	.84	926	1.26	66.8	398	60	48	3.7	1,370	7.4
July 28-29	4.5	18		94	95	337		584		796	38		2.2	1.9	1,670	2.27	20.3	626	147	54	5.9	2,300	7.7
July 30-31	.8	19		102	179	655		797		1,580	73		.4	3.5	3,000	4.08	6.48	990	336	59	9.1	3,870	7.7
Aug. 1-10	1.0	14		96	265	1,040		1,000		2,450	114		.5	5.2	4,480	6.09	12.1	1,330	510	63	12	5,430	7.8
Aug. 11-12	2.0	18		85	259	1,260		918	55	2,890	125		1.5	7.2	5,150	7.00	27.8	1,280	435	68	15	5,920	8.3
Aug. 13	28.0	22		61	38	121		376		238	16		.8		682	.93	36.8	309	1	46	3.0	1,030	7.8
Aug. 14-15	6.4	18		87	78	383		554		812	38		2.0	.98	1,690	2.30	29.2	536	82	61	7.2	2,190	8.1
Aug. 16-20	.8	19		89	185	874		860		1,930	116		1.0	5.4	3,540	4.95	7.98	984	279	66	12	4,530	8.2
Aug. 21-31	.6														4,430	6.02	7.18						
Sept. 1, 6-9	5.9														1,770	2.41	28.2						
Sept. 4-5	15.5														807	1.23	38.0						
Sept. 11-20	2.8	18		91	143	571		776		1,300	46		.9	3.4	2,560	3.48	19.4	815	179	60	8.7	3,360	8.2
Sept. 23-24, 27-30	12.8														1,150	1.56	39.7						
Sept. 25-26	80.0														874	.97	154						
Weighted average	17.6														960	1.31	45.6						
Oct. 1-7, 1954	9.4														1,180	1.60	29.6						
Oct. 8-10	15.3														535	1.14	43.5						
Oct. 11-20	9.6	19		78	67	184		499		436	22		1.2	.97	1,060	1.44	27.5	472	63	46	3.7	1,580	8.1
Oct. 21-31	13.1														956	1.30	33.8						
Nov. 1-10	13.8														890	1.21	33.2						
Nov. 11-20	17.1	16		67	54	138		416		324	18		.4	.66	816	1.11	37.7	391	50	44	3.0	1,210	8.2
Nov. 21-25	15.8														951	1.16	36.3						
Dec. 1-10	11.0														1,160	1.58	34.5						
Dec. 11-20	11.0	22		88	77	193		560		454	25		1.4	1.0	1,160	1.58	34.5	536	77	44	3.6	1,620	8.2
Dec. 21-31	11.0														977	1.33	29.0						
Jan. 1-10, 1955	10.0														952	1.29	23.7						
Jan. 11-20	10.0	20		87	53	128		438		315	18		1.4	.57	862	1.17	23.3	434	75	39	2.7	1,240	8.2
Jan. 21-31	10.0														851	1.16	23.0						
Residue on evaporation																							

GREEN RIVER BASIN

GREEN RIVER AT GREEN RIVER, UTAH

LOCATION.—At gaging station, 1 mile southeast of the town of Green River, Beery County, 22 miles upstream from San Rafael River.

DRAINAGE AREA.—40,600 square miles, approximately.

RECORDS AVAILABLE.—Chemical analyses: August 1928 to September 1955. Water temperatures: May 1949 to September 1955.

EXTREMES, 1928-55.—Dissolved solids: Maximum, 2,010 ppm Sept. 29, 1943; minimum, 194 ppm June 21-30, 1933. Hardness: Maximum, 592 ppm Oct. 13, 1953; minimum, 128 ppm June 21-30, 1933. Specific conductance (1941-55): Maximum daily, 2,420 microhmhos Sept. 29, 1943; minimum daily, 321 microhmhos May 30, 1948. Water temperatures (1949-55): Maximum observed, 82° F July 31, Aug. 5-6, 1949, July 20, 1953, July 16, 1955; min. observed, freezing point on many days during winter months.

REMARKS.—Values reported for dissolved solids are residue on evaporation. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water Supply Paper 1953.

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (microhmhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Water year 1929																							
Maximum, Dec. 21-30, 1928	1,430	18	0.06	102	47	123	4.0	295		363	72		2.0		876	1.19	3,380	448	206	37			
Minimum, June 11-20, 1929	32,500	15	.37	37	11	16	5.3	132		49	6.8		.6		206	.28	18,080	138	30	20			
Weighted average	8,930	16	.24	55	21	49	4.8	169		154	22		1.4		406	.55	9,740	224	86	32			
Water year 1930																							
Maximum, Jan. 21-31, 1930	1,070	11	.09	89	43	105	6.4	273		315	62		2.2		768	1.04	2,220	399	176	36			
Minimum, June 1-10, 1930	19,500	17	.48	37	13	21	2.9	130		68	12		1.2		237	.32	12,500	146	40	23			
Weighted average	6,290	14	.13	59	23	56	3.8	179		177	26		1.2		448	.61	7,630	242	95	33			
Water year 1931																							
Maximum, Aug. 1-10, 1931	1,720	13	.04	112	44	155	5.0	220		512	61		1.6		1,010	1.38	4,690	460	280	42			
Minimum, June 1-10, 1931	9,120	13	.15	39	13	27	2.1	134		74	14		1.0		249	.34	6,120	151	41	28			
Weighted average	3,300	11	.09	62	25	79	3.0	185		199	35		2.6		499	.68	4,440	258	106	37			
Water year 1932																							
Maximum, Dec. 11-20, 1931	610	11	.04	92	41	112	3.0	286		306	67		1.9		775	1.05	1,270	398	164	38			
Minimum, July 1-10, 1932	18,300	12	.10	40	12	22	2.6	147		58	10		.9		230	.31	11,400	150	29	24			
Weighted average	6,640	11	.11	55	19	47	3.3	177		134	21		1.9		380	.51	6,910	216	70	32			
Water year 1933																							
Maximum, Dec. 21-31, 1932	1,000	6.6	.08	108	53	133	4.0	312		397	80		1.8		937	1.27	2,530	488	232	37			
Minimum, June 21-30, 1933	18,020	11	.08	36	9.3	16	3.2	121		50	8.0	0.4	.9		194	.26	9,440	128	29	21			
Weighted average	4,870	12	.10	55	21	54	2.7	172		156	25		1.5		412	.56	5,420	224	83	34			
Water year 1934																							
Maximum, Dec. 21-31, 1933	1,130	12	.06	94	49	137	6.1	271		404	67	.2	1.9		905	1.23	2,760	436	214	40			
Minimum, May 21-31, 1934	4,540	9.4	.06	36	11	34	2.2	129		71	17	.2	.7		245	.33	3,000	135	30	35			
Weighted average	1,820	12	.08	63	29	86	4.9	193		234	44		1.1		568	.77	2,790	276	118	40			
Water year 1935																							
Maximum, Dec. 11-20, 1934	838	11	.04	91	44	118	4.2	232		338	81	.4	1.4		803	1.09	1,817	408	218	38			
Minimum, June 21-30, 1935	18,200	13	.04	39	11	13	4.2	129		51	9.0	.4	.4		205	.28	10,070	142	37	16			
Weighted average	3,940	13	.06	54	19	45	3.6	169		129	24	.3	1.0		371	.50	3,950	213	74	31			

GREEN RIVER BASIN--Continued

PRICE RIVER AT WOODSIDE, UTAH--Continued

Chemical analyses, in parts per million, water year October 1954 to September 1955

Chemical analysis, in parts per million, water year October 1954 to September 1955																							
Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium adsorption ratio	Sodium conductance (micro-mhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium-magnesium	Non-carbonate				
Oct. 1-10, 1954	254	9.6	—	281	108	354	12	207	—	1,650	44	—	3.9	—	2,560	3.48	1,760	1,140	976	40	4.5	3,060	7.5
Oct. 11-20	52.9	11	—	262	145	437	9.9	281	—	1,820	59	—	6.5	0.31	2,890	3.93	413	1,250	1,020	43	5.4	3,480	7.7
Oct. 21-31	97.1	9.0	—	241	181	600	9.1	294	—	2,240	70	—	7.9	—	3,500	4.76	518	1,350	1,100	49	7.1	4,210	7.8
Nov. 1-10	41.7	5.6	—	258	232	809	9.8	325	—	2,830	88	—	9.6	—	4,400	5.98	495	1,600	1,330	52	8.8	5,070	7.7
Nov. 11-20	65.7	4.2	—	270	268	849	9.4	331	—	3,070	98	—	8.9	.43	4,740	6.45	841	1,780	1,500	51	8.8	5,480	7.9
Nov. 21-30	38.4	5.3	—	253	223	791	9.6	296	—	2,780	85	—	10	—	4,300	5.85	446	1,550	1,310	52	8.7	5,020	7.6
Dec. 1-10	29.0	5.2	—	290	255	849	9.2	388	—	2,990	99	—	12	—	4,700	6.39	368	1,770	1,450	51	8.8	5,390	7.9
Dec. 11-20	24.0	18	—	449	336	602	89	1,020	—	2,650	206	—	5.1	.51	4,860	6.61	315	2,500	1,670	33	5.2	5,490	7.2
Dec. 21-31	20.0	32	—	410	394	506	124	900	—	2,700	274	—	1.0	.61	4,880	6.64	264	2,640	1,910	28	4.3	5,460	7.2
Jan. 1-10, 1955	20.0	12	—	308	271	810	9.6	472	—	3,050	109	—	15	.41	4,820	6.56	260	1,880	1,500	48	8.1	5,420	7.7
Jan. 11-20	20.0	9.1	—	253	220	675	7.8	372	—	2,500	88	—	13	.32	3,950	5.37	213	1,540	1,230	49	7.5	4,530	7.9
Jan. 21-31	20.0	12	—	311	274	810	8.9	492	—	3,050	109	—	14	.39	4,830	6.57	261	1,900	1,500	48	8.1	5,430	7.7
Feb. 1-10	20.0	9.9	—	286	243	732	8.4	446	—	2,750	100	—	14	.35	4,360	5.93	235	1,710	1,350	48	7.7	4,980	7.6
Feb. 11-19	22.8	9.4	—	277	244	713	7.6	434	—	2,670	97	—	15	.35	4,250	5.78	262	1,690	1,340	48	7.5	4,870	7.8
Feb. 20-28	26.7	10	—	283	244	725	8.2	422	—	2,670	98	—	14	.34	4,270	5.81	308	1,710	1,350	48	7.6	4,890	7.7
Mar. 1-3	31.7	10	—	255	243	737	8.1	360	—	2,720	102	—	14	.37	4,270	5.81	365	1,640	1,340	49	7.8	4,930	7.8
Mar. 4-6, 8	38.8	7.8	—	162	100	370	8.8	192	—	1,340	52	—	1.7	.29	2,140	2.91	224	815	658	49	5.6	2,690	7.2
Apr. 23-26	79.5	13	—	180	146	453	6.5	310	—	1,630	59	—	6.0	.27	2,650	3.60	569	1,050	796	48	6.1	3,280	8.0
Apr. 27-30	81.8	14	—	138	92	284	5.4	306	—	1,020	39	—	8.4	.19	1,750	2.38	387	723	472	46	4.6	2,360	7.7
May 1-10	77.2	12	—	167	136	439	7.1	310	—	1,560	56	—	4.7	.27	2,520	3.43	525	976	722	49	6.1	3,160	7.7
May 11-20	44.9	7.1	—	188	179	563	8.5	288	—	2,020	70	—	2.4	.31	3,180	4.32	386	1,210	969	50	7.1	3,890	7.8
May 21-31	38.4	7.5	—	192	176	563	8.5	274	—	2,030	72	—	2.0	.33	3,180	4.32	330	1,200	978	50	7.1	3,950	7.8
June 1-10	41.2	7.5	—	206	195	595	9.1	300	—	2,190	81	—	8.5	—	3,440	4.68	383	1,320	1,070	49	7.1	4,160	7.8
June 11-20	33.2	9.8	—	255	237	773	10	308	—	2,850	100	—	4.5	.40	4,390	5.97	394	1,610	1,360	51	8.4	5,110	7.8
June 21-30	27.3	6.2	—	226	222	699	9.4	279	—	2,560	87	—	4.3	—	3,950	5.37	291	1,480	1,250	51	7.9	4,650	7.7
July 1-10	14.4	5.4	—	272	273	851	11	276	—	3,210	110	—	2.1	—	4,870	6.62	189	1,800	1,580	50	8.7	5,470	7.5
July 11-20	12.0	5.7	—	249	258	815	10	240	—	3,020	102	—	2.1	.38	4,580	6.23	148	1,680	1,490	51	8.6	5,230	7.6
July 21-31	47.9	6.0	—	239	239	751	11	240	—	2,810	94	—	1.6	—	4,270	5.81	552	1,580	1,380	51	8.2	4,900	7.4
Aug. 1-10	93.2	15	—	256	198	651	12	246	—	2,460	81	—	4.9	.43	3,800	5.17	956	1,450	1,250	49	7.1	4,470	7.8
Aug. 11	81.0	16	—	269	201	640	12	254	—	2,460	72	—	9.9	—	3,890	5.17	523	1,500	1,290	48	7.2	4,410	7.7
Aug. 12-20	110	15	—	248	107	301	10	268	—	1,400	44	—	1.7	.23	2,260	3.07	671	1,060	840	38	4.0	2,790	7.4
Aug. 21-23	27.0	18	—	204	109	330	9.3	300	—	1,310	43	—	7.6	.24	2,180	2.96	159	957	711	43	4.6	2,740	7.6
Aug. 24-30	47.5	7.6	—	262	280	841	11	264	—	3,190	105	—	2.5	.51	4,820	6.56	618	1,800	1,590	50	8.6	5,540	7.9
Sept. 1-10	11.1	6.3	—	256	266	791	11	266	—	3,010	92	—	3.7	.48	4,570	6.22	137	1,730	1,510	50	8.3	5,310	7.9
Sept. 11-17	10.4	4.7	—	270	252	812	11	246	—	3,760	92	—	3.7	.46	4,620	6.28	130	1,710	1,510	51	8.5	5,280	7.6
Sept. 26-30	21.6	9.5	—	233	222	719	10	284	—	2,600	80	—	8.2	.40	4,020	5.47	234	1,490	1,260	51	8.1	4,750	7.5

GREEN RIVER AT GREEN RIVER, UTAH—Continued

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Water year 1946																							
Maximum, Dec. 11-20, 1945—	1,265	14		96	48	124		282		387	50		2.1		860	1.17	2,940	437	206	38		1,240	7.3
Minimum, June 11-20, 1946—	15,930	12		40	12	27		175		48	10		.4		236	.32	10,200	150	6	28		376	
Average				74	31	83		230		242	35		1.9		592							886	
Water year 1947																							
Maximum, Jan. 11-20, 1947—	1,510	6.9	0.07	96	46	118		289		349	58	0.6	.7		818	1.11	3,460	428	192	37		1,220	7.6
Minimum, May 11-20, 1947—	29,020	12		50	12	29		182		69	11		1.7		274	.37	21,300	174	26	27		434	7.9
Average	7,574			71	29	80		222		229	33		1.2		563							857	
Water year 1948																							
Maximum, Dec. 11-20, 1947—	1,764	13		82	43	111		244		344	45		1.8		760	1.03	3,620	382	182	39		1,130	7.5
Minimum, June 11-20, 1948—	15,330	10		39	12	23		140		66	10		.0		229	.31	9,480	147	32	25		360	
Average	5,713			68	30	80		212		232	35		1.5		562							844	
Water year 1949																							
Maximum, Dec. 11-20, 1948—	1,921	13		90	44	125		274		363	52		2.3		824	1.12	4,270	406	181	40		1,180	8.1
Minimum, May 11-20, 1949—	19,520	13		54	16	39		199		98	13		2.9		334	.45	17,600	200	38	30		533	7.9
Average	6,764			75	32	90		234		260	36		2.4		621							928	
Water year 1950																							
Maximum, Dec. 21-31, 1949—	1,871	14		98	57	107		265		384	55		2.0		857	1.17	4,330	479	246	33		1,290	7.5
Minimum, June 11-20, 1950—	26,690	11		50	13	20		182		59	8		.7		251	.34	18,100	178	29	20		428	7.8
Weighted Average	7,612														676								
Water year 1951																							
Maximum, Jan. 11-20, 1951—	1,671	15		98	49	121		297		390	55		1.4		913	1.24	4,120	446	202	37		1,290	
Minimum, July 1-10, 1951—	13,860	12		44	13	24		162		65	10		.8		267	.36	9,990	164	31	24		403	
Weighted average	5,948	12		61	23	51		201		157	21		1.2		449	.61	7,210	246	82	31		662	
Water year 1952																							
Maximum, Dec. 11-20, 1951—	1,582	15		100	52	127	4.1	294		405	49		2.1		936	1.27	4,000	464	222	37		1,280	
Minimum, June 11-20, 1952—	37,160	11		44	11	20	3.5	168		42	7		.7		244	.33	24,480	155	18	21		390	
Weighted average	9,427	14		64	23	55	4.7	214		163	21	7.0	1.9		459	.82	11,680	254	78	31		693	
Water year 1953																							
Maximum, Nov. 1-30, 1952—	2,099	11		88	49	126	3.8	256		401	52		2.3		902	1.23	5,010	421	211	39	2.7	1,280	
Minimum, July 21-30, 1953—	20,880	11		46	12	21	2.9	163		58	8.8		2.0		248	.34	13,580	164	31	21	.7	391	
Weighted average	4,689	12		64	27	62	3.2	202		188	26		2.1		456	.67	6,280	270	105	33	1.6	740	
Water year 1954																							
Maximum, Dec. 13-20, 1953—	1,292			108	46	139									1,000	1.36	3,490	460	40	2.8		1,400	
Minimum, May 21-31, 1954—	15,280			42	9.7	24				237					237	.32	9,780	146	26	.9		389	7.9
Weighted average	3,689			65	22	65				498					498	.68	4,960	252	36	1.8		749	

GREEN RIVER AT GREEN RIVER, UTAH—Continued

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Water year 1936																							
Maximum, Dec. 21-31, 1935-	975							287		389	70	0.4	0.8		939	1.28	2,472					1,290	
Minimum, May 21-31, 1936-	24,400														226	.31	14,890					349	
Weighted average	5,713														416	.57	6,420						
Water year 1937																							
Maximum, Dec. 11-20, 1936-	1,140														952								
Minimum, May 21-31, 1937-	22,600														295								
Weighted average	5,709														517								
Water year 1938																							
Maximum, Sept. 1-10, 1938-	7,120														1,040								
Minimum, June 11-20, 1938-	22,500														265								
Weighted average	6,557														467								
Water year 1939																							
Maximum, Sept. 11-20, 1939-	2,854														883	1.20	6,780					1,240	
Minimum, May 21-31, 1939-	13,518														286	.39	10,400					438	
Weighted average	4,724														505	.69	6,450						
Water year 1940																							
Maximum, Sept. 21-30, 1940-	1,791														1,090								
Minimum, June 21-30, 1940-	4,959														226								
Weighted average	3,273														508								
Water year 1941																							
Maximum, Aug. 11-20, 1941-	5,310														933								
Minimum, June 21-30, 1941-	16,900														307								
Weighted average	5,860														505								
Water year 1942																							
Maximum, Sept. 11-20, 1942-	1,532														837								
Minimum, June 11-20, 1942-	23,710														260								
Weighted average	6,893														480								
Water year 1943																							
Maximum, Sept. 29, 1943-	1,750														2,007								
Minimum, May 1-10, 1943-	17,040														272								
Weighted average	5,900														442								
Water year 1944																							
Maximum, Jan. 11-20, 1944-	1,257	12		104	51	138		301		415	61		5.5		935	1.27	3,170	469	222	39		1,380	
Minimum, June 21-30, 1944-	20,290			73	8.7	25		166		63	8.8		3		238	.32	15,400	161	25	25		407	
Average				50	33	95		225		271	40		2.4		633							958	
Water year 1945																							
Maximum, Dec. 11-20, 1944-	1,272	12		98	51	144		293		418	64		2.2		934	1.27	3,210	454	214	41		1,360	
Minimum, July 11-20, 1945-	11,260	12		48	13	30		167		79	12		2.3		279	.38	8,480	174	36	27		450	
Average				74	33	90		228		261	38		1.9		622							944	

GREEN RIVER BASIN
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH

LOCATION.—At gaging station just downstream from bridge on State Highway 24, 15 miles southwest of Green River, Emery County and 35 miles upstream from mouth.

DRAINAGE AREA.—1,650 square miles, approximately.

RECORDS AVAILABLE.—Chemical analyses: November 1946 to September 1949, November 1950 to September 1955. Water temperatures: July to September 1949, October 1950 to September 1955.

EXTREMES, 1948-49, 1950-55.—Dissolved solids: Maximum, 5,650 ppm July 11, 13-18, 1954; minimum, 541 ppm June 11-20, 1952. Hardness: Maximum, 2,280 ppm July 11, 13-18, 1954; minimum, 330 ppm June 11-20, 1952.

Specific conductance: Maximum daily, 7,230 micromhos July 15, 1954; minimum daily, 756 micromhos June 14, 1952. Water temperatures 1949, 1950-55: Maximum observed, 95° F July 11, 1954; minimum observed, freezing point on many days during winter months.

REMARKS.—Values reported for dissolved solids are sums of determined constituents. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply Paper 1393.

Chemical analyses, in parts per million																								
Date of collection	Mean dis-charge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Mag-nesium (Mg)	So-dium (Na)	Po-tas-sium (K)	Bicar-bonate (HCO ₃)	Car-bonate (CO ₃)	Sul-fate (SO ₄)	Chlo-ride (Cl)	Fluo-ride (F)	Ni-trate (NO ₃)	Bo-ron (B)	Dissolved solids			Hardness as CaCO ₃		Per-cent so-dium	So-dium adsorp-tion ratio	Specific conduct-ance (micro-mhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium, mag-nesium	Non-carbon-ate					
Water year 1947																								
Maximum, Sept. 1, 9, 18, 23, 1947	60	7.8		324	179			252		2,320	66		5.8			3,570	4.86	578	1,540	1,340	43		4,040	
Minimum, May 9, 23, 29, 1949	771	5.9		84	43	540	86	241		342	13		2.8			695	.95	1,450	386	189	33		1,010	
Water year 1948																								
Maximum, Oct. 8, 15, 25, 30, 1947	36	7.0		334	230			316		2,800	84		2.8			4,310	5.86	419	1,780	1,520	46		4,950	
Minimum, May 21-31, 1948	514	8.9	0.08	94	44	73	697	12		349	13	0.3	2.4	0.02		720	.98	999	416	210	27		1,090	7.9
Water year 1949																								
Maximum, Oct. 10, 14, 21, 1948	10.6	6.8		420	263		857	296		3,440	120		.3			5,250	7.14	150	2,130	1,890	47		5,800	
Minimum, June 11-20, 1949	1,316	10	.14	94	45	76	3.8	232		369	10	.2	.9			723	.98	2,570	420	230	28		1,050	7.8
Weighted average -----	245	9.9	.06	148	81	166	6.1	256		794	24	.2	2.0			1,360	1.85	900	702	492	34		1,760	
Water year 1951																								
Maximum, May 11-20, 1951	36.5	9.4		312	259	849		314		3,190	92		1.0			4,870	6.62	480	1,840	1,590	50		5,500	
Minimum, June 1-3, 1951	734	11	.07	85	38	77	5.6	249		317	12	.6	.8			670	.91	1,330	368	164	31		1,010	7.6
Weighted average -----	76.6	11	.07	193	124	342	8.0	292		1,390	39	.4	1.7			2,250	3.06	465	992	752	43		2,740	
Water year 1952																								
Maximum, Dec. 1-10, 1951	40.0	14	.04	352	252	703	13	502		2,780	78	.2	4.7			4,440	6.04	480	1,190	1,500	44	7.0	4,950	7.7
Minimum, June 11-20, 1952	2,153	8.1	.13	76	34	55	2.8	237		235	12	.2	.9			541	.74	3,140	330	136	26	1.3	809	7.8
Weighted average -----	430	8.9	.08	116	62	149	4.4	250		612	20	.3	1.7			1,100	1.50	1,280	544	340	37	2.8	1,450	
Water year 1953																								
Maximum, Sept. 21-30, 1953	14.1	7.6	.10	330	236	716	12	283		2,820	90	.2	.9			4,350	5.92	166	1,790	1,560	46	10	4,950	7.8
Minimum, June 11-20, 1953	869	7.4	.12	91	43	80	3.6	230		348	12	.3	2.2	.05		701	.95	1,640	404	216	30	15	993	7.8
Weighted average -----	111	9.4	.09	191	122	322	7.0	285		1,330	40	.3	2.6			2,170	2.95	650	978	744	41	4.5	2,650	
Water year 1954																								
Maximum, July 11-18, 1954	19.1	10		428	294	949	16	302		3,640	166		1.5	.52		5,650	7.68	291	2,280	2,030	47	8.7	6,270	7.3
Minimum, May 12-22, 1954	185	9.8		116	79	192	5.6	263		779	23		2.1	.17		1,340	1.82	669	614	399	40	3.4	1,780	7.7
Weighted average -----	54.0	10		249	152	428	8.5	302		1,800	54		2.8			2,850	3.88	416	1,250	999	43	5.7	3,350	

GREEN RIVER AT GREEN RIVER, UTAH—Continued

Chemical analyses, in parts per million, water year October 1954 to September 1955

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25° C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium magnesium	Non-carbonate				
Oct. 1-10, 1954	2,160	—	—	132	32	121	—	—	—	—	—	—	—	—	960	1.31	5,600	462	—	36	2.5	1,320	—
Oct. 11-20	2,396	14	0.16	100	38	109	6.0	242	—	381	44	0.3	5.3	0.25	832	1.13	5,360	406	207	36	2.4	1,180	7.7
Oct. 21-23, 25-31	2,228	—	—	84	29	106	—	—	—	—	—	—	—	—	725	.99	4,360	332	—	41	2.5	1,060	—
Oct. 24	2,130	—	—	115	43	171	—	—	—	—	—	—	—	—	—	—	—	464	—	44	3.4	1,510	—
Nov. 1-10	2,014	—	—	84	32	126	—	—	—	—	—	—	—	—	761	1.03	4,140	344	—	45	3.0	1,060	—
Nov. 11-20	2,018	—	—	91	34	143	—	—	—	—	—	—	—	—	800	1.09	4,360	368	—	46	3.3	1,130	—
Nov. 21-24, 26	2,088	—	—	83	35	143	—	—	—	—	—	—	—	—	773	1.05	4,360	352	—	47	3.3	1,090	—
Dec. 1-10	1,484	—	—	81	44	156	—	—	—	—	—	—	—	—	839	1.14	3,360	384	—	47	3.5	1,190	—
Dec. 11-20	1,209	—	—	101	42	163	—	—	—	—	—	—	—	—	918	1.25	3,000	424	—	46	3.4	1,280	—
Dec. 21-31	1,203	—	—	114	50	136	—	—	—	—	—	—	—	—	1,030	1.40	3,350	490	—	38	2.7	1,420	—
Jan. 1-10, 1955	1,470	—	—	95	41	123	—	—	—	—	—	—	—	—	847	1.15	3,360	408	—	40	2.7	1,220	—
Jan. 11-20	1,219	12	.04	88	40	106	3.0	269	—	317	50	.2	3.2	.20	773	1.05	2,540	384	164	37	2.3	1,130	7.8
Jan. 21-31	1,209	—	—	91	34	103	—	—	—	—	—	—	—	—	737	1.00	2,410	368	—	38	2.3	1,080	—
Feb. 1-10	1,535	—	—	87	31	89	—	—	—	—	—	—	—	—	684	.93	2,830	346	—	36	2.1	1,010	—
Feb. 11-20	1,641	—	—	85	31	90	—	—	—	—	—	—	—	—	677	.92	3,000	340	—	37	2.1	991	—
Feb. 21-28	1,475	—	—	77	33	89	—	—	—	—	—	—	—	—	636	.86	2,530	326	—	37	2.1	943	—
Mar. 1-10	1,820	—	—	81	31	93	—	—	—	—	—	—	—	—	668	.91	3,280	328	—	38	2.2	979	—
Mar. 11-20	6,095	—	—	77	26	101	—	—	—	—	—	—	—	—	665	.90	10,940	300	—	42	2.5	991	—
Mar. 21-31	3,688	—	—	76	29	105	—	—	—	—	—	—	—	—	704	.96	7,010	308	—	43	2.6	1,010	—
Apr. 1-10	3,491	—	—	83	30	99	—	230	—	—	—	—	—	—	703	.96	6,630	330	141	39	2.4	1,060	7.8
Apr. 11-20	5,159	12	.06	72	30	90	4.1	220	—	266	36	.2	3.5	.20	639	.87	8,900	303	122	39	2.2	945	7.7
Apr. 21-30	7,029	—	—	62	18	56	—	190	—	—	—	—	—	—	443	.60	8,410	228	72	35	1.6	678	7.8
May 1-10	8,535	—	—	51	14	42	—	177	—	—	—	—	—	—	360	.49	7,830	196	51	32	1.3	567	8.0
May 11-20	12,340	—	—	54	9.2	27	—	174	—	—	—	—	—	—	288	.39	9,400	172	29	25	.9	455	7.7
May 21-31	12,520	—	—	45	8.7	24	—	146	—	—	—	—	—	—	244	.33	8,250	148	28	26	.9	397	7.7
June 1-10	10,220	—	—	47	9.2	28	—	146	—	—	—	—	—	—	275	.37	7,590	156	36	28	1.0	436	7.8
June 11-20	12,230	—	—	45	10	29	—	140	—	—	—	—	—	—	260	.35	8,590	154	39	29	1.0	426	7.7
June 21-30	10,550	—	—	44	9.6	29	—	142	—	—	—	—	—	—	259	.35	7,380	150	34	30	1.0	428	7.7
July 1-10	6,036	—	—	45	8.8	29	—	135	—	—	—	—	—	—	263	.36	4,290	148	37	30	1.0	422	7.5
July 11-20	2,840	12	.05	49	18	44	2.5	162	—	122	24	.2	1.1	.08	362	.49	2,780	196	64	32	1.4	559	7.6
July 21-26, 28-31	2,140	—	—	64	15	72	—	194	—	—	—	—	—	—	471	.64	2,720	224	65	41	2.1	736	7.6
July 27	2,560	—	—	94	28	104	—	182	—	—	—	—	—	—	758	1.03	4,220	352	203	39	2.4	1,060	8.1
Aug. 1-10	2,788	—	—	72	18	86	—	196	—	—	—	—	—	—	558	.76	4,200	256	95	42	2.3	842	8.0
Aug. 11-20	2,524	—	—	75	27	94	—	216	—	—	—	—	—	—	559	.76	3,310	300	123	41	2.4	967	7.8
Aug. 21-26, 28-30	2,513	—	—	80	21	96	—	208	—	—	—	—	—	—	633	.86	4,290	288	117	42	2.5	939	7.9
Aug. 27, 31	2,685	—	—	133	39	133	—	252	—	—	—	—	—	—	1,070	1.46	7,760	492	285	37	2.6	1,450	7.6
Sept. 1-2, 4-10	1,541	—	—	89	22	98	—	204	—	—	—	—	—	—	674	.92	2,800	312	145	41	2.4	994	7.8
Sept. 3	1,720	—	—	154	28	111	—	202	—	—	—	—	—	—	1,030	1.40	4,780	500	334	33	2.2	1,360	7.7
Sept. 11-20	1,024	—	—	77	24	99	—	206	—	—	—	—	—	—	644	.88	1,780	292	123	43	2.5	970	7.7
Sept. 21-30	940	—	—	77	30	108	—	204	—	—	—	—	—	—	699	.95	1,850	316	149	43	2.6	1,050	7.9
Weighted averages	43,249	—	—	64	19	63	—	—	—	—	—	—	—	—	466	0.63	4,970	238	—	37	1.8	706	—

Represents 99 percent of runoff for water year October 1954 to September 1955.

GREEN RIVER BASIN—Continued
SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH—Continued

Chemical analyses, in parts per million, water year October 1954 to September 1955

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium magnesium	Non-carbonate				
Oct. 4-5, 8, 10-11, 1954-	92.4	11	—	340	75	180	11	187	—	1,320	37	—	2.8	—	2,070	2.82	516	1,160	1,000	25	2.3	2,420	7.7
Oct. 6-7	23.5	12	—	367	169	493	13	284	—	2,280	83	—	2.4	—	3,560	4.84	226	1,610	1,380	40	5.3	4,060	7.6
Oct. 12-20	19.6	9.3	—	436	175	486	13	290	—	2,450	79	—	2.1	0.33	3,790	5.15	201	1,810	1,570	37	5.0	4,240	7.7
Oct. 21-31	24.5	11	—	348	210	656	13	271	—	2,700	83	—	2.2	—	4,160	5.66	275	1,730	1,510	45	6.9	4,650	7.8
Nov. 1-10	24.2	10	—	312	222	650	13	289	—	2,620	83	—	2.5	—	4,050	5.51	265	1,690	1,450	45	6.9	4,540	7.7
Nov. 11-20	32.0	9.6	—	290	198	615	11	259	—	2,440	71	—	3.5	.38	3,770	5.13	326	1,540	1,330	46	6.8	4,330	7.8
Nov. 21-30	29.7	9.3	—	282	209	600	10	284	—	2,410	74	—	2.9	—	3,740	5.09	300	1,560	1,330	45	6.6	4,230	7.8
Dec. 1-10	29.7	9.3	—	294	198	550	10	314	—	2,270	72	—	3.0	—	3,560	4.84	285	1,550	1,290	43	6.1	4,080	8.0
Dec. 11-20	43.5	13	—	272	194	494	7.4	288	—	2,150	64	—	3.5	.30	3,340	4.54	392	1,480	1,240	42	5.6	3,910	7.8
Dec. 21-31	40.0	14	—	284	193	456	7.8	278	—	1,970	68	—	3.4	—	3,180	4.32	343	1,500	1,150	40	5.1	3,730	7.7
Jan. 1-10, 1955	37.5	13	—	264	165	364	7.1	285	—	1,650	64	—	3.0	—	2,720	3.70	275	1,340	1,070	37	4.3	3,310	7.7
Jan. 11-20	32.5	14	—	278	162	374	7.1	464	—	1,630	59	—	3.2	.25	2,760	3.75	242	1,360	980	37	4.4	3,320	7.6
Jan. 21-31	32.1	12	—	242	151	354	5.9	415	—	1,480	55	—	3.0	—	2,510	3.41	218	1,220	885	38	4.4	3,080	7.7
Feb. 1-10	34.7	12	—	238	145	320	6.3	378	—	1,450	56	—	3.2	—	2,420	3.29	227	1,190	880	37	4.0	2,960	7.7
Feb. 11-19	37.8	11	—	256	143	347	6.3	424	—	1,540	60	—	3.6	.30	2,590	3.52	264	1,270	920	37	4.2	3,120	7.7
Feb. 20-28	36.7	12	—	226	149	326	6.3	360	—	1,460	55	—	3.1	—	2,410	3.28	239	1,180	882	37	4.1	2,940	7.7
Mar. 1-10	53.8	11	—	146	80	218	4.9	294	—	883	33	—	3.4	.14	1,530	2.08	222	718	477	40	3.5	2,000	7.3
Mar. 11, 15, 17-18	161	9.8	—	212	102	375	6.5	250	—	1,480	41	—	3.3	.17	2,350	3.20	1,020	948	744	46	5.3	2,920	7.5
Mar. 21-31	103	9.6	—	228	137	409	6.9	300	—	1,650	55	—	3.1	.20	2,650	3.60	737	1,130	886	44	5.3	3,140	7.5
Apr. 1-10	55.3	9.7	—	249	170	465	7.5	300	—	1,960	64	—	2.6	.24	3,080	4.19	460	1,320	1,070	43	5.6	3,580	7.6
Apr. 11-20	35.6	7.8	—	275	193	552	8.7	302	—	2,270	77	—	1.3	.24	3,530	4.80	339	1,480	1,230	45	6.2	4,040	7.6
Apr. 21-30	36.5	8.5	—	230	170	466	11	266	—	1,870	70	—	1.3	—	2,960	4.03	292	1,270	1,060	44	5.7	3,440	7.9
May 1-10	18.5	6.3	—	302	217	602	14	296	—	2,510	94	—	.7	—	3,890	5.29	194	1,650	1,400	44	6.5	4,420	7.8
May 11-15	62.8	8.2	—	236	175	500	12	248	—	2,060	66	—	2.0	.28	3,180	4.32	539	1,310	1,110	45	6.0	3,740	7.9
May 16-20	59.6	8.9	—	166	101	250	12	282	—	1,070	39	—	1.5	.17	1,790	2.43	288	830	598	39	3.8	2,280	7.7
May 21-24, 29-31	70.0	8.3	—	163	129	316	8.3	266	—	1,320	47	—	1.5	—	2,110	2.91	404	982	764	41	4.4	2,680	7.8
May 25-28	123	7.3	—	126	75	163	5.4	267	—	719	22	—	1.7	—	1,250	1.70	415	623	404	36	2.8	1,700	7.6
June 1-9	84.7	11	—	183	130	355	8.2	276	—	1,410	44	—	1.6	—	2,280	3.10	521	991	765	44	4.9	2,830	7.4
June 10-11, 13-19	153	11	—	138	89	212	5.8	252	—	888	30	—	1.5	.17	1,500	2.04	620	710	504	39	3.5	1,990	7.5
June 20	134	9.5	—	209	149	471	—	296	—	1,770	50	—	1.3	—	2,810	3.82	1,020	1,130	892	47	6.1	3,440	7.2
June 21-30	36.3	9.9	—	214	162	427	9.1	269	—	1,800	48	—	1.4	—	2,810	3.82	291	1,200	980	43	5.4	3,430	7.6
July 1-10	9.4	14	—	280	212	569	13	252	—	2,360	88	—	2.3	—	3,660	4.98	92.9	1,570	1,360	44	6.2	4,320	8.0
July 11-13, 18	1.1	18	—	315	233	696	13	254	—	2,690	108	—	1.9	.42	4,160	5.66	12.4	1,740	1,540	45	6.8	4,760	7.9
July 23, 26-29	9.1	16	—	498	237	469	18	215	—	2,790	88	—	3.3	—	4,230	5.75	104	2,220	2,040	31	4.3	4,610	7.8
Aug. 1, 4, 6, 10	50.3	13	—	417	178	375	18	240	—	2,210	66	—	1.6	—	3,400	4.62	462	1,770	1,580	31	3.9	3,890	7.5
Aug. 8	118	20	—	224	63	166	11	263	—	825	36	—	1.1	—	1,530	2.08	487	818	520	30	2.5	1,990	7.4
Aug. 12, 14, 18-19	78.2	15	—	405	131	345	15	262	—	1,940	60	—	1.2	.32	3,040	4.13	642	1,560	1,390	32	3.8	3,510	7.3
Aug. 15-17	58.0	17	—	219	42	227	7.9	243	—	1,650	30	—	1.2	—	1,650	2.24	258	760	562	39	3.6	2,110	7.6
Aug. 21-31	22.9	18	—	355	115	348	11	267	—	1,750	71	—	4.4	—	2,800	3.81	173	1,360	1,140	36	4.1	3,310	7.6
Sept. 1-6, 9, 12, 30	1.8	13	—	377	168	420	15	203	—	2,180	98	—	2.3	.34	3,370	4.58	16.4	1,630	1,460	36	4.5	3,880	7.8
Weighted average	46.2	11	—	240	141	379	8.5	295	—	1,630	54	—	2.4	—	2,610	3.55	326	1,180	937	41	4.8	3,120	—

aRepresents 91 percent of runoff for water year October 1954 to September 1955.

DIRTY DEVIL RIVER BASIN--Continued
 DIRTY DEVIL RIVER NEAR HANESVILLE-- Continued

Chemical analyses, in parts per million, November 1946 to July 1948.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate					
Jan. 1-2, 4-9, 1948	120	37	0.06	156	40	102	6.0	200	—	463	95	0.4	2.9	0.01	1,000	1.36	324	554	390	28	—	1,360	8.1	
Jan. 11-20	120	34	.06	166	44	141	6.4	204	—	527	135	.4	3.3	.01	1,160	1.98	376	595	428	34	—	1,570	8.1	
Jan. 21-23, 25-31	120	32	.03	200	36	118	10	174	—	621	88	.3	4.3	.01	1,200	1.63	389	647	504	28	—	1,590	8.1	
Feb. 1-10	100	33	.02	160	36	111	9.6	184	—	488	98	.4	2.6	.01	1,030	1.40	278	547	396	30	—	1,430	8.0	
Feb. 11-20	202	31	.05	176	35	102	5.2	168	—	535	80	.3	4.6	.02	1,050	1.43	573	583	446	27	—	1,380	7.9	
Feb. 21-29	441	23	.04	263	29	90	5.6	148	—	782	25	.4	6.4	.02	1,300	1.77	1,550	775	654	20	—	1,570	7.8	
Mar. 1-2, 4-6, 8-10	214	30	.04	169	28	60	5.2	170	—	468	30	.5	3.2	.02	878	1.19	507	536	397	19	—	1,140	7.9	
Mar. 11-20	176	32	.11	156	30	58	11	170	—	443	35	.3	2.9	.00	852	1.16	405	512	373	19	—	1,120	7.9	
Mar. 21-24, 26-31	189	29	.08	136	28	37	10	172	—	361	20	.3	2.2	.00	708	.96	361	454	314	15	—	956	7.7	
Apr. 1-3, 5, 8-10	144	22	.40	216	65	264	11	194	—	876	227	.2	3.8	.02	1,780	2.42	692	806	648	41	—	2,400	7.7	
Apr. 12-16, 19-20	272	30	.18	182	47	117	9.6	186	—	604	93	.3	1.2	.02	1,180	1.60	867	648	495	28	—	1,590	7.6	
Apr. 17	150	19	—	—	—	—	—	165	—	1,390	317	—	—	—	—	—	—	—	—	—	—	—	3,400	—
Apr. 21-24, 27-30	376	21	.06	234	61	250	7.6	184	—	905	208	.3	1.9	.02	1,780	2.42	1,810	835	684	39	—	2,380	7.6	
May 1, 3-8	123	24	.05	218	66	259	6.8	179	—	894	217	.3	2.8	.02	1,780	2.42	591	816	669	41	—	2,420	7.8	
May 11-15, 17-20	82	21	.07	226	60	266	8.8	195	—	854	155	.3	2.7	.02	1,630	2.22	361	810	650	35	—	2,150	7.6	
May 21-22, 24-26, 28-29	39	22	.09	266	63	301	10	186	—	1,100	206	.3	2.1	.02	2,060	2.80	217	922	770	41	—	2,660	7.5	
May 27	150	20	—	—	—	—	—	263	—	2,060	490	—	—	—	—	—	—	—	—	—	—	—	4,820	—
June 1-5, 8-12	49	25	.08	266	69	278	7.6	158	—	1,090	208	.3	2.8	.03	2,020	2.75	267	947	818	39	—	2,610	7.7	
June 14-18	4	32	.08	238	60	132	7.2	180	—	892	43	.3	.2	.02	1,490	2.03	16.1	840	693	25	—	1,850	7.6	
June 21-23	10	31	.26	246	74	172	4.8	168	—	968	108	.3	.8	.01	1,690	2.30	46.6	918	781	29	—	2,140	7.9	
June 24-25	5	33	—	336	124	520	—	148	—	1,760	370	—	4.9	.01	3,220	4.38	43.5	1,350	1,230	46	—	4,030	8.0	
July 1-2	—	33	—	250	74	161	—	190	—	945	98	—	.3	.02	1,650	—	—	928	773	27	—	2,080	7.8	

DIRTY DEVIL RIVER BASIN
DIRTY DEVIL RIVER NEAR HANKSVILLE

LOCATION.--At gaging station, a quarter of a mile downstream from confluence of Fremont and Muddy Rivers and 2 miles northeast of Hanksville.
RECORDS AVAILABLE.--Chemical analyses: November 1946 to July 1948.
REMARKS.--Daily sampling began December 22, 1947. Samples collected at new gaging station near Hite after July 8, 1948.

Chemical analyses, in parts per million, November 1946 to July 1948.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Nov. 29, 1946 -----	--	--	--	--	--	--	--	217	--	--	220	--	--	--	--	--	--	--	--	--	--	2,350	
Dec. 5 -----	--	--	--	--	--	--	--	198	--	--	25	--	--	--	--	--	--	--	--	--	--	1,000	
Dec. 12, 19 -----	--	--	--	--	--	--	--	202	--	619	148	--	--	--	--	--	--	--	--	--	--	1,760	
Jan. 3, 9, 16, 23, 28, 1947 -----	--	--	--	150	35	53	--	204	--	395	38	0.4	2.0	--	774	1.05	--	518	352	18	--	1,110	
Feb. 7, 13, 20, 27 -----	--	33	--	193	49	162	--	192	--	655	136	1.8	2.8	--	1,330	1.80	--	683	526	34	--	1,750	
Mar. 6 -----	--	--	--	190	29	38	--	202	--	319	20	--	1.2	--	637	1.87	--	684	278	16	--	880	
Mar. 14, 26 -----	--	19	--	242	72	248	--	172	--	907	250	--	3.3	--	1,830	2.49	--	900	759	38	--	2,630	
Mar. 16 -----	--	--	--	--	--	--	--	--	--	749	180	--	--	--	--	--	--	--	--	--	--	2,110	
Apr. 3 -----	--	--	--	--	--	--	--	202	--	504	168	--	1.0	--	--	--	--	--	--	--	--	1,458	
Apr. 9, 17 -----	--	21	--	241	83	414	--	192	--	1,100	382	--	1.7	--	2,340	3.18	--	943	786	49	--	3,220	
May 1-2 -----	--	--	--	173	50	107	--	174	--	596	76	--	1.6	--	1,090	1.48	--	637	494	27	--	1,480	
May 3-10 -----	--	21	0.07	301	87	336	11	196	--	1,250	275	.5	2.6	--	2,380	3.24	--	1,110	948	39	--	3,060	7.6
May 11-20 -----	--	21	.01	317	74	334	16	192	--	1,270	255	.5	3.0	--	2,390	3.25	--	1,100	938	39	--	3,070	7.6
May 21-30 -----	--	15	.15	278	92	380	6.0	212	--	1,260	295	.4	5.4	--	2,440	3.32	--	1,070	898	43	--	3,180	7.8
May 31, June 1-3, 7-10 -----	--	25	.36	251	56	131	6.2	184	--	848	80	.5	.7	--	1,490	2.03	--	856	706	25	--	1,890	7.9
June 4-6 -----	--	21	--	338	85	316	--	200	--	1,300	256	.4	1.9	--	2,420	3.29	--	1,190	1,030	37	--	3,060	7.6
June 11-13, 15-20 -----	--	30	.23	193	62	82	4.4	184	--	659	58	.4	.6	--	1,180	1.60	--	736	566	19	--	1,560	7.8
June 21-30 -----	--	18	.07	422	66	298	11	172	--	1,540	170	.3	2.7	--	2,610	3.55	--	1,320	1,180	33	--	3,120	7.6
July 1-10 -----	--	21	.17	336	81	297	14	161	--	1,340	215	.4	4.5	--	2,390	3.25	--	1,170	1,040	35	--	3,010	7.9
July 11-17, 19 -----	--	21	.03	362	97	414	12	169	--	1,610	282	.4	4.7	--	2,890	3.93	--	1,300	1,160	41	--	3,560	7.8
July 21, 23, 26, 29-31 -----	--	26	.03	368	110	353	13	238	--	1,720	118	.3	1.6	--	2,830	3.85	--	1,370	1,180	36	--	3,310	7.7
Aug. 2, 6-10 -----	--	24	.06	490	97	388	17	226	--	1,890	235	.3	.8	--	3,250	4.42	--	1,620	1,440	34	--	3,370	7.9
Aug. 11 -----	--	17	--	630	121	913	--	240	--	2,480	905	--	1.2	--	5,190	7.06	--	2,070	1,870	49	--	6,470	--
Aug. 12-20 -----	--	20	.03	551	79	253	18	192	--	1,820	155	.4	1.8	--	2,990	4.07	--	1,700	1,540	24	--	3,380	7.8
Aug. 21-31 -----	--	18	.05	549	77	304	15	152	--	1,190	178	.5	2.0	--	3,130	4.26	--	1,690	1,560	28	--	3,570	7.8
Sept. 1-10 -----	--	22	.08	438	69	250	11	148	--	1,480	190	.4	2.3	--	2,540	3.45	--	1,380	1,260	28	--	2,980	7.3
Sept. 11-18, 20 -----	--	25	.13	334	66	242	10	170	--	1,160	208	.3	2.1	--	2,130	2.90	--	1,100	966	32	--	2,670	7.5
Sept. 21-23, 28-30 -----	--	30	.04	285	51	139	8.0	168	--	863	138	.3	1.4	--	1,600	2.18	--	920	783	25	--	2,040	7.6
Oct. 1-3, 8 -----	49	29	.05	217	48	147	7.2	170	--	753	160	.4	2.5	0.02	1,390	1.89	186	739	600	30	--	1,790	7.8
Oct. 15, 25, 30 -----	148	25	--	292	47	129	--	178	--	890	90	.3	3.0	--	1,560	2.12	623	922	776	23	--	1,930	7.7
Nov. 7, 9, 14, 24, 26-27, 30 -----	86	32	.06	224	52	146	8.0	210	--	709	132	.3	3.5	.00	1,410	1.92	327	773	601	29	--	1,890	7.9
Dec. 1-2, 10 -----	123	27	--	237	54	235	--	216	--	851	182	.4	4.1	--	1,700	2.31	565	814	636	39	--	2,230	8.0
Dec. 22-31 -----	80	35	.06	178	46	142	7.2	206	--	565	135	.3	2.9	.01	1,210	1.65	261	633	464	32	--	1,650	8.1

COLORADO RIVER MAIN STEM
COLORADO RIVER AT HITE, UTAH

LOCATION.—At gaging station at Hite, Garfield County, a quarter of a mile upstream from Trachyte Creek, 1 mile downstream from White Canyon, 8 miles downstream from Dirty Devil River, and 84 miles upstream from San Juan River.

DRAINAGE AREA.—76,600 square miles, approximately.

RECORDS AVAILABLE.—Chemical analyses; December 1950 to September 1955. Water temperatures; May 1940 to September 1955.

EXTREMES, 1948-55.—Dissolved solids (1950-55): Maximum, 1,990 ppm Sept. 22, 1952; minimum, 251 ppm June 11-20, 1952. Hardness (1950-55): Maximum, 1,080 ppm Sept. 22, 1952; minimum, 155 ppm June 11-20, 1952. Specific conductance (1950-55): Maximum daily, 2,470 micromhos Sept. 22, 1952; minimum daily, 355 micromhos June 19, 1952. Water temperatures (1947-55): Maximum observed, 83° F July 31, 1951, July 14, 29, 1953, July 27, 1955; minimum observed, freezing point or several days during winter months.

REMARKS.—Values reported for dissolved solids sum of determined constituents. Records of specific conductance of daily samples available in U. S. Geological Survey District office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply Paper 1393.

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Water year 1951																							
Maximum, Jan. 11-20, 1951	3,795	15	0.04	120	57	193	8.4	236		484	175	0.3	5.5		1,220	1.66	12,500	534	340	44		1,730	8.1
Minimum, June 21-30, 1951	47,280	18	.01	44	13	28	3.4	138		90	16	.2	1.5		287	.39	36,640	164	50	27		443	7.7
Weighted average	13,910	15	.03	68	24	66	3.7	174		195	47	.3	3.2		521	.71	19,570	268	126	34		773	—
Water year 1952																							
Maximum, Sept. 22, 1952	9,280	14		338	58	208	2.4	214		1,150	109		9.2		1,990	2.71	49,860	1,080	906	29	2.8	2,470	
Minimum, June 11-20, 1952	89,220	11		44	11	20	2.4	141		63	11		1.7		251	.34	60,460	155	40	22	.7	399	
Weighted average	21,250	13		65	23	58	3.3	171		183	37		2.7		491	.67	28,170	256	116	33	1.6	730	
Water year 1953																							
Maximum, Sept. 21-30, 1953	3,220	11		142	64	185	5.5	204		627	130		4.7		1,350	1.84	11,740	618	450	39	3.2	1,800	
Minimum, June 21-30, 1953	40,500	13		53	13	27	1.9	158		88	18		1.3		299	.41	32,700	186	56	24	.9	472	
Weighted average	11,490	14		81	30	82	3.7	188		255	61		3.2		637	.87	19,760	326	172	35	2.0	939	
Water year 1954																							
Maximum, Sept. 10-20, 1954	6,145	14		219	61	183	7.9	204		834	110		4.0	0.23	1,530	2.08	25,380	798	630	33	2.8	2,030	7.8
Minimum, May 21-31, 1954	24,850	11		55	17	38	2.2	158		121	25		3.5		350	.48	23,480	207	78	28	1.2	562	7.7
Weighted average	7,994	12		96	38	112	4.3	190		356	83		4.5		800	1.09	15,320	396	240	38	2.5	1,190	

DIRTY DEVIL RIVER BASIN—Continued
DIRTY DEVIL RIVER NEAR HITE, UTAH—Continued

Chemical analyses, in parts per million, October 1953 to June 1954

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Oct. 1-11, 1953	25	0.07	308	58	141	12	192			929	125	0.5	1.0	0.24	1,690	2.30		1,010	850	23	1.9	2,120	7.5
Oct. 12-17	16	.61	558	90	426	13	200			2,010	335	.5	1.4	.37	3,550	4.83		1,760	1,600	34	4.4	4,180	7.3
Oct. 19-22	19	.08	448	59	198	12	162			1,350	175	.6	2.4	.24	2,340	3.18		1,360	1,230	24	2.3	2,770	7.4
Oct. 23-31	21	.10	420	61	200	12	150			1,320	172	.4	3.1	.25	2,290	3.11		1,300	1,170	25	2.4	2,750	7.6
Nov. 2, 4, 6, 10, 12, 14	23	.11	314	55	158	11	178			965	150	.5	2.7	.23	1,770	2.41		1,010	864	25	2.2	2,230	7.6
Nov. 16, 19-20, 23-24, 30	21	.09	272	52	155	9.7	182			862	135	.6	2.8	.21	1,600	2.18		892	744	27	2.3	2,050	7.7
Dec. 3, 5, 7, 10, 11, 15	28	.08	228	53	122	8.0	189			697	116	.4	2.3	.19	1,350	1.84		787	632	25	1.9	1,810	7.8
Dec. 17, 19, 21, 23	28	.09	221	49	110	7.4	192			656	108	.3	2.6	.16	1,280	1.74		753	596	24	1.7	1,700	7.9
Jan. 5, 7, 9, 11, 13-14, 1954	27	.23	180	49	117	6.9	200			560	112	.2	3.4	.18	1,150	1.56		650	486	28	2.0	1,600	7.8
Jan. 16, 19, 21, 23	28	—	186	41	92	6.8	192			517	90	—	5.1	.18	1,060	1.44		632	475	24	1.6	1,480	7.9
Feb. 2, 4, 7, 9, 11	26	—	219	46	131	6.8	189			666	121	—	3.5	.18	1,310	1.78		736	580	28	2.1	1,800	7.7
Feb. 16, 18, 20, 22, 25, 27	28	—	192	49	130	7.2	180			622	114	—	3.1	.23	1,230	1.67		680	533	29	2.2	1,700	7.8
Mar. 1, 4, 6, 9, 11, 13, 15	28	—	189	52	130	7.9	199			596	123	—	2.7	.19	1,230	1.67		686	522	29	2.2	1,700	7.7
Mar. 17, 20	28	—	—	—	—	—	188			583	118	—	2.1	.24	—	—		635	481	—	—	1,670	7.9
Mar. 26, 27, 31	22	—	370	73	304	14	172			1,340	208	—	9.5	—	2,430	3.36		1,220	1,080	35	3.8	3,000	7.7
Apr. 2, 5, 6, 10, 12, 14	30	.08	250	57	193	10	180			852	180	.5	2.6	.31	1,560	2.26		858	711	32	2.9	2,220	7.7
Apr. 17, 19, 22, 24	31	.08	258	67	194	12	200			879	198	.5	1.3	.32	1,740	2.37		919	755	31	2.8	2,300	7.6
Apr. 26, 28	32	.14	400	110	390	31	380			1,260	520	.8	1.0	.83	2,930	3.98		1,450	1,140	36	4.5	3,900	7.6
May 1	12	—	138	34	94	119	119			473	70	—	.8	—	880	1.20		484	387	30	1.9	1,260	7.7
May 2-5, 8, 10, 13, 15	27	.07	292	76	278	15	209			1,090	250	.6	2.2	.41	2,130	2.90		1,040	870	36	3.7	2,770	7.8
May 18, 20, 22, 27, 29	33	.08	396	129	378	28	189			1,610	405	.9	1.4	.66	3,080	4.19		1,520	1,360	35	4.2	3,850	7.8
May 24, 31	27	.09	540	171	782	53	456			2,020	940	1.0	1.8	1.2	4,760	6.47		2,050	1,680	45	7.5	6,100	7.7
June 2, 4, 7, 12, 14	29	.07	580	209	884	65	358			2,240	1,220	.7	1.6	1.5	5,410	7.36		2,310	2,010	45	8.0	7,010	7.5
June 16, 19, 21, 23, 25-27, 30	30	.06	604	246	1,080	91	214			2,440	1,660	.4	.8	2.2	6,260	8.51		2,520	2,340	47	9.4	8,280	7.4

ESCALANTE RIVER BASIN
ESCALANTE RIVER AT MOUTH WEIR ESCALANTE, UTAH

LOCATION.—at gaging station in Kane County, 5.1 miles upstream from mouth, 2.2 miles downstream from Davis Gulch, and about 50 miles southeast of Escalante, Garfield County.

RECORDS AVAILABLE.—Chemical analyses: March 1951 to September 1953. Water temperatures: March 1951 to September 1953.

EXTREMES, March 1951 to September 1952.—Dissolved solids: Maximum, 681 (Sum) ppm Sept. 11, 1952; minimum, 208 ppm May 11-20, 1952. Hardness: Maximum, 568 ppm Aug. 21-26, 28-29, 1952; minimum, 148 ppm June 4-5, 7-10, 1952. Specific conductance: Maximum daily, 1,420 micromhos July 11, 1952; minimum daily, 281 micromhos May 16, 1952. Water temperatures: Maximum observed, 93° F July 3, 1952.

REMARKS.—Values reported for dissolved solids are residue on evaporation. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. No discharge records available for this station.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium magnesium	Non-carbonate					
March to September 1951																								
Maximum, Aug. 14-10, 1951		16		82	23	34	11	221		174	22	0.3	0.8		495	0.67		299	118	19		713	7.7	
Minimum, May 21-31, 1951		18	0.05	50	17	21	5.1	186		59	21	.3	1.0		284	.39		195	42	18		460	7.7	
Water year 1952																								
Maximum, Sept. 11, 1952		11		62	38		121	303		260	39	.4	.6		681	.93		310	62	46	3.0	1,010		
Minimum, May 11-20, 1952		17	.06	41	12	12	3.0	144		38	13	.3		0.06	208	.28		152	34	14	.4	352	7.8	
Chemical analyses, in parts per million, water year October 1952 to September 1953																								
Oct. 1-10, 1952															408	.55							611	
Oct. 11-20		21		68	21	29		182		121	35		.6	.11	404	.55		258	109	20	.8	621	8.1	
Oct. 21-30															386	.52							594	
Nov. 1-2, 4, 7-9, 12-13															360	.49							561	
Nov. 14-15		14		75	17	24		214		101	26		.9		370	.50		255	80	17	.6	593	7.4	
Dec. 20		28		52	16	22		178							302	.41		196	50	20	.7	474	7.3	
Jan. 7, 31, 1953		28		49	15	21		172		74	22		.8		285	.39		190	49	19	.7	453	7.8	
Feb. 19				49	15	20		168							267	.36		185	47	19	.6	442	7.4	
Mar. 12-20		24		47	16	23		160		66	26		.2		280	.38		183	52	21	.7	453	8.0	
Mar. 23-30															293	.40							470	
Apr. 4-10																								
Apr. 11, 17-20		18		64	13	26		176		83	32		1.4		327	.44		216	72	21	.8	524	7.7	
Apr. 21-30															335	.46							547	
May 1-10															344	.47							562	
May 11-20		16		55	21	30		170		91	34		5.4		353	.48		224	85	23	.9	575	8.0	
May 21-30															354	.48							576	
June 1-2, 4, 6, 9-10															330	.45							525	
June 11-20		17		52	23	33		166		110	39		.2		357	.49							576	
June 22-30															366	.50		226	90	24	1.0	591	7.8	
July 1-10		18		50	24	33		158		114	40		.2	.12	379	.52							607	
July 11-20															372	.51		225	95	24	1.0	594	7.9	
July 20-31															532	.72							787	
Aug. 1, 3-6, 10-11															540	.73							778	
Aug. 12-20		20		167	33	39		268		367	23		.6		839	1.14		552	332	13	.7	1,100	7.5	
Aug. 21-31															900	1.22							1,160	
Sept. 1-10															528	.72							799	
Sept. 11-12, 17-19		20		117	30	35		209		255	31		.5		641	.87		418	247	15	.7	881	8.0	
Sept. 21-30															650	.61							680	

COLORADO RIVER MAIN STEM—Continued

COLORADO RIVER AT HITE, UTAH—Continued

Chemical analyses, in parts per million, water year October 1954 to September 1955

Chemical analyses, in parts per million, water year October 1954 to September 1955																								
Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate					
Oct. 1-10, 1954	6,075	16	—	150	48	160	7.0	224	—	561	106	—	2.9	—	1,160	1.58	19,030	572	388	37	2.9	1,660	7.7	
Oct. 11-20	6,892	15	—	155	47	145	7.2	220	—	560	93	—	4.8	0.13	1,140	1.55	21,210	580	400	35	2.6	1,610	7.7	
Oct. 21-31	5,595	17	—	121	46	141	5.9	214	—	465	101	—	4.6	—	1,010	1.37	15,260	490	315	38	2.8	1,470	7.8	
Nov. 1-10	5,241	14	—	119	50	154	5.7	216	—	476	110	—	5.0	—	1,040	1.41	14,720	502	326	40	3.0	1,530	7.9	
Nov. 11-20	5,159	11	—	125	49	165	6.2	218	—	490	125	—	4.7	.29	1,080	1.47	15,040	514	335	41	3.2	1,600	7.6	
Nov. 21-30	4,882	12	—	119	52	169	6.2	232	—	486	127	—	4.4	—	1,090	1.48	14,370	511	321	41	3.3	1,620	7.7	
Dec. 1-10	4,519	12	—	120	52	179	6.2	229	—	484	146	—	5.0	—	1,120	1.52	13,670	514	326	43	3.4	1,670	7.8	
Dec. 11-20	3,688	15	—	128	56	192	6.5	246	—	523	154	—	5.8	.15	1,200	1.63	11,590	490	348	43	3.6	1,760	8.1	
Dec. 21-22, 29-31	2,846	13	—	140	61	210	6.9	285	—	548	177	—	6.9	—	1,300	1.77	9,990	600	367	43	3.7	1,910	8.0	
Jan. 1-10, 1955	3,730	14	—	139	60	210	7.1	276	—	539	184	—	9.3	—	1,300	1.77	13,090	594	368	43	3.7	1,920	7.7	
Jan. 11-20	3,485	16	—	120	51	182	4.8	236	—	452	160	—	6.6	.26	1,110	1.51	10,440	509	316	43	3.5	1,670	7.8	
Jan. 21-31	3,195	16	—	124	52	187	4.8	248	—	458	172	—	5.9	—	1,110	1.55	9,830	524	320	43	3.5	1,740	7.9	
Feb. 1-10	3,852	13	—	110	48	179	4.4	227	—	422	165	—	5.6	—	1,060	1.44	11,020	472	286	45	3.6	1,630	7.8	
Feb. 11-19	3,661	12	—	106	45	167	4.8	223	—	392	152	—	5.5	.25	994	1.35	9,830	450	267	44	3.4	1,550	7.9	
Feb. 20-28	3,854	12	—	106	44	167	4.8	217	—	388	154	—	6.6	—	989	1.35	10,290	446	268	45	3.4	1,530	7.8	
Mar. 1-10	6,150	12	—	114	42	161	4.8	201	—	412	144	—	5.8	—	995	1.35	16,520	457	292	43	3.3	1,520	7.7	
Mar. 11-20	11,950	9.4	—	112	35	127	3.8	181	—	425	73	—	5.3	.17	880	1.20	26,390	424	275	39	2.7	1,310	7.6	
Mar. 21-31	6,740	12	—	90	38	136	5.1	201	—	379	94	—	5.7	—	859	1.17	15,630	380	214	43	3.0	1,280	7.5	
Apr. 1-10	6,365	12	—	98	40	149	5.6	210	—	385	118	—	5.1	—	916	1.25	15,740	409	237	44	3.2	1,370	7.5	
Apr. 11-20	9,101	13	—	86	34	121	5.1	196	—	319	93	—	5.0	.15	773	1.05	18,990	354	194	42	2.8	1,180	7.5	
Apr. 21-30	14,150	11	—	67	23	75	4.2	176	—	206	51	—	4.4	—	529	.72	20,210	262	118	38	2.0	825	7.5	
May 1-10	17,030	13	—	60	20	52	3.5	166	—	147	36	—	4.0	—	418	.57	19,220	232	96	32	1.5	669	7.5	
May 11-20	26,430	11	—	54	17	38	2.2	155	—	118	25	—	3.2	.07	344	.47	24,550	204	78	28	1.2	545	7.6	
May 21-31	24,450	10	—	49	15	35	2.2	136	—	108	24	—	3.2	—	313	.43	20,660	184	72	29	1.1	509	7.6	
June 1-10	20,150	13	—	54	16	38	2.5	142	—	123	32	—	2.7	—	351	.48	19,100	200	84	29	1.2	559	7.4	
June 11-20	26,810	14	—	51	15	38	2.5	132	—	122	28	—	2.5	.02	338	.46	24,470	188	80	30	1.2	537	7.3	
June 21-30	22,390	13	—	52	16	38	2.5	136	—	125	30	—	2.3	—	346	.47	20,920	196	84	29	1.2	556	7.3	
July 1-10	12,940	11	—	59	18	48	3.4	142	—	149	44	—	2.8	—	405	.55	14,150	221	104	32	1.4	658	7.3	
July 11-20	6,501	12	—	74	26	79	4.0	157	—	220	70	—	3.5	.11	556	.77	9,930	292	163	37	2.0	883	7.6	
July 21-26, 28-31	4,752	12	—	100	39	125	5.3	180	—	367	100	—	5.5	—	843	1.15	10,820	410	262	39	2.7	1,260	7.3	
July 27a	4,660	—	—	—	—	—	—	211	—	697	174	—	—	—	—	—	—	708	535	—	—	—	2,020	7.1
Aug. 1-10	6,462	17	—	125	41	126	6.2	190	—	431	98	—	8.7	—	947	1.29	16,420	480	325	36	2.5	1,390	7.3	
Aug. 11-20	5,977	18	—	146	42	132	7.4	201	—	516	87	—	8.5	.20	1,060	1.44	17,110	537	372	34	2.5	1,480	7.3	
Aug. 21-31	5,081	16	—	143	46	147	7.2	200	—	544	99	—	9.0	—	1,120	1.51	15,230	546	382	37	2.7	1,570	7.3	
Sept. 1-10	4,012	16	—	134	48	150	7.2	207	—	531	101	—	10	—	1,100	1.50	11,920	532	362	38	2.8	1,570	7.4	
Sept. 11-20	2,547	10	—	143	58	176	7.2	189	—	596	134	—	8.0	.21	1,230	1.67	8,460	596	440	38	3.1	1,780	7.4	
Sept. 21-30	3,135	10	—	162	67	204	7.2	205	—	701	155	—	9.8	—	1,420	1.93	12,020	680	512	39	3.4	1,980	7.5	
Weighted average	68,719	13	—	82	30	93	4.1	175	—	280	70	—	4.4	—	666	0.91	15,680	333	190	37	2.2	1,010	—	
Also included for computation of weighted averages: biapertens 90 percent of runoff for water year October 1954 to September 1955.																								

aNot included for computation of weighted averages.

bRepresents 90 percent of runoff for water year October 1954 to September 1955.

SAN JUAN RIVER BASIN—Continued
SAN JUAN RIVER NEAR BLUFF, UTAH—Continued

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, mg-nesium	Non-carbonate				
Water year 1937																							
Maximum, Sept. 1-10, 1937	918	19	0.13	145	30	161	6.9	298		537	24	0.0	1.0		1,070	1.45	2,650	486	242	41		1520	
Minimum, May 11-20, 1937	14,000	18	.03	42	7.6	15	3.0	127		60	3.2	.0	3.2		213	.29	8,050	136	32	20		332	
Weighted average		18	.12	69	15	44	4.1	160		181	9.3		1.9		422	.57	3,670	234	102	29			
Water year 1938																							
Maximum, Sept. 1-10, 1938	4,660	17	.06	124	21	143	7.0	197		498	21	.1	1.2		929	1.26	11,690	396	234	43		1280	
Minimum, June 1-10, 1938	14,000	16	.01	44	7.3	11	3.8	130		54	2.8	.1	.6		204	.28	7,710	140	34	14		324	
Weighted average	3,410	15	.05	65	14	43	3.8	149		170	8.5	.1	1.4		393	.53	3,620	220	98	29			
Water year 1939																							
Maximum, Aug. 21-31, 1939	37.8	22	.30	226	46	205	10	327		832	48	.7	1.5		1,550	2.11	158	753	485	37		2,200	
Minimum, May 11-20, 1939	5,070	16	.02	46	8.3	16	2.4	127		74	4.6	.4	1.6		238	.32	3,210	149	45	19		170	
Weighted average	1,712	16	.05	73	16	46	4.7	161		195	11.6	.3	2.2		446	.61	2,070	248	116	28			
Water year 1940																							
Maximum, Aug. 13-15, 1940	82	19	.53	175	31	202	7.7	207		758	38	.6	2.0		1,340	1.82	295	565	387	43		1760	
Minimum, May 11-20, 1940	6,177	12	.10	45	8.3	19	3.7	120		78	6.0	.5	1.2		233	.32	3,910	146	48	22		360	
Weighted average	1,372	16	.18	82	18	64	4.5	160		258	15	.5	1.6		539	.73	1,980	278	148	33		773	
Water year 1941																							
Maximum, Feb. 11-19, 1941	1,743	16	.08	105	29	115	9.0	218		397	23	.4	7.2		809	1.10	3,810	381	202	41		1160	
Minimum, June 21-30, 1941	17,790	13	.02	42	6.8	13	3.0	117		53	3.2	.3	.9		193	.26	9,270	133	37	20		307	
Weighted average	5,860	15	.07	68	14	41	4.8	160		154	8.8	.4	.3		387	.53	6,120	227	96	30		603	
Water year 1942																							
Maximum, Sept. 11-20, 1942	855	14	.06	107	35	86		173		400	26	.3	2.5		756	1.03	1,750	411	269	31		1070	
Minimum, June 11-20, 1942	9,475	13	.03	40	6.7	12	2.1	109		56	3.0	.2	.8		188	.26	4,810	128	38	18		303	
Weighted average	4,532	14	.06	66	16	39	3.9	157		168	9.4	.3	1.6		395	.54	4,530	230	102	28		597	
Water year 1943																							
Maximum, Oct. 11-20, 1943	662	12	.08	128	44	123		173		549	36		3.3		981	1.33	1,830	500	358	35		1340	
Minimum, June 1-10, 1943	5,214	11	.05	50	10	25		131		96	7.0	.2	1.8		266	.36	3,740	166	58	24		418	
Weighted average	1,996	13	.12	78	20	51		167		214	15	.3	2.6		476	.65	2,570	276	140	29		698	
Water year 1944																							
Maximum, Mar. 1-10, 1944	851	12	.05	120	37	121		211		474	30	.3	5.5		904	1.23	2,080	452	278	37		1270	
Minimum, June 11-20, 1944	12,460	12	.16	37	5.2	9.7	3.0	109		42	3.2	.2	1.0		167	.23	5,620	112	24	15		274	
Weighted average	3,205	13	.09	62	13	30	4.0	151		134	9.6	.3	2.6		343	.47	2,970	208	84	23		524	
Water year 1945																							
Maximum, Sept. 11-20, 1945	275	12	.06	127	35	129		199		504	35	.4	4.3		945	1.29	702	461	298	38		2750	7.4
Minimum, June 21-30, 1945	6,003	10	.16	41	6.7	18		114		63	5.5	.3	1.5		202	.27	3,270	130	36	23		331	7.6
Weighted average	2,237	12	.16	71	17	49		167		187	13	.4	2.5		434	.59	2,620	247	110	30		648	

SAN JUAN RIVER BASIN
SAN JUAN RIVER NEAR BLUFF, UTAH

LOCATION.—At bridge on State Highway 47, 1,800 feet downstream from gaging station and 20 miles southwest of Bluff, San Juan County.

DRAINAGE AREA.—23,000 square miles, approximately.

RECORDS AVAILABLE.—Chemical analyses: February to June 1927, October 1929 to September 1955. Water temperatures: May 1944 to September 1955.

REMARKS.—Dissolved solids: Maximum, 1,860 ppm July 21-31, 1934; minimum, 152 ppm June 11-20, 1952. Hardness: Maximum, 874 ppm July 21-31, 1934; minimum, 104 ppm June 11-20, 1952. Specific conductance (1941-55): Maximum daily, 2,110 micromhos Aug. 13, 1954; minimum daily, 208 micromhos June 17, 1952. Water temperatures (1944-55): Maximum observed, 85° F July 21, 1945, July 5, 1953; minimum observed, freezing point on many days during winter months.

REMARKS.—Values reported for dissolved solids are residue on evaporation. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water Supply Paper 1393.

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Water year 1929																							
Maximum, Aug. 12-20, 1928	896	32	0.22	150	28	117	5.9	186		548	23		2.4		998	1.36	2,410	490	337	34			
Minimum, June 11-20, 1929	8,604	9.0	.14	32	6.3	10	5.0	93		47	3.2		.6		159	.22	3,690	106	30	16			
Water year 1930																							
Maximum, July 11-20, 1930	2,400	25	.07	182	37	119	6.6	259		606	22		.4		1,130	1.53	7,290	606	394	30			
Minimum, June 11-16, 1930	6,490	13	.06	39	7.5	16	2.1	108		64	4.0		1.3		200	.27	3,500	128	40	21			
Weighted average	2,380	16	.10	75	17	50	3.5	159		214	11		1.7		466	.63	2,990	257	126	29			
Water year 1931																							
Maximum, Sept. 1-10, 1931	118	23	.08	175	39	190	5.4	203		758	40		5.2		1,340	1.82	425	597	430	41			
Minimum, June 11-20, 1931	3,350	16	.12	42	8.0	24	2.2	113		88	6.0		1.5		244	.33	2,200	138	46	27			
Weighted average	1,230	13	.09	85	20	68	3.4	163		274	15		4.8		563	.77	1,870	294	160	33			
Water year 1932																							
Maximum, Nov. 21-30, 1931	664	8.8	.06	123	25	96	4.8	201		404	24		5.5		790	1.07	1,410	410	246	33			
Minimum, June 11-20, 1932	9,920	14	.14	36	6.6	16	2.7	102		62	4.0		.9		193	.26	5,160	117	34	23			
Weighted average	4,049	13	.12	64	13	41	3.4	144		167	8.6		2.1		383	.52	4,180	213	95	29			
Water year 1933																							
Maximum, Dec. 21-29, 1932	265	9.2	.10	145	47	123	4.8	237		561	34		3.9		1,040	1.42	748	556	362	32			
Minimum, June 1-10, 1933	8,775	11	.10	41	7.4	18	2.4	107		70	4.0	0.2	1.5		208	.28	4,930	133	46	22			
Weighted average	1,720	13	.11	77	18	58	3.9	147		240	13		2.3		498	.68	2,313	266	146	32			
Water year 1934																							
Maximum, July 21-31, 1934	674	25	.16	271	48	247	6.2	285		1,070	43	.9	.1		1,060	2.52	3,380	874	640	38			
Minimum, May 11-20, 1934	3,230	14	.24	50	8.8	26	5.3	128		100	8.0	.1	1.4		277	.38	2,416	161	96	25			
Weighted average	—	15	.14	96	22	81	4.5	167		332	18		2.9		655	.89	1,615	330	193	34			
Water year 1935																							
Maximum, Dec. 1-10, 1934	204	12	.06	150	35	135	6.4	235		547	38	.2	6.2		1,050	1.42	576	518	326	36			
Minimum, June 21-30, 1935	12,300	16	.04	38	5.4	13	2.7	112		48	3.0	.2	1.0		182	.25	6,040	117	25	19			
Weighted average	3,020	15	.05	60	11	38	3.4	140		145	8.4	.4	1.9		353	.48	2,870	194	80	29			
Water year 1936																							
Maximum, Aug. 1-10, 1936	3,480	24	.10	134	32	127	6.4	276		456	22	.3	1.2		939	1.28	8,820	466	240	37			
Minimum, May 21-31, 1936	7,020	13	.20	36	6.8	9.9	6.1	97		59	3.4	.1	1.0		185	.25	3,510	118	38	15			
Weighted average	2,250	16	.15	74	16	46	5.1	161		196	10	.3	1.9		445	.61	2,700	250	118	28			

SAN JUAN RIVER BASIN--Continued
SAN JUAN RIVER NEAR BLUFF, UTAH--Continued

Chemical analyses, in parts per million, water year October 1954 to September 1955

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium adsorption ratio	Sodium conductance (micro-mhos at 25°C)	pH		
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate					
Oct. 1-11, 1954	2,201	16		97	17	64	5.2	220		243	17		2.5	—	584	0.79	3,470	312	132	30	1.6	839	7.6	
Oct. 12-20	1,533	14		75	15	45	3.5	157		196	13		2.1	0.07	453	.62	1,880	248	120	28	1.2	661	7.6	
Oct. 21-31	918	13		87	22	63	2.9	164		273	20		3.0	—	586	.80	1,450	308	173	31	1.6	830	7.8	
Nov. 1-10	748	12		95	25	76	3.2	176		325	22		3.1	—	670	.91	1,350	340	196	32	1.8	935	8.1	
Nov. 11-20	649	11		103	32	92	3.3	183		393	26		3.4	.09	794	1.08	1,390	396	246	33	2.0	1,080	7.8	
Nov. 21-30	582	12		112	37	101	3.7	180		443	30		4.0	—	843	1.15	1,320	432	284	33	2.1	1,180	7.8	
Dec. 1-10	586	14		122	42	109	3.9	196		496	33		5.0	—	943	1.28	1,490	477	316	33	2.2	1,280	7.8	
Dec. 11-20	658	15		124	38	112	4.1	196		491	33		5.8	.10	942	1.28	1,670	466	305	34	2.3	1,280	7.9	
Dec. 21, 28, 31	426	14		120	39	119	4.3	181		502	36		5.8	—	977	1.27	1,080	460	312	36	2.4	1,300	7.9	
Jan. 1-10, 1955	546	14		127	40	112	4.3	207		488	36		6.8	—	944	1.28	1,390	482	312	33	2.2	1,300	7.8	
Jan. 11-20	562	16		118	35	101	4.1	198		443	32		5.3	.12	866	1.18	1,310	438	276	33	2.1	1,200	8.0	
Jan. 21-31	400	14		134	40	117	4.1	212		517	37		6.0	—	998	1.36	1,080	499	326	34	2.3	1,340	7.9	
Feb. 1-10	528	13		116	33	101	4.0	200		429	32		5.1	.17	844	1.15	1,200	425	261	34	2.1	1,170	7.9	
Feb. 11-18	666	12		116	32	98	4.0	194		425	32		5.1	—	829	1.13	1,490	421	262	33	2.1	1,150	7.8	
Feb. 21-28	600	12		113	35	107	4.1	194		441	32		5.3	—	854	1.16	1,380	426	267	35	2.3	1,180	7.8	
Mar. 1-10	1,128	12		110	32	98	5.0	178		425	27		6.6	—	830	1.13	2,530	406	260	34	2.1	1,140	7.5	
Mar. 11-20	1,297	12		92	26	75	5.0	168		321	24		6.5	.10	664	.90	2,330	336	199	32	1.8	947	7.6	
Mar. 21-31	682	14		110	31	75	4.6	185		365	28		4.7	—	746	1.01	1,370	402	250	29	1.6	1,090	7.7	
Apr. 1-10	782	15		94	25	73	3.8	173		305	25		4.0	—	645	.88	1,360	338	196	32	1.7	927	7.6	
Apr. 11-20	943	14		92	24	69	3.8	172		291	24		2.9	.06	617	.84	1,570	328	187	31	1.7	893	7.6	
Apr. 21-30	1,425	13		67	16	43	2.6	140		186	23		2.7	—	426	.58	1,540	233	118	28	1.2	699	7.6	
May 1-10	2,096	15		60	13	34	2.8	128		154	9.5		2.7	—	360	.49	2,040	203	98	26	1.0	548	7.9	
May 11-20	3,406	14		51	7.9	22	1.5	127		95	5.8		2.1	.06	266	.36	2,450	160	56	23	.8	420	7.7	
May 21-31	3,537	13		45	7.6	22	2.1	105		96	6.5		2.1	—	251	.34	2,400	144	58	25	.8	393	7.7	
June 1-10	3,618	12		46	10	22	2.7	114		95	7.2		1.4	—	256	.35	2,500	156	62	23	.8	395	7.8	
June 11-20	4,228	10		40	7.5	17	2.1	96		77	5.8		1.5	.00	212	.29	2,420	131	52	22	.6	328	7.8	
June 21-30	2,648	15		43	7.6	21	1.8	98		88	6.9		1.5	—	240	.33	1,720	138	58	24	.8	365	7.6	
July 1-10	1,152	16		54	9.9	36	2.6	120		139	12		1.5	—	340	.46	1,060	175	76	31	1.2	511	7.7	
July 11-14, 16-20	712	18		82	14	72	4.6	150		255	18		2.5	.11	562	.76	1,080	262	131	37	1.9	801	7.8	
July 15a	944	23		128	17	—	—	192		346	24		1.1	—	—	—	988	231	—	—	—	1,200	7.4	
July 21-26	527	16		91	19	74	4.6	174		284	24		2.5	—	627	.85	892	305	162	34	1.8	876	7.7	
July 27-31	2,124	25		134	21	160	6.6	238		531	23		1.2	—	1,050	1.43	6,020	421	226	45	3.4	1,390	7.3	
Aug. 1-10	2,238	21		111	21	116	5.7	258		361	18		.4	—	796	1.08	4,810	364	152	40	2.6	1,120	7.5	
Aug. 11-20	2,753	22		118	18	128	5.7	252		398	18		.2	.09	854	1.16	6,350	368	162	43	2.9	1,170	7.6	
Aug. 21-28, 30-31	1,916	21		94	17	87	4.6	226		284	16		.1	—	659	.90	3,410	304	120	38	2.2	931	7.4	
Aug. 29a	2,770	20		—	—	—	—	222		517	17		.1	—	—	—	—	520	338	—	—	—	1,270	7.2
Sept. 1-10	609	17		80	16	65	4.6	164		244	18		2.8	—	549	.75	903	266	131	34	1.7	780	7.7	
Sept. 11-20	189	15		90	24	111	4.6	144		393	30		1.9	.07	758	1.03	387	323	205	42	2.7	1,060	7.4	
Sept. 21a	472	14		—	—	—	—	184		503	34		4.5	—	—	—	—	424	273	—	—	—	1,310	7.4
Sept. 22-30	508	15		85	17	76	4.6	182		263	22		3.5	—	600	.82	980	282	131	36	2.0	850	7.6	
Weighted average	bl. 395	15	—	78	17	61	3.5	161	—	237	16	—	3.4	—	522	0.71	1,970	284	132	33	1.6	747	—	

aNot included for computation of weighted averages.

bRepresents 98 percent of runoff for water year October 1954 to September 1955.

SAN JUAN RIVER BASIN--Continued
SAN JUAN RIVER NEAR HUFF, UTAH--Continued

Chemical analyses, in parts per million

Date of collection	Mean dis-charge (cfs)	Silica (SiO ₂)	Iron (Fe)	Cal-cium (Ca)	Mag-ne-sium (Mg)	So-dium (Na)	Po-tas-sium (K)	Bicar-bonate (HCO ₃)	Car-bonate (CO ₃)	Sul-fate (SO ₄)	Chlo-ride (Cl)	Fluo-ride (F)	Ni-trate (NO ₃)	Bo-ron (B)	Dissolved solids			Hardness as CaCO ₃		Per-cent so-dium	So-dium adsorp-tion ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium-mag-nesium	Non-carbon-ate				
Water year 1946																							
Maximum, Dec. 11-20, 1945	228	11	0.14	148	45	125		254		537	38	0.4	6.5		1,040	1.41	640	554	346	33		1420	7.4
Minimum, June 11-20, 1946	4,863	10	.21	51	8.1	9.7		116		72	6.0	.7	1.5		216	.29	2,840	160	66	12		386	
Weighted average -----	1,194	13	.12	89	22	66		188		271	18	.6	3.3		576	.78	1,860	312	158	31		811	
Water year 1947																							
Maximum, Aug. 23, 1947-	23,800	19		200	31	137		262		661	16		.3		1,190	1.62	76,500	626	412	32		1590	
Minimum, June 11-20, 1947	4,895	12	.04	41	7.4	20		100		80	5.8	.4	1.2		217	.30	2,870	133	51	24		341	
Weighted average -----	2,056	14	.05	76	17	57		157		225	12	.4	2.1		481	.65	2,670	260	131	32		698	
Water year 1948																							
Maximum, Sept. 11-20, 1948	548	13	.03	59	12	36		143		137	9.2	.3	1.6		339	.46	2,920	196	80	29		1260	
Minimum, June 11-20, 1948	10,920	13	.03	41	5.2	13		122		45	3.0	.2	1.2		182	.25	5,370	124	24	19		292	
Weighted average -----	3,194	13	.03	59	12	36		143		137	9.2	.3	1.6		339	.46	2,920	196	80	29		503	
Water year 1949																							
Maximum, Jan. 1-10, 1949	429	15	.02	153	44	126		254		546	39	.2	4.7		1,050	1.43	1,220	562	354	33		1440	7.9
Minimum, July 1-10, 1949	8,230	13	.03	39	6.6	13		104		61	2.0	.3	1.0		187	.25	4,160	124	40	19		300	7.5
Weighted average -----	3,685	12	.06	61	14	36		143		148	8.7	.3	1.3		352	.48	3,310	210	92	27		526	
Water year 1950																							
Maximum, Aug. 16-17, 1950	282	19		152	29	246		210		758	49		3.3		1,360	1.85	1,040	498	326	52		1830	
Minimum, June 11-20, 1950	3,114	14	.04	46	11	16		109		91	7.0	.2	.9		240	.33	2,020	160	70	18		385	
Weighted average -----	1,246	14	.06	78	22	53		154		240	16	.3	2.0		501	.68	1,690	285	159	29		730	
Water year 1951																							
Maximum, July 21-28, 1951	241	13	.07	185	36	137		180		672	38	.6	5.4		1,190	1.62	774	610	462	33		1530	7.4
Minimum, June 11-20, 1951	3,507	12	.03	45	8.5	22		112		88	7.0	.4	1.8		241	.33	2,280	148	56	25		375	7.5
Weighted average -----	888	15	.08	85	22	65		161		271	20	.4	2.4		578	.79	1,390	302	170	32		808	
Water year 1952																							
Maximum, Dec. 16-20, 1951	243	17	.03	170	48	148	3.2	250		631	44	.4	5.1		1,220	1.66	800	622	416	34	2.6	1560	7.8
Minimum, June 11-20, 1952	15,760	12	.08	32	5.9	8.7		92		41	2.5	.3	1.0		152	.21	6,470	104	29	15	.4	237	7.9
Weighted average -----	4,262	12	.04	55	12	30		134		121	8.1	.3	2.3		312	.42	3,590	186	76	26	1.0	460	
Water year 1953																							
Maximum, Sept. 11-20, 1953	133	9.5	.09	127	46	162		154		624	47	.4	2.0		1,140	1.55	409	506	380	41	3.1	1500	7.7
Minimum, June 11-20, 1953	5,749	11	.10	33	6.7	13	1.2	80		64	4.8	.2	1.1	0.09	180	.24	2,790	110	44	20	.5	275	7.8
Weighted average -----	1,306	14	.07	77	19	58	2.8	150		243	16	.4	2.7		522	.71	1,840	270	147	32	1.5	739	
Water year 1954																							
Maximum, Sept. 10, 1954	432	16		162	25	317		319		868	22		1.2		1,570	2.14	1,830	577	246	38	6.1	2070	7.2
Minimum, May 21-31, 1954	4,314	13		50	9.3	22	1.7	126		93	6.8		1.4		265	.36	3,090	163	60	23	.8	412	7.5
Weighted average -----	1,378	14		88	21	69	3.4	169		280	18		2.2		589	.80	2,191	306	168	33	1.7	830	

VIRGIN RIVER BASIN—Continued
 VIRGIN RIVER AT VIRGIN, UTAH—Continued
 Chemical analyses, in parts per million, water year October 1954 to September 1955

Chemical analyses, in parts per million, water year October 1954 to September 1955																								
Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate					
Oct. 1-6, 1954																580	0.79						904	
Oct. 7-10																1,090	1.48						1,370	
Oct. 11-20	13			92	28	56		217		212	60		2.3	0.11		582	.79		348	170	26	1.3	888	8.0
Oct. 21-31																532	.72						832	
Nov. 1-10																522	.71						818	
Nov. 11-20	12			83	27	51		231		161	59		1.7	.09		511	.69		317	128	26	1.2	811	8.1
Nov. 21-30																535	.71						817	
Dec. 1-2, 5-10																535	.73						837	8.0
Dec. 3-4																310	.62						484	8.1
Dec. 11-20	12			86	28	51		234		162	56		1.6	.08		533	.72		332	140	25	1.2	826	8.0
Dec. 21-31																552	.75						869	
Jan. 1-10, 1955																520	.71						813	
Jan. 11-20	13			81	30	50		229		157	63		1.7	.11		527	.72		356	168	23	1.2	822	8.2
Jan. 21-31																534	.73						829	
Feb. 1-10																532	.72						834	
Feb. 11-19	11			77	22	46		206		141	50		1.6	.07		463	.63		284	115	26	1.2	730	8.0
Feb. 20-28																533	.72						830	
Mar. 1-10																488	.66						799	
Mar. 11-20	12			73	26	42		209		150	44		2.1	.10		470	.64		290	119	24	1.1	716	8.1
Mar. 21-31																480	.65						738	
Apr. 1-10																497	.68						752	
Apr. 11-20	12			76	22	36		209		130	39		2.2	.10		497	.68		278	107	22	.9	671	8.0
Apr. 21-30																416	.57						637	
May 1-10																404	.55						632	
May 11-20	14			77	20	35	3.7	202		111	49		2.2	.09		441	.60		274	108	21	.9	688	8.1
May 21-31																508	.69						786	
June 1-10																533	.72						815	
June 11-20	13			78	27	55	4.6	201		175	62		1.6	.08		534	.73		308	143	28	1.4	817	7.8
June 21-30																528	.72						818	
July 1-10	14			86	26	49		220		167	59		2.2	.05		543	.74		320	140	25	1.2	816	
July 11-16, 18-20	16			206	40	69		314		502	50		2.1			1,040	1.41		678	421	18	1.2	817	7.6
July 21-31																639	.87						947	
Aug. 1-3, 6-8, 10																586	.80						872	
Aug. 4-5																1,010	1.37						1,330	
Aug. 9								266		675	38								832	614			1,600	6.9
Aug. 11								302		1,600	53								1,810	1,560			2,770	6.9
Aug. 12-20	16			102	19	48		222		187	52		1.7	.08		565	.77		333	151	24	1.2	843	7.6
Aug. 21-23, 26-31																626	.86						923	
Aug. 24								193		1,620	17								1,750	1,590			2,580	7.2
Aug. 25	12			387	17			306		873	14		1.1						1,040	785			1,840	7.2
Sept. 1-10																585	.80						881	
Sept. 11-20	15			90	24	56		194		194	68		2.0			552	.75		322	163	27	1.4	848	7.8
Sept. 21-30																553	.75						866	
a sum of determined constituents.																								

a sum of determined constituents.

VIRGIN RIVER BASIN

VIRGIN RIVER AT VIRGIN, UTAH

LOCATION.—at gaging station, 1 1/2 miles southwest of Virgin, Washington County, and about 2 miles downstream from North Creek.

DRAINAGE AREA.—934 square miles.

RECORDS AVAILABLE.—Chemical analyses: October 1950 to September 1955. Water temperatures: October 1950 to September 1955.

EXTREMES, 1950-55.—Dissolved solids: Maximum, 2,710 ppm Aug. 4, 1954; minimum, 245 ppm May 1-10, 1952. Specific conductance: Maximum daily, 2,870 micromhos Aug. 4, 1954; minimum daily, 383 micromhos May 7, 1952.

Water temperatures: Maximum observed, 88° F. July 18, 26-30°, 1952; minimum observed, freezing point on several days during winter months.

REMARKS.—Values reported for dissolved solids are residue on evaporation. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah.

No discharge records available for this station during 1954-55 water year.

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Water year 1951																							
Maximum, Aug. 23-24, 29, 1951	302														940	1.28	766					1,240	
Minimum, May 1-10, 1951	164														437	.59	194					697	
Weighted average -----	103														540	.73	150					833	
Water year 1952																							
Maximum, Aug. 21-31, 1952	115														590	.80	183					907	
Minimum, May 1-10, 1952	1,576	8.6		53	14	12		182		47	10		3.7		245	.33	1,040	190	40	12	0.4	399	7.9
Weighted average -----	281														378	.51	287					591	
Water year 1953																							
Maximum, July 14-16, 1953	146	23		279	36	66		255	12	651	51		2.6		1,330	1.81	524	846	617	15	1.0	1,640	8.3
Minimum, Mar. 11-20, 1953	128	11		74	30	47		226		145	55		1.9		485	.66	168	309	124	25	1.2	779	7.6
Weighted average -----	116														578	.79	181					872	
Water year 1954																							
Maximum, Aug. 4, 1954															2,710	3.69						2,870	
Minimum, Apr. 21-30, 1954		9.1		63	12	20	2.7	174		74	22		2.4		296	.40		206	63	17	.6	486	7.9

VIRGIN RIVER BASIN
SANTA CLARA RIVER ABOVE WINSOR DAM, NEAR SANTA CLARA, UTAH

LOCATION.—At gaging station 2 miles upstream from Winsor Dam, 2 1/2 miles downstream from Sandy Wash, 8 miles downstream from Mogasu Creek, and 9 miles northwest of Santa Clara, Washington County.
DRAINAGE AREA.—338 square miles.

RECORDS AVAILABLE.—Chemical analyses: October 1951 to September 1955.

REMARKS.—Values reported for dissolved solids are residue on evaporation. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply paper 1993.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Chemical analyses, in parts per million								Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
								Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Parts per million	Tons per acre-foot	Tons per day	Calcium magnesium	Non-carbonate					
Water year 1951																								
Maximum, Mar. 5, 12, 14, 26, 1951	14.0	36		58	21	12		230		33	24		1.3		308	0.42	11.6	231	42	10		506	7.8	
Minimum, May 8, 15, 21, 28, 1951	17.0	27		44	16	19		200		25	19		.6		236	.32	18.8	176	12	19		379	8.0	
Water year 1952																								
Maximum, Feb. 4, 11, 14, 25, 1952	15.2	32		62	19	21		240		37	30		1.3		328	.45	13.5	232	36	17	0.6	524	7.8	
Minimum, May 12, 20, 31, 1951	76.7	20		32	11	8.7		132		19	11		.9		172	.23	35.6	125	17	13	.3	262	7.8	
Water year 1953																								
Maximum, Nov. 4, 11, 18, 25, 1952	21.0			51	15			208		31	24		1.1		287	.39	16.3	192	21			450	8.0	
Minimum, May 4, 11, 18, 25, 1953	15.0	32		41	13	17		172		28	22		.7		236	.32	9.56	157	16	19	.6	379	8.1	
Water year 1954																								
Maximum, Dec. 1, 8, 16, 21, 1953	14.0	34		61	16	22		240		34	24		.9	0.10	314	.43	11.9	218	21	18	.6	505	7.9	
Minimum, May 5, 11, 17, 25, 1954	27.5	28		45	11	15	3.0	172		22	17		.4	.10	227	.31	16.9	156	15	17	.5	365	7.7	
Chemical analyses, in parts per million, water year October 1954 to September 1955																								
Oct. 6, 11, 18, 1954 -----	10.7	34		49	19	21		218		35	25		.9	.07	296	.40	8.55	202	23	18	.6	475	7.5	
Nov. 8, 14, 19 -----	14.7	34		66	15	19		236		40	26		.8	.08	324	.44	12.9	225	31	16	.6	524	7.7	
Dec. 9, 14, 20 -----	15.7	32		58	15	19		220		32	25		.5	.04	296	.40	12.5	205	26	17	.6	469	7.9	
Jan. 5, 12, 17, 25, 1955 -----	16.5	33		62	14	19		230		34	24		.9	.09	300	.41	13.4	212	23	16	.6	486	7.8	
Feb. 7, 14, 21, 27 -----	19.8	32		59	14	19		221		32	24		.9	.07	291	.40	15.6	204	23	17	.6	464	8.0	
Mar. 8, 14, 28 -----	20.3	35		55	13	19		215		30	23		1.1	.10	276	.38	15.1	192	16	18	.6	444	8.1	
Apr. 3, 12, 17, 26 -----	11.8	28		54	13	18		209		32	23		.6	.03	272	.37	8.67	190	19	17	.6	449	7.6	
May 2, 10, 17, 26, 31 -----	16.2	33		47	12	15	3.2	181		24	20		1.0	.09	252	.34	11.0	166	18	16	.5	395	7.9	
June 6, 30 -----	11.0			48	13	16		191		27	22		1.2		256	.35	7.60	174	17	17	.5	401	7.6	
July 5, 13, 25 -----	16.3	30		49	12	17		181		33	24		1.4	.02	268	.36	11.8	174	26	18	.6	410	7.5	
July 20, Aug. 1, 13, 17, 25, 30 -----	50.8	32		62	9.7	14		211		30	18		1.1		273	.37	37.4	195	22	14	.4	428	7.6	
Sept. 14, 20, 27 -----	5.3	38		65	13	19		234		35	21		1.6		311	.42	4.45	218	26	16	.6	486	7.8	

VIRGIN RIVER BASIN
WASHINGTON FIELDS CANAL NEAR WASHINGTON, UTAH

LOCATION.—At gaging station, about 1 1/2 miles southeast of Washington, Washington County.

RECORDS AVAILABLE.—Chemical analyses: October 1950 to September 1955.

REMARKS.—Values reported for dissolved solids are sums of determined constituents. No discharge records available.

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium adsorption	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium magnesium	Non-carbonate				
Water year 1951																							
Maximum, July 1, 12, 16, 24, 30, 1951		25		194	72	540		238		696	732		4.2		2,380	3.24		780	585	60		3,690	7.9
Minimum, May 6, 18, 21, 1951		14		122	38	172		236		500	230		3.9		996	1.35		460	267	45		1,590	7.7
Water year 1952																							
Maximum, July 25, 1952		20		662	78	336		242		1,820	430		3.3		3,470	4.72		1,970	1,770	27	3.3	4,260	
Minimum, May 5, 13, 23, 1952		11		71	17	40		205		85	53		2.6		361	.52		247	79	26	1.1	649	
Water year 1953																							
Maximum, Sept. 3, 8, 14, 22, 28, 1953		22		216	67	488		224		744	708		4.3		2,360	3.21		815	631	57	7.4	3,670	7.8
Minimum, Jan. 5, 13, 19, 26, 1953		17		126	39	168		262		312	238		2.1	0.31	1,030	1.40		476	261	43	3.4	1,670	7.8
Water year 1954																							
Maximum, Sept. 1, 7, 13, 20, 27, 1954		20		290	53	382		252		832	535		4.0	.87	2,240	3.05		945	738	47	5.4	3,290	7.4
Minimum, Apr. 16, 26, 1954		11		95	18	70	6.8	220		149	95		2.1	.13	555	.75		310	130	32	1.7	922	7.6
Chemical analyses, in parts per million, water year October 1950 to September 1955																							
Oct. 5, 9, 19, 1954 -----		20		246	52	300		306		642	412		3.0	.65	1,830	2.49		830	579	44	4.5	2,760	7.4
Nov. 4, 9, 16 -----		18		153	41	250		240		416	342		3.7	.57	1,340	1.82		552	355	50	4.6	2,150	7.6
Dec. 1, 8, 13, 20 -----		18		150	38	221		260		375	295		3.4	.69	1,230	1.67		530	317	48	4.2	1,960	7.9
Jan. 5, 11, 17, 24, 1955 -----		17		147	35	205		264		343	280		2.6	.45	1,160	1.58		504	288	47	4.0	1,840	7.9
Feb. 7, 14, 21 -----		16		143	35	199		270		347	280		3.0	.42	1,160	1.58		502	281	46	3.9	1,850	7.9
Mar. 1, 8, 14, 23 -----		17		135	39	186		276		319	252		4.1	.41	1,090	1.48		498	272	45	3.6	1,700	7.9
Apr. 4, 11, 20 -----		18		154	38	229		274		371	342		3.9	.50	1,290	1.75		542	317	48	4.3	2,020	7.9
Apr. 26 -----		14		110	26	118		236		223	158		4.6		770	1.05		380	186	40	2.6	1,240	7.6
May 2, 11, 16 -----		16		144	32	197	18	230		334	289		2.9	.47	1,150	1.56		494	305	43	3.9	1,860	7.7
May 26, 30 -----		21		175	54	360	31	262		526	520		3.3	.77	1,820	2.48		660	445	53	6.1	2,780	7.8
June 6, 22, 29 -----		23		170	52	390		209		556	578		4.2	.81	1,880	2.56		640	469	57	6.7	3,000	7.5
July 5, 12, 16, 20, 25 -----		22		358	40	289		240		942	412		2.6	.67	2,180	2.96		1,060	863	37	3.9	3,050	7.4
July 21 -----		31		752	73	108	22	730		1,640	118		2.9		3,110	4.23		2,180	1,580	10	1.0	3,390	7.1
July 28, Aug. 4, 12, 30 -----		23		382	35	244		245		970	338		2.7		2,120	2.88		1,100	899	33	3.2	2,850	7.2
Aug. 8 -----		22		198	39	260		255		524	370		1.4		1,540	2.09		656	447	46	4.4	2,430	7.2
Aug. 17, 24 -----		21		221	19	105		272		524	92		.2		1,120	1.52		632	409	27	1.8	1,550	7.3
Sept. 19, 27 -----		24		213	59	452		203		689	642		4.9		2,180	2.96		775	609	56	7.1	3,420	7.5

VIRGIN RIVER BASIN

VIRGIN RIVER NEAR ST. GEORGE, UTAH

LOCATION.—At gaging station, about 2 1/2 miles upstream from Arizona State line, 8 miles southwest of St. George, Washington County, and about 7 1/2 miles downstream from mouth of Santa Clara River.
 RECORDS AVAILABLE.—Chemical analyses: October 1950 to August 1955.
 REMARKS.—Values reported for dissolved solids are sums of determined constituents. Records of discharge for water year 1954 to 1955 given in U. S. Geological Survey Water-Supply Paper 1393.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH	
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
																							Chemical analyses, in parts per million
Chemical analyses, in parts per million, October 1954 to August 1955																							
Water year 1951																							
Maximum, Oct. 2, 9, 23, 30, 1950	26.8	21		434	115		488	255		1,410	665		3.9		3,260	4.43	236	1,560	1,350	41		4,340	7.2
Minimum, Jan. 3, 8, 15, 22, 29, 1951	125	21		216	65		272	274		642	355		4.3		1,710	2.33	577	806	582	42		2,470	7.9
Water year 1952																							
Maximum, Aug. 29, 1952	130	22		651	90		249	288		1,780	315		3.7		3,250	4.42	1,140	1,990	1,760	21	2.4	3,820	
Minimum, May 1, 5, 13, 21, 1952	1,619	8.2		70	19		43	203		109	45		1.8		396	.54	1,730	252	86	27	1.2	688	7.6
Water year 1953																							
Maximum, Sept. 1, 1953	22.0	19		603	71		396	254		1,680	552		2.2		3,450	4.69	205	1,800	1,590	32	4.1	4,320	7.2
Minimum, Jan. 5, 12, 19, 26, 1953	168	18		168	56		199	273		475	268		2.8	0.41	1,330	1.80	603	650	426	40	3.4	2,010	7.6
Water year 1954																							
Maximum, Oct. 6, 12, 1953	12.5	27		493	126		575	217		1,730	735		3.4	1.6	3,800	5.17	128	1,750	1,570	42	6.0	5,090	7.8
Minimum, Mar. 23, 29, 1954	556	12		114	17		77	171		256	86		2.1	.27	568	.88	973	355	215	32	1.8	1,020	7.7
Chemical analyses, in parts per million, October 1954 to August 1955																							
Oct. 12, 1954	55.0	15		460	63		314	252		1,270	445		5.3	.80	2,700	3.67	401	1,410	1,200	33	3.6	3,620	7.9
Nov. 9, 15	92.5	18		291	59		324	278		841	415		4.0	.73	2,090	2.34	522	970	742	42	4.5	3,020	7.8
Dec. 2, 8, 14, 20	142	18		237	48		220	268		626	332		4.0	.55	1,620	2.20	621	750	570	38	3.4	2,440	7.9
Jan. 6, 17, 25, 1955	142	18		211	45		231	270		572	315		3.6	.51	1,530	2.08	587	714	493	41	3.8	2,300	7.8
Feb. 21	184	16		204	40		212	288		504	288		4.5	.44	1,410	1.92	700	674	438	41	3.5	2,120	8.1
Mar. 2, 8, 15, 26	124	20		177	49		223	258		496	278		3.3	.48	1,270	1.86	459	644	432	43	3.8	1,790	8.0
Apr. 6, 11, 20	35.3	19		271	79		350	260		887	455		4.0	.72	2,190	2.98	232	1,000	787	43	4.8	3,200	7.5
May 4, 10, 16	35.3	20		246	73		300	232	23	784	425		3.5	.68	1,990	2.71	190	915	725	41	4.3	2,850	7.8
July 26	349	18		624	29		120	179		1,560	127		1.4		2,570	3.50	2,420	1,680	1,530	13	1.3	2,870	7.2
Aug. 4	865	26		547	47		246	752		1,030	245		.2		2,510	3.41	5,860	1,560	945	26	2.7	3,160	7.3
Aug. 5	1,410	24		706	61		121	530		1,660	110		.3		2,940	4.00	11,190	2,020	1,480	12	1.2	3,200	7.5
Aug. 25	5,490	20		693	23		43	266		1,620	35		.2		2,570	3.50	38,100	1,830	1,610	5	.4	2,740	7.3
Aug. 30	49.0	26		551	44		329	202		1,490	430		5.5		2,980	4.05	394	1,560	1,390	31	3.6	3,750	7.6

VIRGIN RIVER BASIN
SANTA CLARA RIVER AT ST. GEORGE, UTAH

LOCATION.—At gaging station, 1/2 mile above mouth and 2 miles south of St. George, Washington County.

RECORDS AVAILABLE.—Chemical analyses: October 1950 to September 1955.

REMARKS.—Values reported for dissolved solids are sums of determined constituents. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply Paper 1393.

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium, magnesium	Non-carbonate				
Water year 1951																							
Maximum, Sept. 4, 11, 17, 24, 28, 1951	28.9	36		440	97	115		297		1,350	70		0.4		2,250	3.06	176	1,500	1,250	14		2,570	7.6
Minimum, Mar. 5, 12, 19, 1951	7.0	34		141	42	45		311		298	40		1.9		755	1.03	14.3	525	270	16		1,080	7.5
Water year 1952																							
Maximum, Sept. 5, 19, 1952	1.8	52		328	130	140		338		1,200	93		.6		2,110	2.87	10.3	1,350	1,080	18	1.7	2,500	
Minimum, Apr. 1, 7, 14, 22, 28, 1952	156	21		60	15	14		185		68	12		1.2		282	.38	119	211	60	12	.4	455	7.8
Water year 1953																							
Maximum, June 2, 9, 15, 29, 1953 -	.9	44		344	114	154		352		1,150	96		1.8		2,070	2.82	5.03	1,300	1,010	20	1.9	2,480	7.6
Minimum, Sept. 2, 9, 14, 22, 29, 1953	.3	37		59	18	20		247		31	23		1.1		311	.42	.25	220	17	16	.6	497	8.1
Water year 1954																							
Maximum, Sept. 1-2, 7, 13-14, 20, 28, 1954	12.9	32		458	82	115		370		1,290	70		1.3	0.38	2,230	3.03	77.7	1,680	1,180	14	1.3	2,580	7.4
Minimum, 23, 27, 29, 1954	130	28		71	13	22		210		77	20		2.1		336	.46	118	232	60	17	.6	528	7.8
Chemical analyses, in parts per million, water year October 1954 to September 1955																							
Oct. 8, 11, 18, 1954	.4	38		383	105	148		446		1,170	90		.4	.52	2,150	2.92	2.32	1,390	1,020	19	1.7	2,580	7.5
Nov. 4, 9, 16, 1954	4.1	36		248	52	80		362		630	58		.9	.29	1,280	1.74	14.2	835	538	17	1.2	1,690	7.7
Dec. 2, 8, 13, 20, 1954	11.6	31		157	32	54		310		325	40		1.4	.17	793	1.08	24.8	522	268	18	1.0	1,130	7.8
Jan. 5, 12, 17, 24, 1955	8.0	33		194	42	74		336		467	49		.6	.25	1,030	1.40	22.2	656	380	20	1.3	1,390	8.0
Feb. 7, 14, 21, 1955	9.2	32		194	43	70		326		471	50		1.1	.22	1,020	1.39	25.3	662	395	19	1.2	1,390	8.0
Mar. 1, 8, 15, 1955	11.1	34		186	37	65		326		419	46		1.5	.20	950	1.29	28.5	616	349	19	1.1	1,270	8.1
Mar. 26, 1955	3.8	39		273	72	118		277		869	69		1.2		1,580	2.15	16.2	980	753	21	1.6	2,050	7.7
Apr. 4, 11, 20, 26, 1955	1.7	34		350	84	130		424		1,010	79		.6	.39	1,900	2.58	8.72	1,220	872	15	1.6	2,290	7.6
May 3, 10, 16, 26, 31, 1955	1.6	38		343	78	113	9.5	418		940	82		.4	.43	1,810	2.46	7.82	1,180	837	17	1.4	2,240	7.6
June 6, 22, 29, 1955	.9	44		319	79	118		376		955	77		.6	.36	1,780	2.42	4.33	1,120	812	19	1.5	2,120	7.6
July 5, 12, 20, 1955	.5	39		348	70	119		304		1,040	76		2.3	.39	1,840	2.50	2.48	1,160	911	18	1.5	2,230	7.6
July 23, 1955	.3	28		150	22	36		459		117	32		2.2		613	.83	.50	465	89	14	.7	964	7.2
July 25, 1955	164	17		144	9.5	10		151		288	6		1.3		550	.75	244	400	276	5	.2	789	7.1
Aug. 1, 17, 1955	20.0	36		132	17	24		378		126	20		.2		541	.74	24.2	400	90	12	.5	823	7.6
Aug. 22, 1955	41.0	32		253	29	36		831		108	32		1.9		902	1.23	99.9	750	69	9	.6	1,410	7.2
Aug. 24, 1955	465	35		155	19	14		584		19	12		.8		543	.74	682	464	0	6	.3	886	7.3
Aug. 30, 1955	2.5	56		368	73	133		448		960	109		.6		1,920	2.61	13.0	1,220	855	19	1.7	2,360	7.5
Sept. 15, 20, 26, 1955	.5	43		391	96	144		429		1,160	104		1.7		2,150	2.92	2.90	1,370	1,020	19	1.7	2,610	7.6

a Includes 2 ppm of Carbonate (CO_3)

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (microhmhos at 25 C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by	
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
GREEN RIVER BASIN--Continued																				
Antelope Creek (tributary to Duchesne River) nr. Bridgeland	7-2-49		3,150			128	173	368		20	344	1,420	70		0.8		1,030	43	AC	
nr. Bridgeland	9-10-49		770			53	26	60		5.9	290	150	15		.2		239	35	AC	
Lake Fork Creek northwest of Boneta	9-10-49		900			55	43	38		7.0	278	189	44		.2		314	20	AC	
nr. Myton (nr. mouth)	6-9-48		1,500	10		88	30		221	216	507	84		1.0	1,050*	343	58	GS		
nr. Myton (nr. mouth)	9-7-51		1,280			91	36		152		282	389	50		.3		375	47	GS	
Duchesne River																				
at Myton (U.S. highway bridge)	6-9-48	729	462	9.9		37	17		37		150	101	10		.6	286*	162	33	GS	
at Myton (U.S. highway bridge)	9-29-48		2,170	13		126	79		296		340	894	96		.3	1,610*	640	50	GS	
at Myton (U.S. highway bridge)	10-14-49	201	1,010								311		28						GS	
at Myton (U.S. highway bridge)	6-4-50	2,630	390	9.7		44	14		17		173	53	5		.5	228*	167	18	GS	
at Myton (U.S. highway bridge)	11-6-50	125	1,090	13		81	51		21		322	151	25		.0	501*	412	10	GS	
at Myton (U.S. highway bridge)	9-7-51	97	1,060			80	41				268	309	29		.2		368	37	GS	
at Myton (U.S. highway bridge)	10-2-51	39	1,720			98	77	213		2.9	356	642	54		.0		562	45	GS	
at Myton (U.S. highway bridge)	8-26-54	16	1,800	8.4		113	49	253			338	637	67		.0	1,290*	482	53	GS	
at Myton (U.S. highway bridge)	10-19-55	20	1,630	14		94	51	210			281	581	59		.6	1,150*	446	51	GS	
nr. Myton (2 miles downstream)	9-10-49	37	1,700			93	53	218		12	315	578	72		.2		450	50	AC	
nr. Randlett (16 miles below Myton)	10-2-51		1,770			94	76	246		2.9	343	657	57				508	49	GS	
Uinta River																				
nr. Whitetocks	9-10-49		420			45	13	6.0		3.1	236	16	2.1		.2		166	7	AC	
Deep Creek (tributary to Uinta River)																				
nr. LaPoint (nr. source)	7-26-55	2.0	167	15		23	6.0	1.7		.5	90	10	4		.5	105*	82	4	GS	
nr. LaPoint (nr. source)	8-9-55	1.7	171	7.1		25	6.7	1.4		.5	98	7	2		.6	97*	86	3	GS	
Uinta River																				
at Fort Duchesne (U.S. highway bridge)	6-9-48	16	928	13		62	45		81		264	241	34		.4	606*	340	34	GS	
at Fort Duchesne (U.S. highway bridge)	9-29-48	.9	1,770	14		112	135	120			320	732	50		.2	1,320*	834	24	GS	
at Fort Duchesne (U.S. highway bridge)	10-14-49	6.0	1,400			98	85	123			349	483	51			1,010*	594	31	GS	
at Fort Duchesne (U.S. highway bridge)	6-4-50	442	188								75	27					76		GS	
at Fort Duchesne (U.S. highway bridge)	11-6-50	80	1,530	14		108	97	115			365	515	59		.0	1,090*	668	27	GS	
at Fort Duchesne (U.S. highway bridge)	9-7-51	7.1	886																GS	
at Fort Duchesne (U.S. highway bridge)	10-2-51	2.6	1,130			76	60	86		1.7	4/289	364	38				472	28	GS	
at Fort Duchesne (U.S. highway bridge)	8-26-54	0	1,730	18		111	130	130			304	733	52		.1	1,320*	814	26	GS	
at Fort Duchesne (U.S. highway bridge)	10-19-55	3.4	1,580	14		100	115	111			330	586	50		.1	1,140*	722	25	GS	
at Fort Duchesne (U.S. highway bridge)	2-14-56	70	401			37	16	19		1.6	4/135	74	10			258		20	BR	
at Fort Duchesne (U.S. highway bridge)	3-14-56	30	776			71	38	43		2.3	1/212	216	23			558		22	BR	
at Fort Duchesne (U.S. highway bridge)	5-24-56	200	178			21	5.5	7.1		1.2	6/69	30	1.8			130		17	BR	
at Fort Duchesne (U.S. highway bridge)	7-9-56	5	1,152			74	66	81		2.7	1/241	369	37			846		28	BR	
at Fort Duchesne (U.S. highway bridge)	8-7-56	12	1,222			81	81	69		1.6	3/29	360	30			885		22	BR	
at Fort Duchesne (U.S. highway bridge)	9-17-56	15	1,238			82	83	69		1.6	1/325	375	29			923		21	BR	
at Fort Duchesne (U.S. highway bridge)	10-18-56	3	1,928			111	156	127		2.7	1/202	908	60			1,600		23	BR	
at Fort Duchesne (U.S. highway bridge)	3-20-57	11	1,120								292	322	42		.3		458		GS	
Cottonwood Creek (tributary to Dry Gulch)																				
nr. Monarch	9-10-49		160			14	4.0	9.0		2.0	63	22	3.9		.1		54	26	AC	
nr. Cedar View	9-10-49		950			40	38	90		7.8	136	295	51		.2		256	42	AC	
a Includes 7.9 ppm of Carbonate (CO ₃)				e	Includes 10 ppm of Carbonate (CO ₃)				h Includes 8 ppm of Carbonate (CO ₃)											
b Includes 7.9 ppm of Carbonate (CO ₃)				f	Includes 24 ppm of Carbonate (CO ₃)				i Includes 4 ppm of Carbonate (CO ₃)											
c Includes 8.9 ppm of Carbonate (CO ₃)				g	Includes 2 ppm of Carbonate (CO ₃)				j Includes 26 ppm of Carbonate (CO ₃)											
d Includes 14 ppm of Carbonate (CO ₃)																				

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (microhm/cm at 25 °C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
GREEN RIVER BASIN--Continued																			
Strawberry Reservoir	9-10-49		310			36	11	6.0		3.1	170	25	2.1		0.2		135	13	AC
Strawberry River																			
nr. Soldier Springs	10-10-51	23	577			63	31				316	66	6.0				286	18	OS
nr. Soldier Springs	8-14-56	27	506			39	31	22		1.2	249	64	5.0			290		18	BR
nr. Soldier Springs	11-9-56		519			49	31	19		.8	262	69	4.3			330		14	BR
Red Creek (tributary to Strawberry River)																			
nr. Fruitland (3 miles east)	7-2-49		1,140			56	37	138		11	285	128	122		.8		292	50	AC
Current Creek (tributary to Red Creek)																			
below Red Ledge Hollow (nr. Fruitland)	10-10-51	6.9	414								250	20	4.2						OS
below Red Ledge Hollow (nr. Fruitland)	8-14-56	4.5	415			62	13	6.7		1.6	257	12	1.8			229		6	BR
below Red Ledge Hollow (nr. Fruitland)	11-9-56	15	429			64	15	6.9		1.2	258	17	4.3			285		6	BR
Layout Creek																			
nr. mouth (nr. Fruitland)	8-14-56	10	351			48	13	2.1		.8	219	1.4	3.9			188		2	BR
Current Creek																			
nr. Fruitland (U.S. highway bridge)	9-29-48	13	468	15		60	23			8.7	286	20	5		.4	273*	244	7	OS
nr. Fruitland (U.S. highway bridge)	10-14-49	29	461								286	14	5.8						OS
nr. Fruitland (U.S. highway bridge)	6-4-50	254	332							6.6	205	11	2				168	8	OS
nr. Fruitland (U.S. highway bridge)	9-10-49	27	540			47	15	13		3.1	257	17	3.9		.1		178	13	AC
nr. Fruitland (U.S. highway bridge)	11-6-50	35	497	17		60	22		14		288	22	8		.6	286*	240	11	OS
nr. Fruitland (U.S. highway bridge)	11-9-56	24	493			57	22	22		1.2	287	38	6.4			296		17	BR
Strawberry River																			
5 miles west of Duchesne	8-14-56	50	810			47	34	86		2.0	384	104	23			495		42	BR
5 miles west of Duchesne	11-7-56	40	783			49	32	83		2.0	379	90	23			496		41	BR
nr. Duchesne (above Indian Creek)	7-31-46		722			48	35		66		357	87	17		.8	430*	264	35	OS
nr. Duchesne (above Indian Creek)	6-9-48	151	652	23		51	29		61		344	69	17		.5	420*	246	35	OS
nr. Duchesne (above Indian Creek)	9-29-48	38	812	21		51	39		86		401	110	22		.6	527*	288	39	OS
nr. Duchesne (above Indian Creek)	7-2-49	181	680			37	29	52		3.9	268	78	14		.2	212		34	AC
nr. Duchesne (above Indian Creek)	9-10-49	86	800			40	27	78		5.9	352	107	20		.2	211		44	AC
nr. Duchesne (above Indian Creek)	10-14-49		764			50	36		68		379	92	9		.2	443*	273	35	OS
nr. Duchesne (above Indian Creek)	6-4-50	611	519	17		54	23		26		283	39	9		1.8	309*	229	20	OS
nr. Duchesne (above Indian Creek)	11-6-50	93	717	19		59	34		67		377	88	22		.6	375*	287	34	OS
nr. Duchesne (above Indian Creek)	8-26-54	38	980	18		52	37	130		4.36	449	28	28		.2	629*	283	50	OS
nr. Duchesne (above Indian Creek)	10-19-55	47	923	21		51	36	113		418	129	31	31		.5	588*	274	47	OS
nr. Duchesne (above Indian Creek)	3-20-57	85	814							396	96	28					280		OS
Indian Creek (tributary to Strawberry River)																			
nr. Duchesne	6-9-48		1,770	45		26	91		283		1,620	484	30		.2	1,260*	439	58	OS
nr. Duchesne	7-2-49		1,770			35	85	228		15	614	107	332		.2	437		54	AC
nr. Duchesne	9-10-49		2,400			20	92	400		22	692	744	45		.2	428		66	AC
Duchesne River																			
at Bridgeland	6-9-48		291	8.3		28	12		19		132	44	4		.6	181*	120	25	OS
at Bridgeland	9-29-48		1,340	12		89	57		146		319	440	39		.1	940*	456	41	OS
at Bridgeland	10-14-49		744								287		15						OS
at Bridgeland	6-4-50		335						11		166	30	3				147	14	OS
at Bridgeland	11-6-50		756	13		65	36		58		308	151	18		.4	493*	310	29	OS
at Bridgeland	8-26-54		1,220	10		84	57	133			337	389	35		.0	876*	444	39	OS
a Includes 5 ppm of Carbonate (CO ₃)				e Includes 13 ppm of Carbonate (CO ₃)				h Includes 9 ppm of Carbonate (CO ₃)				k Includes 16 ppm of Carbonate (CO ₃)							
b Includes 11 ppm of Carbonate (CO ₃)				f Includes 10 ppm of Carbonate (CO ₃)				i Includes 8.9 ppm of Carbonate (CO ₃)				l Includes 35 ppm of Carbonate (CO ₃)							
c Includes 4 ppm of Carbonate (CO ₃)				g Includes 5 ppm of Carbonate (CO ₃)				j Includes 16 ppm of Carbonate (CO ₃)				m Includes 9.8 ppm of Carbonate (CO ₃)							
d Includes 6 ppm of Carbonate (CO ₃)																			

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25 C)	CHEMICAL ANALYSIS IN PARTS PER MILLION													Percent Sodium	Analysis by	
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
GREEN RIVER BASIN--Continued																			
Range Creek (tributary to Green River) at mouth (31.5 miles above Green River)	9-25-48	1	1,080	18		39	54		132		448	209	15		0.5	688*	320	47	GS
Gooseberry Creek (tributary to Price River) above lower Gooseberry Reservoir	10-30-51		389								257	8.7	2.2					GS	
Price River above Colton	6-30-49		580			53	28	28		43	348	36	6.0		.2		247	19	AC
above Colton	9-1-49		620			52	25	32		5.1	366	32	5.0		.1		232	23	AC
White River (tributary to Price River) nr. mouth (5 miles east of Soldier Summit)	4-19-47		547			66	30		16		344	33	4		1.5	320*	288	11	GS
Price River at Colton (below White River)	7-19-47		618			68	30		32		380	38	8.0		1.0	364*	293	19	GS
at Castlegate (above Willow Creek)	2-15-51		681	13		66	37		37		353	81	15		1.7	425*	316	20	GS
Willow Creek (tributary to Price River) at Castlegate	2-15-51		699	12		51	35		57		286	133	15		1.6	446*	271	31	GS
Price River at Castlegate (below Willow Creek)	3-23-48	188	265	6.5		24	7.8		23		116	37	6		1.3	163*	92	36	GS
at Castlegate (below Willow Creek)	5-14-48	237	440	13		54	22		12		260	33	2.0		1.9	266*	225	11	GS
at Castlegate (below Willow Creek)	8-7-48	126	473								250	48	8.0					GS	
at Castlegate (below Willow Creek)	10-2-48	50	334	1.8		37	19		4.8		179	28	4		.3	183*	170	6	GS
at Castlegate (below Willow Creek)	5-25-50		514	16		58	26		18		302	36	3		2.1	308*	252	13	GS
at Castlegate (below Willow Creek)	11-12-50		704	14		69	43		35		380	84	18		1.9	452*	349	18	GS
at Castlegate (below Willow Creek)	6-20-56		391	8.0		44	19		13		228	21	7.0		.6	223*	188	13	GS
nr. Spring Glen	6-30-49	310	470			54	20	12		3.1	232	39	6.0		.1		216	10	AC
nr. Spring Glen	8-29-49		450			48	20	16		3.9	190	65	6.0		.6		202	14	AC
at Carbon Canal	6-30-49	162	470			55	19	12		3.1	229	42	6.0		.5		215	11	AC
at Carbon Canal	8-30-49		460			48	20	15		3.9	195	54	6.0		.5		202	14	AC
Gordon Creek west of Price	6-30-49		1,050			86	68	48		10	231	371	24		.4		494	17	AC
west of Price	8-29-49		1,300			91	82	65		13	229	487	30		.2		564	20	AC
Soldier Creek (tributary to Price River) nr. mouth (nr. Wellington)	6-30-49		570			29	34	40		5.1	265	66	11		.2		212	28	AC
Price River at Fernham Canal	6-30-49		1,640			110	71	74		12	279	625	20		.8		566	22	AC
at Fernham Canal	8-29-49		3,700			240	150	500		25	351	1,860	49		1.2		1,220	47	AC
Desert Lake Reservoir (tributary to Price R.) nr. Elmo	6-30-49		5,300			85	155	1,060		18	88	2,830	58		.2		849	73	AC
nr. Elmo	8-30-49		5,500			88	153	1,050			139	71			.2		848	72	AC
Iceland Creek at U.S. 50 highway	4-25-47		379			244	272		378		362	2,020	105		2.0	3,200*	1,730	32	GS
Price River at Woodside (daily station)																			
at mouth (above Green River)	9-26-48	5.2	6,770	3.7		347	338		1,140		234	4,180	142		2.5	6,270*	2,260	52	GS
Green River at Green River (daily station)																			
nr. Green River	7-1-49		380			35	10	24		3.9	128	63	8.2		.2		123	28	AC

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25 C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
GREEN RIVER BASIN--Continued																			
Dry Gulch (tributary to Uinta River)																			
nr. Fort Duchesne (St. Hwy. - 4 miles south)	9-7-51		2,290			142	82		295		328	769	186		1.7		692	48	GS
nr. Fort Duchesne (St. Hwy. - 4 miles south)	10-2-51		2,760			166	89	372		4.3	344	945	268				782	51	GS
Uinta River																			
nr. Randlett (nr. mouth)	9-7-51		2,070			108	84		259		294	682	161		1.1		615	48	GS
nr. Randlett (nr. mouth)	10-2-51		2,510			138	82	343		3.4	303	868	227				684	52	GS
nr. Randlett (nr. mouth)	7-2-49		2,150			125	71	244		12	297	639	196		.8		604	46	AC
Duchesne River																			
nr. Randlett (daily station)																			
at Ouray	6-9-48	1,150	664	9.4		50	25		60		168	174	27		1.1	429*	228	36	GS
at Ouray	9-22-48	24	3,680	8.9		156	126		513		267	1,230	370		1.5	2,540*	907	55	GS
at Ouray	9-29-48	36	2,810	13		132	99		397		277	974	254		1.2	2,010*	736	54	GS
at Ouray	10-14-49		1,520			97	64		149		313	444	74			987*	505	39	GS
at Ouray	11-7-50		1,590	13		103	68		176		336	508	81		.0	1,110*	536	42	GS
at Ouray	8-26-54		4,080	5.3		172	130		650		250	1,420	488		.2	2,990*	965	59	GS
at Ouray School Canal	2-14-56		847			65	33			2.0	2/262	202	25			568		35	BR
at Ouray School Canal	3-14-56	700	914			63	39	86		2.3	1/247	246	33			635		37	BR
at Ouray School Canal	5-24-56	1,000	421			39	15	29		1.6	2/150	88	8.2			273		28	BR
at Ouray School Canal	7-9-56	100	1,819			96	64	226		3.5	2/293	655	55			1,386		49	BR
at Ouray School Canal	8-7-56	35	2,102			92	70	279		4.7	2/345	715	73			1,580		54	BR
at Ouray School Canal	9-17-56	20	2,658			121	92	386		5.1	2/339	1,070	97			2,152		55	BR
at Leland Canal	7-2-49	402	510			38	16	42		3.9	156	120	12		.2		161	36	AC
Evacuation Creek (tributary to White River)																			
nr. Watson	6-8-48		4,880	18		184	239		794		430	2,560	62		76	4,140*	1,440	54	GS
nr. Watson	9-30-48		4,810	12							2/408	2,580	69		94				GS
nr. Watson	8-25-54		4,680	8.2		178	191	814			358	2,540	54		11	3,970*	1,230	59	GS
White River																			
nr. Watson (daily station)																			
nr. Ouray (at mouth)	6-9-48	340	414	14		43	14		42		150	75	36		5.1	304*	165	36	GS
nr. Ouray (at mouth)	9-22-48		976	16		74	30		101		222	236	70		1.4	638*	308	42	GS
nr. Ouray (at mouth)	9-29-48		982	17		76	33		94		2/220	240	69		1.1	638*	325	39	GS
nr. Ouray (at mouth)	10-14-49		960			73	30		94		232	237	52			600*	306	40	GS
nr. Ouray (at mouth)	6-1-50		456	15		46	16		25		172	71	14		.6	272*	181	23	GS
nr. Ouray (at mouth)	11-7-50		963	16		77	31		93		217	235	70		.9	630*	320	39	GS
nr. Ouray (at mouth)	8-26-54		1,070	13		88	26	106			223	246	89		.7	679*	327	41	GS
Green River																			
below White River	9-22-48		910	9.9		68	29		91		192	241	54		1.4	589*	288	41	GS
nr. Ouray (daily station)																			
Willow Creek																			
nr. Ouray (daily station)																			
nr. Ouray (at mouth)	11-7-50	50	1,810	18		80	97		223		471	625	31		3.3	1,310*	598	45	GS
Minnie Maud Creek																			
at Wellington-Myton road	6-30-49		780			45	36	54		5.9	331	144	8.2		.4		260	30	AC
at mouth (below Ouray)	9-23-48	11.6	1,220	25		50	78		127		467	305	15		1.3	831*	446	38	GS
Florence Creek (tributary to Green River)																			
at mouth (31.6 miles above Green River)	9-25-48	1.3	860	28		58	49		71		300	235	7		.2	596*	346	31	GS
a Includes 25 ppm of Carbonate (CO ₃)				d Includes 17 ppm of Carbonate (CO ₃)						g Includes 16 ppm of Carbonate (CO ₃)									
b Includes 27 ppm of Carbonate (CO ₃)				e Includes 10 ppm of Carbonate (CO ₃)						h Includes 7.9 ppm of Carbonate (CO ₃)									
c Includes 5 ppm of Carbonate (CO ₃)				f Includes 37 ppm of Carbonate (CO ₃)															

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25 C)	CHEMICAL ANALYSIS IN PARTS PER MILLION													Percent Sodium	Analysis by		
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃	
DIRTY DEVIL RIVER BASIN--Continued																				
Fremont River	7-1-49		1,230			190	24	44		13	140	503	23		0.4		572	14	AC	
nr. Hanksville	8-31-49		1,600			269	34	56		18	150	755	30		.4		813	13	AC	
Muddy Creek (tributary to Muddy River)	7-1-49	6,500	500			43	20	30			228	66	3.9		1.0		190	25	AC	
nr. Moore	8-30-49		910			42	33	114			189	302	8.2		.6		340	50	AC	
south of Emery	7-1-49		380			35	20	5.1		1.2	221	9.1	2.1		.8		170	6	AC	
Quitchupah Creek	7-1-49		820			51	35	58		5.1	246	173	22		.4		271	31	AC	
south of Emery	8-30-49		370			31	22	1.2		2.0	207	24	2.1		.6		168	13	AC	
Muddy River(tributary to Dirty Devil River)	7-1-49		4,000			379	83	466		22	128	1,650	365		1.2		1,290	43	AC	
nr. Hanksville (at mouth)																				
Dirty Devil River																				
nr. Hanksville (daily station)																				
nr. Hite (daily station)																				
Colorado River (main stem)																				
at Hite (daily station)	9-1-49	4,440	1,600			126	45	166		16	198	523	130		1.2		502	41	AC	
nr. Hite																				
ESCALANTE RIVER BASIN																				
Escalante River	9-11-49	6.2	500			25	16	46		5.9	226	77	7.1		.2		128	42	AC	
nr. Escalante																				
Clear Creek (tributary to Escalante River)	3-3-51		244	11		30	12		4.4		150	6.6	2		1.4	141*	124	7	GS	
7.6 miles above mouth of Escalante River																				
Escalante River (at mouth)																				
nr. Escalante (daily station)																				
SAN JUAN RIVER BASIN																				
Monteruma Creek																				
South Creek below North Creek nr.	7-2-49		280			40	5.4	8.0		2.0	120	36	2.1		.2		122	12	AC	
Monticello																				
Spring Creek	7-2-49		370			53	4.0	9.0		2.0	150	52	5.0		.2		148	11	AC	
nr. Monticello																				
Verdure Creek	4-26-47		351			60	7.6		12		187	44	4		1.0	221*	180	12	GS	
at Verdure																				
Recapture Creek	4-26-47		974			109	22		85		285	272	21		1.0	650*	362	34	GS	
below Johnson Creek nr. Blanding	7-2-49		280			40	5.5	8.0		2.0	137	26	1.1		.2		122	12	AC	
below Johnson Creek nr. Blanding																				
Butler Wash	3-1-44		1,270			114	52		104		201	519	14		.5	902*	498	31	GS	
at highway west of Bluff																				
Comb Wash	3-1-44		3,710			410	116		362		147	1,560	384		.2	2,900*	1,500	34	GS	
at highway west of Bluff																				
East Lime Creek	3-4-44		2,130								198		55						GS	
nr. Bluff (16 miles west)																				

a Includes 5.9 ppm of Carbonate (CO_3)

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by	
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
SAN JUAN RIVER BASIN—Continued																				
Line Creek nr. Bluff (18 miles west)	3-1-44		2,280			286	114		128			137	1,200	70		1.5	1,870*	1,180	19	OS
Hilkito Wash nr. Moqui steps (Monument Valley)	6-16-44		147			23	1.6		3.7			72	8.4	3.0		.1	75*	64	11	OS
San Juan River nr. Bluff (Mexican Hat) nr. Bluff (daily station)	7-2-49	9,130	260			26	5.9	15		3.1		74	51	3.2		.2		89	26	AC
LOWER COLORADO RIVER BASIN																				
PARIA RIVER BASIN																				
Henrieville Creek nr. Henrieville	5-19-55		850						46											AC
Paria River at Fay Hamblin dam site	8-13-49	300	2,050			171	89	182		20		142	1,010	36		.6		792	30	AC
KANAB CREEK BASIN																				
Kanab Creek nr. Kanab	6-5-49	1,500	550			50	25	13		5.1	214	98		9.2		.8		228	11	AC
nr. Kanab	8-12-49		500			57	21	13		5.1	227	66		9.2		.6		228	11	AC
Johnson Creek east of Kanab	8-12-49	500	550			46	27	19		7.8	251	63		13		.2		226	15	AC
VIRGIN RIVER BASIN																				
Virgin River (east fork)																				
nr. Glendale	4-21-50		493	8.8		51	36		1.8			302	27	2		.6	276*	275	1	OS
nr. Orderville	5-6-49	1,296	670			70	43	6.0		3.9	354	63	3.9			.6		361	7	AC
nr. Orderville	6-5-49		690			65	46	8.0		5.1	346	78	5.0			.6		351	5	AC
nr. Orderville	8-10-49		630			52	41	10		5.9	313	97	6.0			.6		298	3	AC
at Mt. Carmel Junction	4-21-50		683	10		70	48		12		334	112	4			2.2	423*	372	6	OS
Virgin River																				
nr. Virgin	8-10-49	70	770			65	27	60		10	207	165	60					273	31	AC
nr. Virgin	9-30-55		780	16		69	25	55			155	173	64			2.7	481*	276	30	OS
at Virgin (daily station)																				
nr. Hurricane (above LaVerkin Springs)	2-5-51		1,240	12		98	37		119		271	198	160			2.0	760*	396	39	OS
(LaVerkin Spr. 700 feet below bath house)	9-10-56		13,500					2,500			1,260	2,110	3,580					2,710	67	OS
nr. Hurricane (below LaVerkin Springs)	2-5-51		2,260	13		152	54		265		350	319	395			2.1	1,370*	661	49	OS
LaVerkin Creek																				
nr. LaVerkin	8-4-49		1,070			134	48	32		7.8	173	457	18			.2		532	11	AC
nr. LaVerkin	2-5-51		850	11		119	36		20		206	287	14			1.0	590*	445	9	OS
nr. LaVerkin	12-4-51		655			77	31		18		222	146	17				398*	320	11	OS
Ash Creek																				
nr. New Harmony	8-9-49		380			35	6.0	12		5.1	212	3.8	6.0			.2		112	18	AC

SEVIER LAKE BASIN
SEVIER RIVER NEAR LYNDDY, UTAH

LOCATION.—At bridge on State Highway 125, 1 1/2 miles upstream from gaging station, which is 3 1/2 miles southwest of Lynndy, Millard County.

DRAINAGE AREA.—6,270 square miles, approximately.

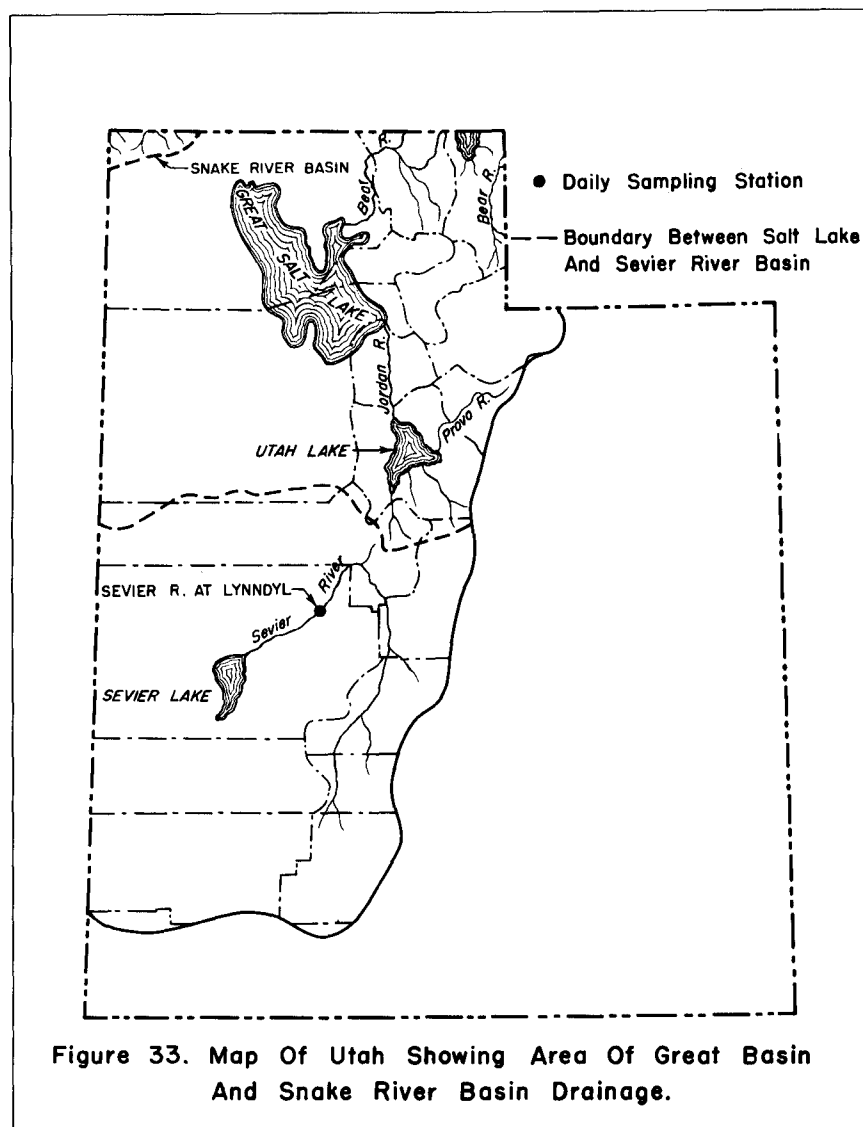
RECORDS AVAILABLE.—Chemical analyses; March 1951 to September 1955. Water temperatures: March 1951 to September 1955.

EXTREMES, 1951-55.—Dissolved solids: Maximum, 4,650 ppm Jan. 16-22, 1955; minimum, 512 ppm Mar. 9-12, 1955. Hardness: Maximum, 1,710 ppm Jan. 16-22, 1955; minimum, 248 ppm Mar. 9-12, 1955. Specific conductance: Maximum daily, 7,040 microhms Jan. 21, 1955; minimum daily, 855 microhms Mar. 11, 1955. Water temperatures: Maximum observed, 84° F Aug. 5, 10, 1955; minimum observed, 33° F on many days during December to February, 1952.

REMARKS.—Values reported for dissolved solids are sums of determined constituents. Records of specific conductance of daily samples available in U. S. Geological Survey district office at Fort Douglas, Salt Lake City, Utah. Records of discharge for water year October 1954 to September 1955 given in U. S. Geological Survey Water-Supply Paper

Chemical analyses, in parts per million

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (microhms at 25° C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium-magnesium	Non-carbonate				
Mar. 22-31, Sept. 21-30, 1951																							
Maximum, Sept. 21-30, 1951	125	21	0.09	90	116	461	12	322		519	660	0.3	5.4		2,040	2.77	688	702	438	58		3,210	7.9
Minimum, Mar. 22-31, 1951	46.1	20	.03	105	96	279	8.8	324		370	450	.0	2.4		1,490	2.03	185	656	391	48		2,420	7.9
Weighted average -----	256	27	.04	85	100	381	11	301		461	527	.3	12		1,750	2.38	1,210	623	376	57		2,790	
Water year 1952																							
Maximum, Apr. 21-28, 1952	21.1	17	.03	156	161	600	9.7	322		775	955	.1	.7		2,830	3.85	161	1,050	787	55	8.1	4,440	7.8
Minimum, Mar. 29-31, 1952	135	15	.06	73	59	143	7.3	194		224	242	.2	4.8		864	1.18	315	424	266	42	3.0	1,450	7.7
Weighted average -----	179	21	.05	93	85	257	7.3	325		357	365	.3	6.5		1,350	1.84	652	582	315	49	4.6	2,180	
Water year 1953																							
Maximum, Mar. 11-16, 1953	19.5	22		183	173	650	9.2	376		848	975		2.9		3,050	4.15	161	1,170	860	54	8.3	4,700	
Minimum, Oct. 5-9, 1952	62.0	16		77	71	145	4.7	298		201	250		3.6		915	1.24	153	484	240	39	2.9	1,550	8.0
Weighted average -----	232	21		85	92	309	7.5	341		388	416		5.3		1,490	2.03	933	590	311	53	5.5	2,390	
Water year 1954																							
Maximum, Dec. 21-31, 1953	20.0	27		160	157	636	7.9	398		802	885		3.5	0.54	2,880	3.92	156	1,040	718	57	8.6	4,430	8.0
Minimum, July 27-29, 1954	148	18		60	69	150	6.0	280		191	232		3.2	.11	867	1.18	346	433	204	43	3.1	1,500	7.8
Weighted average -----	182	23		84	102	384	8.0	322		467	499		7.6	.42	1,730	2.35	850	629	365	57	6.7	2,800	



SEVIER LAKE BASIN—Continued

SEVIER RIVER NEAR LINDY, UTAH—Continued

Chemical analyses, in parts per million, water year 1954 to September 1955

Date of collection	Mean discharge (cfs)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids			Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH
															Parts per million	Tons per acre-foot	Tons per day	Calcium	Non-carbonate				
Oct. 1-6, 1954	47.2	16		83	95	293	6.0	303		373	430		2.3	0.38	1,450	1.77	193	598	349	51	5.2	2,350	7.9
Oct. 7-10	25.2	17		112	144	567	9.0	313		715	785		1.9	.61	2,510	3.41	171	872	615	58	8.4	3,870	8.0
Oct. 11-15	16.4	19		140	166	662	9.3	350		835	920		1.0	.65	2,920	3.77	129	1,030	745	58	9.0	4,420	7.9
Oct. 16-20	25.2	16		93	101	391	6.2	297		436	495		2.1	.40	1,660	2.23	112	648	404	53	5.8	2,520	8.0
Oct. 21-31	58.5	15		89	92	261	5.5	293		355	398		2.5	.30	1,360	1.85	215	600	360	48	4.6	2,230	7.9
Nov. 1-10	72.4	17		84	94	263	5.9	284		367	402		3.4	.26	1,380	1.88	270	596	364	49	4.7	2,230	8.0
Nov. 11-17	151	21		87	111	465	7.8	316		508	565		7.7	.45	1,870	2.54	762	674	414	56	6.8	2,930	8.2
Nov. 18-24, 27-30	28.0	22		143	152	598	8.0	354		728	840		2.6	.52	2,650	3.60	200	982	692	56	8.0	2,640	8.1
Nov. 25-26	36.0	19		102	105	312	5.8	292		411	475		4.6	—	1,580	2.15	154	686	446	49	5.2	2,530	8.0
Dec. 1-10	19.0	22		146	152	591	8.2	345		751	820		2.9	.51	2,680	3.54	137	990	707	56	8.2	4,140	8.1
Dec. 11-20	16.7	22		165	156	628	9.0	398		801	900		2.6	.52	2,880	3.92	130	1,050	727	56	8.4	4,410	8.0
Dec. 21-31	17.4	26		154	155	627	7.8	380		795	860		3.3	—	2,820	3.84	132	1,020	710	57	8.5	4,390	8.0
Jan. 1-10, 1955	17.2	27		166	148	595	7.5	388		772	850		4.0	—	2,760	3.75	128	1,020	704	56	8.1	4,230	8.0
Jan. 11-15	17.0	27		150	146	553	7.5	346		761	835		2.9	.43	2,650	3.56	123	974	691	57	8.3	4,230	8.0
Jan. 16-22	17.0	33		229	278	1,020	12	484		1,300	1,520		2.5	.86	4,650	6.32	213	1,710	1,300	56	11	6,870	7.8
Jan. 23-31	17.0	30		189	183	739	8.5	450		946	1,040		4.3	—	3,360	4.57	154	1,220	856	57	9.2	5,140	7.8
Feb. 1-10	18.0	26		176	157	618	7.1	434		787	880		2.2	—	2,870	3.90	139	1,080	729	55	8.2	4,400	7.9
Feb. 11-19	18.9	26		158	150	580	8.4	371		757	870		5.9	.56	2,740	3.73	140	1,010	707	55	7.9	4,230	7.9
Feb. 20-28, Mar. 1-2	22.6	22		150	143	563	8.4	351		719	835		6.4	.52	2,620	3.56	160	962	675	56	7.9	4,040	8.0
Mar. 3-8	51.7	16		79	69	200	6.2	246		292	298		3.3	.25	1,080	1.47	151	478	276	47	4.0	1,790	7.8
Mar. 9-12	1.96	12		52	29	80	8.3	159		134	115		3.2	.13	512	.70	271	248	118	60	2.8	874	7.7
Mar. 13a	157	—		—	—	—	—	174		257	—		3.9	—	—	—	—	—	—	—	—	1,480	7.7
Mar. 16-20	19.8	24		173	162	647	14	376		847	965		2.8	.61	3,020	4.11	161	1,100	790	56	8.5	4,650	8.0
Mar. 21-22	17.0	27		175	171	700	13	359		915	1,030		2.0	.46	3,210	4.37	147	1,140	846	57	9.0	4,780	7.8
Mar. 25-26	24.5	27		153	123	440	10	334		575	702		2.6	.48	2,500	2.99	146	888	614	52	6.4	3,420	7.7
Mar. 27-31	55.0	17		92	88	234	6.3	282		323	378		3.0	.28	1,280	1.74	190	592	360	46	4.2	2,120	7.7
Apr. 1-10	55.8	14		84	99	267	6.5	282		375	428		2.3	.25	1,410	1.92	212	616	386	48	4.7	2,330	7.8
Apr. 11-20	41.4	15		94	101	286	6.9	291		388	450		2.3	.32	1,490	2.03	167	650	412	49	4.9	2,410	7.8
Apr. 21-26, 29-30	130	20		90	90	279	6.4	298		352	418		4.5	.36	1,410	1.92	381	594	350	50	5.0	2,320	7.7
Apr. 27a	159	—		—	—	—	—	292		182	230		4.6	—	—	—	—	—	—	—	—	1,180	7.5
May 1-10	655	28		90	88	362	7.6	320		428	470		13	.68	1,640	2.23	2,900	586	324	57	6.5	2,630	7.8
May 11-20	599	27		88	90	371	7.1	317		433	475		12	.44	1,660	2.26	2,680	590	330	57	6.6	2,660	7.8
May 21-31	376	26		90	90	371	7.1	310		434	480		10	.27	1,660	2.26	1,690	594	340	57	6.6	2,660	7.8
June 1-10	275	26		87	94	354	7.8	298		442	482		9.9	.48	1,650	2.24	1,230	604	360	56	6.3	2,650	7.8
June 11-20	255	24		86	98	366	7.8	289		463	508		7.4	.44	1,700	2.31	1,170	618	380	56	6.4	2,750	7.9
June 21-30	195	28		85	97	344	6.8	282		423	480		7.0	.48	1,610	2.19	848	611	380	55	6.1	2,620	8.0
July 1-10	571	30		88	97	374	7.7	303		444	510		9.9	.52	1,700	2.34	2,650	618	370	56	6.5	2,780	7.9
July 11-20	615	28		89	99	391	7.7	303		465	518		9.1	.51	1,760	2.39	2,920	629	380	57	6.8	2,840	7.8
July 21-31	212	27		86	101	388	8.5	300		462	525		7.0	.49	1,750	2.38	1,000	630	384	57	6.7	2,830	7.6
Aug. 1-10	182	23		77	98	367	7.5	285		436	500		8.1	.46	1,660	2.26	816	595	362	57	6.5	2,700	8.0
Aug. 11-20	216	26		68	93	359	12	266		411	478		7.3	.47	1,590	2.16	927	552	334	58	6.7	2,560	8.1
Aug. 21-30	319	30		75	100	412	8.6	284		460	538		9.4	.50	1,770	2.41	1,520	598	366	60	7.3	2,860	8.1
Sept. 1-10	213	28		74	104	428	8.6	287		477	568		7.3	.52	1,840	2.50	1,080	612	377	60	7.5	2,960	8.0
Sept. 11-20	167	23		66	108	436	7.9	268		474	582		6.0	.51	1,840	2.50	830	608	389	61	7.7	2,960	8.1
Sept. 21-30	77.0	13		76	95	320	6.3	277		382	458		5.4	.38	1,500	2.04	312	580	353	54	5.8	2,450	7.9
Weighted average	516.4	26		87	97	376	7.8	300		450	507		8.7	0.47	1,710	2.33	757	616	370	57	6.6	2,740	—

aNot included for computation of weighted averages.

bRepresents 99 percent of runoff for water year October 1954 to September 1955.

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (microhmhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
WEBER RIVER BASIN--Continued																			
East Canyon Creek nr. Morgan	8-8-51		502	13	0.02	72	16	13		2.6	261	34	16	0.2	2.0	296	246	10	GS
Webster River																			
at Gateway USGS gaging station	9-21-56	384	441			50	17	16		2.7	201	37	21			273	194	15	ER
at Gateway USGS gaging station	12-27-56	86	602			74	22	22		3.5	284	47	33			367	275	15	ER
at Gateway tunnel gaging station	5-25-57		389			54	12	11		2.0	199	27	15			239	184	11	ER
at mouth of canyon	4-1953		371			43	12	14		2.0	190	23	18			231	168	16	ER
at mouth of canyon	7-12-54	110	470			61	14	14		2.3	254	29	16			270	209	12	ER
at mouth of canyon	8-13-54		453			64	14	14		2.0	363	28	18			249		12	ER
at mouth of canyon	2-17-56		581			75	20	20		2.7	333	46	28			345	271	13	ER
at mouth of canyon	3-16-56		529			64	19	19		2.0	289	44	28			325	238	15	ER
at Gateway	4-8-47	377	338			51	10	5.3		1.87	15	19				242		6	ER
at Gateway gaging station	7-23-56	645	436			62	15	13		2.3	225	39	16			262	218	11	ER
above Power Plant	11-16-53		431			45	14	17		2.0	216	30	21			230	171	17	ER
at Power Plant	12-15-55	5-7	441			54	14	15		2.0	240	25	21			257	194	15	ER
at diversion dam	12-15-55	7-10	560			64	19	23		2.7	273	42	31			326	238	17	ER
below power diversion	11-16-53		590			53	20	22		2.7	287	41	28			336	213	18	ER
below power diversion	2-15-54		554							2.80	32	26					257		GS
at power house - downstream	2-15-54		446							2.18	28	20					200		GS
nr. Weber Canyon	5-6-49	470	330			40	10	12		3.1	148	23	14		.6		141	15	AC
nr. Weber Canyon	7-29-49	545	410			56	13	12		3.9	210	23	12		.2		193	11	AC
1 mile east of Uintah, Davis-Weber County line	7-12-54	110	459	9.3		62	16	13			238	28	17		.5	263*	220	11	GS
at bridge one-fourth mile below Devils gate	11-16-53		442			64	19	21		2.7	262	40	28				238	16	ER
nr. Ogden - seep #1	2-15-54		482							2.43	32	19					220		GS
nr. Ogden - below Devils Gate	2-15-54		549							2.77	32	26					256		GS
nr. Ogden - between seep #1 and #2	2-15-54		512							2.56	32	22					234		GS
nr. Ogden - seep #2	2-15-54		487							2.48	32	18					222		GS
nr. Ogden - seep #3	2-15-54		465							2.28	28	19					210		GS
above Riverdale viaduct	8-13-53		371			38	16	14		2.0	190	28	14			223	160	16	ER
at 24th Street viaduct	8-13-54		463			62	14	15		2.0	257	29	18			265		13	ER
at Wilson diversion dam	5-25-56		394			53	12	11		2.0	198	27	15			244	184	11	ER
at Wilson diversion dam	7-23-56		450			62	16	15		2.7	229	40	18			268	220	12	ER
at Wilson diversion dam	9-21-56		505			63	17	19		3.1	242	36	26			311	227	15	ER
at Wilson diversion dam	12-27-56		621			74	21	26		3.5	288	47	35			369		17	ER
nr. Ogden at USGS gaging station	7-23-56	40	457			61	17	17		2.7	229	41	22			272	222	14	ER
nr. Ogden at USGS gaging station	9-21-56	20	540			61	18	21		3.1	257	23	29			323	226	16	ER
nr. Ogden at USGS gaging station	12-27-56		638			72	22	28		3.9	294	43	38			372	273	18	ER
nr. Ogden at USGS gaging station	5-25-57	1,550	389			54	12	12		2.0	196	27	15			244	184	12	ER
Ogden River (north fork)																			
above Pineview Reservoir	10-16-33					50			4.5		175	13	5.0		2.1	175	156		GS
above Pineview Reservoir	10-16-33					20			2.5		71	20	3.0		.2	92	78		GS
above Pineview Reservoir	9-16-52	10	339	14		52	8.5		6.5		187	15	6.0		1.8	196*	166		GS
a Includes 8 ppm of Carbonate (CO ₃)																			
b Includes 9 ppm of Carbonate (CO ₃)																			
c Includes 11 ppm of Carbonate (CO ₃)																			
d Includes 24 ppm of Carbonate (CO ₃)																			
e Includes 13 ppm of Carbonate (CO ₃)																			
f Includes 14 ppm of Carbonate (CO ₃)																			
g Includes 9 ppm of Carbonate (CO ₃)																			
h Includes 9 ppm of Carbonate (CO ₃)																			
i Includes 7.5 ppm of Carbonate (CO ₃)																			
j Includes 9.6 ppm of Carbonate (CO ₃)																			

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by	
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
WEBER RIVER BASIN--Continued																				
Ogden River (middle fork)	10-16-33					45			8.5		166	6	8.0		0.0	160	135		OS	
above Pineview Reservoir	10-16-33					45			6.9		187	10	6.0		2.2	183	159		OS	
Spring Creek																				
north of Huntsville	10-16-33					72	20		1.7		286	12	11		3.9	262*	262		OS	
one-half mile east of Huntsville	9-16-52		481	11		69	21		4.1		298	9.1	7.0		4.9	254*	258	3	OS	
Ogden River (south fork)																				
above Pineview Reservoir	10-16-33					72	19		12		242	10	6.0		.6	226	192		OS	
above Pineview Reservoir	10-16-33					37	10	1.6	3		289	8	8.0		1.3	254*	258		OS	
above Pineview Reservoir	3-26-47	103	288			173	12		7.8		173	12	7.8			142		2	BR	
above Pineview Reservoir	9-16-52	53	408	9.7		57	17		6.4		246	13	6.5		2.2	223*	212		OS	
Ogden River																				
at Pineview Reservoir	7-12-54		298	5.1		42	10		5.2		164	9.7	8.5		1.0	162*	146	7	OS	
below Pineview Reservoir	3-26-47		258			26	5.7	2.8			143	13	12			128	6		BR	
below Pineview Reservoir	7-12-54		312			39	9.5	6.4		1.6	162	11	9.2			173	137	9	BR	
nr. south of canyon	10-16-33					55			4.5		229	20	14		.6	242	219		OS	
nr. south of canyon	6-6-49		290			34	6.0	9.4		2.0	137	12	14		.4	110	13		AC	
at Ogden	7-12-54	10	370	4.1		43	12		14		168	9.7	28		.3	194*	157	16	OS	
at Ogden	5-25-56		254			34	7.2	7.6		1.2	129	11	12			159	115	12	BR	
at Ogden	7-23-56		330			38	11	14		2.7	148	17	24			186	140	17	BR	
at Ogden	9-21-56		377			42	12	16		4.7	173	18	24			235	154	18	BR	
at Ogden	12-27-56		533			62	18	24		3.5	243	24	41			306	226	12	BR	
Weber River																				
at Slaterville diversion dam	5-25-56		320			43	10	9.4		2.0	162	19	14			193	149	12	BR	
at Slaterville diversion dam	7-24-56		502			64	17	23		3.9	239	40	32			294	228	18	BR	
at Slaterville diversion dam	12-27-56		615			74	19	28		3.9	276	44	41			355	264	18	BR	
North Ogden Creek (North Ogden)	4-5-55	.3	282			39	9.9	6.2		.4	141	76	8.2			154	138	9	BR	
Weber River																				
one-half mile west of Ogden	7-12-54	80	479	12		60	16		20		236	29	24		.6	278*	216	16	OS	
Rice Creek																				
nr. North Ogden	7-29-49		400			41	14	6.0		2.0	214	14	8.2		.4		160	7	AC	
Coldwater Creek																				
nr. North Ogden	4-5-55	.2	414			47	24	6.2		.4	255	69	7.1			220	216	6	BR	
Weber River																				
at Plain City	3-28-52		604	11	0.05	68	21	32		4.5	279	39	39	0.2	1.8	358	256	21	OS	
south of Plain City	6-14-49	1,550	460			47	13	27		6.3	210	21	28		.4		170	25	AC	
south of Plain City	9-7-49	74	790			66	19	57		15	309	31	72		.2		242	32	AC	
south of Plain City	7-12-54		883			74	22	62		10	376	29	85			464	275	32	BR	
south of Plain City	7-12-54	14	860	15		74	25		68		366	22	80		.2	464*	288	34	OS	
CANALS IN WEBER RIVER BASIN																				
Davis and Weber Canal																				
at Clearfield	5-6-49		330			40	10	10		3.1	150	25	9.9		.6		141	13	AC	
nr. Clearfield	7-30-49		510			54	10	21		19	226	36	18		.6		176	19	AC	

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25 °C)	CHEMICAL ANALYSIS IN PARTS PER MILLION															Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
CANALS IN WYNNER RIVER BASIN--Continued																				
Hooper Canal	7-30-49		480			58	12	20		5.1	220	28	24		0.6		194	18	AC	
at West Syncause	9-7-49		500			55	19	19		5.9	235	30	18		.2		215	16	AC	
Warren Canal																				
south of Plain City	6-14-49		400			60	10	12		3.5	197	21	15		.6		190	12	AC	
south of Plain City	9-7-49		780			66	17	54		15	286	31	72		.2		234	32	AC	
Brigham Ogden Canal																				
nr. Willard	6-14-49		220			32	5.0	3.4		.4	134	8.2	3.9		.4		100	7	AC	
nr. Willard	7-30-49		260			37	4.0	5.1		3.1	146	8.2	3.9		.5		109	9	AC	
Plain City Canal																				
nr. Plain City	7-30-44		440			55	12	63		5.1	212	24	22		.4		186	17	AC	
TRIBUTARIES BETWEEN WYNNER AND JORDAN RIVERS																				
Lower Kays Creek																				
southwest of Kaysville	4-1953		989			62	38	97		9.0	510	66	73			599		40	RR	
Holmes Creek																				
northeast of Kaysville	4-1953		102			7.8	3.4	5.8		.8	38	4.8	3.6			71		27	RR	
Lower Holmes Creek																				
southwest of Layton	4-1953		1,057			63	38	115		9.0	498	90	93			646		44	RR	
Haight Creek																				
east of Kaysville	4-1953		111			8.2	3.2	7.4		1.2	40	6.7	5.0			73		31	RR	
Shepherd Creek																				
north of Farmington	4-1953		139			11	4.1	9.0		1.6	57	10	6.0			82		29	RR	
Farmington Creek																				
nr. Farmington	6-6-49		100			7.0	2.0	5.1		.8	36	8.2	3.9				26	30	AC	
above Farmington	3-26-49		116			10	2.2	11			48	12	6.7			51		41	RR	
at old Power Plant building	3-26-49		116			10	2.2				37	12	6.7			51		41	RR	
Farmington Canyon	7-9-54	450	124			11	3.7	7.4		1.1	56	9.1	5.3			68		27	RR	
Steed Creek																				
southeast of Farmington	4-1953		121			10	3.2	8.5		1.2	41	6.2	4.3			78				
Barnard Creek																				
at mouth	8-28-47		222	15		22	7.5		19		106	19	14		.1	149*	86	32	GS	
Ricks Creek																				
northeast of Centerville	4-1953		124			10	3.2	8.5		1.2	44	7.7	4.6			80		32	RR	
Parrish Creek																				
south of canyon	8-8-47		162	17		15	5.2		13		74	13	9		.2	109*	59	32	GS	
nr. Centerville	7-29-49		120			10	3.0	9.0		2.0	50	9.1	6.0		.2		38	35	AC	
Centerville Creek																				
south of canyon	8-8-47		172	18		16	5.4		12		76	11	9		.4	109*	62	29	GS	
east of Centerville	4-1953		159			13	4.4	11		.8	61	9.1	7.5			101		32	RR	
Stone Creek																				
at mouth of canyon	8-8-47		162	18		14	5.2		14		78	9.7	10		.2	110*	56	36	GS	
a Includes 43 ppm of Carbonate (CO ₃)																				
b Includes 41 ppm of Carbonate (CO ₃)																				

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by	
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
JORDAN RIVER BASIN--Continued																				
Spanish Fork River above Strawberry tributary	8-26-49	254	460			48	17	22		3.1	204	42	18		0.2		190	20	AC	
nr. Thistle	3-14-47	104	628			62	29		38		295	59	35	0.5	1.8	371*	274	23	GS	
Thistle Creek																				
nr. Thistle	4-21-50		424	15		56	16		12		226	23	13		3.9	250*	206	11	GS	
nr. Thistle	6-20-56		536	23		51	24		36		284	34	23		1.2	332*	224	26	GS	
Soldiers Creek																				
at Thistle (at the mouth)	6-20-56		565	15		42	34		34		293	53	15		1.4	338*	242	24	GS	
Clear Creek																				
below Soldiers Summit (at the mouth)	6-20-56		571	20		56	30		31		345	35	7.0		.6	350*	262	20	GS	
Diamond Fork Creek																				
below Thistle	6-20-56		350	6.9		42	17		9.6		192	24	6.5		1.6	202*	172	11	GS	
Spanish Fork River																				
at mouth of canyon	6-6-49	276	580			50	23	28		4.7	260	41	24		.4		220	21	AC	
at mouth of canyon	7-30-49	336	470			31	17	18		3.9	213	40	15				148	20	AC	
at mouth of canyon	12-3-54		774			61	28	59		4.7	252	113	87	.3	.9	478	265	32	BR	
at Spanish Fork	6-22-56		412	7.6		41	18		20		196	33	15		1.4	232*	174	20	GS	
Hobble Creek																				
at Mapleton	7-30-49	20	450			60	11	8.0		3.1	219	45	7.1		.5		194	8	AC	
at Spanish Fork	6-2-55		1,472			70	47	189		16	450	203	117			934	51	BR		
nr. Provo	8-18-53		520			62	21	15		3.5	236	62	13			322	12	BR		
nr. Provo	6-2-55		679			87	23	17		2.7	297	98	19			433	10	BR		
Spring Creek																				
nr. Provo (on Hwy. bridge 4 th from surface)	8-18-53		813			102	29	25		3.9	296	145	29			530	13	BR		
nr. Provo (on Hwy. bridge 7 th from bottom)	8-18-53		809			104	32	27		3.9	297	163	30			549	13	BR		
nr. Provo	6-2-55		798			96	28	23		5.9	297	145	25			531	12	BR		
nr. Provo (at the mouth)	8-7-56	2	3,756			464	223	249		7.4	445	2,120	35			3,792	21	BR		
Provo River																				
nr. Heber	10-19-55		401	22		57	13	5.2			140	85	6		.2	257*	196	6	GS	
nr. Heber	3-20-57		360								134	70	6.2		.3		184		GS	
Park Tunnel Ditch																				
nr. Heber	9-6-56		798																GS	
Provo River (North Fork culvert)																				
at Charleston	4-27-49		308	14		42	11		7.4		123	49	9		1.6	195*	156	10	GS	
Provo River (South Fork)																				
at Charleston	4-27-49		327	16		47	12		6.0		158	33	8		5.3	205*	167	7	GS	
Snake Creek																				
at Midway	4-27-49		698	14		94	26	23			282	124	21		1.5	442*	342	13	GS	
nr. Midway	9-6-56	1	1,170																GS	
Drainage from Fish Processing Plant																				
at Charleston	4-27-49		1,010	22		138	38	41			392	203	34		11	680*	500	15	GS	
Daniels Creek																				
nr. Heber	5-14-47		123			16	4.0	5.5			70	8.2	1		1.5	71*	56	18	GS	
Round Valley Creek																				
inflow to Deer Creek	4-27-49		252	11		37	7.9	6.2			140	13	6		2.5	153*	125	10	GS	
Little Hobble Creek																				
nr. Wallburg	10-12-51		436								272	17	5.8						GS	
nr. Wallburg	11-9-56	.6	581			70	26	17		2.3	366	24	21			346		12	BR	

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
JORDAN RIVER BASIN--Continued																			
Little Hobble Creek nr. Wallburg	8-10-56	.5	396			53	14	4.6		1.2	199	24	7.1			228		5	SL
Deer Creek Reservoir	9-6-51			17	1	42	8		8		146	84	6			255	137	8	SL
Deer Creek Reservoir	5-29-56		244	7.4	.03	34	7.6	4.8		1.5	112	26	5.6	0.4	0.8	148	116		OS
Deer Creek Reservoir - surface	9-7-56		375	8.1	.01	49	11	9.0		1.9	162	48	7.8	.1	1.3	215	168	10	OS
Deer Creek Reservoir - 80'	9-7-56		301	9.1	.02	42	9.2	6.2		2.1	136	40	6.2		1.8	180	144	9	OS
at the outlet	4-1-49		526	11	.04	70	18		17		224	76	15	.4	1.8	320*	248	13	OS
at the outlet	4-27-49		493	9.5	.06	67	17		16		216	71	13	.4	2.0	302*	237	13	OS
at the outlet	5-12-49		484	8.6	.06	64	16		14		200	68	14	.3	1.6	285*	226	12	OS
at the outlet	6-2-49		447	9.0		59	16		11		190	63	10	.2	2.1	264*	213	10	OS
at the outlet	8-5-49		344	8.5	.06	46	11	8.3		1.9	153	40	7.0	.2	1.6	203	160	10	OS
at the outlet	9-23-49		375	9.9	.02	50	13	10		6.2	170	47	8.5	.3	.9	229	178	10	OS
at the outlet	10-21-49		395	11	.12	52	13	10		5.8	176	47	8.8	.1	1.4	242	183	10	OS
at the outlet	11-25-49		436	10	.04	59	16	12		2.1	196	56	10	.3	1.3	270	213	11	OS
at the outlet	12-16-49		429	9.4	.03	60	16	10		2.6	194	60	10	.4	1.2	269	216	9	OS
at the outlet	1-26-50		492	14	.03	66	17	13		5.6	211	70	11	.3	2.3	306	234	11	OS
at the outlet	2-17-50		501	15	.06	67	17	13		5.8	215	71	12	.4	2.6	312	237	10	OS
at the outlet	8-31-52		286	11	.03	37	8.8	7.8		2.4	134	27	5.7	.2	1.8	173	128	11	OS
at the outlet	3-10-53		479	11	.02	65	16	13		3.4	214	65	10	.3	.8	294	228	11	OS
at the outlet	9-30-53		368	14	.04	50	12	9.5		2.5	168	42	7.8	.3	1.3	229	174	10	OS
at the outlet	2-23-55		554	15	.04	74	19	15		3.1	218	88	18	.4	1.1	348	262	11	OS
at the outlet	7-29-55		368	10	.04	48	13	7.7		2.3	153	49	9.5	.3	5.9	223	173	9	OS
at the outlet	2-2-56		490	16	.01	64	17	15		3.6	195	72	16	.7	1.6	304	230	12	OS
at the outlet	2-27-56			7		45	13		6		244	80	6			209	166		SL
Provo River																			
below Deer Creek damsite	8-1938			18	4.0	76	18	6.0		1.0	253	76	14			435	262		SL
below Deer Creek dam	5-6-49	27,850	500			64	20	13		5.1	224	62	12		.4		242	10	AC
below Deer Creek dam	7-30-49		360			45	10	8.0		3.9	164	69	6.0		.2		154	10	AC
Deer Creek																			
below Deer Creek damsite	6-26-35			15	17	62	12	7.8		1.0	221	73	9.5			266	204		SL
Provo River																			
2600' upstream from Wasatch-Utah Co. line	4-2-35			16	1.5	78	18	9.0		6.5	242	96	23			360	270		SL
Provo River (North Fork)																			
nr. Wildwood	8-1938			7.0	2.0	11	1.5	1.0		.5	15	8.2	1.6			52	35		SL
bridge at Wildwood	4-3-35			7.5	1.5	50	10	3.0		1.5	200	13	5.5			151	166		SL
Provo River																			
at Steward ranch	8-1938			2.0	1.5	7.1	1.0	2.0		.5	26	6.6	1.6			46	21		SL
Provo River (South Fork)																			
at Vivian Park	4-2-35			11	1.0	47	14	8.4		5.5	214	8.2	5.5			154	177		SL

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by	
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
JORDAN RIVER BASIN--Continued																				
Provo River (South Fork) at Vivian Park	6-26-35			10	3.0	46	14	8.0	5.0	2/215	12	11				156	181		SL	
Provo River at Bates damsite	8-16-56	20	194			25	5.9	3.0		1.6	106	5.8	2.1			115		7	SR	
at Bates damsite	11-9-56	15	413			60	15	4.8		.8	1/230	23	6.4			240		5	SR	
at power intake - upper falls resort	4-27-49		460	10		63	15		17		209	63	11		2.5	284*	218	14	GB	
at Riverside Motel	4-27-49			11		57	17		12		192	62	11		1.7	266*	212	11	GB	
American Fork Creek at mouth of canyon	7-30-49	51	390			51	17	3.0		1.2	170	54	3.2		.2		197	4	AC	
Battle Creek at Pleasant Grove	6-6-49		420			50	14	5.1		.8	190	52	3.9		.4		182	6	AC	
Jordan River at Utah Lake pumps	8-23-49			33	7	84	70	187		11	354	375	272			1,260			SL	
at Lehi	6-3-49		1,530			65	53	187		25	264	267	228		.9		380	50	AC	
at Jordan Narrows	4-8-49	33	1,430			71	58	144		23	220	295	192				416	41	AC	
at Jordan Narrows	3-6-56		1,880	27	.01	112	73		184		278	349	274	0.4	1.2	1,210	580	41	GB	
at Jordan Narrows	4-2-56		2,250	32		145	79		245		231	497	362		1.9	1,480*	688	44	GB	
at Jordan Narrows	6-5-56		1,820	16	.03	65	74				252	329	275		3.3		468		GB	
at Jordan Narrows	8-3-56		2,110	21	.00	74	77	248		25	230	380	338		3.1	1,330	502	50	GB	
at Jordan Narrows	10-1-56		2,350	22	.01	75	88	312		27	242	466	390	.9	1.7	1,530	548	54	GB	
at Jordan Narrows	11-29-56		1,870	48		129	66		177		306	317	280	.9	1.0	1,170*	592	39	GB	
at Jordan Narrows	2-7-57		1,340	48		109	46		121		284	237	172		1.9	875*	460	36	GB	
at Jordan Narrows	4-2-57		3,620	53		124	125		512		277	721	678		2.8	2,350*	822	58	GB	
at Jordan Narrows	5-7-57		1,560	13		73	57		170		224	250	229		3.8	905*	416	47	GB	
at Bridge on Utah 161 & west of US 50	4-5-50		1,560	22		76	61	169		16	268	276	225	.7	1.1	979*	440	44	GB	
at Bridge on Utah 161 & west of US 50	7-21-50		1,690								268	282	270		2.5		480		GB	
at Bridge on Utah 161 & west of US 50	11-22-50		1,630	37		100	63	158		17	280	257	252	.5	4.6	1,630*	508	39	GB	
Willow Creek nr. Draper	7-30-49		100			13	2.0	3.9		3.1	51	5.8	3.2		.2		40	16	AC	
Jordan River at Riverton	2-10-49		1,820			80	77	194		30	158	376	321				516	47	AC	
at Riverton	7-8-49		2,200			98	65	224		36	242	375	351		.2		512	47	AC	
at Riverton	9-15-49		2,350			85	76	226		45	324	374	28		1.6		524	46	AC	
Jordan River (East Fork) at bridge on 10600 south street	4-5-50		3,320	26		258	114	350		14	316	843	530	.4	8.3	2,300*	1,110	40	GB	
at bridge on 10600 south street	7-21-50		2,550								316	558	382		4.3		745		GB	
at bridge on 10600 south street	11-22-50		3,300	29		236	127	340		24	345	835	508	.5	9.1	2,280*	1,110	39	GB	
Jordan River (West Fork) 10600 south street	4-5-50		2,550	32		204	87	242		22	330	545	410	.6	5.1	1,710*	866	37	GB	
10600 south street	7-21-50		2,400								274	494	398		1.0		700		GB	
10600 south street	11-22-50		2,910	40		227	103	280		24	376	628	462	.5	5.5	1,960*	990	37	GB	
Jordan River at West Jordan	6-23-49		870			52	31	75		13	196	97	93		.8		257	37	AC	
at Midvale	2-10-49		2,250			161	80	223		30	281	514	347				730	39	AC	
at Midvale	4-8-49		2,350			167	79	232		33	200	573	375				741	39	AC	
at Midvale	7-8-49		3,380			165	70	236		29	231	524	359				699	41	AC	
a Includes 4 ppm of Carbonate (CO ₃)				b Includes				4 ppm of Carbonate (CO ₃)												

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by	
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
JORDAN RIVER BASIN—Continued																				
Jordan River																				
at Midvale	9-15-49		2,600			151	84	248		45	331	508	390		1.6		722	41	AC	
at Taylorsville	2-10-49		2,000			146	72	190		25	295	444	284				660	37	AC	
at Taylorsville	4-8-49		2,300			162	80	224		31	305	497	342				733	39	AC	
Little Cottonwood Creek																				
nr. Columbus Basin Mine	11-6-46		339	3.8	0.01	44	13	2.4		1.5	94	88	1.8	0.2	.2	211	163		GS	
Little Cottonwood Canyon	2-26-35			9.7	.7	29	5.0	2.1		1.0	85	40	6.1			128	93		SL	
Little Cottonwood Canyon	5-6-35			8.5	.5	22	4.7	3.6		1.2	73	43	6.0			100	74		SL	
Little Cottonwood Canyon	2-19-43			17	2	24	3	6		2	78	26	10			90	72		SL	
1.5 mile above mouth of canyon	5-5-47		118	6.3		17	3.8		1.2		44	18	3.5	.2	.7	72*	58		GS	
1.4 mile above mouth of canyon	4-11-51		190	6.8	.02	25	5.7	2.7		4.5	70	34	2.8	.3	.6	115	86	4	GS	
nr. Wasatch Mine tunnel	12-19-50			7.0	3.0	26	13	5.0		2.0	232	59	7.0			194	118		SL	
mouth of canyon	8-8-47		133	5.3		18	4.4		3.2		54	21	2.2	.4	.1	78	63	10	GS	
mouth of canyon	11-13-47		194	9.3		26	5.7		7.4		84	31	1.8		.4	123*	88	15	GS	
mouth of canyon	5-18-48		117	6.0		16	3.3		4.6		48	19	2.5		.8	76*	54	16	GS	
mouth of canyon	8-17-48		165	6.9		24	4.9		1.4		63	27	1.8	.3	.3	98*	80	4	GS	
at Murray City Power Plant dam	12-19-50			16	2.0	38	4.0	4.0		1.0	128	36	7.0			135	103		SL	
at the intake	3-30-49		205	7.7	.05	28	5.9		3.7		76	34	2.6	.4	.3	120*	94	8	GS	
at the intake	4-22-49		169	6.7	.14	22	4.9		4.4		60	30	2.1	.3	.9	101*	75	11	GS	
at the intake	5-9-49		139	6.6	.13	18	4.1		4.1		52	23	2.0	.4	.7	85*	62	13	GS	
at the intake	6-1-49		119	5.4		14	3.5		5.2		48	17	1.8	.2	.5	71*	49	18	GS	
at the intake	7-30-49		190			20	4.0	3.0		2.0	60	18	2.1		.1		66	9	AC	
at the intake	9-22-49		187	8.1	.01	25	5.2	3.2		5.1	74	32	2.2	.2	.1	113	84	7	GS	
at the intake	10-20-49		199	7.1	.02	28	5.7	2.9		5.0	76	34	2.0	.2	.2	119	93	6	GS	
at the intake	12-15-49		207	8.7	.05	28	6.6		4.2		78	37	2.1	.2	.4	131	97	9	GS	
at the intake	2-27-50		201	6.8	.05	28	6.6	3.2		3.2	75	35	2.2	.4	.4	120	97	6	GS	
at the intake	9-19-51			9	2	23	4		3		79	22	6			102	74		SL	
at the intake	2-23-55		215	7.8	.04	29	6.7	3.4		.8	78	38	2.2	.3	.4	129	100	7	GS	
at the intake	2-27-56			8	2	25	5		4		63	27	6			105	83		SL	
at the intake	5-15-57		154	6.9	.09						22		3.8	.3					GS	
at 6035 South on 9th East	11-22-50		803	15		70	29	55		6.6	230	109	83	.4	3.0	484*	294	28	GS	
bridge at 9th East 6000 South	4-5-50		652	13		63	23	39		4.3	214	88	51	.4	3.0	390*	252	25	GS	
at 6000 South on 9th East	7-21-50		908						79		254	124	93		4.7		300	36	GS	
about 50 yards above Jordan River	4-5-50		853	13		73	31	62		7.4	249	128	80	.4	3.5	521*	310	30	GS	
south of 4800 South	7-21-50		1,050						91		274	156	113		5.0		352	36	GS	
at mouth just above Jordan River	11-22-50		966	16		79	36	74		9.9	266	142	98	.5	5.0	591*	345	31	GS	
Big Cottonwood Creek																				
at the intake	4-19-28			12	2.0	30	9.6	2.5		4.8	135	54	15			163	116		SL	
at the intake	10-19-28			13	1.3	40	9.9	2.4		1.0	354	62	17			226	140		SL	
at the intake	10-9-33			14	3.2	113	15	12		3.3	227	38	12		.0	203			SL	
at the intake	5-6-35			12	6.0	26	9.0	4.0		1.0	98	72	7.0			180	103		SL	
at the intake	10-8-43			8	1	37	11	5		1	143	41	3			164	137		SL	
at the intake	5-5-47		145	7.4		20	5.9		2.1		70	15	3.5	.1	.7	89*	74	6	GS	
at the intake	8-5-47		212	6.8		26	9.3		4.1		101	22	3.5	.3	.2	122	103	4	GS	
at the intake	11-13-47		219	9.2		28	9.3		2.3		98	27	2.8		.4	127*	108	4	GS	

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				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
JORDAN RIVER BASIN--Continued																				
Big Cottonwood Creek																				
at the intake	2-19-48		237	7.4		29	9.9		5.1		106	30	3.8		0.4	138*	113	9	08	
at the intake	5-18-48		154	5.9		20	5.6		4.4		75	16	2.8		.7	92*	73	12	08	
at the intake	8-17-48		235	7.8		31	9.8		3.7		112	27	3.5	0.1	.4	138*	118	6	08	
at the intake	3-24-49		281	7.1	0.04	36	12		3.4		123	38	4.0	.2	.7	162*	140	5	08	
at the intake	4-22-49		199	6.6	.08	24	8.6		4.8		91	25	3.1	.2	.7	118*	96	10	08	
at the intake	5-9-49		184	6.3	.07	23	8.0		3.4		88	21	2.0	.2	.4	108*	90	8	08	
at the intake	6-1-49		176	5.4	.03	22	7.5		3.4		90	15	2.0	.2	.5	100*	86	8	08	
at the intake	9-22-49		177	6.0	.07	40	13	2.7		4.0	144	34	3.2	.2	.5	177	153		08	
at the intake	10-20-49		299	8.4	.04	40	13	2.7		3.8	143	36	4.2	.0	.5	176	153	4	08	
at the intake	12-15-49		342	7.6	.04	45	16		4.0		164	45	3.2	.3	.4	206	178	5	08	
at the intake	9-1951			11	2	40	11		4		146	58	14		.5	162	145		ST	
at the intake	2-23-55		357	8.0	.02	46	16	3.2		.9	160	51	3.5	.1	.5	216	181	4	08	
at the intake	2-27-56			8	4	42	12		4		171	55	10			190	154		ST	
at the intake	5-15-57		193	6.1	.02						20		5	.1					08	
Dr. Salt Lake City	7-30-49		1,170			80	38	92		15	284	174	119		.4		356	35	AC	
at 9th East and about 5000 South	4-5-50		740	11		76	30	35		5.1	219	131	55	.3	.8	452*	313	19	08	
at 9th East about 4700 South	7-21-50		949						78		236	160	98		.2		328	34	08	
at bridge at 9th East about 4700 South	11-22-50		724	12		73	27	36		4.3	232	104	54	.1	0.1	425*	293	21	08	
at 300 West and about 4100 South	4-5-50		862	22		76	36	60		6.0	278	132	74	.7	3.1	547*	338	27	08	
at gage on 3rd West	7-21-50		940						89		242	144	103		.2		300	39	08	
at gage on 3rd West	11-22-50		1,020	15		86	43	70		8.7	291	158	95	.4	3.5	623*	392	27	08	
Spring Run Creek (North Branch)																				
at 13th East	1928			21	3.5		7.4	34		2.5	243	81	64				356		ST	
Spring Run Creek (Center Branch)																				
at 13th East	1928			22	5.7		4.7	36		4.2	261	94	74				426		ST	
Spring Run Creek (South Branch)																				
at 5200 South 13th East	1928			30			11	44		3.1	290	94	89				414		ST	
Spring Run Creek																				
at 48th South 9th East	1928			16	1.5	56	8.7	26		2.6	262	80	66				344	177	ST	
at 48th South 9th East	10-19-42			17	1	89	33	48		9	244	148	112				597	358	ST	
at 48th South 9th East	5-18-48		684	12		63	27		45		216	99	59		4.4		416*	268	27	08
at 48th South 9th East	8-17-48		971	15		76	37		85		260	151	110	.2	2.0		604*	342	35	08
at 47th South 9th East	4-5-50		685	13		67	27	32		4.4	231	89	48	.2	4.1		398*	278	20	08
at 47th South 9th East	7-21-50		799						76		200	119	84		.3		242	40	08	
at 47th South 9th East	11-22-50		851	15		73	33	53		6.4	258	112	79	.1	3.6		502*	318	26	08
Jordan River																				
at 33rd South 10th West	5-18-48		833	13		62	28		73		158	149	100		3.1		506*	270	37	08
at 33rd South 10th West	3-6-56		1,980	22	.04	152	69		187		301	395	287	.4	7.9		1,300	662	38	08
at 33rd South 10th West	4-2-56		1,830	21		150	60				279	365	264		12		620		08	
at 33rd South 10th West	6-5-56		874	11	.03	65	28				155	148	110		3.8		276		08	
at 33rd South 10th West	8-3-56		2,050	23	.00	135	72	202		17	292	388	302	.5	8.8		1,340	632	40	08
at 33rd South 10th West	10-1-56		2,220	25	.01	143	76	231		19	298	442	340	.6	6.7		1,470	672	42	08
at 33rd South 10th West	11-29-56		2,040	25		157	67		204		376	365	300		0.4		1,300*	668	40	08
at 33rd South 10th West	2-7-57		1,990	21		152	69		179		294	375	292		8.0		1,240*	660	37	08
at 33rd South 10th West	4-2-57		1,950	23		129	78		168		290	354	280		11		1,190*	644	36	08
a Includes 16 ppm of Carbonate (CO ₃)				b Includes 12 ppm of Carbonate (CO ₃)				c Includes 12 ppm of Carbonate (CO ₃)												

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION															Total Dissolved Solids	Total Hardness as CaCO ₃	Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)							
JORDAN RIVER BASIN--Continued																						
Parleys Creek																						
at Mountain Dell intake	9-22-49		516	13	0.02	80	13	16		5.3	272	35	20	0.2	0.7	315	253	12	08			
at Mountain Dell intake	10-20-49		515	13	.02	77	10	16		4.6	269	33	20	.2	.2	309	233	13	08			
at Mountain Dell intake	12-15-49		538	14	.04	85	14		16		286	36	22	.2	.0	332	270	11	08			
at Mountain Dell intake	5-15-56			14	2	75	7		3		212	23	17			229	216		08			
nr. south of canyon	2-1928			24	1.5	60	12	6.2		7.2	298	34	40			310	200		08			
nr. south of canyon	8-1928			16	2.8	45	6.7	2.1		11	277	25	20			284	141		08			
nr. south of canyon	5-5-47		437	11		68	11		14		238	28	14	.2	.2	264*	214	12	08			
nr. south of canyon	8-5-47		557	13		76	21		17		265	66	18	.3	.2	322	276	12	08			
nr. south of canyon	11-13-47		563	14		73	20		24		276	66	16		.1	349*	264	17	08			
nr. south of canyon	2-19-48		621	13		87	21		21		298	76	18		.6	383*	304	13	08			
nr. south of canyon	5-18-48		389	10		63	9.0		9.0		210	26	10		.6	231*	194	9	08			
nr. south of canyon	8-17-48		573	12		86	18		15		283	66	15	.1	.2	352*	288	10	08			
nr. south of canyon	9-1951			8	2	74	9		12		238	40	24			277	221		08			
Migration Creek																						
at Migration tunnel	3-24-49		843	15	.03	123	33		18		318	183	21	.0	2.5	552*	442	8	08			
at Migration tunnel	4-22-49		821	15	.05	121	32		18		319	172	21	.0	2.5	539*	434	8	08			
at Migration tunnel	5-9-49		835	15	.05	125	33		17		320	185	20	.1	2.4	555*	448	8	08			
at Migration tunnel	9-22-49		860	17	.02	119	34		20		294	205	20	.1	1.9	593	437	9	08			
at Migration tunnel	11-23-49		857	16	.03	127	36		20		320	194	20	.1	2.2	595	465	8	08			
at mouth of canyon	3-12-35			20	4.0	128	34		9.0		320	230	24			636	460		08			
at mouth of canyon	5-5-47		511	12		84	17		3.7		270	47	12	.1	.3	309*	280	3	08			
at mouth of canyon	8-5-47		641	14		88	26		15		288	87	22	.2	.9	408	326	9	08			
at mouth of canyon	11-13-47		694	18		102	28		21		362	66	24		.4	434*	353	12	08			
at mouth of canyon	2-19-48		588	13		82	19		20		280	67	18		.9	358*	282	13	08			
at mouth of canyon	5-18-48		528	12		82	15		17		286	49	12		.6	328*	266	12	08			
at mouth of canyon	8-17-48		775	17		114	31		5.5		313	133	19	.2	1.9	476*	412	3	08			
at mouth of canyon	9-1951			8	3	125	33		18		140	190	21			577	447		08			
at mouth of canyon	2-27-56			27	6	118	18		19		317	158	22			537	368		08			
Red Butte Creek																						
at mouth of canyon	5-5-47		544	13		86	23		4.4		274	72	13	.1	.3	347*	309	3	08			
at mouth of canyon	8-5-47		750	14		96	36		20		322	126	24	.2	.5	488	388	10	08			
at mouth of canyon	10-7-48																					
at mouth of canyon	28-47		601	17		76	29		16		272	87	20		1.3	380*	308	10	08			
at mouth of canyon	11-13-47		779	18		101	35		26		338	133	26		.4	506*	394	12	08			
at mouth of canyon	2-19-48		673	13		91	29		18		300	114	15		.2	428*	346	10	08			
at mouth of canyon	5-18-48		501	12		73	21		9.0		257	61	10		.2	313*	268	7	08			
at mouth of canyon	8-17-48		658	17		88	30		22		289	123	18	.0	.1	440*	343	12	08			
at mouth of canyon	10-20-48		580	13	.05	73	26		19		264	88	15	.2	.2	372	289	12	08			
at mouth of canyon	6-19-50		548	12		76	23		9.9		265	67	13	.1	.1	332*	284	7	08			
City Creek																						
at the highline	2-23-55		430		7.4	.01	61	17	6.7	.7	252	14	7.1	.1	.6	280	222	6	08			
at the highline	5-17-57		362		6.0	.00						12	6	.0					08			
at Pleasant Valley intake	6-1-49		345		6.3		56	13		1.7	214	13	5.0	.2	.4	201*	193	2	08			
at Pleasant Valley intake	2-22-49		374		7.7	.03	55	14		5.8	222	14	7.0	.1	.3	213*	194	6	08			
at 20th Ward	3-24-49		443		9.2	.05	62	17		8.7	248	17	16	.1	.2	252*	224	8	08			
a Includes 5 ppm of Carbonate (CO ₃)				e Includes 7.9 ppm of Carbonate (CO ₃)				h Includes 22 ppm of Carbonate (CO ₃)				i Includes 13 ppm of Carbonate (CO ₃)				j Includes 14 ppm of Carbonate (CO ₃)						
b Includes 5 ppm of Carbonate (CO ₃)				f Includes 12 ppm of Carbonate (CO ₃)				i Includes 13 ppm of Carbonate (CO ₃)				j Includes 14 ppm of Carbonate (CO ₃)										
c Includes 8.9 ppm of Carbonate (CO ₃)				g Includes 17 ppm of Carbonate (CO ₃)																		
d Includes 4.9 ppm of Carbonate (CO ₃)																						

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
JORDAN RIVER BASIN--Continued																			
City Creek																			
at 20th Ward	5-9-49		354	7.0	0.05	52	12		7.4		211	12	6.0	0.1	0.4	201*	179	8	OS
at 20th Ward	9-22-49		508	15	.01	64	21	17		5.1	280	16	24	.2	.1	308	246	13	OS
at 20th Ward	10-19-49		450	8.9	.13	68	17	7.4		3.7	a/267	13	9.2	.0	.3	253	240	6	OS
at mouth of canyon	5-1928			18	2.6	40	7.8	6.9		7.2	b/234	18	16			234	131		SE
at mouth of canyon	11-1928				.75	52	13	10		5.6	278	13	12			230	183		SE
at mouth of canyon	5-5-47		362	8.7		56	12		5.8		220	10	6.5	.1	1.2	209*	189	6	OS
at mouth of canyon	8-5-47		420	9.5		61	17		8.0		d/256	13	11	.2	.2	222	222	7	OS
at mouth of canyon	11-13-47		443	12		63	18		8.7		e/270	13	11		.1	259*	231	8	OS
at mouth of canyon	2-19-48		456	11		60	19		11		f/260	16	16		.2	261*	228	10	OS
at mouth of canyon	5-18-48		351	6.8		59	11		5.1		220	13	5.8		1.2	210*	192	5	OS
at mouth of canyon	8-17-48		495	14		71	19		11		284	19	18	.1	.1	292*	255	8	OS
at mouth of canyon	12-15-49		511	15	.02	64	21		16		282	15	24	.2	.2	304	246	12	OS
at mouth of canyon	4-11-51		418	10	.03	58	16	7.4		3.5	242	15	12	.1	.5	237	210	7	OS
at mouth of canyon	9-1951			7	2	54	15		8		152	14	9			213	196		SE
at mouth of canyon	2-27-56			12	8	50	13		6		244	17	10			272	178		SE
Jordan River																			
at bridge on 2nd South	11-14-31					160	79		192		311	448	298			1,330*	724		OS
at bridge on West North Temple	8-17-48		1,940	23		128	73		202		a/286	405	282	.5	4.0	1,260	620	41	OS
at bridge on West North Temple	6-23-49	152	1,400			96	43	134		17	229	238	188		1.2		416	40	AO
CANALS IN JORDAN RIVER BASIN																			
Highline Canal																			
at Payson	5-6-49	18,370	560			63	26	20		3.9	268	37	16		.6		264	14	AC
at Payson	7-29-49		470			50	17	18		3.9	217	40	15		.4		195	16	AC
at Payson	8-7-49		450			51	13	17		3.9	205	37	15		.2		180	17	AC
Utah Lake Highline Canal																			
at Draper	5-6-49		1,630			63	61	174		25	264	269	224		1.0		412	46	AC
at Draper	6-6-49		1,430			63	56	156		24	253	246	193		.8		387	45	AC
at Draper	7-30-49		1,700			57	57	200		30	229	296	252		.4		376	51	AC
Provo Reservoir Canal																			
at Riverton	6-3-49		430			55	10	11		4.7	188	52	9.9				178	12	AC
Utah Lake Canal																			
at Riverton	6-3-49		930			61	26	82		15	221	140	101		.9		259	39	AC
South Jordan Canal																			
at Riverton	6-6-49		1,430			63	76	154		24	271	235	192		.8		470	40	AC
Utah-Salt Lake Canal																			
at Riverton	6-3-49		1,550			64	51	186		28	262	272	232		.9		369	50	AC
at Riverton	6-23-49		1,540			63	56	174		25	245	252	218		.8		387	47	AC
at Riverton	7-30-49		1,700			59	60	196		30	226	296	244		.4		394	50	AC
at Riverton	9-20-49		1,820			47	73	230		40	221	335	296		.4		417	52	AC
Salt Lake City Canal																			
at Midvale	6-6-49		2,000			110	80	202		29	303	305	332		1.6		604	41	AC
Salt Lake Highline Canal																			
at Murray	9-30-49		1,500			63	57	168		27	249	258	215		.8			46	AC
a Includes 12 ppm of Carbonate (CO ₃)				c Includes 12 ppm of Carbonate (CO ₃)														392	
b Includes 3 ppm of Carbonate (CO ₃)				d Includes 9.8 ppm of Carbonate (CO ₃)															
				e Includes 7.9 ppm of Carbonate (CO ₃)															

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION													Percent Sodium	Analysis by	
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃
CANALS IN JORDAN RIVER BASIN-- Continued																			
North Jordan Canal at Taylorsville	6-29-49		2,500			142	81	260		34	329	539	395		1.4		687	44	AO
North Point Canal (west of Salt Lake)	6-23-49		2,200			71	58	295		30	187	348	399		.8		416	59	AO
Surplus Canal at Salt Lake Airport	6-23-49		1,280			89	43	117		16	220	240	165		1.2		398	38	AO
Bonneville Canal at Bountiful	6-6-46		1,550			70	56	176		27	278	270	224		.8		404	47	AO
at Bountiful	6-23-49		1,270			89	39	112		15	221	210	157		1.2		382	38	AO
at Bountiful	7-29-49		1,800			118	60	186		25	292	348	256		.4		541	41	AO
TRIBUTARIES SOUTHWEST OF GREAT SALT LAKE																			
Mona Reservoir at outlet	6-3-49		1,600			65	51	201		13	290	158	294		.7		372	53	AO
at outlet	7-29-49		1,600			58	49	192		22	253	162	290		.2		346	53	AO
Holdback Reservoir nr. Goshen	8-25-49		480			47	17	20		3.9	209	39	18		.2		187	18	AO
Goshen Reservoir nr. Goshen	8-25-49		1,650			59	55	196		17	259	163	311		.4		373	52	AO
South Spring nr. Goshen	8-25-49		2,380			83	34	350		32	323	88	580		.5		346	66	AO
Ophir Creek nr. Ophir	7-11-49		370			43	10	6.0		2.0	185	10	6.0		1.0		148	8	AO
Settlement Canyon Creek nr. Tooele	6-23-49		470			54	14	13		1.6	234	17	16		.9		192	13	AO
South Willow Creek nr. Grantsville	7-11-49		310			38	9.0	11		2.0	154	10	14		.6		132	15	AO
Canal 10.5 miles north of Tooele	6-23-49		2,700			408	47	360		19	277	246	581		1.0		462	62	AO
Deseret Livestock Creek nr. Skull Valley	7-11-49		240			23	6.0	15		2.0	103	8.2	20		.2		82	28	AO
TRIBUTARIES NORTHWEST OF GREAT SALT LAKE																			
Curlew Creek west of Snowville	6-17-49		1,810			81	46	226		19	321	237	302		.4		391	53	AO
Dove Creek at Rosette	6-17-49		580			54	9.0	42		5.9	212	20	66		.4		172	34	AO
Muddy Creek at Rosette	6-17-49		1,320			92	25	132		18	332	55	214		.4		332	45	AO
Grouse Creek nr. Grouse Creek	6-17-49		600			57	18	31		6.6	288	33	29		.2		216	23	AO

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (microhmhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
TRIBUTARIES NORTHWEST OF GREAT SALT LAKE--Continued																			
Grouse Creek																			
nr. Grouse Creek	9-7-49		490			52	14	18		3.9	220	34	22		0.1		187	17	AC
south of Grouse Creek	6-17-49		1,090			62	26	112		16	387	104	82		.8		262	46	AC
west fork at Etina	6-17-49		740			54	24	58		11	315	58	41		.4		233	34	AC
west fork at Etina	9-7-49		600			47	18	28		7.0	272	39	26		.1		191	23	AC
Locomotive Springs																			
Fish & Game cabin	9-7-49		4,800			93	50	760		120	189		1,460				438	74	AC
SEVIER LAKE BASIN																			
SEVIER RIVER																			
Assay Creek																			
nr. Hatch	6-5-49		310			39	9.0	2.1		1.2	202	3.8	1.1		.2		134	3	AC
nr. Hatch	4-21-50		316	11		42	16		3.0		204	7.2	1		1.8	182*	171	4	GS
Assay Creek (West Fork)																			
nr. Hatch	8-28-54		312								196	9.3					161		GS
Assay Creek																			
at mouth	9-30-55		308			38	16				195	6.6	3.5		.8		162		GS
Mammoth Creek																			
nr. Hatch	5-6-49		170			19	7.1	2.1		2.0	91	4.3	3.2		.2		76	5	AC
nr. Hatch	6-5-49		190			20	7.1	2.1		1.2	121	1.9			.1		79	5	AC
nr. Hatch	4-21-50		247	21		32	12		3.7		158	6.0	1		.7	154*	130	6	GS
at mouth	9-30-55	10	322	25		40	15	7.6			202	7.4	4.5		1.9	201*	164	9	GS
Sevier River																			
at Bryce Junction	4-21-50		338	14		42	18		3.2		214	8.2	1		.7	192*	179	4	GS
at Bryce Junction	9-30-55		366	20		44	19	6.2			230	8.2	4.0		.6	215*	188	7	GS
at Panguitch	5-6-49		280			31	9.0	4.1		3.9	160	7.2	2.1				114	7	AC
at Kingston	5-6-49	385	340	33		12	14			3.9	188	14	3.9		.4		132	18	AC
Sevier River (East Fork)																			
nr. Kingston	5-6-49		490			44	25	21		5.9	229	41	12		.4		213	17	AC
Bullion Creek																			
nr. Marysville	7-14-50		590			56	17	28		3.9	253	71	5.0		.0		210	22	AC
Sevier River																			
at Balknap	10-30-52		469								202	47	16						
nr. Sevier Junction	4-21-50		472	26		44	22		26		250	33	13		1.1	287*	200	22	GS
above Clear Creek	8-9-51	65.1	511	25	0.03	53	18	30		.8	205	76	21		.8	328	206	24	GS
nr. Sevier	5-6-49	610	170			16	10	10		3.1	73	13	9.2		.2		81	21	AC
nr. Sevier	8-11-49	495	440			37	16	28		7.0	239	32	13		.1		158	27	AC
1/4 mile south of Joseph	4-9-54		457	25		45	13				161	78	13		1.1		176		GS
highway bridge at Joseph	5-6-49		430			43	20	26		5.9	214	28	9.9		.2		190	22	AC
highway bridge at Joseph	7-22-49		450			40	16	25		7.0	235	25	11		.3		166	24	AC
highway bridge at Joseph	8-11-49		430			38	15	27		7.0	235	34	12		.2		156	26	AC
highway bridge at Elsinore	5-6-49		470			38	23	33		5.9	221	40	16				190	27	AC
highway bridge at Elsinore	8-11-49		500			42	15	38		7.8	246	42	21		.4		166	32	AC

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (microhmhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
SEVIER RIVER--Continued																			
Sevier River																			
Central and Annabella Road	6-5-49		580			50	15	36		6.6	256	54	26		.6		186	29	AO
nr. Richfield	6-2-49		790			60	28	50		10	290	129	34		.8		264	28	AO
nr. Richfield	6-5-49		830			63	34	52		9.0	294		39		.8		296	28	AO
nr. Richfield	5-6-49		910			77	45	55		9.0	282	183	43		.4		377	24	AO
nr. Richfield	6-5-49		1,400			100	84	77		12	329		76		1.4		594	22	AO
nr. Richfield	7-22-49		1,420			108	93	80		12	338	409	83		.8		652	21	AO
nr. Richfield	8-11-49		1,280			100	65	78		12	338	384	73		.8		516	24	AO
highway bridge at Sigurd	5-6-49	3.0	1,270			80	58	98		12	303	249	113				438	32	AO
highway bridge at Sigurd	8-26-49	20	1,240			88	54	96		12	321	222	119		1.2		426	32	AO
nr. Sigurd	4-21-50	4.8	1,570			110	75		129		325	343	169		2.3	1,020*	583	33	OB
highway bridge at Aurora	5-6-49		1,500	30		98	73	140		14	361	304	152		6.0		544	35	AO
highway bridge at Aurora	8-26-49		2,300			87	89	276		28	505	554	220		1.8		583	49	AO
Lost Creek																			
nr. Aurora	5-6-49	42	410			39	15	19		5.1	200	15	23		.1		159	20	AO
Sevier River																			
highway bridge at Salina	5-6-49		2,500			130	84	298		17	395	420	384		3.6		670	48	AO
highway bridge at Salina	6-16-49		780			57	28	66		9.4	206	128	59		1.2		257	35	AO
highway bridge at Salina	7-25-49		2,450			121	76	304		20	408	429	375		4.2		614	51	AO
highway bridge at Salina	8-11-49		2,150			118	72	258		18	396	417	335		4.8		590	48	AO
highway bridge at Salina	8-26-49		2,200			123	54	244		17	395	410	318		4.4		529	49	AO
nr. Salina	9-30-55		2,620	42		103	69	382			338	408	452		21	1,640*	540	61	OB
Salina Creek																			
nr. Salina	5-6-49	43	760			54	28	66		5.9	274	56	70		1.0		250	36	AO
nr. Salina	8-11-49	1.6	700			55	24	58		7.0	262	93	87		.6		236	34	AO
Sevier River																			
nr. Redmond	5-6-49		1,980			88	58	229		14	352	251	286				458	51	AO
nr. Redmond	6-16-49		840			47	25	80		9.4	226	122	81		1.2		220	43	AO
nr. Redmond	7-25-49		2,450			108	73	351		20	417	408	459		4.2		570	38	AO
nr. Redmond	8-11-49		2,450			110	64	370		19	404	394	471		4.8		538	59	AO
nr. Redmond	8-26-49		2,400			92	72	292		19	395	393	377		5.0		526	54	AO
nr. Redmond	4-21-50		2,860	36		133	81		383		391	400	532		14	1,770*	665	56	OB
Redmond Lake																			
nr. Redmond	8-26-49		1,180			47	41	112		14	244	176	140		.8		285	49	AO
Willow Creek																			
nr. Axtel	7-14-50		1,080			37	36	113		5.1	328	116	107		2.0		240	50	AO
Sevier River																			
west of Centerfield	5-6-49	1.0	2,450			93	68	299		18	368	344	368				512	55	AO
west of Centerfield	6-5-49	38	1,850			79	56	250		14	335	280	285		2.0		427	55	AO
west of Centerfield	8-26-49	152	3,000			99	96	376		20	418	521	492		4.2		642	55	AO
San Pitch River																			
at Fairview	6-6-49		640			63	41	12		2.3	376	22	8.2		.8		326	7	AO
at Fairview	8-11-49		700			52	39	18		3.9	395	28	9.9		.8		290	12	AO
at Fairview	8-26-49		700			33	36	18		3.9	391	26	9.9		.7		230	14	AO
Cottonwood Creek																			
nr. Fairview	6-6-49		680			68	44	15		3.5	398	26	11		1.0		350	8	AO

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION														Percent Sodium	Analysis by
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃		
SEVIER RIVER—Continued																			
Pleasant Creek nr. Mt. Pleasant	6-6-49		370			50	13	2.1		1.2	229	7.2	2.1		0.4		178	2	AC
Oak Creek nr. Spring City	6-6-49		400			50	16	2.1		1.2	254	5.8	2.1		.4		191	2	AC
Ephraim Creek nr. Ephraim	6-5-49		370			42	16	3.0		1.2	218	19	2.1		.4		171	4	AC
nr. Ephraim	8-11-49		360			31	22	8.0		2.0	214	22	3.2		.2		168	9	AC
Manti Creek nr. Manti	8-26-49		560			51	30	12		3.1	220	92	2.1		.2		250	9	AC
San Pitch River at Manti	8-26-49		990			59	56	37		5.9	497	103	26		1.2		377	17	AC
at Gunnison Reservoir outlet	6-5-49		1,480			61	84	143		11	445	240	136		.9		497	38	AC
at Gunnison Reservoir outlet	8-11-49		1,510			52	90	178		13	501	272	167		.2		500	43	AC
at Gunnison Reservoir outlet	8-26-49		1,700			53	102	186		12	500	282	180		.4		551	42	AC
at Sterling	6-5-49		1,120			51	56	111		7.4	359	112	131		.8		357	40	AC
at Sterling	8-11-49		1,820			49	86	236		13	451	259	275		.4		476	51	AC
Six Mile Creek nr. Sterling	6-5-49		440			42	26	9.9		1.2	265	19	3.2		.6		212	9	AC
Wine Mile Creek north of Sterling	8-26-49		1,280			38	56	162		9.8	490	142	97		5.0		325	51	AC
San Pitch River at Gunnison Canal	8-26-49		2,250			44	84	296		14	461	298	369		.8		455	58	AC
nr. Christianburg	4-21-50		1,920	19		80	117		189		522	358	206		1.6	1,230*	680	38	AC
at Station No. 2	5-27-55		695			72	44	17		2.3	431	31	12			410	9	BR	
at Station No. 5	5-27-55		1,594			75	103	144		6.3	615	286	98			1,078	34	BR	
Sevier River at Sevier Bridge Reservoir	5-6-49	1,250	1,250			72	90	318		18	318	406	420		4.0		550	56	AC
at Sevier Bridge Reservoir	8-7-49	249	2,250			73	78	320		18	303	398	444		1.2		502	57	AC
below Sevier Bridge Reservoir	9-28-55		940	20		46	46	73			224	84	138		3.2	520*	306	34	GS
Chicken Creek Reservoir west of Levan	5-6-49		3,100			224	170	215		16	216	1,130	294		.8		1,260	27	AC
west of Levan	6-3-49		3,050			206	177	257		16	124	1,220	345		.7		1,240	31	AC
west of Levan	8-7-49		3,450			235	155	290		14	43	1,410	419		.2		1,220	34	AC
Chicken Creek at Levan	7-29-49		600			43	30	28		3.9	244	68	33		.2		231	20	AC
Sevier River bridge on old Leanington road	5-6-54		2,620	22		94	87				346	428	452		9.7		595		GS
nr. Lynndyl	5-5-54	542	2,660	22		91	91				342	442	460		9.4		600		GS
nr. Lynndyl (at cable)	5-6-54	482	2,660	21		92	90				340	440	458		9.5		600		GS
nr. Lynndyl	5-6-54		2,660	21		92	90				340	436	460		9.7		600		GS
nr. Lynndyl (daily station)																			
Oak Creek at Oak City	8-20-49		430			41	21	10		2.0	218	8.2	9.9		.2		189	10	AC
Sevier River at Delta reservoir	6-3-49		2,400			63	84	352		18	310	405	444		1.8		502	59	AC
at Delta reservoir	7-31-49		2,440			62	72	330		19	265	399	454		1.2		450	60	AC
at Delta reservoir	8-20-49		2,600			67	85	350		19	277	419	483		1.2		516	58	AC
nr. Delta	5-6-54		2,780	24		103	99				344	456	490		6.6		662		GS
at Gunnison Bend reservoir	6-3-49		2,700			83	92	380		20	312	453	520		1.6		585	58	AC

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				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids	Total Hardness as CaCO ₃			
SEVIER RIVER--Continued																				
Sevier River																				
at Gunnison Bend reservoir	7-31-49		2,580			70	90	330		20	274	426	487		1.2		544	56	AC	
at Gunnison Bend reservoir	8-20-49		2,600			73	87	355		20	281	429	513		.6		540	58	AC	
at Desert Dam	8-20-49		4,500			164	166	570		23	298	750	1,010		.5		1,090	52	AC	
SCIPPIO LAKE RESERVOIR																				
Scipio Lake Reservoir																				
nr. Scipio	6-3-49		500			27	38	21		3.9	258	12	26		.4		224	17	AC	
PAVANT VALLEY																				
Wild Goose Creek																				
nr. Holden	8-7-49	750	420			41	24	8.0		2.0	246	5.8	12		.4		201	8	AC	
Chalk Creek																				
nr. Fillmore	11-22-44		407			50	22		2.8		243	9	9		.5	213*	215		GS	
nr. Fillmore	8-7-49	14	370			44	19	5.1		2.0	206	22	6.0		.2		188	5	AC	
Meadow Creek																				
at mouth of canyon	11-22-44		363			52	15		7.1		220	14	8		.6	205*	192		GS	
Corn Creek																				
at mouth of canyon	11-22-44		452			48	25		9.0		235	21	20		.2	239*	223		GS	
BEAVER RIVER BASIN																				
Beaver River																				
nr. Beaver	8-1-49	42	320			33	3.0	9.0		7.0	172	8.2	6.0		.4		95	16	AC	
nr. Beaver	8-8-49	43	170			13	3.0	3.9		2.0	75	5.8	.4		.2		45	15	AC	
nr. Adamsville	7-13-50		870			51	22	98		12	333	102	54		.1		218	48	AC	
bridge nr. Adamsville	2-7-51		464	41		48	14		34		195	48	28		1.3	310*	178	29	GS	
Minersville reservoir	7-13-50		680			42	16	60		12	281	48	43		.1		171	41	AC	
nr. Milford	4-2-50		1,830								8/236		332				626		GS	
LITTLE SALT LAKE BASIN																				
Little Salt Lake																				
nr. Parowan	7-17-25					36	470	98,600		3,180	5/4,730	59,300	115,000			282,500			GS	
Red Creek																				
at mouth of canyon	9-29-39										5/187	8	2				158		GS	
Center Creek																				
at headgates	9-29-39										5/208	10	2				182		GS	
Summit Creek																				
nr. Summit	3-17-40										8/228	24	7		.2		225		GS	
at reservoir	8-9-49		420			46	16	9.0		5.0	236	20	7.1		.4		181	9	AC	
Parowan Creek																				
nr. Parowan	8-8-49		330			33	26	17		3.9	285	16	5.0		.2		190	16	AC	
a Includes 26 ppm of Carbonate (CO ₃) b Includes 826 ppm of Carbonate (CO ₃)																				
c Includes 16 ppm of Carbonate (CO ₃) d Includes 15 ppm of Carbonate (CO ₃)																				
e Includes 6.9 ppm of Carbonate (CO ₃)																				

SOURCE AND LOCATION	Date of Collection	Mean Discharge (cfs)	Specific Conductance (micromhos at 25° C)	CHEMICAL ANALYSIS IN PARTS PER MILLION													Percent Sodium	Analysis by																																						
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	(Na + K)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total Dissolved Solids			Total Hardness as CaCO ₃																																					
LITTLE SALT LAKE BASIN—Continued																																																								
Willow Creek nr. Paragonah	3-15-40										a/244	10	9		0.0		168		OS																																					
Coal Creek nr. Cedar City	9-29-39	111 14	400 500								b/203	120	3				276		OS																																					
nr. Cedar City	6-4-49				51	10	3.9	2.0	196	38	3.9		1.0		168		4	AC																																						
nr. Cedar City	8-10-49				56	21	9.0	3.9	203	86	8.2		.1		226		8	AC																																						
Shirts Creek nr. Cedar City	3-21-40											c/125	1,050	24		1.0		1,200		OS																																				
Camp Creek nr. Kanabreville	12-27-51		126			175	35	23		7	178	517	19						AC																																					
Kanarra Creek nr. Cedar City	3-20-40											204	54	6	3.9		249		OS																																					
Qneatchupah Creek nr. Cedar City	3-20-40										d/138	3	7		.0		78		OS																																					
Pinto Creek nr. Pinto	8-10-49		500			57	10	24		5.9	300	10	17		.4		183	21	AC																																					
nr. Newcastle	6-4-49		330			30	4.0	19		5.1	161	16	16		.5		92	30	AC																																					
nr. Newcastle	8-9-49		840			49	23	70		7.0	320	52	72		1.2		217	40	AC																																					
at Newcastle	6-15-50		671								302		48						OS																																					
Enterprise Reservoir nr. Enterprise	6-4-49		220			28	6.0	24		5.9	163	12	18		.2		94	34	AC																																					
SHAKE RIVER BASIN, UTAH																																																								
Reft River at Lynn	6-17-49		600			54	10	40		10	271	22	44		.1		176	32	AC																																					
at Lynn	9-7-49		600			30	7.1	44		14	235	22	75		.2		104	44	AC																																					
Goose Creek nr. Headwaters	9-7-49		850			81	11	34		20	345	80	42		.1		247	21	AC																																					
George Creek at Tost	6-17-49		260			23	6.0	16		2.7	112	10	17		.4		82	29	AC																																					
a Includes 26 ppm of Carbonate (CO ₃) b Includes 3.9 ppm of Carbonate (CO ₃)																			c Includes 3.9 ppm of Carbonate (CO ₃)																			d Includes 26 ppm of Carbonate (CO ₃)																		