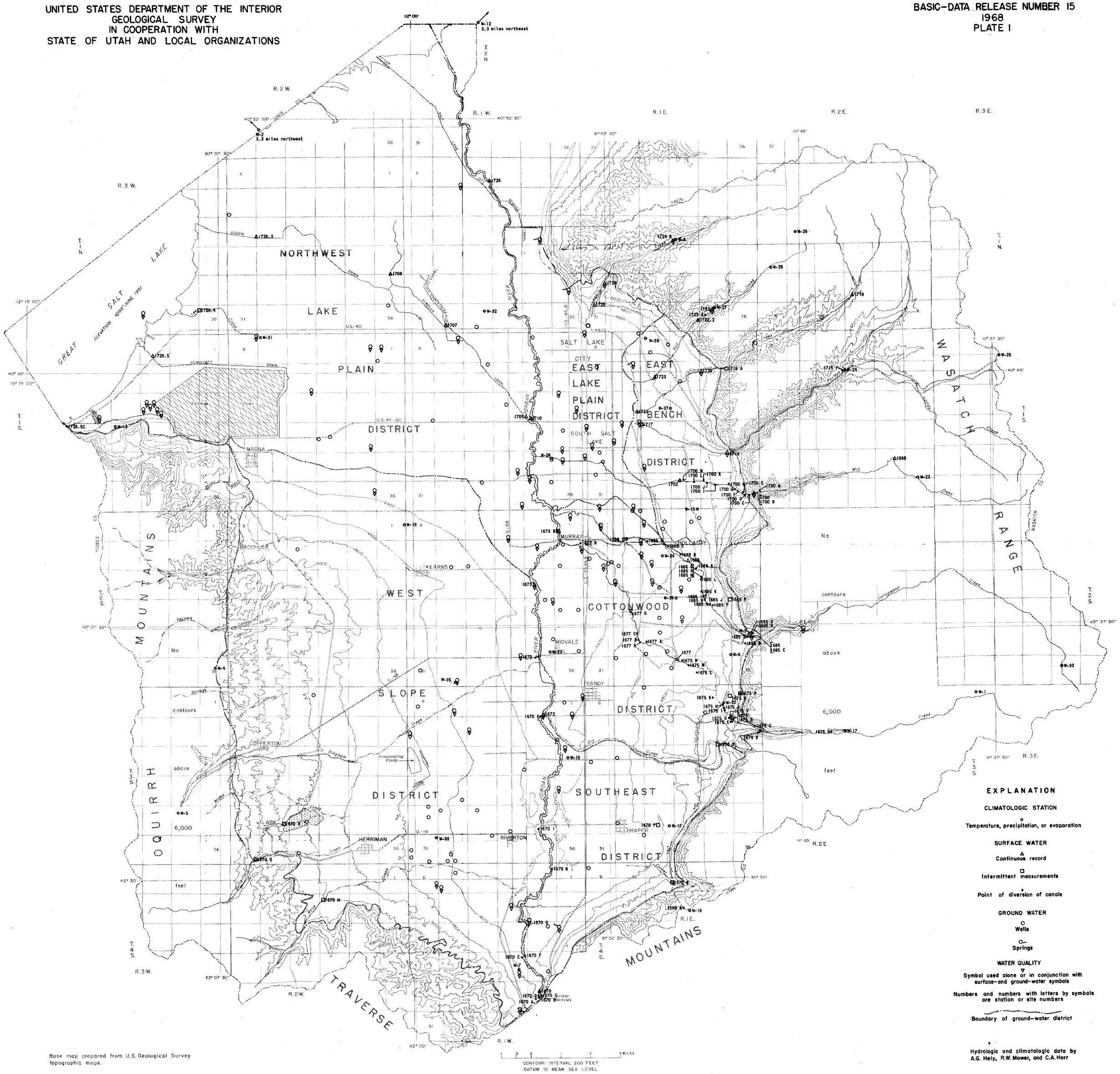
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
IN COOPERATION WITH
STATE OF UTAH AND LOCAL ORGANIZATIONS

BASIC-DATA RELEASE NUMBER 15
1968
PLATE I



Base map prepared from U.S. Geological Survey topographic maps.

EXPLANATION

CLIMATOLOGIC STATION

Temperature, precipitation, or evaporation

SURFACE WATER

Continuous record

Intermittent measurements

Point of diversion of canals

GROUND WATER

Wells

Springs

WATER QUALITY

Symbol used alone or in conjunction with surface-and ground-water symbols

Numbers and numbers with letters by symbols are station or site numbers

Boundary of ground-water district

Hydrologic and climatologic data by A.G. Hely, R.W. Mower, and C.A. Horr

MAP OF SALT LAKE COUNTY, UTAH, SHOWING LOCATION OF HYDROLOGIC AND CLIMATOLOGIC DATA-COLLECTION SITES 1967

UTAH BASIC-DATA RELEASE NO. 15
(Open-File Release)

HYDROLOGIC AND CLIMATOLOGIC DATA

1967

SALT LAKE COUNTY, UTAH

by

A. G. Hely, R. W. Mower, and C. A. Horr

U.S. Geological Survey

Prepared by

The United States Geological Survey

in cooperation with

The State of Utah and local organizations

Salt Lake City, Utah

1968

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INTRODUCTION

An investigation of the water resources of Salt Lake County, Utah, was undertaken by the Water Resources Division of the U.S. Geological Survey in July 1963. This investigation is a cooperative project financed chiefly by equal contributions of the State of Utah and the Federal Government in accordance with an agreement between the Division of Water Rights, Utah Department of Natural Resources, and the Geological Survey. The investigation was financed during the period covered by this report by the following organizations: Utah Division of Water Rights (formerly State Engineer), Utah Division of Water Resources (formerly Water and Power Board), Salt Lake County, Salt Lake County Water Conservancy District, Central Utah Water Conservancy District, Metropolitan Water District of Salt Lake City, City of Murray, Granger-Hunter Improvement District, Taylorsville-Bennion Improvement District, Holladay Water Company, Magna Water and Sewer District, U.S. Bureau of Reclamation, U.S. Geological Survey.

The investigation encompasses the collection and interpretation of a large variety of climatologic, hydrologic, and geologic data in and near Salt Lake County. Utah Basic-Data Releases 11-13 contain data collected through 1966. This release contains climatologic and surface-water data for the 1967 water year (October 1966 to September 1967) and ground-water data collected during the 1967 calendar year. A similar annual release will contain data collected during the remainder of the investigation, and interpretive reports will be prepared as the investigation proceeds. Organizations that furnished data are acknowledged in station descriptions and footnotes to tables.

For most of the records herein, the periods of record and the publications (other than this series of releases) or files where the records may be found are given. In addition to Utah Basic-Data Releases 11-13 and the U.S. Geological Survey Water-Supply Papers containing previously published data that are noted in the heading of each table or records-available section of station descriptions, the following reports contain data and information on the water resources of Salt Lake County.

Arnow, Ted, 1965, Ground water in the Jordan Valley, Salt Lake County, Utah: Utah State Engineer Water Circ. 1.

Arnow, Ted, and Mattick, R. E., 1968, Thickness of valley fill in the Jordan Valley, east of Great Salt Lake, Utah in Geological Survey Research 1968: U.S. Geol. Survey Prof. Paper 600-B, p. B79-B82.

Arnow, Ted, and others, 1964, Ground-water conditions in Utah, spring of 1964: Utah Water and Power Board Coop. Inv. Rept. 2.

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Baker, C. H., Jr., Price, Don, and others, 1967, Ground-water conditions in Utah, spring of 1967: Utah Division of Water Resources Coop. Inv. Rept. 5.

Berger Associates, 1964, Future requirements for water, reservoirs, and aqueducts in the Salt Lake metropolitan area: Metropolitan Water District of Salt Lake City, Utah.

Connor, J. G., Mitchell, C. G., and others, 1958, A compilation of chemical-quality data for ground and surface waters in Utah: Utah State Engineer Tech. Pub. 10.

Gardner, D. I., (Published annually) Utah Lake and Jordan River distribution: Water Commissioner's Reports to Utah State Engineer.

Hood, J. W., and others, 1966, Ground-water conditions in Utah, spring of 1966: Utah Water and Power Board Coop. Inv. Rept. 4.

Lofgren, B. E., 1952, Jordan Valley, Salt Lake County, in Status of development of selected ground-water basins in Utah: Utah State Engr. Tech. Pub. 7, p. 76-83.

Marine, I. W., and Price, Don, 1963, Selected hydrologic data, Jordan Valley, Salt Lake County, Utah: U.S. Geol. Survey open-file rept. (duplicated as Utah Basic-Data Report 4).

_____1964, Geology and ground-water resources of Jordan Valley, Utah: Utah Geol. and Mineralog. Survey Water Resources Bull. 7.

Richardson, G. B., 1906, Underground water in the valleys of Utah Lake and Jordan River, Utah: U.S. Geol. Survey Water-Supply Paper 157.

Taylor, G. H., and Leggette, R. M., 1949, Ground water in the Jordan Valley, Utah: U.S. Geol. Survey Water-Supply Paper 1029.

Templeton, Linke, and Alsup, 1966, Water-supply facilities and water-storage facilities in the Salt Lake County area: Salt Lake County Water Conservancy District.

Ward, J. A., Skoubye, C. M., and Ward, G. A., 1957, Flow characteristics and chemical quality of the Jordan River, Salt Lake County, Utah, for the year 1957: Utah State Water Pollution Control Board.

STATION-NUMBERING SYSTEM

Climatologic stations listed in this report have been assigned numbers preceded by the letter "W" (table 1). The station sites are plotted on plate 1 with the individual station number near each location.

Records of streamflow at gaging stations are listed in downstream order and are keyed by station or site numbers to plate 1. Station numbers not followed by a letter are the station identification numbers adopted by the Water Resources Division of the U.S. Geological Survey for regular streamflow stations. Chemical-quality and sediment stations operated at the streamflow gaging stations are assigned the same number. For this release, station numbers followed by a letter have been adopted for canals and miscellaneous streamsites. These numbers are used as site identification numbers on plate 1 and in the tables of surface-water, chemical-quality, and sediment data.

Station locations are described by reference to well known landmarks, the cadastral land-survey system, or the Salt Lake County coordinate system, which indicates direction and distance from the intersection of Main and South Temple Streets in Salt Lake City. Twenty-seventh East Street, for example, is 27 blocks east of Main Street and may be designated as 2700 East. Similarly, 21st South Street is 21 blocks south of South Temple Street and may be designated 2100 South. However, west and north of Main and South Temple Streets the hundred West and North designations are 100 higher than the street names indicate due to the inclusion of West Temple Street between Main Street and 1st West Street and North Temple Street between South Temple Street and 1st North Street.

WELL- AND SPRING-NUMBERING SYSTEM

The system of numbering wells and springs in Utah is based on the cadastral land-survey system of the U.S. Government. The number, in addition to designating the well or spring, locates its position to the nearest 10-acre tract in the land net. By this system the State is divided into four quadrants by the Salt Lake Base Line and Meridian, and these quadrants are designated by the upper case letters A, B, C, and D, thus: A, for the northeast quadrant; B, for the northwest; C, for the southwest; and D, for the southeast quadrant. Numbers designating the township and range, respectively, follow the quadrant letter, and the three are enclosed in parentheses. The number after the parentheses designates the section, and the lowercase letters give the location within the section. The first letter indicates the quarter section, which is generally a tract of 160 acres, the second letter indicates the 40-acre tract, and the third letter indicates the 10-acre tract. The numbers that follow the letters indicate the serial number of the well or spring within the 10-acre tract. Thus, well (C-2-1)24adc-1, in Salt Lake County, is in the SW¼SE¼NE¼ sec. 24, T. 2 S., R. 1 W., and is the first well constructed or visited in that tract. (See fig. 1.) Springs are designated by the letter S preceding the serial number at the end of the location number.

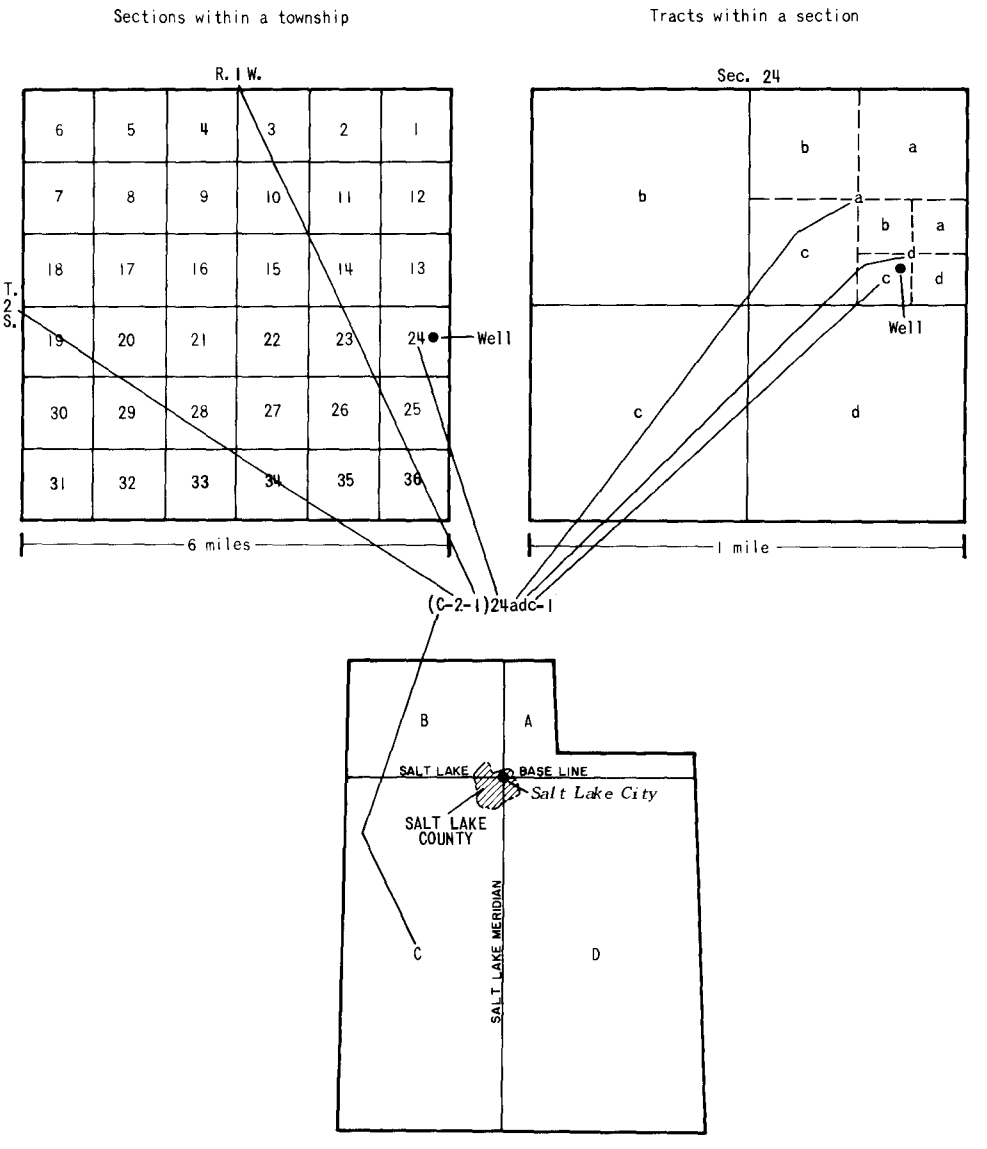

Figure 1.—Well- and spring-numbering system.

Table 1.--Climatologic stations

Types of data.--D, daily values; M, monthly values; records available in publications or files of the Geological Survey or the Environmental Science Service Administration (Weather Bureau).

Station	Map number	WB index number	Latitude		Longitude		Section	Township	Range	Elevation	Types of data				
			°	'	°	'					Air temperature	Precipitation	Evaporation	Relative humidity	Solar radiation
Alta	W-1	0072	40	36	111	38	5	3 S	3 E	8,760	D	D			
Antelope Island	W-2	0194	40	55	112	10	10	2 N	3 W	4,225	D	D			
Barneys Canyon	W-4		40	36	112	08	36	2 S	3 W	6,400		M			
Bingham Canyon	W-5	0699	40	32	112	09	26	3 S	3 W	6,280	D	D			
Butlerville	W-6		40	37	111	48	26	2 S	1 E	5,060		D			
Camp Williams	W-7		40	27	111	56	22	4 S	1 W	4,600	D	D			
City Creek Water Plant	W-8	1446	40	49	111	50	15	1 N	1 E	5,335		D			
Cottonwood Weir	W-9	1759	40	37	111	47	25	2 S	1 E	4,961	D	D			
Crescent	W-10		40	34	111	54	13	3 S	1 W	4,380		D			
Draper	W-11	2233	40	32	111	50	28	3 S	1 E	4,630	D	D	D	D	D
Farmington Bay Refuge	W-12		40	57	111	55	35	3 N	1 W	4,210	D	D	D	D	
Garfield	W-13	3097	40	43	112	12	21	1 S	3 W	4,310	D	D			
Holladay	W-15		40	41	111	49	3	2 S	1 E	4,630		D			
Hog Hollow	W-16		40	29	111	50	10	4 S	1 E	5,860		M			
Hogum Fork	W-17		40	34	111	43	9	3 S	2 E	6,450		M			
Kearns	W-18		40	40	112	00	1	2 S	2 W	4,460	D	D	D	D	
Little Cottonwood Water Plant	W-20		40	35	111	48	2	3 S	1 E	5,040		D			
Mill Creek Canyon	W-22		40	42	111	40	25	1 S	2 E	6,880		M			
Midvale	W-23	5610	40	36	111	53	26	2 S	1 W	4,342		D			
Mountain Dell Dam	W-24	5892	40	45	111	43	9	1 S	2 E	5,500	D	D			
Parleys Summit	W-25	6669	40	46	111	37	4	1 S	3 E	7,590		M			
Red Butte No. 2	W-27		40	47	111	48	5	1 N	1 E	5,425		M			
Red Butte No. 4	W-28	7200	40	48	111	46	19	1 N	2 E	6,200		M			
Red Butte No. 6	W-29	7210	40	49	111	45	17	1 N	2 E	7,180		M			
Riverton	W-30	7343	40	31	111	59	31	3 S	1 W	4,655	D	D	D	D	D
Saltair Salt Plant	W-31	7578	40	46	112	06	5	1 S	2 W	4,210	D	D	D		
Salt Lake City WB AP	W-32	7598	40	46	111	58	33	1 N	1 W	4,220	D	D			D
Silver Lake Brighton	W-33	7846	40	36	111	35	36	2 S	3 E	8,700	D	D			
Sixty-second South pump	W-34	7852	40	38	111	50	22	2 S	1 E	4,440	D	D	D	D	
West Jordan	W-35		40	36	111	58	32	2 S	1 W	4,530		D			
Cottonwood Meadows	W-36		40	40	111	50	9	2 S	1 E	4,360		D			
Foothill P.O.	W-37		40	44	111	50	16	1 S	1 E	4,560		D			
S L C Suburban Sewage Plant	W-38	7608	40	42	111	55	26	1 S	1 W	4,235	D	D	D	D	
University of Utah	W-39	8922	40	46	111	51	4	1 S	1 E	4,735	D	D			

Table 2.--Monthly precipitation, in inches

Water year October 1966 to September 1967

Station	Map No.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year
Alta	W-1	-	4.84	-	13.57	e5.18	6.30	8.51	e3.29	e2.40	e1.18	e.79	e1.16	-
Antelope Island	W-2	0.78	1.36	1.22	1.84	.65	1.82	3.20	2.05	2.86	.24	.10	1.05	17.17
Barneys Canyon	W-4	3.25	1.40	2.26	2.74	1.20	2.33	2.52	3.35	3.25	1.95	.60	1.55	26.40
Bingham Canyon	W-5	2.30	.97	2.38	2.02	.60	1.35	2.24	3.53	5.17	1.49	.55	2.30	24.90
Butlerville	W-6	2.54	1.25	1.68	3.03	1.21	2.60	1.95	4.84	1.61	.99	.46	.75	22.91
Camp Williams	W-7	1.86	.42	1.62	1.32	.16	.80	.74	4.37	2.56	1.01	.52	1.21	16.59
City Creek Water Plant	W-8	2.65	2.07	1.80	4.08	1.70	2.65	4.17	3.95	3.73	1.30	.34	1.48	29.92
Cottonwood Weir	W-9	2.61	1.23	1.50	3.27	1.32	2.99	2.14	5.70	2.00	1.10	.60	e1.74	26.20
Crescent	W-10	1.62	.65	1.42	1.61	.40	1.33	.60	1.89	1.77	.36	.88	.79	13.32
Draper	W-11	1.87	1.08	3.08	2.65	1.05	1.85	1.76	3.97	2.28	1.25	.50	.82	22.16
Farmington Bay Refuge	W-12	.81	1.43	.99	2.19	.65	.92	2.99	1.71	3.07	.39	.06	.87	16.08
Garfield	W-13	1.64	1.24	.99	1.98	.54	1.73	1.81	1.82	3.17	.36	.18	.93	16.39
Holladay	W-15	2.09	1.19	1.48	2.77	.65	2.15	1.69	2.98	1.10	1.06	.64	.73	18.53
Hog Hollow	W-16	2.35	1.60	2.92	4.48	1.37	3.14	2.51	2.18	2.75	1.05	.65	1.15	26.15
Hogum Fork	W-17	2.85	2.35	5.08	5.77	2.17	5.53	4.55	5.65	4.10	1.35	.40	1.46	41.26
Kearns	W-18	1.37	.61	.85	1.51	.26	1.22	1.65	2.29	2.61	.39	.45	.80	14.01
Little Cottonwood Water Plant	W-20	1.87	1.05	2.00	2.84	1.25	3.01	1.84	5.40	2.47	1.14	.90	.64	24.41
Mill Creek Canyon	W-22	3.25	2.95	4.93	6.27	3.75	4.20	6.65	4.50	3.30	.90	1.00	2.02	43.72
Midvale	W-23	1.52	.65	1.06	2.07	.52	1.71	1.65	1.43	1.11	.34	.88	.91	13.85
Mountain Dell Dam	W-24	2.12	1.47	2.25	3.51	1.21	1.73	3.30	3.28	2.61	.64	.09	1.50	23.71
Parleys Summit	W-25	2.69	(*)	3.57	5.30	3.53	2.67	5.70	5.58	2.85	.54	.31	1.25	33.99
Red Butte No. 2	W-27	2.08	1.35	1.34	4.07	1.32	2.47	2.72	2.65	2.98	1.41	.46	.95	23.80
Red Butte No. 4	W-28	2.28	2.02	2.32	5.50	1.99	2.98	4.55	3.47	3.02	.94	.42	1.51	31.00
Red Butte No. 6	W-29	2.4	2.8	4.0	6.7	3.0	5.1	5.3	3.3	3.4	.8	.6	1.2	38.6
Riverton	W-30	1.49	.56	1.15	1.79	.20	1.07	.58	2.21	2.86	.49	.70	1.18	14.28
Saltair Salt Plant	W-31	.71	.56	.56	.97	.27	1.17	1.88	1.68	3.08	.37	.19	.97	12.41
Salt Lake City WB AP	W-32	1.18	.75	.86	2.05	.67	1.94	2.08	2.15	2.73	1.14	.07	.73	16.35
Silver Lake Brighton	W-33	3.09	4.14	2.82	5.66	3.40	5.04	6.58	5.47	3.32	.71	1.04	1.34	42.61
Sixty-second South pump	W-34	2.31	.82	.21	1.31	.66	1.24	1.52	3.20	1.57	1.17	.48	.64	15.13
West Jordan	W-35	1.65	.65	1.07	2.10	.31	1.36	1.07	2.11	1.91	1.04	.69	1.02	14.98
Cottonwood Meadows	W-36	1.56	1.22	1.63	2.43	.71	1.91	1.64	2.85	1.02	1.49	e.52	.68	e17.66
Foothill P.O.	W-37	1.97	1.14	1.53	3.08	.86	1.98	2.33	2.48	2.23	.72	.42	1.45	20.19
S L C Suburban Sewage Plant	W-38	1.43	.91	1.06	2.20	.69	1.04	1.45	2.08	1.70	.78	.44	.71	14.49
University of Utah	W-39	2.04	1.21	.91	2.32	.79	2.37	2.02	2.37	2.99	1.70	.27	.95	19.94

* Amount for this month included in the total shown for the following month.
e Partly or wholly estimated.

Table 3.--Monthly air temperature, in degrees Fahrenheit

Data.--Maximum (minimum) is the average of the daily maximum (minimum) values.

Water year October 1966 to September 1967

Station	Map No.	Data	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
Alta	W-1	Max.	-	40.4	-	30.8	32.0	36.1	35.2	-	-	-	72.0	59.8	
		Min.	-	25.3	-	14.2	14.3	19.4	19.3	-	-	-	52.5	43.6	
		Mean	-	32.9	-	25.2	23.2	27.8	27.3	-	-	-	62.3	51.7	-
Antelope Island	W-2	Max.	66.9	54.4	36.2	39.2	49.1	57.2	59.4	72.6	79.9	97.4	98.6	84.8	
		Min.	35.3	29.9	20.9	19.7	23.9	30.5	31.8	40.9	49.1	62.1	60.9	50.2	
		Mean	51.2	42.2	28.6	29.5	36.5	43.9	45.6	56.8	64.5	79.8	79.8	67.5	52.2
Bingham Canyon	W-5	Max.	58.1	48.8	35.6	37.8	40.9	49.3	50.6	62.1	69.1	84.3	85.2	74.7	
		Min.	38.0	33.7	19.5	21.9	24.6	30.5	30.7	41.8	45.0	61.8	62.3	51.6	
		Mean	48.1	41.3	27.6	29.9	32.8	39.9	40.7	52.0	57.1	73.1	73.8	63.2	48.3
Camp Williams	W-7	Max.	64.5	53.9	36.4	36.6	43.5	55.8	57.0	69.4	77.1	91.7	92.7	80.5	
		Min.	36.6	30.8	21.2	19.6	24.0	30.9	32.4	42.6	50.1	62.2	61.3	52.3	
		Mean	50.6	42.4	28.8	28.1	33.8	43.4	44.7	56.0	63.6	77.0	77.0	66.4	51.0
Cottonwood Weir	W-9	Max.	65.7	55.8	36.7	41.7	49.3	57.7	58.5	68.5	76.3	92.2	92.2	-	
		Min.	42.0	37.1	22.8	23.7	27.0	33.7	34.4	45.3	51.5	66.9	67.0	-	
		Mean	53.9	46.5	29.8	32.7	38.2	45.7	46.5	56.9	63.9	79.6	79.6	-	-
Draper	W-11	Max.	66.0	55.9	38.9	43.6	48.6	58.1	60.1	70.5	77.9	93.8	94.3	82.3	
		Min.	33.8	31.7	20.2	22.4	24.5	31.6	32.8	39.9	46.3	57.5	56.4	48.8	
		Mean	49.9	43.8	29.6	33.0	36.6	44.9	46.5	55.2	62.1	75.7	75.4	65.6	51.5
Farmington Bay Refuge	W-12	Max.	61.4	52.9	35.4	36.1	45.8	-	54.5	64.8	74.5	91.7	93.3	79.5	
		Min.	33.1	29.6	22.2	16.1	25.5	-	33.5	41.7	50.5	59.7	57.6	46.8	
		Mean	47.8	41.2	28.8	26.1	35.6	-	44.0	53.2	62.5	75.7	75.4	63.2	-
Garfield	W-13	Max.	62.0	49.8	35.9	39.1	46.6	54.2	57.1	66.9	74.4	91.6	91.5	-	
		Min.	41.2	35.7	24.8	24.8	29.9	35.7	38.1	48.1	56.0	69.5	66.3	55.6	
		Mean	51.6	42.8	30.4	32.0	38.2	45.0	47.6	57.5	65.2	80.6	78.9	-	-
Kearns	W-18	Max.	63.0	52.9	35.2	37.2	46.0	56.5	58.2	67.9	76.0	93.4	94.0	81.9	
		Min.	37.6	33.2	22.4	23.5	27.3	32.5	35.0	43.9	48.9	63.1	64.0	53.8	
		Mean	50.3	43.0	28.8	30.4	36.6	44.5	46.6	55.9	62.4	78.2	79.0	67.8	52.0
Mountain Dell Dam	W-24	Max.	62.4	52.8	36.4	38.9	44.2	52.6	53.9	65.7	73.6	89.1	88.0	77.1	
		Min.	26.7	22.4	11.1	14.2	12.3	23.5	27.0	34.6	43.4	52.5	51.3	43.6	
		Mean	44.6	37.6	23.8	26.6	28.3	38.1	40.5	50.2	58.5	70.8	69.7	60.4	45.8
Riverton	W-30	Max.	64.7	53.7	36.8	37.6	44.5	56.7	58.8	68.3	77.2	92.2	93.3	81.3	
		Min.	33.7	30.4	19.8	19.6	23.6	29.8	31.6	40.2	48.2	58.5	57.0	48.5	
		Mean	49.2	42.1	28.3	28.6	34.1	43.3	45.2	54.3	62.7	75.4	75.2	64.9	50.3
Saltair Salt Plant	W-31	Max.	60.5	51.6	36.7	-	46.1	53.4	55.8	66.3	73.1	91.4	90.9	77.9	
		Min.	36.2	31.5	23.3	-	26.1	34.0	37.2	44.6	52.8	64.9	63.6	53.8	
		Mean	48.4	41.6	30.0	-	36.1	43.7	46.5	55.5	63.0	78.2	77.3	65.9	-
Salt Lake City WB AP	W-32	Max.	64.9	54.2	35.8	37.5	47.5	55.8	57.8	69.5	78.3	94.7	95.7	81.9	
		Min.	34.9	32.0	22.6	21.3	27.4	32.6	34.4	43.0	50.8	62.0	61.4	51.4	
		Mean	49.9	43.1	29.2	29.4	37.5	44.2	46.1	56.3	64.6	78.4	78.6	66.7	52.0
Silver Lake Brighton	W-33	Max.	50.3	40.7	-	31.3	33.9	38.7	40.1	49.9	58.5	72.9	72.7	64.2	
		Min.	24.5	20.4	-	11.5	9.5	15.8	17.6	24.7	34.4	44.6	42.9	36.3	
		Mean	37.5	30.6	-	21.4	21.7	27.3	28.9	37.3	46.5	58.8	57.8	50.3	-
Sixty-second South pump	W-34	Max.	66.3	58.0	39.0	48.2	50.8	57.8	60.7	71.0	77.9	92.9	93.8	81.8	
		Min.	33.7	29.7	19.8	22.8	26.5	31.3	32.9	39.2	49.4	58.6	57.5	48.6	
		Mean	50.0	43.8	29.4	35.5	38.6	44.6	46.8	55.1	63.6	75.8	75.6	65.2	52.0
S L C Suburban Sewage Plant	W-38	Max.	65.1	54.8	37.0	39.5	48.3	56.8	58.7	70.6	77.9	94.2	94.7	81.5	
		Min.	37.1	33.2	23.7	23.5	27.1	32.8	35.4	43.8	51.4	62.6	61.5	52.1	
		Mean	51.1	44.0	30.4	31.5	37.7	44.8	47.1	57.2	64.7	78.4	78.1	66.8	52.6
University of Utah[a]	W-39	Max.	59.3	49.2	31.8	36.4	43.0	49.5	51.4	61.3	71.8	91.5	92.9	78.8	
		Min.	39.7	34.8	21.0	23.3	26.5	32.4	33.1	41.8	50.9	-	67.1	55.2	
		Mean	49.5	42.0	26.4	29.9	34.8	41.0	42.3	51.6	61.4	-	80.0	67.0	-

a Thermometers at this station are located in a shelter on the roof of a building.

Table 4.--Monthly pan evaporation and wind movement

Data.--Evaporation given in inches; wind movement, in miles per month. The maximum (minimum) is the average of the daily maximum (minimum) water temperatures in pan, in degrees Fahrenheit.

Water year October 1966 to September 1967

Station	Map. No.	Data	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Draper	W-11	Evap.	-	-	-	-	-	-	5.09	5.95	5.72	8.81	8.64	5.73
		Wind	-	-	-	-	-	-	2,089	835	618	375	399	549
		Max.	-	-	-	-	-	-	61.2	74.9	81.7	93.8	92.4	80.8
		Min.	-	-	-	-	-	-	39.6	47.9	57.4	64.2	62.6	55.2
Farmington Bay Refuge	W-12	Evap.	-	-	-	-	-	-	5.21	5.87	6.72	11.08	10.55	7.49
		Wind.	967	1,188	961	1,237	-	1,939	1,882	1,215	1,180	991	1,010	920
		Max.	-	-	-	-	-	-	-	63.0	80.0	91.5	89.3	75.0
		Min.	-	-	-	-	-	-	-	48.6	56.0	64.2	61.5	53.2
Kearns	W-18	Evap.	-	-	-	-	-	-	5.77	7.01	7.41	12.36	13.07	8.33
		Wind	-	-	-	-	-	-	3,816	1,947	1,609	1,935	2,111	2,126
		Max.	-	-	-	-	-	-	58.9	73.3	81.1	90.4	89.7	79.5
		Min.	-	-	-	-	-	-	38.8	47.9	55.7	62.5	60.8	54.2
Riverton	W-30	Evap.	-	-	-	-	-	-	6.19	6.06	6.62	9.27	9.86	6.22
		Wind.	-	-	-	-	-	-	-	518	1,022	874	873	946
		Max.	-	-	-	-	-	-	61.4	73.9	83.3	92.3	90.8	80.2
		Min.	-	-	-	-	-	-	38.4	48.1	54.0	63.5	61.3	54.0
Saltair Salt Plant	W-31	Evap.	4.61	-	-	-	-	-	7.30	8.40	8.56	13.48	14.21	8.74
		Wind	2,761	2,923	-	-	-	-	5,000	3,875	3,342	3,252	3,358	3,034
		Max.	61.0	-	-	-	-	-	60.6	72.0	78.3	89.9	88.5	77.4
		Min.	38.5	-	-	-	-	-	38.9	46.3	54.0	61.4	60.2	53.5
Sixty-second South pump	W-34	Evap.	-	-	-	-	-	-	-	6.80	6.69	10.07	10.53	5.62
		Wind.	-	-	-	-	-	-	1,254	842	117	116	39	129
		Max.	-	-	-	-	-	-	-	-	87.1	95.8	94.2	85.5
		Min.	-	-	-	-	-	-	-	-	59.3	67.0	66.8	58.9
S L C Suburban Sewage Plant	W-38	Evap.	-	-	-	-	-	-	6.38	8.61	8.14	11.84	11.80	8.00
		Wind	-	-	-	-	-	-	2,984	1,948	1,656	1,381	1,702	1,706
		Max.	-	-	-	-	-	-	60.3	74.5	81.3	90.9	89.4	77.6
		Min.	-	-	-	-	-	-	38.8	47.6	55.6	61.6	61.2	53.4

Table 5.--Records of selected wells

Well number.--See text for description of numbering system.

Casing.--Finish: O, open end; P, perforated, upper and lower limits of perforations given in feet below the land surface if known; S, screen, length of screen or upper and lower limits of screen given in feet; W, walled or shored.

Altitude of land-surface datum.--Surveyed altitudes are given in feet and tenths; altitudes interpolated from topographic maps are given in feet.

Water level.--Measured distances to water levels are given in feet and tenths; reported and estimated distances are given in feet.

Method of lift.--C, centrifugal pump; F, flowing well; J, jet pump; N, no pump and well does not flow; P, piston pump; S, submersible turbine pump; T, turbine pump.

Yield (gpm, gallons per minute).--F, natural flow; P, pumped; e, estimated; m, measured, r, reported.

Principal use of water or well in 1967.--A, air conditioning; H, domestic; I, irrigation; N, industrial; P, public supply; R, recreation; S, stock; U, unused.

Other data available.--C, chemical analyses (table 9); D, drillers' logs (table 7); J, gamma-ray, temperature, and fluid resistivity logs are in files of the U.S. Geol. Survey. Records of other wells are contained in Utah Basic-Data Releases 4, 11-13, and Water-Supply Paper 1029.

Well number	Owner or user	Year drilled	Depth of well (feet)	Casing			Altitude of land-surface datum (feet)	Water level		Method of lift	Yield		Use of water in 1967	Temperature (°F)	Other data available
				Diameter (inches)	Depth (feet)	Finish		Above (+) or below (-) land-surface datum (feet)	Date of measurement		Rate (gpm)	Date of measurement			
(B-1-1)															
5ddd-1	C. F. and E. L. Gillmor	1896	302	6	302	-	4,214	+15.2	1-20-67	F	67Fm	1-20-67	H	83	C
14dcb-S1	Becks Hot Spring	-	-	-	-	-	4,230	-	-	F	60Fe	7-26-67	U	132	C
25dbb-S1	Wasatch Plunge Inc.	-	-	-	-	-	4,300	-	-	-	-	-	R	105	C
(B-1-3)															
34bcb-1	Morton Salt Co.	1934	884	8	860	P672-872	4,200	+28.2	9-12-67	F	28Fm	9-12-67	U	78	C,J
(C-1-1)															
2bac-2	General Brewing Corp.	1959	870	16	755	S575-734	4,222	(+)	8-24-59	T	1,012Pr	8-24-59	N	63	D
5aad-4	Utah Wool Pulling Co.	1958	660	4	660	P640-660	4,222	(+)	2-24-67	J	61Pm	2-24-67	N	64	C
13bba-1	State of Utah, Highway Dept.	1942	815	4	-	-	4,225	(+)	8- 4-67	F	5Fe	8- 4-67	N	59	C
13dab-1	Intermountain Farmers Assoc.	1932	864	3	864	P844-864	4,240.0	+5.2	8- 2-67	F	1Fm	8- 2-67	U	58	C
24cdc-2	D. J. Maddocks	1930	400	2	400	O	4,236.0	(+)	8- 4-67	J	1Fe	8- 4-67	H	55	C
25bdb-1	South Salt Lake City	1967	1,000	16	1,000	P214-1,000	4,236	(+)	7-25-67	F	158Fm	7-25-67	U	64	C,D,J
26ccd-1	Jordan Meat and Livestock Co.	-	375	4	-	-	4,235	-	-	T	-	-	N	56	C
27bdd-3	G. C. Bills and Sons	1967	716	8	710	P671-710	4,243	(+)	2-21-67	S	235Pm	2-21-67	P	67	D,J
27dac-4	L. B. Wiley	1954	308	2	308	O	4,250	(+)	8- 2-67	F	-	-	U	56	C
34dda-1	J. R. MacKay	1929	435	3	435	O	4,264.4	(+)	4- 3-67	F	5Fm	4- 3-67	U	55	C
(C-1-2)															
1bcd-1	Bonneville-On-The-Hill Co.	1967	415	2	405	S 10	4,230	+6.7	5-11-67	F	20Fm	5-11-67	S	79	C,J
2adc-1	do	1967	454	2	444	S 10	4,228	+7.4	5-11-67	F	20Fm	5-11-67	S	80	C,J
6aaa-4	Morton Salt Co.	1957	1,150	4	835	-	4,212	+18.4	2-24-67	F	34Fm	2-24-67	N	72	C,J
9ddc-1	Unknown	-	400	2	-	-	4,220	(+)	4- 3-67	F	-	-	U	57	C
23ddb-7	A. H. King	1966	103	6	103	P 88-101	4,242	(+)	10-27-67	F	54Fm	10-27-67	I	-	C
35ada-2	W. R. Bailey	1929	64	2	64	O	4,330.2	(+)	10-11-67	F	10Fe	10-11-67	I	57	C
(C-1-3)															
15bda-2	Kennecott Copper Corp.	1962	699	20	699	P460-695	4,221	(-)	4-17-67	T	3,400Pr	4-15-67	N	71	C
15bdc-3	do	1962	536	20	536	P374-535	4,224	(-)	2-23-67	T	2,000Pe	2-23-67	N	65	C
15cbb-2	do	1966	575	20	575	P350-570	4,224	(-)	4-17-67	T	3,000Pr	4-15-67	N	79	C,J
15dca-1	do	1937	437	20	437	P226-418	4,229	(-)	2-23-67	T	2,500Pr	2-23-67	N	60	C
17dcb-1	do	1955	502	20	502	P150-480	4,220	(-)	-	T	-	-	N	-	C
(C-2-1)															
1abc-1	B. T. Helm	1941	256	2	256	O	4,254.6	(+)	8-28-67	P	3Fe	6-28-67	H	61	C
3cdd-4	Taylorsville-Bennion Improvement Dist.	1967	641	20	641	P368-633	4,296	-25.1	4-14-67	T	1,530Pr	2- 4-67	P	66	C,D,J
8cdd-1	Granger-Hunter Improvement Dist.	1960	420	10	350	P182-(?)	4,492	-92	2- -67	T	-	-	P	-	D
11bad-1	G. Boam	1952	273	3	-	-	4,262	(-)	10-11-67	J	-	-	I	59	C
12ada-1	American Smelting, Refining and Mining Co.	1900	82	2	-	-	4,274.0	(+)	6-28-67	F	10Fe	6-28-67	U	53	C
12ccd-1	City of Murray	1960	468	16	468	P125-(?)	4,291	-22	5-13-67	T	1,355Pm	5-13-60	P	-	D
23aaa-2	Church of Jesus Christ of Latter-day Saints	1956	183	8	183	P150-180	4,325	-51	12- -56	S	-	-	N	58	C
27ddc-1	R. Nogales	1911	235	2	235	O	4,349.8	(+)	10-16-67	F	4Fe	10-16-67	I	57	C
32dca-1	R. H. Goff	1933	162	3	162	O	4,520.5	(-)	6-27-67	P	-	-	H	55	C
(C-3-1)															
1ada-1	V. A. Heaps	1952	168	3	168	P164-168	4,402	(-)	2- 8-67	J	-	-	H	50	C

Table 5.--Records of selected wells--Continued

Well number	Owner or user	Year drilled	Depth of well (feet)	Casing: Diameter (inches)	Casing: Depth (feet)	Casing: Finish	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield: Rate (gpm)	Yield: Date of measurement	Use of water in 1967	Temperature (°F)	Other data available
(C-3-1)															
1dcc-3	D. Bagley	1957	160	4	-	-	4,435	(-)	2- 8-67	J	-	-	H	49	C
5dcb-1	S. G. Dimond	1961	373	12	373	P320-373	4,600	-171.4	4-17-67	T	1,425Pm	8- 8-67	I	60	C,D
7cbb-1	Westland Hills Country Club	1967	462	16	462	P215-460	4,806.7	-172.4	9-11-67	T	225Pm	4-28-67	I	58	C,J
13bab-1	D. H. Greenwood	1895	114	2	-	-	4,381.9	(-)	2- 8-67	P	-	-	H	66	C
24bcc-1	R. Brklacich	1885	250	2	-	-	4,396.5	(-)	2- 8-67	J	-	-	H	47	C
(C-4-1)															
5ccb-2	T. A. Gardiner	1958	158	4	150	P147-150	4,660.2	(-)	9-27-67	J	-	-	H	62	C
6dad-1	G. Gardiner	1958	168	4	150	P147-150	4,660	(-)	9-27-67	J	-	-	H	62	C
10bdd-1	M. Lewis	1920	50	60	-	W	4,426	(-)	4- 3-67	J	-	-	H	46	C
11ccc-1	L. Jackson	1954	132	6	132	P105-132	4,460	(-)	4- 3-67	J	-	-	H	57	C
13bbc-S1	E. Hansen and W. D. Stewart	-	-	-	-	-	4,590	-	-	-	2Fm	7-26-67	H	59	C
27dcd-S1	Utah National Guard	-	-	-	-	-	4,800	-	-	-	5Fc	10-16-67	P	53	C
(D-1-1)															
6bbb-1	Zions Cooperative Mercantile Institute	1937	440	8	440	P110-415	4,330	(-)	7-18-67	T	450Pc	7-18-67	A	58	C
8aab-S1	Tarpy Hollow Spring	-	-	-	-	-	4,470	-	-	-	35Fm	9-12-67	I	54	C
19bac-4	M. Schmidt	1915	105	2	-	-	4,260.0	(+)	6-29-67	F	-	-	H	78	C
20aaa-2	Hygeia Ice Co.	1956	297	10	297	P 73-296	4,385	(-)	6-29-67	T	370Pc	6-29-67	N	58	C
20bab-1	Snelgrove Ice Cream Co.	1958	482	6	482	P468-475	4,328	(-)	6-29-67	T	100Pc	6-29-67	N	64	C
20cbc-1	W. Durtschi	1935	285	3	285	O	4,290.6	(+)	9-15-67	F	3Fm	9-15-67	H	59	C
28cbb-2	Coombs Enterprises Inc.	1954	363	6	363	P252-354	4,415	(-)	9-15-67	S	-	-	A	61	C
30bbc-9	R. Gomez	1932	285	2	285	O	4,250.1	(+)	9-19-67	F	6Fm	9-19-67	I	56	C
31dcc-2	Red Cedar Planning Mill	1906	400	3	-	-	4,270.7	(+)	6-29-67	F	-	-	S	52	C
32dcd-13	R. S. Lawrence	1952	190	2	190	O	4,310	-	-	C	-	-	H	56	C
(D-2-1)															
3acd-1	Holliday Water Co.	1967	750	16	750	P365-737	4,522	-176.0	11-20-67	T	3,250Pr	8- 2-67	P	-	D,J
4adc-1	do	1961	515	16	515	P160-488	4,425	-74	9-25-61	T	2,700Pr	9-25-61	P	-	D
4bcc-1	D. O. Wright	1954	650	6	650	P632-645	4,310	-	-	S	-	-	H	60	C
6dbb-12	C. E. Bloomquist	1898	85	2	85	O	4,268.9	(+)	6-27-67	F	5Fm	6-27-67	H	55	C
7dcd-7	H. A. Towers	1950	485	3	485	O	4,335	-	-	J	-	-	I	68	C
7ddb-5	City of Murray	1961	496	16	496	P100-490	4,298	(+)	6- 1-61	T	2,550Pr	6- 1-61	P	-	D
8aaa-1	E. W. Meyers	1939	390	3	390	O	4,310	(+)	6-28-67	C	-	-	H	56	C
8daa-4	J. Ushio	1955	126	4	126	O	4,350	(+)	7-13-67	F	2Fm	7-13-67	H	54	C
9cdb-1	K. Bowden	1902	125	3	125	O	4,347	(+)	6-28-67	F	-	-	S	59	C
15cac-1	Shangri La Inc.	1954	171	8	171	P105-171	4,450	-75	1- 9-54	I	300Pm	1- 9-54	P	53	C
16bdc-1	Olympus Syndicate Inc.	1962	650	12	650	P115-620	4,360	-9	6-19-62	T	1,200Pr	6- -62	I	58	C
17bcc-7	M. L. Crabtree	1912	100	3	100	O	4,336.0	(+)	6-28-67	F	-	-	H	54	C
22cac-2	R. Whitmore	1949	193	12	193	P138-192	4,520	(-)	7-13-67	T	-	-	N	52	C
(D-2-2)															
20cdd-S1	U.S. Forest Service	-	-	-	-	-	5,540	-	-	-	5Fm	4-18-67	U	44	C
(D-3-1)															
4bbb-1	Salt Lake County Water Conservancy Dist.	1967	904	20	904	P406-840	4,670	-345	7-25-67	N	2,500Pr	8- 1-67	U	55	D,J
32aaa-2	R. Carlquist and S. Fitzgerald	1967	402	10	402	P253-399	4,521	-74	10-16-67	N	1,620Pm	10-16-67	U	53	D,J

Table 6.--Water levels in selected observation wells

Water levels.--Water levels in feet below land-surface datum are designated by a minus (-) sign immediately before the first entry in each column in the table, those above land-surface datum are designated similarly by a plus (+) sign.

Records available.--Utah Basic-Data Releases 11-13, contain records for previous years, including records for some wells not listed herein. Many of these records are published also in the following Water-Supply Papers:

Year	Number	Year	Number	Year	Number	Year	Number	Year	Number	Year	Number	Year	Number
1936	817	1940	910	1943	990	1946	1075	1949	1029	1951	1195	1954	1325
1937	840	1941	940	1944	1020	1947	1100	1949	1160	1952	1225	1955	1408
1938	845	1942	948	1945	1027	1948	1130	1950	1169	1953	1269	1956-60	1760
1939	886												

Remarks.--Records of these wells given in table 5 or in Utah Basic-Data Releases 11-13.

Cooperation.--Dagger (†), measured by the Salt Lake City Water Department; all other measurements were made by the U.S. Geological Survey.

Day column.--Eom, end of month.

Water-level column.--B, well pumped or flowed recently; C, nearby well being pumped; E, estimated; H, tape measurement.

(A-1-1)31cca-1. Records available 1934-67

Jan. 31, 1967	-130.8†	May 23, 1967	-126.1†	Sept. 5, 1967	-136.5
Feb. 21	129.7	June 20	124.7†	26	137.3†
Mar. 27	128.1†	July 25	126.8†	Oct. 28	133.5†
Apr. 25	129.3†	Aug. 22	142.8†	Nov. 21	129.9†

(A-1-2)33cba-3. Records available 1965-67

Jan. 30, 1967	-24.0	May 31, 1967	-22.6	Sept. 28, 1967	-24.5
Feb. 23	23.7	June 29	23.2	Oct. 30	24.0
Mar. 31	22.9	July 28	23.9	Nov. 29	23.8
Apr. 27	22.3	Sept. 6	25.2	Dec. 29	23.6

(B-1-1)33cda-1. Records available 1935-67

Jan. 30, 1967	+9.4†	May 29, 1967	+9.8†	Oct. 2, 1967	+9.1†
Feb. 27	9.3†	June 26	9.7†	Oct. 31	9.2†
Mar. 27	8.4†	July 31	9.1†	Nov. 27	9.5†
May 1	9.8†	Aug. 27	8.7†	Dec. 26	9.9†

(B-1-2)7ccc-1. Records available 1965-67

Jan. 31, 1967	B+9.4	June 29, 1967	B+9.4	Sept. 29, 1967	B+9.6
Feb. 17	B9.5	July 29	B9.5	Oct. 30	B9.3
Apr. 28	B9.6	Sept. 7	B9.6	Dec. 5	B9.2
June 2	B9.4				

(B-1-2)36baa-1. Records available 1931-33, 1941-53, 1955-67

Jan. 31, 1967	B+10.1	June 29, 1967	B+9.3	Oct. 30, 1967	B+9.1
Feb. 17	B10.0	July 29	B9.0	Dec. 5	B9.6
Apr. 28	B9.9	Sept. 5	B9.2	29	B9.9
June 2	B9.6	Sept. 29	B9.2		

(C-1-1)9aab-1. Records available 1956-61, 1964-67

Feb. 23, 1967	B+5.4	Sept. 15, 1967	B+4.7

(C-1-1)15bdd-11. Highest water level on date, in feet above land surface from recorder graph. Records available 1956-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	10.3	9.7	9.7	10.1	10.7	10.1	9.5	9.0	8.4	E8.8	9.2	E10.2
10	10.6	10.0	9.8	10.6	10.4	9.9	9.8	8.9	8.4	E9.0	E9.3	E10.1
15	9.8	9.9	9.9	10.4	10.3	9.9	9.4	9.0	8.3	E9.1	E9.5	9.7
20	9.9	9.8	9.4	10.0	10.2	10.0	9.6	8.6	E8.4	9.3	E9.6	E10.0
25	10.1	9.6	9.8	10.6	9.7	9.7	9.5	8.3	E8.6	E9.3	E9.8	E10.1
Eom	10.1	9.8	10.0	9.5	10.3	9.6	9.2	8.3	E8.7	9.8	E9.9	E10.2

(C-1-1)18ddd-2. Records available 1957-67

Jan. 30, 1967	B+6.2	June 29, 1967	B+4.0	Oct. 30, 1967	B+4.2
Feb. 20	B6.0	July 31,	B3.5	Dec. 5	B6.5
Apr. 28	B5.3	Sept. 8	B3.6	29	B6.2
June 2	B3.9	29	B4.2		

(C-1-1)26ada-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1966-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	3.9	3.1	3.3	2.8	3.3	3.2	E3.6	3.6	4.1	4.0	4.3	4.0
10	E4.0	3.1	3.5	3.0	3.2	E3.3	E3.6	3.6	4.2	4.1	4.2	3.9
15	E3.8	3.3	3.6	3.2	3.1	E3.4	E3.7	3.7	4.1	4.1	4.2	3.9
20	E3.5	E3.4	3.5	3.4	3.3	E3.4	E3.7	3.8	4.2	4.1	4.1	4.0
25	E3.2	E3.2	3.4	E3.4	3.3	E3.5	E3.8	3.7	4.0	4.2	4.1	4.0
Eom	2.9	H3.1	3.0	3.4	3.1	E3.6	3.6	4.0	4.0	H4.2	4.0	3.6

(C-1-1)33abb-1. Records available 1931, 1935-67

Jan. 30, 1967	B+11.1	June 3, 1967	B+3.9	Sept. 29, 1967	B+9.8
Feb. 20	B11.2	24	B4.0	Oct. 30	10.6
Mar. 20	B9.5	July 31	8.2	Dec. 7	11.6
Apr. 28	B8.2	Sept. 11	8.7	29	11.3

(C-1-1)35aaa-4. Records available 1931-35, 1956-67

Jan. 3, 1967	+7.5†	May 31, 1967	+8.0	Sept. 28, 1967	+4.9
31	8.0	June 26	7.7†	Oct. 2	5.0†
Feb. 28	B8.2†	30	6.4†	31	6.8
Mar. 30	8.0	July 31	3.6	Nov. 27	7.4†
Apr. 27	9.2	Aug. 28	3.1†	Dec. 13	B8.2
May 1	9.1†	Sept. 7	3.6	26	8.0†

(C-1-2)1ccc-1. Records available 1965-67

Jan. 30, 1967	B+2.1	June 29, 1967	B+1.3	Oct. 30, 1967	B+1.6
Feb. 16	B2.1	July 31	B1.1	Dec. 5	B1.9
Apr. 28	B1.7	Sept. 8	B1.3	29	B1.9
June 2	B1.3	29	B1.5		

(C-1-2)22bdd-4. Records available 1956-61, 1963-67

Jan. 30, 1967	B+5.7	June 29, 1967	+5.2	Oct. 30, 1967	+6.4
Feb. 20	B5.6	July 31	5.4	Dec. 7	6.2
Apr. 28	4.7	Sept. 10	6.4	29	6.2
June 2	4.8	29	6.6		

(C-1-2)22cbb-1. Records available 1931-32, 1934-67

Jan. 30, 1967	+10.1	June 29, 1967	B+9.1	Sept. 29, 1967	B+12.9
Feb. 20	B10.0	July 31	B8.6	Oct. 30	B12.0
Apr. 28	8.1	Sept. 10	B12.5	Dec. 29	B11.0
June 2	B8.8				

(C-2-1)9ccc-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1966-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	59.6	60.5	61.1	61.5	61.5	60.4	59.6	58.5	57.3	56.4	56.3	E56.6
10	59.8	60.6	61.2	61.5	61.3	60.2	59.4	58.3	57.1	56.3	56.3	E56.7
15	59.8	60.7	61.4	61.5	61.2	60.1	59.2	58.0	56.9	56.3	E56.3	E56.8
20	59.8	H61.0	E61.5	61.6	E61.1	59.9	59.0	57.8	56.8	56.3	E56.4	E56.8
25	59.8	61.0	E61.5	61.6	60.9	59.8	58.8	57.7	56.6	56.2	E56.5	E56.9
Eom	60.3	61.1	61.4	61.5	60.5	59.7	58.7	57.4	56.5	H56.3	E56.5	57.0

(C-2-1)12bac-1. Records available 1931-67

Jan. 3, 1967	+4.5†	May 1, 1967	+5.1†	Sept. 28, 1967	+3.2
30	4.8†	29	3.3†	Oct. 2	3.1†
31	5.2	31	4.9	23	3.7†
Feb. 27	5.1†	June 26	5.1†	31	3.9
28	B5.2	30	3.0	Nov. 27	3.8†
Mar. 27	4.9†	July 31	2.0	Dec. 13	B4.4
30	5.1	Aug. 28	2.0†	26	3.7†
Apr. 27	5.0	Sept. 7	2.4		

(C-2-1)24adc-1. Records available 1931-67

Jan. 30, 1967	-30.2	May 31, 1967	-31.4	Sept. 7, 1967	-35.1
Feb. 28	30.3	June 30	31.6	28	31.6
Mar. 31	30.6	July 31	35.9	Oct. 31	30.5
Apr. 27	31.2				

(C-2-1)24bcd-1. Records available 1965-67

Jan. 31, 1967	-20.8	Apr. 27, 1967	-21.0	July 31, 1967	-22.4
Feb. 23	20.8	May 31	21.4	Sept. 7	21.1
Mar. 31	21.0	June 30	22.4		

(C-2-2)9bdb-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1966-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	E91.8	91.6	E91.4	E90.8	90.8	90.5	E90.4	90.0	89.9	89.8	89.8	89.6
10	E91.7	91.6	E91.4	E90.8	90.7	90.4	90.3	90.1	89.8	89.8	89.7	89.5
15	E91.6	91.5	91.3	E90.8	90.8	90.4	90.3	90.0	89.8	90.0	89.6	89.3
20	91.6	91.6	91.2	E90.8	90.8	90.4	90.2	90.0	89.9	89.8	E89.6	89.5
25	91.7	91.4	91.1	E90.8	90.6	90.4	90.2	90.0	89.8	89.8	E89.5	89.6
Eom	91.6	91.5	90.8	E90.8	90.4	90.4	90.1	89.9	89.7	89.8	E89.7	89.5

(C-3-1)1cab-2. Highest water level on date, in feet below land surface from recorder graph. Records available 1966-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	43.2	42.9	42.9	43.0	43.3	43.5	44.8	45.5	45.5	E44.0	43.3	43.0
10	43.4	42.9	43.0	43.1	43.5	43.4	44.7	46.0	45.0	E43.9	43.2	43.1
15	43.2	43.0	43.2	43.1	43.1	43.2	45.6	46.2	H44.7	H43.8	43.2	43.1
20	E43.1	43.0	43.1	43.2	43.6	43.4	45.1	46.2	E44.4	E43.7	43.1	43.0
25	43.1	42.9	43.2	43.3	43.9	43.4	45.7	46.4	H44.1	E43.5	43.0	43.1
Eom	43.0	H42.9	43.1	43.3	H43.2	44.5	46.0	45.6	E44.0	H43.3	43.0	43.0

(C-3-1)6cac-1. Records available 1964-67

Jan. 30, 1967	-76.6	June 30, 1967	-76.9	Sept. 29, 1967	-77.0
Feb. 20	76.6	July 31	76.9	Oct. 31	77.1
Apr. 28	76.8	Sept. 11	77.0	Dec. 29	77.0
June 3	76.8				

(C-3-1)12ccb-1. Records available 1931-35, 1955-67

Jan. 31, 1967	B+25.8	Apr. 28, 1967	B+25.1	July 28, 1967	B+24.3
Feb. 28	B25.9	May 31	25.9	Sept. 8	B24.7
Mar. 30	B25.7	June 30	B24.7	Oct. 31	B26.0

Table 6.--Water levels in selected observation wells--Continued

(C-3-1)15dda-1. Records available 1955-67

Jan. 30, 1967	+16.4	June 30, 1967	+14.3	Sept. 29, 1967	+19.5
Feb. 23	16.1	July 31	15.6	Oct. 31	19.3
Apr. 28	13.8	Sept. 11	18.1	Dec. 29	19.1
June 6	14.1				

(C-3-1)20ddb-1. Records available 1963-67

Feb. 22, 1967	-141.0	Sept. 11, 1967	-137.6

(C-3-1)27cdd-1. Records available 1931-67

Sept. 14, 1967	-1.9		

(C-3-1)28bac-1. Records available 1963-67

Feb. 21, 1967	-93.1		

(C-3-1)29bbc-1. Records available 1964-67

Feb. 21, 1967	-49.1	Sept. 11, 1967	-47.2

(C-3-1)30aba-1. Records available 1956-67

Jan. 30, 1967	-80.4	June 30, 1967	-74.6	Sept. 29, 1967	-73.1
Feb. 21	80.6	July 31	72.8	Oct. 31	74.8
Apr. 28	80.6	Sept. 11	72.5	Dec. 29	77.7
June 3	77.0				

(C-3-1)30acd-1. Records available 1957-67

Jan. 30, 1967	-30.8	June 30, 1967	-24.0	Sept. 29, 1967	-25.2
Feb. 22	30.4	July 31	21.6	Oct. 31	27.6
Apr. 28	28.6	Sept. 11	24.8	Dec. 29	29.5
June 3	24.8				

(C-3-1)31cbb-1. Records available 1959, 1964-67

Feb. 22, 1967	-104.3	Sept. 14, 1967	-112.8

(C-3-1)31ccb-1. Records available 1962, 1964-67

Feb. 22, 1967	-108.4	Sept. 14, 1967	-122.2

(C-3-1)31dcd-3. Records available 1962-67

Sept. 14, 1967	-122.9		

(C-3-1)32cad-2. Records available 1931-35, 1955-67

Feb. 21, 1967	-138.4	Sept. 14, 1967	-127.9

(C-3-1)32cdc-1. Records available 1964-67

Feb. 21, 1967	-147.1	Sept. 14, 1967	-151.4

(C-3-1)32dcc-1. Records available 1964-67

Feb. 21, 1967	-142.7	Sept. 11, 1967	-134.3

(C-3-1)33aab-1. Records available 1962-67

Feb. 22, 1967	-65.8	Sept. 14, 1967	-55.6

(C-3-2)4adb-1. Records available 1958-67

Jan. 30, 1967	-153.9	June 30, 1967	-153.9	Sept. 29, 1967	-154.2
Feb. 21	153.9	July 31	153.9	Oct. 31	154.4
Apr. 28	153.9	Sept. 10	154.2	Dec. 29	154.4
June 3	153.9				

(C-3-2)28dbb-1. Records available 1960-67

Jan. 30, 1967	-140.6	June 30, 1967	-140.5	Sept. 29, 1967	-140.8
Feb. 21	140.9	July 31	140.4	Oct. 31	141.1
Apr. 28	140.9	Sept. 1	140.5	Dec. 29	141.5
June 3	140.8				

(C-3-2)33cac-1. Records available 1962, 1964-67

Jan. 30, 1967	-26.2	June 30, 1967	-26.8	Sept. 29, 1967	-31.5
Feb. 22	26.8	July 31	26.3	Oct. 31	30.6
Apr. 28	24.5	Sept. 14	28.3	Dec. 29	28.3
June 3	23.6				

(C-4-1)5acb-1. Records available 1964-67

Feb. 21, 1967	-150.8	Sept. 11, 1967	-145.4

(C-4-1)14abd-1. Records available 1964-67

Feb. 27, 1967	-81.7	May 29, 1967	-85.3	Sept. 6, 1967	-74.0
Mar. 31	83.0	June 29	86.3	29	70.2
Apr. 28	83.7	July 31	87.3	Dec. 29	70.0

(C-4-1)22dbd-1. Records available 1964-67

Feb. 23, 1967	-77.0	Sept. 14, 1967	-77.5

(C-4-1)23dbd-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1964-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	48.1	48.2	48.4	48.6	48.1	47.1	46.6	46.2	E46.1	46.4	46.9	E47.3
10	48.1	E48.3	E48.5	E48.6	47.4	47.2	E46.5	46.2	46.0	46.4	47.0	E47.3
15	48.2	E48.3	E48.5	E48.6	47.4	47.2	E46.5	46.2	46.1	46.5	47.0	E47.4
20	48.2	E48.3	E48.6	E48.7	47.1	47.4	E46.4	46.1	46.2	46.6	E47.1	E47.5
25	48.2	E48.4	E48.6	E48.7	46.9	47.5	E46.4	46.0	46.2	46.7	E47.2	E47.5
Eom	48.2	48.4	H48.6	48.6	46.9	47.8	H46.3	46.0	E46.3	46.8	E47.2	E47.6

(D-1-1)1add-1. Records available 1965-67

Jan. 30, 1967	-31.3	May 31, 1967	-25.8	Sept. 28, 1967	-33.1
Feb. 23	31.2	June 29	30.0	Oct. 30	33.0
Mar. 31	28.6	July 28	32.1	Nov. 29	33.3
Apr. 27	28.0	Sept. 6	33.8	Dec. 29	32.9

(D-1-1)4add-1. Records available 1965-67

Feb. 23, 1967	-336.6	Mar. 31, 1967	-332.6	Apr. 27, 1967	-333.2

(D-1-1)4cac-1. Records available 1934-67

Feb. 7, 1967	-203.3†	Mar. 28, 1967	-198.7†	May 23, 1967	-198.5†
Mar. 21	200.2†	Apr. 25	198.3†	June 20	199.3†

(D-1-1)4cac-1 - Continued

July 25, 1967	-198.7†	Sept. 26, 1967	-208.9†	Oct. 24, 1967	-210.6†
Aug. 22	204.2†				

(D-1-1)5aaa-1. Records available 1934-67

Feb. 7, 1967	-119.8†	May 23, 1967	-117.9†	Sept. 5, 1967	-118.8
21	119.4	June 20	117.7†	26	120.9†
Mar. 28	115.6†	July 25	117.7†	Oct. 24	122.4†
Apr. 25	117.5†	Aug. 22	118.2†		

(D-1-1)7abd-6. Records available 1931-32, 1935-67

Jan. 30, 1967	B+8.0	May 31, 1967	B+8.1	Sept. 28, 1967	B+7.5
Feb. 23	B8.1	June 29	B7.9	Oct. 31	B8.3
Mar. 31	B8.3	July 28	B7.4	Nov. 29	B8.4
Apr. 27	B8.3	Sept. 7	B6.8	Dec. 29	B7.8

(D-1-1)10cac-1. Records available 1934-67

Jan. 30, 1967	-145.6	May 23, 1967	-146.2†	Sept. 28, 1967	-147.9
Feb. 6	145.8†	June 20	146.2†	Oct. 24	146.6†
23	145.9	29	146.7	30	147.7
Mar. 20	146.2†	July 28	146.8	Nov. 20	146.2
30	146.3	Aug. 22	145.6†	29	146.3
Apr. 27	146.4	Sept. 6	147.1	Dec. 29	146.3

(D-1-1)19cdb-17. Records available 1956-67

Jan. 30, 1967	+11.8	May 31, 1967	+12.7	Sept. 28, 1967	+10.1
Feb. 23	B12.7	June 29	10.9	Oct. 31	11.7
Mar. 31	13.4	July 28	8.9	Nov. 29	B12.5
Apr. 27	13.8	Sept. 6	B8.9	Dec. 29	12.7

(D-1-1)30abb-4. Highest water level on date, in feet below land surface from recorder graph. Records available 1965-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	E4.2	E4.0	3.2	2.6	2.6	3.6	6.2	8.5	9.0	5.6	5.5	E4.3
10	E4.2	3.7	3.0	2.6	2.6	E2.5	E6.7	8.9	8.6	6.6	5.3	E4.0
15	E4.1	E3.4	3.0	E2.6	2.6	E .5	E7.3	9.3	8.1	E6.4	5.0	E3.9
20	4.1	E3.4	E3.0	2.6	E2.4	.6	7.2	E9.3	8.1	6.3	4.9	E3.9
25	4.0	3.3	3.0	2.6	E3.3	E2.6	E5.2	E9.1	7.8	E6.3	E4.7	E3.9
Eom	3.9	E3.2	2.7	2.5	E3.5	5.1	E7.8	9.1	7.7	E5.7	4.4	E3.9

(D-1-1)30aca-23. Records available 1956-67

Jan. 30, 1967	-7.5	May 31, 1967	-8.9	Sept. 28, 1967	-11.6
Feb. 27	7.5	June 29	9.4	Oct. 30	9.6
Mar. 30	7.2	July 28	10.3	Dec. 12	8.5
Apr. 27	6.8	Sept. 6	12.8	29	4.3

(D-1-1)30cda-10. Records available 1956-57, 1964-67

Jan. 30, 1967	-4.9	Apr. 27, 1967	-4.0	Oct. 30, 1967	-8.2
Feb. 27	4.6	May 31	5.6	Dec. 12	6.9
Mar. 31	4.0	Sept. 29	11.6	29	5.1
Apr. 17	4.1				

(D-2-1)3ada-2. Records available 1964-67

Feb. 21, 1967	-241.6		

(D-2-1)4dbd-4. Records available 1931-67

May 31, 1967	-22.4	Sept. 6, 1967	-11.4	Oct. 30, 1967	-19.8
June 29	13.5	28	15.1	Dec. 12	23.2
July 28	14.6				

(D-2-1)5aaa-1. Records available 1931-67

Jan. 31, 1967	-11.8†	May 1, 1967	-8.7†	Aug. 22, 1967	-21.5†
Feb. 21	11.7†	23	12.4†	Oct. 21	13.2†
Mar. 21	11.8†	June 27	10.8†	Nov. 21	12.3†

(D-2-1)5aba-2. Records available 1964-67

Jan. 30, 1967	+8.3	May 31, 1967	+10.3	Sept. 28, 1967	+4.6
Feb. 27	9.0	June 29	7.9	Oct. 30	6.9
Mar. 31	10.7	July 28	1.8	Dec. 29	9.4
Apr. 27	11.0	Sept. 6	1.3		

(D-2-1)7cbd-4. Records available 1957-60, 1963-67

Jan. 30, 1967	B+12.2	May 31, 1967	B+12.1	July 31, 1967	B+10.3
Feb. 28	B12.3	June 30	B11.6	Sept. 8	B10.9
Mar. 31	B12.6				

(D-2-1)7dda-1. Records available 1956-67

Feb. 28, 1967	+18.3	Apr. 27, 1967	+12.6	May 31, 1967	+7.9
Mar. 30	18.1				

(D-2-1)8ccd-19. Records available 1931-52, 1956-67

Feb. 20, 1967	+26.1†	Sept. 25, 1967	+13.3†	Nov. 20, 1967	+21.2†
Mar. 20	23.8†	Oct. 16	18.4†	Dec. 26	25.2†

(D-2-1)15acc-1. Highest water level on date, in feet below land surface from recorder graph. Recorder operated by Salt Lake City Water Department. Records available 1934-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	88.3	88.9	88.8	88.6	88.4	86.4	82.7	84.3	86.7	86.9	86.8	86.6
10	88.7	88.9	88.8	88.5	88.2	85.8	82.7	84.8	86.8	87.0	86.6	86.9
15	88.6	88.9	88.9	88.7	88.0	85.3	82.7	85.0	86.8	87.2	86.7	86.8
20	88.5	88.9	88.8	88.6	87.9	84.3	82.8	85.6	86.9	87.3	86.6	87.0
25	88.8	88.9	89.0	88.5	87.6	83.6	83.2	86.1	87.0	87.0	86.7	86.9
Eom	88.8	89.0	88.9	88.6	87.2	82.9	84.0	86.5	87.0	86.8	86.6	87.1

(D-2-1)16dbc-1. Records available 1962-67

Jan. 4, 1967	-42.2†	Apr. 26, 1967	-41.6†	Nov. 2, 1967	-43.7†
31	41.7†	May 28	45.0†	21	42.7†
Feb. 21	41.6	June 20	40.4†	Dec. 19	41.9†
Mar. 28	40.9†	Oct. 19	45.1†		

Table 6.--Water levels in selected observation wells--Continued

(D-2-1)21dbc-1. Records available 1961-67

Jan. 31, 1967	-87.4†	Mar. 21, 1967	-87.1†	Oct. 10, 1967	-92.7†
Feb. 21	87.1	Apr. 25	87.5†	Dec. 5	93.3†
28	87.0†	May 30	91.1†		

(D-2-1)28abc-2. Records available 1955-67

Jan. 30, 1967	-163.2	May 31, 1967	-160.9	Sept. 29, 1967	-166.4
Feb. 27	166.0	June 29	161.4	Oct. 30	167.9
Mar. 31	164.7	July 28	165.9	Dec. 12	162.4
Apr. 27	161.3	Sept. 6	167.2	29	162.6

(D-2-1)28ccc-3. Records available 1956, 1958, 1964-67

Feb. 21, 1967	-198.2				

(D-2-1)28ddb-1. Records available 1934-67

Jan. 4, 1967	-11.8†	Apr. 26, 1967	-12.6†	Sept. 5, 1967	-9.4†
31	12.4†	May 30	8.2†	Oct. 10	9.4†
Feb. 21	12.3†	June 20	4.3†	Nov. 1	8.7†
Mar. 28	12.2†	July 31	7.2†	21	10.6†

(D-2-1)32bbb-1. Records available 1955-67

Feb. 27, 1967	-102.7	June 29, 1967	-103.7	Oct. 31, 1967	-105.0
Mar. 31	103.4	Sept. 11	104.9	Dec. 12	101.9

(D-2-1)33add-2. Records available 1964-67

Jan. 30, 1967	-260.8	June 29, 1967	C-260.9	Oct. 31	C-264.4
Feb. 27	C261.3	July 28	C263.2	Dec. 12	262.5
Apr. 27	C260.1	Sept. 6	C262.5	29	C261.8
May 31	260.2	29	262.4		

(D-3-1)2ccc-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1956-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	538.2	537.2	536.8	536.8	537.4	539.2	540.5	544.0	545.7	542.4	539.6	537.2
10	538.1	537.0	536.7	536.9	537.4	539.3	541.0	544.4	545.2	541.9	539.1	537.3
15	537.5	537.0	537.1	536.9	538.0	539.4	541.8	544.6	544.6	541.6	538.7	536.8
20	537.2	537.2	537.1	537.2	538.3	539.5	542.2	544.9	544.3	541.0	538.2	536.5

(D-3-1)2ccc-1 - Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
25	537.1	536.8	537.0	537.3	538.7	539.6	542.8	545.1	543.7	540.5	537.8	536.7
Eom	537.1	537.0	536.8	537.4	538.7	539.8	543.6	545.4	543.0	540.1	537.4	536.4

(D-3-1)17bcc-1. Records available 1955-67

Jan. 31, 1967	-135.4	May 31, 1967	-135.4	Sept. 29, 1967	-135.0
Feb. 27	136.0	June 29	136.0	Oct. 30	136.3
Mar. 31	135.3	July 28	135.8	Dec. 12	133.4
Apr. 27	135.4	Sept. 7	135.4	29	129.8

(D-3-1)18cba-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1964-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	71.9	71.8	71.7	72.0	72.2	72.4	73.7	74.2	74.0	72.2	71.4	71.2
10	72.1	71.7	71.8	72.1	72.2	72.3	73.4	74.4	73.4	71.8	71.4	71.3
15	71.9	71.8	72.0	72.1	72.2	72.2	74.1	74.5	73.1	71.9	71.3	71.3
20	71.8	71.9	72.0	72.1	72.2	72.3	73.8	74.5	72.9	72.1	71.3	71.2
25	71.8	71.7	72.1	72.1	72.2	72.3	74.1	74.7	72.6	71.8	71.2	71.5
Eom	71.8	71.8	72.0	72.2	H72.3	72.9	74.5	74.0	72.4	H71.6	71.1	71.3

(D-3-1)29cbc-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1964-67

1967

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	55.4	56.0	56.2	56.7	57.4	-	-	56.0	55.2	54.2	54.1	53.9
10	56.0	56.0	56.3	56.8	57.3	-	-	55.9	54.9	54.2	54.0	54.2
15	55.7	55.9	56.6	56.9	57.6	-	-	55.7	54.8	54.4	54.0	54.1
20	55.6	56.2	56.6	57.2	57.5	-	-	55.5	54.7	54.3	53.9	53.9
25	55.6	56.2	56.8	57.3	57.4	-	-	55.7	54.5	54.3	53.9	54.4
Eom	H55.8	56.4	56.6	57.4	57.2	-	56.2	55.3	54.3	54.3	53.8	54.3

(D-4-1)6bbc-1. Records available 1963-67

Jan. 31, 1967	-52.7	Apr. 28, 1967	-53.5	Sept. 6, 1967	-51.8
Feb. 28	53.3	May 29	53.9	29	50.9
Mar. 31	53.8	June 30	54.5	Oct. 31	51.1

Table 7.--Selected drillers' logs of wells

Altitude of land surface at the well.--Altitudes interpolated from topographic maps are given in feet.

Thickness.--Given in feet.

Depth.--Given in feet below land surface.

Remarks.--Records of these wells given in table 5.

	Thickness	Depth
(C-1-1)2bac-2. Log by Layne Texas Co. Alt. 4,222 ft.		
Soil	4	4
Sand and lenses of shale	121	125
Shale and lenses of sand	24	149
Sand and lenses of shale	26	175
Shale	9	184
Sand	13	197
Shale and sandy shale	33	230
Sand, coarse	34	264
Shale	15	279
Sand and shale, in lenses	31	310
Sand, coarse	26	336
Shale	15	351
Sand, coarse	15	366
Sand and shale, in lenses	25	391
Sand	14	405
Shale	9	414
Sand and lenses of shale	22	436
Shale	18	454
Sand	11	465
Shale	32	497
Sand and lenses of shale	23	520
Shale and lenses of sandy	56	576
Sand and lenses of shale	20	596
Shale	8	604
Sand and lenses of shale	12	616
Shale	6	622
Sand, coarse	26	648
Shale and lenses of sand	35	683
Sand and lenses of shale	48	731
Shale	69	800
Sand and shale, in lenses	17	817
Shale	18	835
Sand and sandy shale, in lenses	21	856
Sand	9	865
Shale	5	870
(C-1-1)25bdb-1. Log by J. S. Lee and Sons. Alt. 4,236 ft.		
Clay, sandy	25	25
Clay, blue, and sand	57	82
Clay and gravel	12	94
Clay, blue	32	126
Clay and gravel	14	140
Clay, blue	40	180
Clay, brown, and sand	28	208
Clay and gravel, very sandy	8	216
Clay, brown, sandy	31	247
Clay, green	8	255
Clay, brown	15	270
Clay, blue, and gravel	13	283
Clay, blue	25	308
Clay, blue, and sand	34	342
Clay, gray, and sand	6	348
Clay, brown	10	358
Clay, red	6	364
Clay, red, and gravel	61	425
Clay, brown	10	435
Clay, brown, sand and gravel	17	452
Sand and gravel	15	467
Clay, gray	23	490
Clay, green	20	510
Clay, black	35	545
Clay, brown, and gravel	15	560
Clay, sand, and gravel	17	577
Sand, red	8	585
Sand and gravel	6	591
Clay, sandy	4	595
Clay, brown, and gravel	45	640
Sand and gravel	15	655
Clay, brown	25	680
Clay, brown, and gravel	10	690
Clay, gray, sandy	38	728
Clay, brown	14	742
Sand and gravel	21	763
Clay, brown	2	765
Sand and gravel	11	776
Clay, brown	11	787
Sand and gravel	11	798
Clay, blue	27	825
Clay, blue, and gravel	28	853
Clay, blue	42	895
Sand, gray	8	903
Clay, blue	21	924
Clay, gray, sandy	46	970
Clay, brown, and gravel	30	1,000
(C-1-1)27bdd-3. Log by Binning Drilling Co. Alt. 4,243 ft.		
Soil	5	5
Clay, tan	15	20
Clay and sand, black	15	35
(C-1-1)27bdd-3 - Continued		
Sand, black; water	15	50
Clay, black	20	70
Clay and sand, black	10	80
Sand; water	10	90
Clay and sand, gray	10	100
Gravel; water	5	105
Clay, gray, and gravel	12	117
Sand and gravel; water	65	182
Clay, gray, sand and gravel; water	26	208
Sand and gravel; water	22	230
Cobbles; water	5	235
Clay, tan	12	247
Clay, black, and gravel	26	273
Clay, sand, and gravel	12	285
Silt and sand; water	20	305
Clay	16	321
Clay, silt, and sand; water	19	340
Silt and sand; water	8	348
Sand and gravel; water	7	355
Clay and sand	15	370
Clay, tan	10	380
Sand and gravel; water	5	385
Sand	5	390
Sand, fine	8	398
Clay	6	404
Sand and gravel; water	3	407
Clay, sand, and gravel	11	418
Quicksand	12	430
Clay, tan, and gravel	20	450
Clay, tan	26	476
Clay, gray	49	525
Clay	21	546
Clay and silt	15	561
Clay, light-gray	10	571
Clay and gravel	3	574
Clay, light-gray	12	586
Clay	10	596
Sand and gravel; water	4	600
Clay and silt	5	605
Conglomerate, hard	9	614
Clay, gray to white	16	630
Sand and gravel	6	636
Clay, sand, and gravel	6	642
Clay, gray	6	648
Clay, white to gray	20	668
Gravel	3	671
Sand and gravel; water	5	676
Clay, dark-gray	4	680
Clay and sand, gray	10	690
Sand and gravel	20	710
Clay, gray	6	716
(C-2-1)3cdd-4. Log by Intermountain and M. C. Church Drilling Cos. Alt. 4,296 ft.		
Clay	25	25
Gravel	5	30
Clay	30	60
Sand and gravel	43	103
Clay	45	148
Gravel	12	160
Clay	167	327
Gravel	1	328
Clay	40	368
Gravel	5	373
Clay	19	392
Gravel	5	397
Clay	27	424
Gravel	3	427
Clay	22	449
Gravel	26	475
Clay	15	490
Gravel	3	493
Clay	22	515
Gravel	1	516
Clay	1	517
Gravel	31	548
Clay	27	575
Gravel	15	590
Clay	12	602
Gravel	17	619
Clay	11	630
Gravel	3	633
Clay	8	641
(C-2-1)8cdd-1. Log by Robinson Drilling Co. Alt. 4,492 ft.		
Sand and gravel	20	20
Gravel	23	43
Clay, yellow	20	63
Clay and gravel	35	98
(C-2-1)8cdd-1 - Continued		
Gravel and clay	26	124
Clay, yellow	58	182
Clay and gravel	18	200
Gravel	23	223
Clay and gravel	47	270
Clay, with lenses of sand	64	334
Clay, yellow	6	340
Clay, with lenses of sand	20	360
Clay, sandy	7	367
Clay, yellow	53	420
(C-2-1)12ccd-1. Log by Eldon Comer. Alt. 4,291 ft.		
Soil	1	1
Gravel	15	16
Sand; water	9	25
Clay, blue	13	38
Sand and gravel	16	54
Conglomerate	16	70
Gravel	7	77
Clay, blue	7	84
Conglomerate	4	88
Clay, blue	11	99
Sand	12	111
Clay, brown	3	114
Conglomerate	11	125
Gravel	30	155
Sand and gravel	28	183
Gravel	15	198
Clay, tan	17	215
Sand, fine	3	218
Conglomerate	18	236
Gravel	12	248
Clay, tan	22	270
Gravel	10	280
Clay, tan	8	288
Gravel and sand	27	315
Clay, tan	27	342
Gravel and coarse sand	9	351
Clay, tan	13	364
Gravel	71	435
Clay, tan	7	442
Gravel	9	451
Clay, tan	9	460
Gravel	8	468
(C-3-1)5dcb-1. Log by M. Church Drilling Co. Alt. 4,600 ft.		
Soil, gravelly	6	6
Clay, yellow, sandy	49	55
Conglomerate	15	70
Clay, light tan	5	75
Conglomerate	56	131
Clay, light tan	3	134
Conglomerate	30	164
Clay, tan	2	166
Conglomerate	32	198
Sand and gravel; water	8	206
Conglomerate	11	217
Clay and sand	12	229
Conglomerate	7	236
Clay	2	238
Conglomerate	13	251
Sand and gravel; water	19	270
Conglomerate	20	290
Gravel; water	20	310
Sand and gravel; water	10	320
Gravel; water	53	373
(D-2-1)3acd-1. Log by Eldon Comer. Alt. 4,522 ft.		
Soil	2	2
Clay, tan	21	23
Sand, red	6	29
Sand and gravel	34	63
Clay and cemented gravel	21	84
Sand and gravel	13	97
Clay, tan, and gravel	25	122
Clay and sand	11	133
Sand, gravel, and boulders	43	176
Clay, red, and gravel	15	191
Sand and gravel, cemented	45	236
Clay, sand, and gravel	36	272
Clay, red	11	283
Sand, gravel, and cobbles	15	298
Clay, red, sand, and gravel	28	326
Clay, red, and sand	9	335
Clay, sand, and gravel, in lenses	26	361
Sand, gravel, and cobbles	49	410
Clay, tan	74	484

Table 7.--Selected drillers' logs of wells--Continued

	Thickness	Depth
(D-2-1)3acd-1 - Continued		
Clay, silt, and sand	53	537
Sand and gravel; water	4	541
Clay, tan	23	564
Sand, gravel, and cobbles; water	40	604
Clay, tan, and gravel	14	618
Silt, sand, and gravel	11	629
Clay and sand	6	635
Sand and gravel; water	64	699
Clay, silt, sand, and gravel	5	704
Sand and gravel; water	10	714
Clay, tan	4	718
Sand and gravel; water	19	737
Clay and gravel	13	750
(D-2-1)4adc-1. Log by Eldon Comer. Alt. 4,425 ft.		
Clay, tan	5	5
Clay and gravel	18	23
Clay, red	57	80
Sand, brown, fine	7	87
Gravel and cobbles	31	118
Clay, red	27	145
Gravel and cobbles; water	36	181
Clay, red	42	223
Gravel; water	7	230
Clay, red	20	250
Clay, gray	16	266
Gravel and cobbles	9	275
Clay, red	15	290
Clay and gravel, stratified	40	330
Clay, blue-gray	38	368
Clay and gravel, cemented	7	375
Clay, red	5	380
Clay and gravel, cemented	36	416
Clay, red	59	475
Gravel, cemented	3	478
Gravel; water	9	487
Clay, red	28	515
(D-2-1)7ddb-5. Log by Eldon Comer. Alt. 4,298 ft.		
Sand and gravel; water	25	25
Clay	53	78
Sand and gravel; water	91	169
Sand	20	189
Clay, tan, and sand	131	320
Clay, blue, and sand	103	423
Clay and gravel	37	460
Sand and gravel; water	35	495
Clay	1	496
(D-3-1)4bbb-1. Log by J. S. Lee and Sons. Alt. 4,670 ft.		
Sand	96	96
Clay and silt	51	147
Sand, coarse	17	164
Clay, blue	27	191
Conglomerate	33	224
Clay and gravel, hard	26	250
Sand and gravel	11	261
Conglomerate	22	283
Clay	52	335
Conglomerate	5	340
Sand and gravel	27	367
Clay and gravel	36	403
Sand and gravel	3	406
Clay, sand, and gravel	3	409
Sand and gravel	41	450
Sand, cemented	14	464
Clay, sandy	29	493
Sand and gravel	3	496
Sand, fine	32	528
Clay, sandy	22	550
Sand	13	563
Sand and gravel	122	685
Gravel, cemented	7	692
(D-3-1)4bbb-1 - Continued		
Clay and gravel	10	702
Sand and gravel	10	712
Clay and gravel	12	724
Sand and gravel	14	738
Clay and gravel	9	747
Sand and gravel	37	784
Clay and gravel	2	786
Sand and gravel, with lenses of clay	34	820
Clay and gravel	13	833
Sand and gravel	7	840
Clay and gravel, hard	64	904
(D-3-1)32aaa-2. Log by Melvin Church. Alt. 4,521 ft.		
Soil	2	2
Silt and sand	5	7
Sand	23	30
Clay	57	87
Gravel	3	90
Clay and sand	19	109
Sand and gravel	8	117
Clay and sand	7	124
Sand and gravel	19	143
Clay	10	153
Sand	3	156
Clay	39	195
Sand	15	210
Clay	43	253
Sand and gravel	32	285
Clay, sand, and gravel	11	296
Sand and gravel	10	306
Clay and gravel	24	330
Sand and gravel	10	340
Clay and gravel	54	394
Sand and gravel	5	399
Clay	3	402

Table 8.--Summary of estimated well discharge, in acre-feet, calendar year 1967

Ground-water district.--See plate 1 for location.

Use of water.--Public supply includes water used by municipalities, public water supply companies, schools, hospitals, and hotels.

Use of water	Ground-water district						
	East Bench	East Lake Plain	Cotton-woods	South-east	West slope	North-west Lake Plain	Total (rounded)
Industry	900	3,700	1,200	400	3,100	19,500	28,800
Public supply	5,800	3,200	22,600	100	1,000	3,200	35,900
Irrigation	500	40	200	200	3,400	100	4,400
Air conditioning	200	700	20	20	0	10	900
Domestic, stock, fish, and fur culture	200	9,000	8,500	200	5,000	10,000	32,900
Total (rounded)	7,600	16,600	32,500	900	12,500	32,800	102,900

Table 9.--Chemical analyses of water from selected wells and springs

Sodium.--Sodium (Na) and potassium (K) values are calculated and reported as sodium.

Dissolved solids.--Dissolved-solids values greater than 1,000 parts per million are calculated from determined constituents, those less than 1,000 parts per million are residue on evaporation at 180°C.

Remarks.--Records of these wells given in table 5 or in Utah Basic-Data Releases 11-13.

Chemical analyses, in parts per million, calendar year 1967

Well number	Date of collection	Temperature (°F)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH
(B-1-1)5ddd-1	1-20-67	83	61	51	12	315	212	0	19	490	0.6	1,060	200	26	77	9.7	1,890	7.8
14dcb-S1[a]	7-26-67	132	32	746	131	4,250	221	0	985	7,470	.7	13,900	2,400	2,220	78	38	20,800	7.4
25dbb-S1[b]	7-26-67	105	16	433	90	1,620	244	0	818	2,820	7.3	6,000	1,450	1,250	70	19	9,540	7.9
(B-1-3)34bcb-1	9-12-67	78	39	1,070	688	3,950	52	0	327	9,730	.7	15,800	5,510	5,470	61	23	24,300	7.3
(C-1-1)5aad-4	2-24-67	64	22	30	17	144	242	0	99	111	.3	527	146	0	68	5.2	888	7.7
13bba-1	8- 4-67	59	5.2	18	6.8	59	98	0	64	38	.2	238	73	0	64	3.0	415	7.5
13dab-1	8- 2-67	58	.4	10	2.4	78	45	0	4.5	116	.2	242	36	0	82	5.6	469	7.1
24cdc-2	8- 4-67	55	26	146	104	121	406	0	482	148	11	1,240	790	457	25	1.9	1,760	8.0
25bdb-1[c]	6-20-67	53	18	46	19	37	305	0	10	11	.1	285	196	0	29	1.2	497	7.6
	7-25-67	64	19	61	22	44	211	0	133	18	.1	399	241	68	28	1.2	611	8.0
26ccd-1	8- 2-67	56	20	66	19	21	215	0	91	15	.2	350	245	69	16	.6	533	7.7
27dac-4	8- 2-67	56	20	52	18	40	211	0	93	14	.2	348	203	30	30	1.2	535	7.8
34dda-1	4- 3-67	55	41	35	12	34	160	0	55	15	.1	267	136	5	35	1.3	400	7.6
(C-1-2)1bcd-1	5-11-67	79	27	104	95	604	122	0	94	1,250	1.7	2,240	650	550	67	10	4,040	8.0
2adc-1	5-11-67	80	47	224	88	945	104	0	133	1,950	.5	3,440	920	835	69	14	6,070	7.3
6aaa-4	2-24-67	72	25	95	52	544	114	0	42	1,060	.6	1,870	450	357	72	11	3,480	7.9
9ddc-1	4- 3-67	57	45	21	31	396	368	0	113	440	1.1	1,230	180	0	83	13	2,140	8.2
23ddb-2	10-27-67	--	75	30	18	311	288	0	190	275	2.8	1,040	148	0	82	11	1,660	7.6
35ada-2	10-11-67	57	37	120	54	204	312	0	243	315	18	1,140	524	268	46	3.9	1,830	7.7
(C-1-3)15bca-2	2-23-67	81	19	398	166	3,560	275	0	247	6,330	1.7	10,900	1,680	1,450	82	38	18,100	7.9
15bda-2[d]	4-17-67	71	16	280	152	2,150	315	0	380	3,790	2.2	6,930	1,320	1,060	78	26	11,600	7.5
15bdc-3	2-23-67	65	19	347	142	1,750	300	0	449	3,220	1.7	6,080	1,450	1,200	72	20	10,300	7.8
15cbb-2[e]	4-17-67	79	16	312	139	2,660	292	0	238	4,700	4.1	8,220	1,350	1,110	81	31	13,900	7.5
15dca-1	2-23-67	65	16	278	115	2,100	320	0	354	3,610	2.2	6,630	1,170	907	80	27	11,300	8.0
15dbd-1	2-23-67	60	18	389	124	1,240	296	0	826	2,180	.9	4,920	1,480	1,240	65	14	7,890	7.9
17dcb-1	2-23-67	--	16	137	42	1,270	438	0	521	1,680	5.3	3,890	515	156	84	24	6,450	8.0
(C-2-1)1abc-1	6-28-67	61	14	38	14	19	162	0	44	12	0.0	222	154	21	21	0.7	357	7.9
3cdd-4	2- 4-67	66	42	52	33	116	128	0	130	194	2.5	661	264	159	49	3.1	1,060	7.7
11bad-1	10-11-67	59	18	62	20	41	131	0	100	82	.1	408	238	131	27	1.1	639	7.6
12ada-1	6-28-67	53	11	58	18	23	159	0	66	45	4.2	342	216	86	19	.7	511	7.7
23aaa-2	6-28-67	58	14	66	23	45	180	0	94	75	7.4	424	260	112	27	1.2	678	7.8
27ddc-1	10-11-67	57	28	87	39	55	180	0	94	180	1.4	649	380	232	24	1.2	1,010	7.4
32dca-1	6-27-67	55	27	80	30	166	384	0	144	145	16	780	322	7	53	4.0	1,230	7.8
(C-3-1)1ada-1	2- 8-67	50	14	61	19	46	180	0	65	80	5.5	397	232	84	30	1.3	653	7.7
1dcc-3	2- 8-67	49	15	112	68	107	268	0	386	116	9.6	981	560	340	29	2.0	1,360	7.9
5dcb-1	8- 8-67	60	23	110	34	63	222	0	193	118	.5	678	414	232	25	1.3	1,010	7.9
7cbb-1	4-28-67	58	21	79	39	53	185	0	58	182	2.6	587	356	204	24	1.2	962	7.4
9bcc-1	4-14-67	58	33	513	248	104	644	0	1,630	210	4.7	3,060	2,300	1,770	9	.9	3,500	7.8
13bab-1	2- 8-67	66	21	120	46	99	252	0	246	172	.2	908	490	283	30	1.9	1,370	7.9
24bcc-1	2- 8-67	47	30	96	29	264	244	0	94	450	1.5	1,080	360	160	61	6.0	1,970	7.9
(C-4-1)5ccb-2	9-27-67	62	--	45	14	94	332	0	64	26	7.8	480	170	0	55	3.1	709	7.7
6dad-1	9-27-67	62	53	122	37	153	380	0	319	99	8.2	f978	456	144	42	3.1	1,380	7.8
10bdd-1	4- 3-67	46	37	110	94	214	302	0	364	350	6.8	1,320	660	412	41	3.6	2,090	7.7
11ccc-1	4- 3-67	57	40	88	52	109	270	0	196	170	5.1	825	432	211	35	2.3	1,280	7.7
13bbc-S1	7-26-67	59	15	71	32	45	265	0	94	67	.1	465	311	94	24	1.1	764	7.9
22dbd-1	1-19-67	56	53	104	32	63	272	0	118	217	6.5	689	392	169	26	1.4	1,010	7.4
27dcd-S1	10-16-67	53	56	109	20	39	256	0	33	136	2.1	574	354	144	19	.9	862	7.7
(D-1-1)6bbb-1	7-18-67	58	20	110	44	81	372	0	172	91	25	732	456	151	28	1.7	1,120	7.9
8aab-S1	9-12-67	54	17	106	41	44	334	0	141	56	36	612	432	158	18	.9	922	8.0
19bac-4	6-29-67	78	13	111	32	48	304	0	199	38	.7	609	406	157	20	1.0	890	7.8
20aaa-2	6-29-67	58	16	87	34	57	264	0	192	42	6.0	579	356	140	26	1.3	854	7.9
20bab-1	6-29-67	64	17	104	40	53	240	0	282	36	.1	681	426	229	21	1.1	932	7.8

See footnotes at end of table.

Table 9.--Chemical analyses of water from selected wells and springs--Continued

Chemical analyses, in parts per million, calendar year 1967

Well number	Date of collection	Temperature (°F)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Sodium adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH
(D-1-1)20cbc-1	9-15-67	59	14	103	35	43	212	0	262	28	11	634	400	226	19	.9	855	7.7
28cbb-2	9-15-67	61	15	120	46	44	236	0	339	26	.0	742	488	294	16	.9	978	7.6
30bbc-9	9-19-67	56	6.6	71	36	33	206	0	184	25	.0	488	324	155	18	.8	701	7.8
31dcc-2	6-29-67	52	11	50	18	16	177	0	61	16	.1	263	196	51	15	.5	434	7.8
32dcd-13	9-19-67	56	12	82	28	30	246	0	126	40	2.3	460	320	123	17	.7	692	8.0
(D-2-1)4bcc-1	9-12-67	60	16	90	44	48	212	0	284	28	.2	642	404	230	21	1.0	882	7.9
6dbb-12	6-27-67	55	10	47	18	18	164	0	58	26	1.7	270	194	60	17	.6	439	7.7
7dcd-7	6-28-67	68	13	34	18	67	154	0	146	20	.2	369	160	34	48	2.3	577	7.6
8aaa-1	6-28-67	56	11	51	19	18	184	0	66	16	2.9	279	206	55	16	.5	450	7.7
8daa-4	7-13-67	54	8.8	63	20	25	230	0	57	28	7.2	312	239	50	19	.7	537	7.8
9cdb-1	6-28-67	59	9.3	59	19	21	217	0	52	25	7.6	307	228	50	17	.6	499	8.0
15cac-1	9-11-67	53	8.4	63	20	14	204	0	61	26	1.3	301	237	70	12	.4	498	7.5
16bdc-1	10-20-67	58	8.4	28	9.5	14	120	0	28	7.0	3.0	158	110	12	21	.6	259	7.5
17bcc-7	6-28-67	57	12	90	26	39	202	0	109	92	6.1	515	330	164	20	.9	786	7.7
22cac-2	7-13-67	52	9.2	30	8.8	11	120	0	26	6.5	1.9	148	112	14	18	.5	256	7.5
(D-2-2)20cdd-S1	4-18-67	44	6.0	26	8.8	13	78	0	24	29	.1	156	101	37	22	.6	266	7.7

a Analysis includes 156 ppm potassium (K), 3.3 ppm fluoride (F), and 1.2 ppm boron (B).
b Analysis includes 70 ppm potassium (K), 2.8 ppm fluoride (F), and 0.90 ppm boron (B).
c Analysis includes 0.4 ppm fluoride (F).
d Analysis includes 1.7 ppm fluoride (F) and 0.44 ppm boron (B).
e Analysis includes 1.5 ppm fluoride (F) and 0.60 ppm boron (B).
f Sum of determined constituents.

Table 10.--Chemical analyses of water from streams at or near gaging stations.

Sodium.--Sodium (Na) and potassium (K) values are calculated and reported as sodium.

Dissolved solids.--Dissolved solids values greater than 1,000 parts per million are calculated from determined constituents, those less than 1,000 parts per million are residue on evaporation at 180° C.

Locations.--Locations are given in tables 18, 19, and 53.

Chemical analyses, in parts per million, water year October 1966 to September 1967

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos/cm at 25°C)	pH	Temperature (°F)
1672. Jordan River at 9400 South, near South Jordan																			
Records available.--August 1965 to September 1967.																			
Oct. 26, 1966	1.9	32	180	100	299	264	0	648	435	7.3	1,830	2.49	9.39	860	644	4.4	2,790	7.8	56
Nov. 10	1.9																2,810		56
Dec. 12	2.2	33	212	100	288	360	0	621	440	5.9	1,880	2.56	11.2	940	645	4.1	2,800	7.8	45
Feb. 8, 1967	19	31	192	93	294	360	0	575	425	7.4	1,790	2.43	91.8	860	565	4.4	2,680	8.0	39
Mar. 18	.6																2,570		53
Mar. 27	1.6	30	214	83	279	328	0	591	420	5.4	1,780	2.42	7.69	875	606	4.1	2,590	7.7	52
Apr. 25	1.5	27	180	92	246	324	0	504	405	4.1	1,620	2.20	6.56	830	564	3.7	2,480	7.8	52
May 18	2.8	28	172	90	259	330	0	510	395	5.4	1,620	2.20	12.2	800	529	4.0	2,450	7.7	65
June 26	.6	28	167	75	244	320	0	449	370	4.9	1,490	2.03	2.41	724	462	3.9	2,220	8.0	61
July 18	34	30	150	89	271	346	0	486	380	5.7	1,580	2.15	145	740	456	4.3	2,340	7.9	68
Sept. 7	14	32	172	105	272	370	0	559	400	2.4	1,720	2.34	65	860	557	4.0	2,530	7.5	61
1673. Jordan River at 5800 South, near Murray																			
Records available.--August 1965 to September 1967.																			
Dec. 19, 1966	110	26	156	88	245	336	0	505	340	3.0	1,530	2.08	454	750	474	3.9	2,270	7.7	46
Feb. 28, 1967	131	24	152	77	235	312	0	472	322	6.7	1,440	1.96	509	695	439	2.9	2,160	7.6	54
Apr. 25	90	23	164	78	216	300	0	456	335	8.2	1,430	1.94	347	730	484	3.5	2,190	7.5	52
May 18	91	21	146	75	209	300	0	421	310	8.0	1,330	1.81	327	674	428	3.5	2,060	7.4	66
June 26	160	20	124	57	181	262	0	339	260	5.5	1,120	1.52	484	544	329	3.4	1,710	8.1	58
Sept. 11	191	26	140	85	222	316	0	463	310	6.3	1,410	1.92	727	700	441	3.7	2,070	7.6	60
1722. Red Butte Creek at Fort Douglas, near Salt Lake City																			
Records available.--April 1964 to September 1966; August, September 1967.																			
Aug. 8, 1967[a]	1.5	12	77	28	12	282	0	93	12	0.9	391	0.53	1.58	308	77	0.3	598	8.1	--
Sept. 22[b]	1.2	12	89	27	13	295	0	106	14	.2	413	.56	1.34	331	89	.3	639	8.2	52

a Analysis includes 0.7 ppm potassium (K), 0.01 ppm iron (Fe), 0.3 ppm fluoride (F), 0.03 ppm boron (B), and 0.11 ppm phosphate (PO_4).
b Analysis includes 1.0 ppm potassium (K), 0.02 ppm iron (Fe), 0.06 ppm manganese (Mn), 0.3 ppm fluoride (F), 0.01 ppm boron (B), 0.12 ppm phosphate (PO_4), 0.03 ppm zinc (Zn), 0.05 ppm copper (Cu), and 0.003 ppm lead (Pb).

Table 11.--Daily mean specific conductance of Jordan River at 9400 South, near South Jordan (1672)

Records available.--October 1966 to September 1967.

Specific conductance, in micromhos per cm. at 25°C, water year October 1966 to September 1967

	October	November	December	January	February	March	April	May	June	July	August	September
1	2,540	2,890	2,580	2,790	2,600	2,510	2,520	2,500	--	2,090	2,350	2,580
2	2,600	2,900	2,610	2,810	2,650	2,470	2,520	2,500	--	2,150	2,370	2,580
3	2,580	2,890	2,630	2,800	2,650	2,420	2,540	2,460	--	2,150	2,450	2,580
4	2,580	2,870	2,640	2,750	2,700	2,380	2,540	2,460	--	2,170	2,450	2,580
5	2,640	2,900	2,690	2,750	2,700	2,430	2,550	2,490	--	2,170	2,520	2,580
6	2,620	2,880	2,730	2,770	2,700	2,410	2,550	2,540	--	2,200	2,470	2,580
7	2,600	2,810	2,750	2,750	2,700	2,410	2,540	2,530	--	2,200	2,470	2,500
8	2,600	2,790	2,770	2,750	2,700	2,470	2,550	2,530	--	2,250	2,500	2,450
9	2,650	2,820	2,790	2,750	2,730	2,470	2,550	2,580	--	2,340	2,440	2,450
10	2,640	2,800	2,800	2,750	2,730	2,570	2,580	2,580	--	2,340	2,440	2,450
11	2,600	2,790	2,780	2,750	2,720	2,570	2,590	2,540	--	2,300	2,440	2,450
12	2,680	2,780	2,790	2,750	2,710	2,570	2,590	2,600	--	2,300	2,400	2,450
13	2,750	2,770	2,790	2,720	2,720	2,530	2,620	2,570	--	2,340	2,370	2,400
14	2,750	2,750	2,770	2,720	2,720	2,520	2,620	2,590	--	2,340	2,450	2,400
15	2,800	2,740	2,750	2,720	2,730	2,520	2,620	2,460	--	2,400	2,550	2,400
16	2,780	2,600	2,750	2,700	2,780	2,520	2,680	2,460	--	2,400	2,500	2,420
17	2,720	2,650	2,750	2,710	2,700	2,520	2,580	2,460	--	2,400	2,520	2,450
18	2,750	2,660	2,730	2,700	2,670	2,530	2,410	2,460	--	2,360	2,520	2,470
19	2,750	2,640	2,880	2,700	2,620	2,590	2,410	--	--	2,350	2,550	2,500
20	2,780	2,610	2,800	2,690	2,670	2,590	2,360	--	--	2,310	2,500	2,450
21	2,780	2,590	2,790	2,650	2,580	2,590	2,360	--	--	2,250	2,500	2,450
22	2,740	2,610	2,800	2,620	2,570	2,590	2,410	--	--	2,200	2,550	2,420
23	2,720	2,630	2,800	2,620	2,570	2,570	2,530	--	--	2,150	2,600	2,400
24	2,800	2,640	2,810	2,620	2,510	2,570	2,410	--	--	2,150	2,600	2,450
25	2,800	2,670	2,810	2,600	2,510	2,540	2,410	--	--	2,200	2,580	2,500
26	2,810	2,680	2,780	2,550	2,510	2,540	2,460	--	--	2,150	2,580	2,500
27	2,810	2,680	2,750	2,580	2,510	2,520	2,460	--	2,220	2,250	2,580	2,450
28	2,840	2,640	2,800	2,600	2,510	2,520	2,480	--	2,180	2,300	2,550	2,420
29	2,840	2,550	2,800	2,600	----------	2,480	2,480	--	2,090	2,320	2,550	2,420
30	2,840	2,570	2,810	2,600	----------	2,510	2,480	--	2,080	2,320	2,580	2,450
31	2,860	---------	2,800	2,600	----------	2,530	----------	--	----------	2,350	2,580	----------
Average	2,720	2,730	2,760	2,690	2,650	2,510	2,510	----------	----------	2,260	2,500	2,470

Table 12.--Temperature of Red Butte Creek at Fort Douglas, near Salt Lake City (1722).

Records available.--Daily maximum and minimum temperature April 1964 to April 1967 and occasional temperature readings May to September 1967.

Remarks.--The record herein is the daily maximum and minimum temperature from thermograph Oct. 1 to Apr. 27 and temperature at time of visit Apr. 28 to Sept. 30.

Temperature of water, in degrees Fahrenheit, water year October 1966 to September 1967

Month	DAY																															Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
OCTOBER																																
Maximum.....	52	52	50	48	49	50	50	51	50	50	53	53	53	43	44	43	44	43	46	46	45	38	46	46	46	48	47	48	47	47	46	47
Minimum.....	49	50	46	44	44	47	47	46	48	46	50	50	43	40	40	39	38	38	40	45	36	34	38	41	42	43	44	43	42	42	42	43
NOVEMBER																																
Maximum.....	43	43	42	41	40	41	41	41	34	32	34	40	40	43	44	44	43	44	43	44	45	42	39	34	34	34	35	36	37	38	--	40
Minimum.....	39	38	38	36	36	40	40	34	32	32	32	34	38	40	41	43	41	42	40	42	42	39	34	33	33	34	34	34	36	37	--	37
DECEMBER																																
Maximum.....	39	40	40	37	38	38	38	38	34	32	33	33	34	34	34	34	34	34	34	33	32	32	32	32	33	33	33	34	34	34	34	35
Minimum.....	37	39	37	34	37	37	37	34	32	32	32	33	33	33	34	33	34	34	33	32	32	32	32	32	32	32	32	33	33	33	33	34
JANUARY																																
Maximum.....	34	34	34	34	34	34	33	33	33	33	33	34	35	36	36	35	35	35	35	35	35	35	35	35	36	36	36	36	36	36	36	35
Minimum.....	34	34	34	34	34	33	33	33	33	33	33	33	34	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	34
FEBRUARY																																
Maximum.....	36	36	35	34	34	34	33	33	34	34	34	36	36	36	33	33	34	34	33	34	34	34	37	40	39	39	38	40	--	--	--	35
Minimum.....	35	35	34	32	34	32	32	32	33	34	33	34	35	33	33	33	33	33	32	32	32	32	32	36	37	37	34	35	--	--	--	34
MARCH																																
Maximum.....	43	43	42	38	34	36	36	36	38	38	38	39	39	37	42	44	46	46	44	42	44	46	44	44	42	44	44	45	45	40	40	41
Minimum.....	39	42	38	34	33	33	33	33	33	36	37	38	37	35	35	40	42	44	42	40	38	40	43	40	40	40	40	44	35	34	34	38
APRIL																																
Maximum.....	41	46	48	48	46	45	46	44	46	43	43	42	46	48	49	49	54	50	49	42	43	38	38	40	45	44	42	41	--	36	--	--
Minimum.....	38	37	44	42	38	35	39	39	37	40	41	41	40	44	45	43	45	42	39	38	38	36	36	36	35	38	41	--	--	--	--	--
MAY	--	--	--	--	--	--	--	--	44	--	--	--	--	--	--	--	--	--	--	--	--	56	--	--	50	--	--	--	--	--	--	--
JUNE	--	57	--	--	--	--	--	--	48	--	--	--	--	--	--	48	--	--	--	--	--	--	52	--	--	--	--	--	--	--	--	--
JULY	--	--	68	--	--	--	--	--	66	--	--	--	59	--	--	--	--	--	--	--	--	--	--	68	--	--	--	--	--	--	--	--
AUGUST	64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61	--	--	--
SEPTEMBER	--	--	--	--	58	--	--	62	--	--	--	--	--	--	--	--	--	--	--	--	--	52	--	--	--	--	--	--	--	--	--	--

Table 13.--Suspended sediment in streams at or near gaging stations

Locations.--Locations are given in corresponding streamflow tables (15-62).

Suspended sediment.--T, discharge less than 0.05 tons per day.

Periodic determinations of suspended-sediment discharge, water year October 1966 to September 1967

Date of collection	Time	Water temperature (°F)	Mean discharge (cfs)	Suspended sediment: Mean concentration (ppm)	Suspended sediment: Discharge (tons per day)
1675. Little Cottonwood Creek near Salt Lake City					
Oct. 6, 1966	0940	47	15	3	0.1
Nov. 7	1500	38	13	1	T
Dec. 20	1330	35	9.0	0	0
Jan. 23, 1967	0830	34	13	3	.1
Feb. 27	1550	38	12	0	0
Apr. 18	1130	44	21	1	.1
May 10	1555	45	50	7	.9
May 15	0945	44	38	1	.1
June 7	1220	45	312	25	21
June 26	1105	45	405	26	28
July 13	1105	52	170	4	1.8
Aug. 9	1400	52	59	4	.5
Sept. 25	1120	49	24	2	.1
1675 D. Little Cottonwood Creek (channel only) near Salt Lake City					
May 23, 1967	1305	45	255	53	36
1677 G. Little Cottonwood Creek at 6600 South, near Murray					
May 23, 1967	1345	45	a 200	27	15
1685. Big Cottonwood Creek near Salt Lake City					
Oct. 6, 1966	1025	47	26	4	.3
Nov. 17	0940	38	26	2	.1
Dec. 20	1245	34	21	1	.1
Jan. 23, 1967	0920	33	22	3	.2
Feb. 27	1315	39	24	4	.3
Apr. 18	1245	46	54	3	.4
May 10	1415	46	188	19	9.6
May 15	1110	45	113	3	.9
May 23	1220	45	371	232	232
June 7	1310	47	332	26	23
July 13	1220	55	134	5	1.8
Aug. 9	1330	54	52	4	.6
Sept. 25	1150	50	54	2	.3
1685 C. Big Cottonwood Creek flume at water treatment plant, near Salt Lake City					
May 23, 1967	1200	46	293	68	54
1688 E. Big Cottonwood Creek at 900 East, near Murray					
May 23, 1967	1430	48	a100	300	81
1700. Mill Creek near Salt Lake City					
Oct. 6, 1966	1050	48	8.3	28	.6
Nov. 16	1505	45	8.2	26	.6
Dec. 20	1140	37	7.8	2	T
Jan. 23, 1967	1020	36	4.9	25	.3
Feb. 27	1305	39	8.0	47	1.0
Apr. 18	1350	50	9.9	2	.1
May 10	1345	51	20	123	6.6
May 15	1140	53	17	23	1.1
1700. Mill Creek near Salt Lake City--Continued					
June 7, 1967	1405	50	50	106	14
June 26	1355	57	32	26	2.2
July 13	1250	59	19	19	1.0
Aug. 9	1300	53	15	44	1.8
Sept. 25	1145	51	11	16	.5
1716. Parleys Creek at Suicide Rock, near Salt Lake City					
Oct. 6, 1966	1150	--	2.8	20	.2
Nov. 16	1445	--	8.0	98	2.1
Dec. 20	1045	--	2.4	6	T
Jan. 23, 1967	1045	39	2.8	50	.4
Feb. 27	1245	45	2.8	27	.2
Apr. 18	1415	54	7.6	6	.1
May 10	1240	--	17	136	6.2
May 15	1210	50	84	87	20
June 7	1420	56	26	47	3.3
July 13	1325	64	6.5	38	.7
Aug. 9	1245	61	3.3	18	.2
Sept. 25	1200	59	2.3	58	.4
1720. Emigration Creek near Salt Lake City					
Oct. 6, 1966	1205	48	2.3	81	.5
Nov. 16	1420	42	3.2	33	.3
Dec. 20	1015	43	1.6	12	.1
Jan. 23, 1967	1110	38	1.6	65	.3
Feb. 27	1100	45	1.6	137	5.9
Apr. 18	1435	56	5.8	37	.6
May 10[b]	1050	50	14	804	30
May 15	1230	48	12	164	5.3
June 7	1445	55	7.6	158	3.2
Aug. 9	1220	59	1.6	44	.2
1722. Red Butte Creek at Fort Douglas, near Salt Lake City					
Oct. 6, 1966	1230	--	1.3	49	.2
Nov. 16	1005	40	1.6	55	.2
Dec. 20	0950	32	1.4	20	.1
Jan. 23, 1967	1130	33	1.6	99	.4
Feb. 20	1545	34	2.3	79	.5
Mar. 20	1455	42	3.1	69	.6
Apr. 17	1535	54	3.3	10	.1
May 10	0940	44	8.3	58	1.3
May 15	1330	55	7.0	18	.3
June 7	1515	--	4.5	62	.8
Aug. 8	1330	47	1.5	47	.2
Aug. 9	1150	63	1.4	34	.1
1724. City Creek above Wasatch Drive, near Salt Lake City					
Oct. 6, 1966	1300	--	.9	7	T
Nov. 16	0945	--	.9	24	.1
Dec. 20	0930	37	1.4	9	T
Jan. 23, 1967	1215	39	1.2	49	.2
Feb. 27	0915	37	1.3	54	.2
Apr. 18	1500	53	1.8	3	T
May 10	0740	43	15	32	.3
May 15	1410	51	30	51	.4
Aug. 9	1100	--	1.1	14	T

a Estimated discharge.
b Size analysis: percent finer than 0.250 mm - 100, 0.125 mm - 98, 0.062 mm - 94, 0.004 mm - 55, and 0.002 mm - 43.

Table 14.--Discharge measurements at miscellaneous sites

Measurements during water year, October 1966 to September 1967

Station No.	Stream	Location	Drainage area (sq.mi.)	Measurements	
				Date	Discharge (cfs)
1670 M	Rose Creek	NW¼NW¼ sec. 10, T. 4 S., R. 2 W., above diversion intake, 2 miles southwest of Herriman	-	4- 3-67 7-24-67 8-15-67	0.6 .6 .3
1670 N	Corner Creek	NE¼SE¼ sec. 4, T. 4 S., R. 1 E., 2.4 miles southeast of Draper	-	7-24-67 8-15-67	1.0 1.0
1670 P	Draper Irrigation Company Ditch	NE¼SW¼ sec. 28, T. 3 S., R. 1 E., at 12300 South, 1 mile east of Draper	-	7-26-67 8-15-67	11.0 .8
1670 Q	Butterfield Creek	SE¼SW¼ sec. 31, T. 3 S., R. 2 W., 0.7 mile upstream from Utah Highway 111 and 3.6 miles southwest of Herriman	-	4- 6-67 8-15-67	1.7 1.5
1670 R	Keystone Gulch	NE¼SE¼ sec. 29, T. 3 S., R. 2 W., at Utah Highway 111, 0.5 mile east of Lark	-	4- 6-67 7-24-67 8-15-67	2.3 1.5 .8
1670 T	Bells Canyon Irrigation Company Ditch	NE¼NW¼ sec. 14, T. 3 S., R. 1 E., at Parshall flume in ditch near Granite	-	4- 3-67 5-23-67 7-26-67 8-15-67	.2 7.5 8.5 4.0
1673 B	Brighton Canal	NW¼SW¼ sec. 1, T. 2 S., R. 1 W., at staff gage about 150 feet downstream from diversion structure on Jordan River, 1.2 miles northwest of Murray	-	7-21-67 8-16-67 9-11-67	45.4 32.4 30.1
1675 P	Diversion from Willow Creek	NE¼NW¼ sec. 1, T. 3 S., R. 1 E., above Wasatch Boulevard and near Little Cottonwood Creek treatment plant	-	3-31-67 5-10-67 6-16-67 7-18-67 7-26-67 8-15-67	.8 1.6 2.0 1.9 4.0 2.2
1675 R	Willow Creek	SE¼NE¼ sec. 2, T. 3 S., R. 1 E., at bridge on Danish Road near Little Cottonwood Creek treatment plant	-	5-10-67 6-19-67 7-18-67	.1 10.2 .2
1685 P	Hughes Creek	NE¼NE¼ sec. 23, T. 2 S., R. 1 E., above culvert on Wasatch Boulevard, 2.5 miles southeast of Holladay	-	5-16-67	5.8
1717	Parleys Creek above 13th East	NE¼NE¼ sec. 20, T. 1 S., R. 1 E., in Sugar House Park about 100 ft upstream from 13th East Street	56.7	6-22-67 8-11-67	11.3 10.2
1726.4	Lee Creek	At bridge on section line between sec. 35 and 36, T. 1 N., R. 3 W., and 5 miles northwest of Magna	-	1-31-67 4-25-67 8-17-67	34.0 32.4 3.4

Tables 15-62 show daily or monthly surface flows at the sites described. Underlined daily flows are maximum or minimum values for the month. Complex relations between flows in some areas are illustrated by figures 2-5.

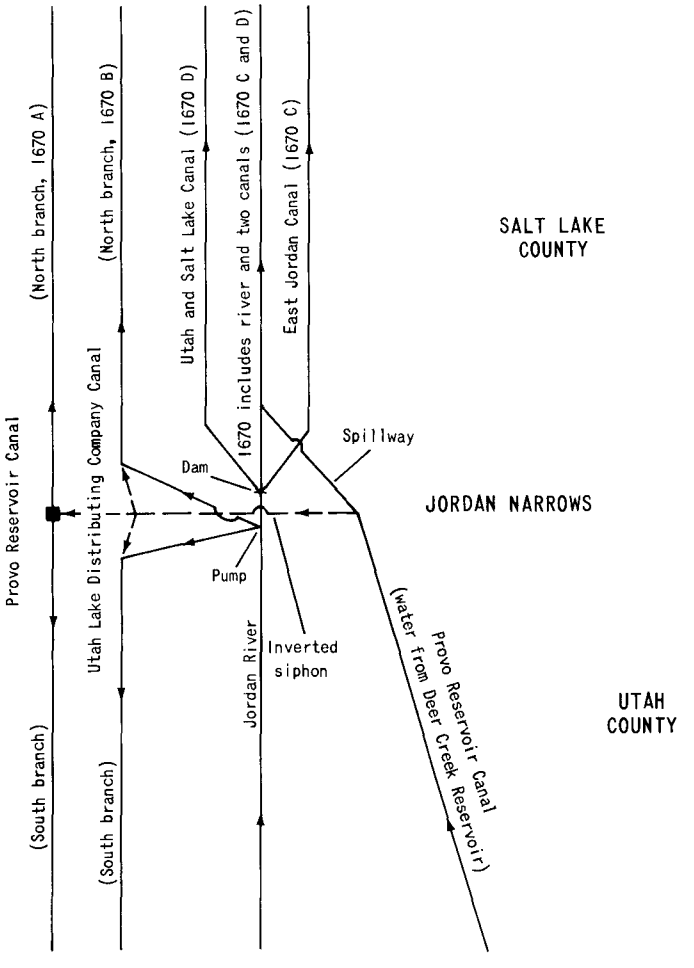

Figure 2.— Schematic diagram showing relation of flows in Jordan Narrows.

Table 15.--1590 A, 1670 A, B, 1726.5 C. Water imported to Salt Lake County

Imports.--Water from Deer Creek Reservoir, on the Provo River in Wasatch County, is delivered to Salt Lake County through the Salt Lake City aqueduct, and water from the Provo River below the reservoir is delivered to the north branch of Provo Reservoir Canal and the north branch of the Utah Lake Distributing Company Canal. The latter canal also delivered water pumped from the Jordan River above the diversion dam and stream-gaging station at Jordan Narrows. (See fig. 2.)

Water from three groups of springs (Dunne's Pond, Mill Pond, and Six Mile Creek) in Tooele County is delivered to Salt Lake County through Kennecott Copper Corporation's pipeline.

Locations.--The Salt Lake City aqueduct is a 69-inch pipeline that terminates at the Little Cottonwood Creek treatment plant. (See table 25.) The head of the north branch of the Provo Reservoir Canal is at the inverted-siphon outlet in the NE¼SW¼ sec. 26, T. 4 S., R. 1 W. The head of the north branch of the Utah Lake Distributing Company Canal is 400 feet southwest of the pumping plant in the NE¼NW¼ sec. 26, T. 4 S., R. 1 W. The pipeline from Tooele County terminates in the industrial complex near Garfield, T. 1 S., R. 3 W.

Records available.--May 1965 to September 1967 for pipeline, October 1963 to September 1967 for all others. Records of water delivered from Deer Creek Reservoir and Provo River for previous years are in files of the Metropolitan Water District of Salt Lake City and the Provo River Water Users Association. Records of water pumped from the Jordan River for previous years are in annual reports of the water commissioner for Utah Lake and Jordan River.

Cooperation.--Records of water from Deer Creek Reservoir, Provo River, and Jordan River furnished by the Metropolitan Water District of Salt Lake City, the Provo River Water Users Association, and the water commissioner for Utah Lake and Jordan River, Kennecott Copper Corporation furnished weekly gage readings for weirs measuring the spring flow at the head of the pipeline from Tooele County.

Monthly discharge, in acre-feet, water year October 1966 to September 1967

	Oct.	Nov.	Dec.	Calendar year 1966	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1967
1590 A. Salt Lake City aqueduct														
To users between county line and treatment plant	5	2	2	1,670	5	3	4	3	75	4	82	386	324	895
To treatment plant	905	308	482	19,740	792	572	451	491	864	417	1,370	4,470	1,880	13,000
Total	910	310	484	21,410	797	575	455	494	939	421	1,450	4,860	2,200	13,900

Note.--Total discharge does not include leakage from the aqueduct and spill to Little Cottonwood Creek of about 700 - 1,200 acre-feet per year.

1670 A. Provo Reservoir Canal (north branch)														
From Provo River	0	0	0	23,750	0	0	0	1,030	6,840	5,320	6,060	6,310	3,680	29,240
1670 B. Utah Lake Distributing Company Canal (north branch)														
From Provo River	462	0	0	6,510	0	0	0	192	1,120	986	1,090	1,050	1,070	5,970
From Jordan River	1,640	0	0	22,760	0	0	0	740	4,000	2,880	3,870	4,010	3,880	21,020
Total	2,100	0	0	29,260	0	0	0	932	5,120	3,870	4,960	5,060	4,950	26,990
1726.5 C. Kennecott Copper Corporation pipeline from Tooele County														
From springs	850	870	930	10,400	980	910	1,000	950	910	840	180	180	180	8,780

Note.--Only the flow from Six Mile Creek entered Salt Lake County during July, August, and September. Discharge estimated.

Table 16.--1670. Jordan River at narrows, near Lehi

Location.--Lat 40°26'40", long 111°55'15", in SE¼NW¼ sec. 26, T. 4 S., R. 1 W., at narrows 5.5 miles northwest of Lehi and 7.5 miles downstream from Utah Lake.

Drainage area.--3,000 sq mi, approximately, including 255 sq mi in closed basin in Cedar Valley, Utah County.

Records available.--May to December 1904, July 1913 to September 1967. May to December 1904, July 1913 to September 1960 in annual series of Water-Supply Papers of the U.S. Geological Survey, with monthly summaries in WSP 1314 and 1734. October 1960 to September 1967 in Surface Water Records of Utah, published annually.

Gage.--Water-stage recorder. Altitude of gage is 4,470 ft (barometer). Prior to May 16, 1920, staff gage; May 16, 1920, to Sept. 30, 1934, water-stage recorder, at outlet of Utah Lake 7.5 miles upstream at different datum.

Average discharge.--54 years (1913-67) 350 cfs (253,400 acre-ft per year).

Extremes.--1904, 1913-67: Maximum daily discharge, 1,410 cfs June 10, 1952; no flow at times when gates were closed.

Remarks.--Records good. Figures given herein represent the combined flow of Jordan River, Utah and Salt Lake Canal, and East Jordan Canal. See table 15 for record of additional flow from Utah Lake to Salt Lake County. (See fig. 5.) Flow may be regulated by gates and pumps at the outlet of Utah Lake, pumps at Pelican Point, and the diversion dam at narrows.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	423	74	18	23	25	75	97	284	455	664	762	738
2	411	73	18	24	26	69	97	300	505	680	771	704
3	383	73	18	24	25	25	112	378	543	677	720	694
4	400	74	18	24	30	30	122	472	543	661	698	694
5	408	71	18	24	35	35	123	520	569	683	728	705
6	393	71	19	24	34	39	122	507	553	692	735	658
7	391	73	19	24	33	67	123	578	552	688	735	689
8	387	73	19	24	36	91	123	633	538	683	733	641
9	388	71	21	24	39	104	123	706	541	675	736	559
10	371	69	21	24	42	89	124	685	527	680	737	500
11	354	66	21	24	41	78	123	467	530	667	731	555
12	343	71	22	24	35	61	102	357	500	722	728	551
13	223	73	22	24	28	61	83	368	345	744	743	571
14	95	71	22	24	20	59	98	372	226	741	776	561
15	91	34	22	24	26	60	98	384	162	739	777	550
16	93	19	22	24	28	59	96	485	143	732	769	525
17	93	19	22	24	24	65	102	561	156	692	777	520
18	69	19	22	24	21	73	124	669	171	639	781	544
19	68	19	22	24	27	71	148	718	183	616	778	543
20	69	19	22	24	30	71	145	730	163	649	776	546
21	69	19	22	24	38	72	144	729	158	656	777	548
22	69	19	22	25	50	73	179	732	243	663	802	536
23	69	19	22	26	56	75	165	756	235	702	782	490
24	71	19	22	25	59	73	164	746	229	707	785	479
25	73	19	22	24	68	73	145	740	305	752	800	481
26	73	18	22	24	62	83	167	702	350	731	775	484
27	75	18	23	24	71	99	202	672	424	731	788	489
28	74	18	23	25	75	129	243	663	541	770	761	510
29	73	18	23	25	----------	138	278	639	635	767	746	482
30	74	18	23	25	----------	103	292	497	637	762	745	423
31	74	----------	23	25	----------	98	----------	414	----------	767	747	----------
Total	6,247	1,317	655	751	1,084	2,298	4,264	17,464	11,662	21,732	23,499	16,970
Mean	202	43.9	21.1	24.2	38.7	74.1	142	563	389	701	758	566
Ac-ft	12,390	2,610	1,300	1,490	2,150	4,560	8,460	34,640	23,130	43,100	46,610	33,660

Calendar year 1966 : Max 796 Min 15 Mean 353 Ac-ft 255,600
Water year 1966-67: Max 802 Min 18 Mean 296 Ac-ft 214,100

Table 17.--1670 C-K, 1673 B. Diversions from Jordan River between Jordan Narrows and the Surplus Canal

Locations.--East Jordan Canal (1670 C) diverts from the right bank and the Utah and Salt Lake Canal (1670 D) diverts from the left bank in SE¼NW¼ sec. 26, T. 4 S., R. 1 W. South Jordan Canal (1670 E) and the Jordan and Salt Lake City Canal (1670 F) divert through a common heading on the right bank in NE¼SE¼ sec. 22, T. 4 S., R. 1 W. South Jordan Canal crosses to the left bank about 0.3 mile downstream. Mousley Canal (1670 G) diverts from the right bank in NE¼NE¼ sec. 15, T. 4. S., R. 1 W. Galena Canal (1670 H) diverts from the right bank in SE¼NE¼ sec. 2, T. 4 S., R. 1 W. Beckstead Ditch (1670 I) diverts from the left bank in SE¼SW¼ sec. 26, T. 3 S., R. 1 W. North Jordan Canal (1670 K) diverts from the left bank in NE¼NW¼ sec. 11, T. 3 S., R. 1 W., and Gardner Mill Race (1670 J) diverts from this canal in NE¼NW¼ sec. 35, T. 2 S., R. 1 W., above the measuring weir. Brighton Canal (1673 B) diverts from the left bank in NW¼SW¼ sec. 1, T. 2 S., R. 1 W.

Records available.--Records of combined flow in 10 canals for October 1963 to September 1965 and in the upper nine canals for October 1965 to September 1967 in Utah basic-data releases. Records of daily flows of the principal canals in annual reports of the water commissioner for Utah Lake and Jordan River.

Extremes.--1963-67: Maximum daily discharge, 940 cfs Aug. 22, 1967; minimum daily, 30 cfs Dec. 22, 1966.

Remarks.--The discharge shown is the sum of the first nine diversions described above, all of which are above the gaging station at 9400 South (see table 18). Diversions from the South Jordan Canal to the Utah-Idaho Sugar Company and from Galena Canal to the United States Smelting Refining and Mining Company are not included because most of this water returns to the Jordan River.

There are no diversions between the stations at 9400 South and 5800 South (see table 19). Below 5800 South, Brighton Canal diverts amounts ranging from 0 to about 40 cfs during the irrigation season. No records are available.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	507	126	48	59	64	65	155	365	584	743	902	864
2	510	119	48	60	63	65	157	379	637	774	910	836
3	437	119	48	61	55	65	171	441	674	767	862	812
4	417	118	48	60	56	64	185	537	673	765	832	814
5	423	109	48	60	56	61	180	589	698	785	864	828
6	407	108	48	60	52	63	165	575	686	799	870	784
7	405	105	48	61	52	96	172	645	686	805	875	814
8	400	109	51	60	52	107	174	720	671	812	870	760
9	426	107	47	60	52	120	171	792	674	811	870	696
10	498	105	45	58	52	140	174	768	665	804	868	631
11	476	96	45	58	52	126	170	561	664	791	864	686
12	443	95	46	62	52	106	152	440	597	857	858	680
13	297	97	46	60	52	106	134	446	459	874	870	700
14	198	98	46	60	49	106	145	448	350	884	908	699
15	190	61	37	60	49	105	141	456	273	882	905	681
16	186	46	39	60	54	105	147	560	252	885	889	654
17	184	46	39	60	56	114	148	633	263	857	906	646
18	156	47	37	60	58	122	173	752	265	791	915	665
19	148	47	37	59	62	120	200	803	292	767	912	663
20	147	47	36	61	62	124	197	815	272	794	913	667
21	146	49	32	61	64	123	198	812	265	802	916	634
22	145	51	30	62	65	124	202	815	356	803	940	547
23	146	55	32	63	65	124	226	839	352	855	917	505
24	146	53	48	62	65	120	252	834	355	866	917	491
25	148	53	41	58	65	119	210	828	431	917	932	496
26	143	47	42	60	65	131	227	809	478	896	910	496
27	138	49	56	60	65	146	265	778	551	896	925	500
28	129	37	58	61	65	179	307	778	644	929	898	528
29	132	32	52	61	----------	191	346	757	750	933	870	566
30	135	34	46	64	----------	156	370	632	759	929	875	526
31	136	----------	42	64	----------	152	----------	542	----------	932	874	----------
Total	8,399	2,265	1,366	1,875	1,619	3,545	5,914	20,149	15,276	26,005	27,637	19,869
Mean	271	75.5	44.1	60.5	57.8	114	197	650	509	839	892	662
Ac-ft	16,660	4,490	2,710	3,720	3,210	7,030	11,730	39,960	30,300	51,580	54,820	39,410

Calendar year 1966 : Max 930 Min 30 Mean 396 Ac-ft 286,700
Water year 1966-67 : Max 940 Min 30 Mean 367 Ac-ft 265,600

Table 18.--1672. Jordan River at 9400 South, near South Jordan

Location.--Lat 40°34'5 ", long 111°55'07", on line between secs. 2 and 11, T. 3 S., R. 1 W., about 300 feet downstream from diversion dam at head of North Jordan Canal, and 1.3 miles northeast of South Jordan.

Drainage area.--3,130 sq mi, approximately; (including 255 sq mi in closed basin in Cedar Valley, Utah County).

Records available.--July 1965 to September 1967.

Gage.--Water-stage recorder. Altitude of gage is 4,300 ft (from topographic map).

Extremes.--1965-67: Maximum daily discharge, 400 cfs Mar. 9, 1966; minimum daily, about 0.5 cfs Mar. 11-14, June 27, 28, 1967.

Remarks.--Records fair. Flow is regulated by gates at diversion structure 300 feet upstream. Many diversions above the station for irrigation and municipal and industrial supplies.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.5	1.9	2.2	1.6	6.5	30	2.5	2.5	1.9	1.6	40	12
2	5.0	1.9	2.2	1.6	3.7	30	1.9	1.9	1.9	1.6	47	12
3	117	1.9	2.5	1.6	9.8	25	1.6	1.3	1.9	4.0	41	6.2
4	132	1.9	2.8	1.3	17	25	1.6	2.2	1.9	7.3	16	5.8
5	124	1.9	2.5	1.3	20	20	1.6	3.1	1.9	5.8	12	2.8
6	128	1.9	3.7	1.3	19	20	1.3	2.5	2.8	2.2	14	11
7	129	1.9	4.0	1.3	19	12	1.1	1.6	6.9	6.2	24	14
8	35	1.9	2.5	1.3	19	5	1.2	1.3	8.4	3.7	18	19
9	6.5	1.9	2.2	1.3	20	2	1.5	2.2	6.5	1.9	16	16
10	6.2	1.9	2.2	1.6	21	1	1.5	6.9	11	1.3	19	13
11	2.8	1.9	2.2	1.6	20	.5	1.5	28	9.8	1.3	18	17
12	3.7	1.9	2.2	1.9	17	.5	1.5	14	16	1.6	13	15
13	26	1.6	2.2	1.9	15	.5	1.5	11	59	1.9	13	19
14	13	1.6	2.2	2.2	13	.5	1.5	8.4	32	1.9	13	28
15	8.9	1.6	2.2	2.5	9.4	.6	1.5	3.7	12	4.3	12	22
16	4.7	17	2.2	2.5	15	.7	3.0	1.9	10	6.9	6.2	10
17	3.7	3.1	2.2	2.5	15	.7	2.0	1.9	9.8	46	6.2	5.8
18	3.4	2.8	2.2	2.2	15	.6	1.5	2.8	6.2	34	9.8	1.9
19	3.1	2.8	2.2	2.2	15	1.9	1.5	9.4	3.7	17	6.2	2.8
20	2.5	2.8	2.2	1.9	15	1.9	1.5	7.3	9.4	6.2	12	6.8
21	2.8	2.8	2.2	2.2	20	1.6	1.5	6.2	5.8	2.8	11	70
22	2.2	2.8	2.5	2.5	25	1.1	1.5	5.4	5.0	1.6	15	169
23	1.9	2.8	2.5	2.8	30	1.3	2.0	5.4	5.8	2.8	6.5	172
24	2.5	2.8	2.2	2.8	30	1.6	2.0	6.5	5.8	4.0	2.2	156
25	2.5	2.8	1.9	3.7	30	1.6	1.5	6.5	.9	9.4	7.3	151
26	1.9	2.8	1.9	2.8	30	1.6	1.5	19	.6	9.8	7.3	151
27	1.9	2.5	1.9	2.8	30	1.6	1.3	15	.5	12	11	72
28	1.9	2.2	1.9	2.5	30	1.6	1.3	10	.5	21	12	28
29	1.9	2.2	1.9	3.1	----------	1.9	1.9	9.8	4.0	11	17	27
30	1.9	2.2	1.9	6.2	----------	2.5	2.2	10	1.6	14	16	24
31	1.9	----------	1.6	12	----------	5.0	----------	4.3	----------	28	21	----------
Total	780.3	82.0	71.2	79.0	529.4	199.6	49.5	212.0	243.5	273.1	482.7	1,260.2
Mean	25.2	2.73	2.30	2.55	18.9	6.44	1.65	6.84	8.12	8.81	15.6	42.0
Ac-ft	1,550	163	141	157	1,050	396	98	420	483	542	957	2,500

Calendar year 1966: Max 400 Min 1.6 Mean 51.2 Ac-ft 37,060
Water year 1966-67: Max 172 Min about 0.5 Mean 11.7 Ac-ft 8,460

Note.--No gage-height record Feb. 17 to Mar. 14, Apr. 8-27; discharge estimated.

Table 19.--1673. Jordan River at 5800 South, near Murray

Location.--Lat 40°38'43", long 111°55'18", in NE¼SW¼ sec. 14, T. 2 S., R. 1 W., at bridge at 5800 South, and 2.3 miles southwest of Murray.

Drainage area.--3,240 sq mi, approximately; (including 255 sq mi in closed basin in Cedar Valley, Utah County).

Records available.--July 1965 to September 1967.

Gage.--Water-stage recorder. Altitude of gage is 4,260 ft (from topographic map).

Extremes.--1965-67: Maximum daily discharge, 503 cfs Mar. 9, 1966; minimum daily, 68 cfs Apr. 17, 1966.

Remarks.--Records fair. Flow is affected by diversion structure at head of North Jordan Canal. Many diversions above the gage for irrigation and municipal and industrial supplies.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	145	119	104	100	128	131	100	100	135	110	179	176
2	155	118	104	100	121	129	95	98	132	110	200	170
3	241	121	108	100	115	122	92	98	131	110	206	158
4	225	126	112	100	113	117	96	102	132	120	183	160
5	237	129	109	100	112	110	101	105	126	120	169	158
6	237	128	112	100	110	106	101	102	126	140	172	176
7	239	126	117	100	109	109	101	86	134	140	181	183
8	225	132	115	100	106	85	98	86	142	130	167	204
9	232	132	110	100	106	78	95	85	142	130	162	210
10	194	132	110	100	108	77	95	105	153	130	162	198
11	162	131	110	98	108	77	90	167	153	120	163	194
12	163	129	110	100	106	76	90	142	192	110	158	212
13	241	129	110	100	104	77	85	134	228	110	153	210
14	208	128	110	101	100	78	80	122	187	120	156	206
15	189	122	110	104	97	77	90	112	158	120	153	204
16	185	124	110	105	97	76	100	102	140	130	146	183
17	178	106	110	104	96	76	95	95	130	158	142	178
18	165	109	110	101	97	77	90	91	120	169	150	165
19	162	112	110	97	96	80	90	110	120	155	146	162
20	158	112	100	95	96	80	90	113	120	156	162	165
21	158	110	100	96	98	78	90	113	120	153	162	191
22	158	105	100	100	105	76	90	113	110	148	160	258
23	158	101	100	104	113	77	90	113	110	150	158	278
24	158	102	100	102	125	77	90	112	110	156	150	260
25	158	104	100	97	125	78	90	110	110	156	151	265
26	155	104	100	95	131	79	90	129	100	156	156	270
27	150	104	100	98	125	77	90	138	100	153	163	241
28	137	105	100	101	131	80	91	142	100	162	169	183
29	131	105	100	102	----------	86	93	160	100	163	187	170
30	129	104	100	105	----------	90	98	181	100	165	191	178
31	129	----------	100	118	----------	90	----------	148	----------	165	189	----------
Total	5,562	3,509	3,291	3,123	3,078	2,726	2,786	3,614	3,961	4,315	5,146	5,966
Mean	179	117	106	101	110	87.9	92.9	117	132	139	166	199
Ac-ft	11,030	6,960	6,530	6,190	6,110	5,410	5,530	7,170	7,860	8,560	10,210	11,830

Calendar year 1966 : Max 503 Min 68 Mean 161 Ac-ft 116,600
Water year 1966-67 : Max 278 Min 76 Mean 129 Ac-ft 93,390

Note.--No gage-height record Dec. 9 to Jan. 9, Apr. 9-27, June 16 to July 16; discharge estimated.

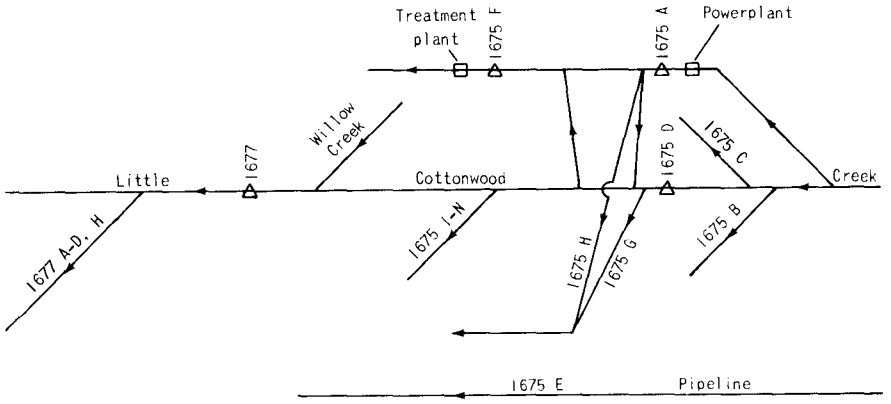

Figure 3.—Schematic diagram showing relation of flows in Little Cottonwood Creek basin. Diversions represented by 1675 I-N and 1677 A-D, H include those from both sides of the creek. Canals 1677 A-D at times are supplied with water from the East Jordan and the Jordan and Salt Lake City Canals.

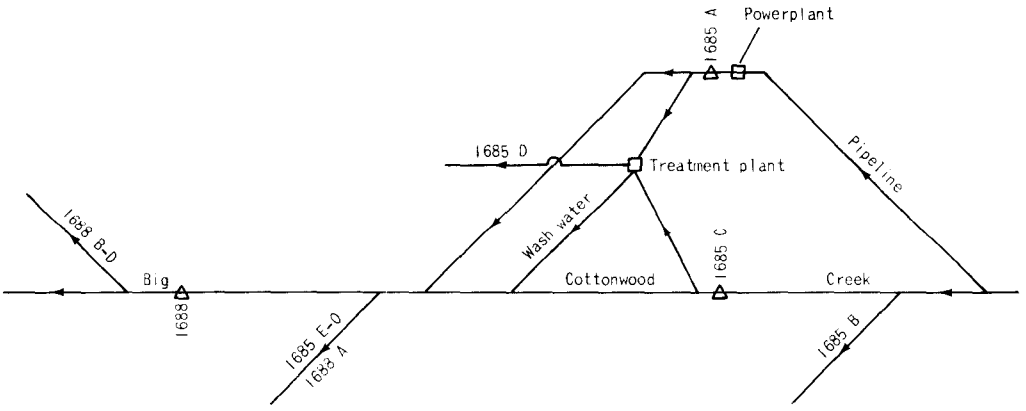

Figure 4.—Schematic diagram showing relation of flows in Big Cottonwood Creek basin. Diversions represented by 1685 E-O and 1688 A include those from both sides of the creek. At times they are supplied with water from the East Jordan Canal and well (D-2-1)14ccd-2. Canals 1688 B-D at times are supplied with water from the Jordan and Salt Lake City Canal.

Table 20.--1675. Little Cottonwood Creek near Salt Lake City

Location.--Lat 40°34'40", long 111°47'50", in NE¼NE¼ sec. 11, T. 3 S., R. 1 E., at mouth of canyon, 100 ft west of Wasatch Drive, 2 miles downstream from Wasatch Resort, and 14 miles southeast of Salt Lake City.

Drainage area.--27.4 sq mi.

Records available.--October 1898 to September 1967 (record intermittent prior to 1912). Monthly discharge only for October 1898 to September 1960 published in WSP 1314 and 1734. Records for October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Gage.--Water-stage recorder and Parshall flume on the creek and separate weirs or rated gates on pipelines and ditches that bypass the flume.

Extremes.--1912-13, 1915-67: Maximum daily discharge, 762 cfs June 11, 1921; minimum daily, 3.0 cfs Dec. 26, 1966.

Remarks.--Some storage and regulation in several small lakes and reservoirs. Two diversions for irrigation above the station, one of which carries water past the station. Diversions above the station for powerplant and municipal water supply. Discharge is the combined discharge of Murray City powerplant pipeline (1675 A), irrigation diversions (1675 B, C), Little Cottonwood Creek (1675 D), and Beaver Pond Springs pipeline (1675 E). (See fig. 3 and tables 21-24.)

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	15	14	13	14	14	20	21	183	372	70	39
2	19	15	14	13	13	14	20	22	176	370	64	38
3	20	15	16	14	12	16	17	19	212	334	69	38
4	18	15	15	13	11	16	21	19	270	341	69	36
5	16	15	15	14	11	16	18	20	353	301	69	35
6	18	15	16	13	13	16	17	24	369	286	69	36
7	16	15	14	13	14	16	26	24	316	233	70	34
8	15	18	13	13	14	16	23	28	282	219	68	31
9	15	17	9.9	13	15	7.0	22	38	276	225	63	25
10	15	15	14	13	14	6.9	21	53	281	222	64	34
11	15	16	15	13	11	14	21	47	280	200	64	35
12	16	15	15	13	14	14	21	45	292	181	55	32
13	17	16	15	13	14	14	21	46	292	173	57	31
14	18	16	15	13	14	16	22	43	257	176	55	31
15	16	16	14	12	12	16	22	41	227	162	54	30
16	16	15	13	13	14	16	23	41	254	162	54	31
17	16	15	14	13	14	17	22	66	264	176	52	31
18	17	17	14	13	14	14	23	98	308	160	49	31
19	17	16	12	12	14	14	25	133	368	139	45	30
20	19	16	11	12	13	13	23	171	431	131	44	30
21	17	16	14	13	14	16	24	214	446	119	44	29
22	16	15	11	13	15	19	22	260	467	110	44	28
23	15	15	11	12	15	18	16	308	459	106	41	28
24	15	13	11	13	15	15	17	355	371	101	41	32
25	15	11	6.6	9.7	15	23	22	412	383	87	40	27
26	15	13	3.0	12	14	22	23	332	408	77	39	26
27	17	12	9.9	12	14	20	24	321	417	76	39	26
28	16	14	13	12	14	19	27	321	412	72	38	25
29	16	15	13	12	----------	19	23	289	406	70	39	25
30	16	15	10	12	----------	17	23	243	385	69	41	25
31	16	----------	13	13	----------	18	----------	198	----------	67	44	----------
Total	509	452	394.4	392.7	381	491.9	649	4,252	9,845	5,517	1,654	929
Mean	16.4	15.1	12.7	12.7	13.6	15.9	21.6	137	328	178	53.4	31.0
Ac-ft	1,010	897	782	779	756	976	1,290	8,430	19,530	10,940	3,280	1,840

Calendar year 1966 : Max 341 Min 3.0 Mean 49.6 Ac-ft 35,920
Water year 1966-67 : Max 467 Min 3.0 Mean 69.8 Ac-ft 50,510

Table 21.--1675 A. Murray City powerplant pipeline above Little Cottonwood Creek treatment plant, near Salt Lake City

Location.--In NE¼SW¼ sec. 2, T. 3 S., R. 1 E., immediately below the Murray City powerplant, and 13.5 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Totalizing meters on the diversion to the Little Cottonwood Creek water treatment plant, 4-foot Lyman weir on the Sandy siphon (1675 H), and 24-inch rated gate on the Farmers pipeline.

Extremes.--1963-67: Maximum daily discharge, about 37 cfs (capacity of pipeline) in most years; no flow Dec. 26, 1966.

Remarks.--Water diverted from Little Cottonwood Creek in NE¼SW¼ sec. 8, T. 3 S., R. 2 E. (unsurveyed), about 3.5 miles upstream. Most of the flow is delivered to the treatment plant but at times part of the flow is diverted into the Sandy siphon (1675 H) and (or) the Farmers pipeline, which returns water to the creek. (See fig. 3 and tables 25, 26.)

Cooperation.--Record derived from data furnished by the Salt Lake City Water Department and the Metropolitan Water District of Salt Lake City.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	12	11	10	11	12	17	18	34	18	34	23
2	15	12	11	9.7	10	12	17	18	34	20	30	24
3	16	12	13	11	9.6	13	14	18	34	18	35	24
4	14	12	12	10	8.4	14	18	18	34	19	35	23
5	13	12	12	11	8.7	14	15	19	34	19	36	22
6	14	12	13	10	10	14	14	20	34	16	36	23
7	13	12	12	10	11	14	23	20	34	17	36	22
8	12	15	11	10	11	14	20	21	34	17	36	19
9	12	14	8.3	10	12	4.4	19	27	34	17	36	13
10	12	12	11	10	11	4.3	18	28	34	17	36	23
11	12	13	12	10	8.8	12	18	28	34	17	34	25
12	13	12	12	10	11	12	18	28	34	18	26	22
13	13	13	12	9.9	11	12	18	29	34	19	30	22
14	14	13	12	9.8	11	13	19	26	34	18	28	22
15	13	13	11	9.6	9.2	13	19	26	34	18	26	21
16	13	12	10	9.9	11	13	20	26	34	18	26	23
17	13	12	11	9.7	11	14	19	34	34	17	25	23
18	14	14	11	9.7	11	11	20	34	34	36	25	23
19	14	13	8.9	9.5	11	11	22	34	34	36	23	22
20	16	13	7.6	9.6	10	10	20	34	34	36	23	22
21	14	12	11	9.8	11	13	20	34	34	36	23	21
22	13	12	8.4	9.9	12	16	19	34	34	36	25	20
23	12	12	7.7	9.6	12	16	13	34	34	36	24	21
24	12	9.8	7.9	9.9	12	12	14	34	34	36	23	24
25	12	8.3	3.6	7.0	12	20	19	34	34	36	23	20
26	12	9.5	0	9.0	12	20	20	34	34	36	22	19
27	14	9.3	6.9	9.7	12	17	21	34	34	36	22	19
28	13	11	10	9.5	12	16	24	34	34	36	21	18
29	13	12	10	9.6	----------	16	19	34	34	36	23	18
30	13	12	7.1	9.5	----------	14	19	34	34	36	22	18
31	13	----------	10	9.9	----------	15	----------	34	----------	36	24	----------
Total	409	360.9	304.4	302.8	302.7	411.7	556	880	1,020	807	868	639
Mean	13.2	12.0	9.82	9.77	10.8	13.3	18.5	28.4	34.0	26.0	28.0	21.3
Ac-ft	811	716	604	601	600	817	1,100	1,750	2,020	1,600	1,720	1,270

Calendar year 1966: Max 37 Min 0 Mean 19.7 Ac-ft 14,240
Water year 1966-67 : Max 36 Min 0 Mean 18.8 Ac-ft 13,610

Table 22.--1675 B, C. Irrigation diversions from Little Cottonwood Creek above the gage (1675 D)

Location.--South Despain Ditch (1675 B) diverts from the left bank in NE¼SE¼ sec. 12, T. 3 S., R. 1 E. North Despain Ditch (1675 C) diverts from the right bank in SW¼NE¼ sec. 12, T. 3 S., R. 1 E.

Records available.--October 1963 to September 1967. Records of individual diversions for previous years in the files of the Salt Lake City Water Department.

Extremes.--1963-67: Maximum daily discharge, 19 cfs July 3, 1965; no flow Apr. 1-19, 1965.

Remarks.--The record herein is the combined discharge of the two diversions described above.

Cooperation.--Records of individual diversions furnished by the Salt Lake City Water Department.

Correction.--The maximum daily discharge during water year 1965-66 was 14 cfs instead of 19 cfs indicated at the bottom of table 21 in Utah Basic-Data Release 13.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	4.4	15	9.4	2.5
2	.2	.2	.2	.2	.2	.2	.2	.5	8.8	15	9.0	2.4
3	.2	.2	.2	.2	.2	.2	.2	.5	9.0	13	8.6	2.4
4	.2	.2	.2	.2	.2	.2	.2	.5	11	16	8.3	2.5
5	.2	.2	.2	.2	.2	.2	.2	.5	14	16	8.3	2.5
6	.2	.2	.2	.2	.2	.2	.2	.5	16	18	9.1	2.5
7	.2	.2	.2	.2	.2	.2	.2	.5	15	18	9.0	2.6
8	.2	.2	.2	.2	.2	.2	.2	.5	13	16	7.8	2.6
9	.2	.2	.2	.2	.2	.2	.2	.5	11	16	7.6	2.4
10	.2	.2	.2	.2	.2	.2	.2	.5	14	17	7.4	2.2
11	.2	.2	.2	.2	.2	.2	.2	.5	13	16	7.4	2.4
12	.2	.2	.2	.2	.2	.2	.2	.5	12	14	7.8	2.5
13	.2	.2	.2	.2	.2	.2	.2	.5	5.7	13	7.6	2.4
14	.2	.2	.2	.2	.2	.2	.2	.7	3.2	13	7.5	2.5
15	.2	.2	.2	.2	.2	.2	.2	.7	2.8	13	7.9	2.4
16	.2	.2	.2	.2	.2	.2	.2	.7	1.3	13	7.8	2.4
17	.2	.2	.2	.2	.2	.2	.2	.8	7.9	13	7.5	2.4
18	.2	.2	.2	.2	.2	.2	.5	1.8	.9	13	7.5	2.4
19	.2	.2	.2	.2	.2	.2	.5	1.7	4.1	9.8	7.5	2.4
20	.2	.2	.2	.2	.2	.2	.5	4.0	1.4	9.1	7.5	2.4
21	.2	.2	.2	.2	.2	.2	.6	15	.8	6.8	7.5	2.4
22	.2	.2	.2	.2	.2	.2	.5	16	4.0	7.1	6.6	2.4
23	.2	.2	.2	.2	.2	.2	.5	16	4.0	5.0	6.2	2.4
24	.2	.2	.2	.2	.2	.2	.5	16	4.5	5.6	6.6	2.5
25	.2	.2	.2	.2	.2	.2	.5	18	4.9	5.6	6.5	2.3
26	.2	.2	.2	.2	.2	.2	.5	18	16	5.3	6.5	2.4
27	.2	.2	.2	.2	.2	.2	.5	18	7.0	6.6	6.5	2.4
28	.2	.2	.2	.2	.2	.2	.5	18	6.3	6.0	6.5	2.4
29	.2	.2	.2	.2	----------	.2	.5	11	8.6	6.0	6.5	2.4
30	.2	.2	.2	.2	----------	.2	.5	9.8	14	5.9	6.4	2.4
31	.2	----------	.2	.2	----------	.2	----------	7.0	----------	5.5	6.5	----------
Total	6.2	6.0	6.2	6.2	5.6	6.2	10.0	179.7	238.6	352.3	232.8	72.8
Mean	0.20	0.20	0.20	0.20	0.20	0.20	0.33	5.80	7.95	11.4	7.51	2.43
Ac-ft	12	12	12	12	11	12	20	356	473	699	462	144

Calendar year 1966: Max 14 Min 0.2 Mean 1.83 Ac-ft 1,320
Water year 1966-67: Max 18 Min 0.2 Mean 3.08 Ac-ft 2,220

Table 23.--1675 D. Little Cottonwood Creek (channel only) near Salt Lake City

Location.--Lat 40°34'40", long 111°47'50", in NE¼NE¼ sec.11, T. 3 S., R. 1 E., at mouth of canyon 100 ft west of Wasatch Drive, 2 miles downstream from Wasatch Resort, and 14 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Water-stage recorder and Parshall flume. Altitude of the gage is 5,080 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 455 cfs June 5, 1964; no flow Jan. 1 to Apr. 20, 1964.

Remarks.--Diversions to Murray City powerplant pipeline (1675 A) and two irrigation ditches (1675 B, C) above the gage. Water in pipeline and one of the irrigation ditches bypasses this station. Water in the Beaver Pond Springs pipeline also bypasses this station. (See fig. 3.)

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	0.6	0.6	0.4	0.2	0.4	0.6	143	335	22	9.0
2	.6	.6	.6	.6	.4	.2	.4	.6	132	331	21	7.7
3	.6	.6	.8	.6	.2	.2	.2	.6	168	299	21	7.3
4	.6	.6	.6	.6	.2	.2	.2	.6	223	302	21	6.5
5	.6	.6	.6	.6	.2	.2	.4	.6	301	262	20	6.5
6	.6	.6	.6	.4	.2	.2	.4	.6	315	248	19	6.1
7	.6	.6	.6	.4	.2	.2	.4	.6	263	194	21	5.7
8	.6	.8	.6	.4	.2	.2	.4	4.5	234	182	20	5.7
9	.6	.8	.6	.4	.2	.2	.4	7.7	227	188	15	5.3
10	.6	.8	.6	.4	.2	.2	.4	22	229	184	16	4.9
11	.6	.8	.6	.4	.2	.2	.4	16	229	163	18	3.3
12	.6	.8	.6	.4	.2	.2	.4	14	242	145	17	3.3
13	1.2	.8	.6	.6	.2	.2	.4	14	248	137	15	2.9
14	.8	.8	.6	.6	.2	.4	.4	14	216	140	15	2.6
15	.8	.8	.6	.6	.2	.4	.4	12	187	126	16	2.6
16	.6	.8	.6	.8	.2	.4	.6	12	215	126	16	2.3
17	.6	.8	.6	.6	.2	.4	.4	28	218	141	15	2.0
18	.6	.8	.6	.6	.2	.4	.4	59	270	106	12	2.0
19	.6	.8	.6	.6	.2	.6	.4	95	326	89	10	2.0
20	.6	.8	.6	.6	.2	.6	.4	130	393	81	9.0	1.7
21	.6	1.0	.6	.6	.2	.4	.6	162	407	72	9.0	1.7
22	.6	.6	.6	.4	.2	.4	.6	207	425	62	8.1	1.7
23	.6	.6	.6	.4	.2	.2	.6	255	417	60	6.9	1.7
24	.6	.6	.6	.4	.2	.4	.6	302	329	55	6.9	1.7
25	.6	.6	.6	.4	.2	.4	.4	357	340	41	6.9	1.4
26	.6	.6	.6	.4	.2	.2	.4	277	355	31	6.5	1.4
27	.6	.6	.6	.4	.2	.2	.4	268	372	29	6.1	1.4
28	.6	.6	.6	.6	.2	.2	.6	268	368	25	6.1	1.2
29	.6	.6	.6	.6	----------	.6	.8	243	359	24	5.3	1.2
30	.6	.6	.6	.6	----------	.4	.8	198	333	23	8.5	1.2
31	.6	----------	.6	.6	----------	.4	----------	157	----------	21	9.0	----------
Total	19.6	21.0	18.8	16.2	6.0	9.6	13.6	3,126.4	8,484	4,222	418.3	105.0
Mean	0.63	0.70	0.61	0.52	0.21	0.31	0.45	101	283	136	13.5	3.50
Ac-ft	39	42	37	32	12	19	27	6,200	16,830	8,370	830	208

Calendar year 1966: Max 294 Min 0.4 Mean 25.4 Ac-ft 18,380
Water year 1966-67: Max 425 Min 0.2 Mean 45.1 Ac-ft 32,650

Table 24.--1675 E. Beaver Pond Springs pipeline near Salt Lake City

Location.--In NE¼NE¼ sec. 11, T. 3 S., R. 1 E., about 100 feet south of gage on Little Cottonwood Creek (1675 D) and 100 ft west of Wasatch Drive.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Thirty-inch Cipolletti weir.

Extremes.--1963-67: Maximum daily discharge, 5.2 cfs July 23-31, 1965; no flow May 3-5, 1967.

Remarks.--Records show water pumped to water-supply system for Midvale, Sandy City, and the Union and Jordan Irrigation Company from four wells (D-3-1)12acd-1, 12adc-1, 12bdc-1, and 12cab-1. A small diversion from the pipeline above the weir serves the village of Granite. The springs practically ceased flowing and were abandoned in August 1963. The quantity of water pumped is somewhat greater than the natural spring flow.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	2.4	2.2	2.2	2.2	2.1	2.2	2.3	1.4	4.1	4.5	4.1
2	2.8	2.4	2.2	2.2	2.2	2.1	2.2	2.4	1.5	4.1	4.5	4.1
3	2.8	2.4	2.2	2.2	2.2	2.1	2.2	0	1.5	4.1	4.5	4.1
4	2.7	2.4	2.2	2.2	2.2	2.1	2.2	0	1.5	4.1	4.5	4.1
5	2.7	2.4	2.2	2.2	2.2	2.1	2.2	0	3.9	4.1	4.5	4.1
6	2.7	2.4	2.2	2.2	2.2	2.1	2.2	2.4	3.9	4.1	4.5	4.1
7	2.7	2.4	.8	2.1	2.2	2.1	2.2	2.5	3.9	4.4	4.5	4.1
8	2.6	2.4	.8	2.1	2.2	2.1	2.2	2.5	1.5	4.4	4.5	4.1
9	2.6	2.4	.8	2.1	2.2	2.1	2.2	2.5	3.9	4.4	4.4	4.0
10	2.5	2.4	2.2	2.1	2.2	2.1	2.2	2.6	3.9	4.4	4.4	4.0
11	2.5	2.4	2.2	2.1	2.2	2.1	2.2	2.6	3.9	4.4	4.4	3.9
12	2.5	2.4	2.2	2.1	2.2	2.1	2.2	2.6	3.9	4.4	4.4	3.9
13	2.5	2.4	2.2	2.1	2.2	2.1	2.2	2.6	3.9	4.4	4.4	3.9
14	2.5	2.4	2.2	2.1	2.2	2.1	2.2	2.6	3.5	4.5	4.3	3.8
15	2.5	2.4	2.2	2.1	2.2	2.1	2.2	2.6	3.6	4.5	4.3	3.8
16	2.5	2.4	2.2	2.1	2.2	2.1	2.2	2.6	3.6	4.5	4.3	3.7
17	2.5	2.4	2.2	2.1	2.2	2.1	2.2	2.7	3.6	4.5	4.2	3.7
18	2.5	2.4	2.2	2.1	2.2	2.1	2.2	2.7	3.6	4.5	4.2	3.7
19	2.5	2.4	2.2	2.1	2.2	2.1	2.3	2.7	3.6	4.5	4.2	3.7
20	2.5	2.4	2.2	2.1	2.2	2.1	2.3	2.8	2.3	4.5	4.2	3.6
21	2.5	2.3	2.2	2.1	2.2	2.1	2.3	2.8	4.1	4.5	4.2	3.6
22	2.5	2.3	2.2	2.1	2.2	2.1	2.3	3.0	4.1	4.5	4.2	3.6
23	2.5	2.3	2.2	2.1	2.2	2.1	2.3	3.0	3.9	4.5	4.2	3.4
24	2.5	2.3	2.2	2.1	2.2	2.1	2.3	3.0	3.9	4.5	4.2	3.4
25	2.4	2.3	2.2	2.1	2.2	2.1	2.3	3.0	3.9	4.5	4.1	2.9
26	2.4	2.3	2.2	2.1	2.1	2.1	2.3	3.0	3.3	4.5	4.1	3.5
27	2.4	2.3	2.2	2.1	2.1	2.2	2.3	1.4	3.8	4.5	4.1	3.5
28	2.4	2.2	2.2	2.1	2.1	2.2	2.3	1.4	4.1	4.5	4.1	3.5
29	2.4	2.2	2.2	2.1	----------	2.2	2.3	1.4	4.1	4.5	4.1	3.4
30	2.4	2.2	2.2	2.1	----------	2.2	2.3	1.4	4.1	4.5	4.1	3.4
31	2.4	----------	2.2	2.1	----------	2.2	----------	0	----------	4.5	4.1	----------
Total	78.7	70.7	64.0	65.7	61.3	65.6	67.2	67.1	101.7	136.4	133.2	112.7
Mean	2.54	2.36	2.06	2.12	2.19	2.12	2.24	2.16	3.39	4.40	4.30	3.76
Ac-ft	156	140	127	130	122	130	133	133	202	271	264	224

Calendar year 1966 : Max 4.1 Min 2.3 Mean 2.78 Ac-ft 2,010
Water year 1966-67: Max 4.5 Min 0 Mean 2.81 Ac-ft 2,030

Table 25.--1675 F. Diversion to Little Cottonwood Creek treatment plant, near Salt Lake City

Location.--In NW¼SE¼ sec. 2, T. 3 S., R. 1 E., at water treatment plant of the Metropolitan Water District of Salt Lake City, immediately below Murray City powerplant and 13.5 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1967. Records for previous years in the files of Salt Lake City Water Department and the Metropolitan Water District of Salt Lake City.

Gage.--Totalizing meter in treatment plant.

Extremes.--1963-67: Maximum daily discharge, 76 cfs June 2, 1966; no flow on many days.

Remarks.--Discharge includes water diverted from Little Cottonwood Creek through the Murray City powerplant pipeline (1675 A) and from the creek about 400 ft downstream from the gage on Little Cottonwood Creek (1675 D). (See fig. 3.)

Cooperation.--Record furnished by the Metropolitan Water District of Salt Lake City.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	10	8.9	8.2	9.2	9.9	5.2	0	0	42	45	19
2	5.8	11	9.2	7.9	8.4	10	4.6	0	0	25	37	18
3	6.9	10	11	8.9	7.8	11	9.4	0	0	26	45	18
4	5.2	10	9.8	8.6	6.6	12	14	0	7.1	36	44	17
5	4.6	9.8	10	8.9	6.9	12	11	0	17	41	41	17
6	4.8	9.9	11	8.3	8.3	12	9.7	0	0	40	38	17
7	4.4	10	10	8.7	9.6	12	19	0	2.7	1.3	37	16
8	3.4	13	9.5	8.4	8.8	12	16	0	9.0	14	40	13
9	2.7	12	6.5	8.3	9.8	2.6	8.5	0	9.2	24	37	7.2
10	2.8	10	8.7	8.2	9.4	2.5	7.7	0	11	41	35	8.6
11	3.6	12	10	8.4	7.0	10	7.8	0	17	54	32	11
12	4.1	10	10	8.4	9.5	10	8.1	0	4.1	52	24	16
13	4.0	11	9.8	8.1	9.6	11	7.9	.6	0	49	28	16
14	1.6	11	9.8	8.0	9.6	11	8.9	0	0	47	26	16
15	0	11	9.1	7.8	7.4	11	9.1	0	0	51	24	15
16	0	10	8.5	8.1	8.9	11	10	0	0	44	24	14
17	2.4	10	9.4	7.9	8.8	12	9.6	2.2	0	2.8	23	14
18	12	12	9.4	7.9	9.2	7.1	11	7.6	0	6.1	23	14
19	6.3	11	7.1	7.7	9.3	6.6	9.0	12	2.4	12	21	14
20	8.7	12	5.8	7.8	8.5	5.8	6.9	6.7	6.8	34	21	13
21	12	11	9.2	8.0	9.2	8.8	6.9	20	7.8	50	19	13
22	11	10	6.6	8.1	10	12	6.5	19	13	50	18	12
23	10	10	5.9	7.8	9.8	12	0	41	9.2	39	17	8.7
24	10	8.1	6.1	8.1	9.8	8.0	1.6	31	2.0	31	16	11
25	10	6.5	3.6	5.2	10	7.6	7.8	.3	3.9	49	15	13
26	10	7.7	0	7.2	10	7.7	7.8	0	10	47	14	12
27	9.7	7.5	5.1	7.9	9.8	5.3	8.9	0	38	54	14	12
28	8.4	9.5	8.4	7.7	9.8	3.7	4.6	.2	12	54	14	11
29	11	9.8	8.5	7.8	----------	4.4	0	0	10	54	15	11
30	11	9.9	5.3	7.7	----------	6.6	0	0	51	50	18	11
31	11	----------	8.4	8.1	----------	8.5	----------	0	----------	46	19	----------
Total	200.2	305.7	250.6	248.1	250.9	276.1	237.5	140.6	243.2	1,166.2	824	408.5
Mean	6.46	10.2	8.08	8.00	8.96	8.91	7.92	4.54	8.11	37.6	26.6	13.6
Ac-ft	397	606	497	492	498	548	471	279	482	2,310	1,630	810

Calendar year 1966 : Max 76 Min 0 Mean 13.8 Ac-ft 9,990
Water year 1966-67: Max 54 Min 0 Mean 12.5 Ac-ft 9,020

Table 26.--1675 G-N. Irrigation diversions from Little Cottonwood Creek between gaging stations 1675 D and 1677

Locations.--Sandy Ditch (1675 G) diverts from the left bank in NE¼NE¼ sec. 11, T. 3 S., R. 1 E. Sandy siphon (1675 H) diverts from the Murray City powerplant tailrace in NE¼SE¼ sec. 2, T. 3 S., R. 1 E. Thompson (1675 I) and Lym (1675 J) Ditches divert from the left bank in NW¼SW¼ sec. 2, T. 3 S., R. 1 E. Nichols and Last Chance Ditch (1675 K) diverts from Little Cottonwood Creek cutoff ditch (1675 T) in SE¼NW¼ sec. 2, T. 3 S., R. 1 E. Johnson Ditch (1675 L) diverts from Little Cottonwood Creek cutoff ditch in NE¼SE¼ sec. 34, T. 2 S., R. 1 E. Richards Ditch (1675 M) diverts from the left bank in SW¼NE¼ sec. 34, T. 2 S., R. 1 E. Greenwood Ditch (1675 N) diverts from the right bank in NE¼NW¼ sec. 34, T. 2 S., R. 1 E.

Records available.--October 1963 to September 1967. Records of individual diversions for previous years in the files of the Little Cottonwood Creek Water Commissioner and of the Salt Lake City Water Department.

Extremes.--1963-67: Maximum daily discharge, 125 cfs June 16, 1964 and July 5, 1965; no flow on many days.

Remarks.--The record herein is the combined discharge of the eight diversions.

Cooperation.--Records of individual diversions furnished by the water commissioner and the water department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.7	1.8	1.8	1.8	1.8	1.8	1.8	4.8	92	108	13	7.7
2	5.7	1.8	1.8	1.8	1.8	1.8	1.8	4.9	90	108	11	7.7
3	5.7	1.8	1.8	1.8	1.8	1.8	0	4.9	88	108	12	7.6
4	5.7	1.8	1.8	1.8	1.8	1.8	0	4.9	106	110	12	7.5
5	5.7	1.8	1.8	1.8	1.8	1.8	0	5.2	105	108	11	7.5
6	5.7	1.8	1.8	1.8	1.8	1.8	0	5.2	93	100	11	7.5
7	5.7	1.8	1.8	1.8	1.8	1.8	0	5.2	99	96	11	7.5
8	5.4	1.8	1.8	1.8	1.8	1.8	0	7.6	98	93	11	7.5
9	5.4	1.8	1.8	1.8	1.8	1.8	0	11	93	88	10	7.5
10	5.4	1.8	1.8	1.8	1.8	1.8	0	19	99	85	9.7	7.5
11	5.4	1.8	1.8	1.8	1.8	1.8	0	19	103	99	9.9	7.5
12	5.4	1.8	1.8	1.8	1.8	1.8	0	18	90	81	12	7.2
13	5.4	1.8	1.8	1.8	1.8	1.8	0	18	88	80	11	7.2
14	5.4	1.8	1.8	1.8	1.8	1.8	0	18	76	83	9.6	6.8
15	5.4	1.8	1.8	1.8	1.8	1.8	0	18	78	79	9.3	6.8
16	3.6	1.8	1.8	1.8	1.8	1.8	0	18	79	84	8.6	6.6
17	3.6	1.8	1.8	1.8	1.8	1.8	0	19	82	89	8.4	6.6
18	3.6	1.8	1.8	1.8	1.8	1.8	0	29	86	72	7.2	6.6
19	3.6	1.8	1.8	1.8	1.8	1 8	0	46	86	67	8.4	6.6
20	3.6	1.8	1.8	1.8	1.8	1.8	0	64	90	60	8.0	6.6
21	3.6	1.8	1.8	1.8	1.8	1.8	1.3	90	78	48	8.6	6.6
22	3.6	1.8	1.8	1.8	1.8	1.8	1.3	90	84	42	7.7	6.2
23	3.6	1.8	1.8	1.8	1.8	1.8	.2	105	92	62	7.7	5.6
24	3.6	1.8	1.8	1.8	1.8	1.8	2.1	94	91	48	7.7	5.2
25	3.6	1.8	0	1.8	1.8	1.8	6.0	100	92	35	7.7	5.4
26	3.6	1.8	0	1.8	1.8	1.8	6.0	99	86	27	7.7	5.4
27	3.6	1.8	1.8	1.8	1.8	1.8	6.0	77	89	21	7.7	5.2
28	3.6	1.8	1.8	1.8	1.8	1.8	1.8	73	90	19	7.7	5.4
29	3.6	1.8	1.8	1.8	----------	1.8	1.8	86	92	16	7.7	5.4
30	3.6	1.8	1.8	1.8	----------	1.8	4.5	88	93	16	7.7	5.4
31	3.6	----------	1.8	1.8	----------	1.8	----------	92	----------	14	7.7	----------
Total	140.7	54.0	52.2	55.8	50.4	55.8	34.6	1,333.7	2,708	2,146	289.7	199.8
Mean	4.54	1.80	1.68	1.80	1.80	1.80	1.15	43.0	90.3	69.2	9.35	6.66
Ac-ft	279	107	104	111	100	111	69	2,650	5,370	4,260	575	396

Calendar year 1966 : Max 115 Min 0 Mean 17.0 Ac-ft 12,300
Water year 1966-67 : Max 110 Min 0 Mean 19.5 Ac-ft 14,130

Table 27.--1677. Little Cottonwood Creek at 2050 East, near Salt Lake City

Location.--Lat 40°36'29", long 111°49'51", in NW¼NW¼ sec. 34, T. 2 S., R. 1 E., 100 ft upstream from bridge on Utah State Highway 210, and 11 miles southeast of Salt Lake City.

Drainage area.--33.8 sq mi.

Records available.--October 1963 to September 1967.

Gage.--Water-stage recorder. Altitude of gage is 4,580 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 486 cfs June 7, 1964; no flow for long periods.

Remarks.--Record fair. Many diversions for irrigation and municipal water supply above the station. (See fig. 3.) During this water year no exchange water for irrigation was pumped into the creek from well (D-2-1)34bbb-2.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	0	0	0		0	1.2	8.5	147	274	9.5	4.5
2	2.6	0	.4	0		0	1.0	9.0	131	281	14	3.9
3	3.9	0	3.6	0		0	.4	9.0	160	246	9.5	4.8
4	3.9	0	1.6	0		0	0	9.0	193	252	9.0	5.1
5	5.4	0	0	2		0	.2	9.0	252	224	6.1	4.8
6	4.8	0	.6	1		0	2.5	9.5	281	166	6.5	4.8
7	4.2	.5	4.5	0		0	0	9.5	218	160	13	4.8
8	4.2	2.3	4.8	0		0	1.8	12	180	163	9.0	5.4
9	4.5	3.0	4.8	0		0	7.5	16	180	120	5.7	10
10	3.9	7.5	2.0	0		0	8.0	15	173	96	3.9	10
11	4.8	5.1	0	0		0	8.0	18	153	60	6.5	6.1
12	3.0	3.9	0	0		0	7.5	18	190	53	11	2.6
13	6.5	5.4	0	0		0	6.1	16	210	47	7.0	2.8
14	10	3.6	0	0		0	5.4	15	186	50	6.5	2.6
15	13	4.2	0	0		0	6.1	14	166	42	6.1	2.8
16	13	4.2	0	0		0	6.5	15	160	46	5.7	2.8
17	7.5	4.2	0	0		0	6.1	21	169	96	4.8	2.6
18	0	1.6	0	0		0	6.1	38	224	67	4.2	2.6
19	2.8	0	0	0		0	8.5	67	292	47	5.1	2.6
20	2.3	0	.8	0		0	10	106	374	34	4.8	2.6
21	0	0	0	0		0	9.5	99	423	21	4.8	2.6
22	0	0	0	0		0	8.5	131	448	12	4.5	4.5
23	.5	.4	0	3		0	14	150	468	14	4.8	6.5
24	.5	2.7	0	4		0	11	214	374	15	4.5	3.9
25	.7	0	0	2		0	5.1	315	366	11	4.5	2.5
26	.4	0	0	1		0	8.5	252	358	20	4.8	2.3
27	.5	0	0	0		0	25	263	346	16	4.5	2.2
28	2.1	0	0	0		0	19	274	362	11	4.5	2.2
29	0	0	0	0	----------	.9	8.5	228	346	9.0	3.9	2.2
30	0	0	0	0	----------	.9	8.5	193	285	9.5	5.4	2.2
31	0	----------	0	0	----------	.1	----------	163	----------	11	5.1	----------
Total	108.0	48.6	23.1	13	0	1.9	210.5	2,716.5	7,815	2,673.5	199.2	119.3
Mean	3.48	1.62	0.75	0.42	0	0.06	7.02	87.6	260	86.2	6.43	3.98
Ac-ft	214	96	46	26	0	4	418	5,390	15,500	5,300	395	237

Calendar year 1966: Max 199 Min 0 Mean 12.6 Ac-ft 9,130
Water year 1966-67: Max 468 Min 0 Mean 38.2 Ac-ft 27,630

Note.--No gage-height record Dec. 10-19, Dec. 21 to Feb. 9; discharge estimated.

Table 28.--1677 A-D, H. Irrigation diversions from Little Cottonwood Creek below gaging station at 2050 East

Locations.--Tanner Ditch (1677 A) diverts from the right bank in the NE¼SE¼ sec. 29, T. 2 S., R. 1 E. Union and Jordan (1677 H) and Cahoon and Maxfield (1677 B) Ditches divert from the left bank in the NE¼SE¼ sec. 29, T. 2 S., R. 1 E. Walker Ditch (1677 C) diverts from the left bank in the SE¼NE¼ sec. 29, T. 2 S., R. 1 E. Murray Irrigation Ditch (1677 D) diverts from the right bank in the NE¼NE¼ sec. 12, T. 2 S., R. 1 W.

Records available.--October 1963 to September 1967. Records of individual diversions for previous years in the files of the Little Cottonwood Creek Water Commissioner.

Extremes.--1963-67: Maximum daily discharge, 125 cfs May 26, 1964; minimum daily, 0.3 cfs October 25-26, 1963.

Remarks.--The record herein is the combined diversion from Little Cottonwood Creek except for the small flow in Murray Irrigation Ditch. The flow of Tanner, Cahoon and Maxfield, and Walker Ditches at times is supplemented by Utah Lake water diverted from the East Jordan and the Jordan and Salt Lake City Canals. (See fig. 3 and table 17.)

Cooperation.--Records of the individual diversions furnished by the Little Cottonwood Creek Water Commissioner.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	0.4	0.4	0.4	0.4	0.4	0.4	10	60	89	13	5.2
2	4.2	.4	.4	.4	.4	.4	.4	12	57	92	17	4.2
3	4.2	.4	.4	.4	.4	.4	.4	11	61	79	13	7.0
4	4.0	.4	.4	.4	.4	.4	.4	14	66	83	13	6.3
5	4.2	.4	.4	.4	.4	.4	.4	11	66	90	9.2	6.3
6	4.6	.4	.4	.4	.4	.4	.5	13	66	74	9.7	6.9
7	4.4	.4	.4	.4	.4	.4	4.8	14	60	72	20	8.3
8	4.4	.4	.4	.4	.4	.4	8.2	16	63	71	9.8	7.1
9	4.4	.4	.4	.4	.4	.4	6.6	26	64	76	10	7.8
10	4.6	.4	.4	.4	.4	.4	5.1	24	66	75	11	8.3
11	4.5	.4	.4	.4	.4	.4	5.7	28	64	60	11	10
12	4.3	.4	.4	.4	.4	.4	5.9	26	66	58	16	4.5
13	4.3	.4	.4	.4	.4	.4	6.1	23	63	51	10	4.3
14	5.1	.4	.4	.4	.4	.4	4.3	20	61	52	10	4.2
15	4.8	.4	.4	.4	.4	.4	4.1	22	60	48	6.5	4.2
16	.4	.4	.4	.4	.4	.4	6.0	22	58	49	6.8	3.8
17	.4	.4	.4	.4	.4	.4	5.8	28	67	64	7.0	3.5
18	.4	.4	.4	.4	.4	.4	6.0	40	70	57	4.6	3.2
19	.4	.4	.4	.4	.4	.4	8.9	54	69	50	4.7	4.2
20	.4	.4	.4	.4	.4	.4	9.0	61	66	44	4.8	4.4
21	.4	.4	.4	.4	.4	.4	10	65	56	27	4.8	4.2
22	.4	.4	.4	.4	.4	.4	9.5	65	54	18	5.0	3.4
23	.4	.4	.4	.4	.4	.4	12	58	54	25	6.4	5.4
24	.4	.4	.4	.4	.4	.4	12	78	61	29	5.6	4.6
25	.4	.4	.4	.4	.4	.4	19	70	91	16	6.4	3.4
26	.4	.4	.4	.4	.4	.4	23	80	78	26	5.4	3.2
27	.4	.4	.4	.4	.4	.4	26	71	84	23	5.4	3.2
28	.4	.4	.4	.4	.4	.4	13	71	91	15	5.4	3.2
29	.4	.4	.4	.4	----------	.4	13	73	91	12	5.9	3.2
30	.4	.4	.4	.4	----------	.4	12	72	84	9.8	10	3.2
31	.4	----------	.4	.4	----------	.4	----------	68	----------	15	6.7	----------
Total	73.0	12.0	12.4	12.4	11.2	12.4	238.5	1,246	2,017	1,549.8	274.1	150.7
Mean	2.35	0.40	0.40	0.40	0.40	0.40	7.95	40.2	67.2	50.0	8.84	5.02
Ac-ft	145	24	25	25	22	25	473	2,470	4,000	3,070	544	299

Calendar year 1966 : Max 71 Min 0.4 Mean 10.1 Ac-ft 7,320
Water year 1966-67 : Max 92 Min 0.4 Mean 15.4 Ac-ft 11,120

Table 29.--1685. Big Cottonwood Creek near Salt Lake City

Location.--Lat 40°37'07", long 111°46'52", in SW¼NE¼ sec. 25, T. 2 S., R. 1 E., at Big Cottonwood Creek water treatment plant at mouth of canyon, and 12 miles southeast of Salt Lake City.

Drainage area.--50.0 sq mi.

Records available.--October 1898 to September 1967. Monthly discharge only for October 1898 to September 1960 published in WSP 1314 and 1734. Records for October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Extremes.--1898-1967: Maximum daily discharge, 835 cfs June 6, 1909; minimum daily, 4.5 cfs Jan. 10, 1937.

Remarks.--Record herein is the combined discharge of Big Cottonwood Creek flume at the water treatment plant, Utah Power and Light Company tailrace above the water treatment plant, and Butler Ditch. (See fig. 4 and tables 30-32.) Record not adjusted for storage of municipal water in Lake Mary (capacity, 742 acre ft) and Twin Lakes (capacity, 937 acre-ft). Records for this gaging station published in U.S. Geological Survey Water Supply Papers 1314 and 1734 do not include the flow of Butler Ditch.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	24	21	18	23	26	34	32	242	246	72	48
2	26	23	21	20	22	26	34	58	258	234	66	50
3	29	23	23	21	22	28	42	52	287	232	64	50
4	27	23	21	20	22	28	51	65	312	228	60	48
5	29	24	24	21	22	26	49	55	378	209	60	48
6	26	24	27	20	22	25	61	44	348	188	58	50
7	26	25	26	19	20	25	60	66	332	171	57	50
8	23	23	24	18	22	26	45	135	309	164	57	52
9	22	24	23	18	22	27	47	174	282	160	52	52
10	23	23	22	18	22	27	58	188	270	154	53	50
11	24	24	22	19	22	28	58	166	260	139	50	52
12	33	26	23	19	22	29	59	125	266	133	50	52
13	33	24	23	20	22	29	61	119	261	134	49	50
14	29	26	23	20	22	28	60	107	241	129	48	51
15	30	24	23	23	23	27	43	113	223	126	46	50
16	28	26	22	21	23	29	43	141	214	127	46	55
17	27	26	22	20	23	32	47	182	219	133	46	55
18	28	24	21	20	22	35	54	222	256	106	45	54
19	26	23	21	20	22	32	50	240	279	105	43	52
20	27	24	21	21	21	37	61	247	337	99	43	52
21	26	27	21	21	22	37	62	276	294	94	42	50
22	25	25	20	21	22	37	44	339	325	89	40	54
23	25	26	21	22	23	38	42	371	312	86	38	52
24	24	22	21	21	24	39	52	426	278	83	40	52
25	25	22	21	22	24	38	51	465	278	76	42	54
26	24	22	21	21	24	37	52	404	271	74	46	52
27	24	21	20	22	24	41	57	376	272	74	46	52
28	25	22	20	21	25	44	53	356	259	72	46	58
29	26	23	21	22	----------	36	39	340	248	70	46	52
30	26	22	20	23	----------	40	39	347	246	69	46	52
31	24	----------	18	22	----------	39	----------	282	----------	67	46	----------
Total	814	715	677	634	629	996	1,508	6,513	8,357	4,071	1,543	1,549
Mean	26.3	23.8	21.8	20.5	22.5	32.1	50.3	210	279	131	49.8	51.6
Ac-ft	1,610	1,420	1,340	1,260	1,250	1,980	2,990	12,920	16,580	8,070	3,060	3,070

Calendar year 1966 : Max 330 Min 18 Mean 55.9 Ac-ft 40,450
Water year 1966-67: Max 465 Min 18 Mean 76.7 Ac-ft 55,550

Table 30.--1685 A. Utah Power and Light Company tailrace above Big Cottonwood Creek treatment plant, near Salt Lake City

Location.--In SW¼NE¼ sec. 25, T. 2 S., R. 1 E., immediately above Big Cottonwood Creek treatment plant at mouth of canyon, and 12 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--48-inch Sparling meter and 4-foot Parshall flume.

Extremes.--1963-67: Maximum daily discharge, 64 cfs May 13, 1967; minimum daily, 1 cfs Apr. 17, 1967.

Remarks.--Water diverted from the right bank of Big Cottonwood Creek below the Stairs powerplant in SE¼SW¼ sec. 20, T. 2 S., R. 2 E., 1.5 miles upstream. Part of the flow is delivered to the water treatment plant through a 48-inch Sparling meter and the balance is returned to the creek 600 ft downstream after passing through a 4-foot Parshall flume. (See fig. 4.)

Cooperation.--Record of discharges, 8 a.m. to 8 a.m., furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	18	17	12	17	18	26	24	52	53	26	24
2	19	18	17	14	15	19	27	22	55	52	25	26
3	15	18	18	14	16	20	19	23	54	53	25	25
4	14	18	17	14	16	20	21	22	52	54	24	25
5	13	18	19	15	16	18	18	19	53	52	25	25
6	13	17	20	14	16	19	25	32	56	52	24	25
7	20	18	19	14	14	19	29	44	53	52	25	25
8	20	17	19	13	16	19	31	64	58	53	26	25
9	19	16	17	13	15	20	37	29	55	52	24	25
10	11	17	16	13	16	20	28	35	55	52	25	24
11	12	19	17	14	16	20	28	35	54	19	25	25
12	6	19	17	13	16	20	29	38	56	24	25	26
13	21	18	18	14	16	20	25	44	54	25	25	24
14	23	20	18	14	15	20	30	47	54	24	25	25
15	24	19	18	15	16	20	32	48	56	24	24	24
16	23	19	17	15	16	21	33	49	55	24	25	25
17	22	19	17	14	16	23	1	52	54	30	25	25
18	22	19	16	14	16	23	15	50	57	19	25	25
19	21	18	16	14	15	20	36	51	54	26	24	25
20	22	18	16	15	14	24	24	49	54	25	25	25
21	21	20	16	15	14	25	25	49	54	25	25	25
22	20	19	14	15	14	26	33	50	52	24	24	25
23	20	19	15	15	14	27	32	49	53	24	24	25
24	19	17	15	14	15	28	22	48	52	24	25	25
25	20	17	15	16	16	28	21	48	54	23	24	25
26	19	17	15	15	15	28	21	50	53	24	25	25
27	19	16	14	16	14	17	23	50	52	24	25	25
28	19	17	14	15	16	17	22	50	54	24	24	27
29	19	18	15	16	----------	24	30	50	50	24	25	24
30	20	17	14	16	----------	28	31	51	52	25	26	23
31	18	----------	13	15	----------	29	----------	51	----------	24	25	----------
Total	572	540	509	446	431	680	774	1,323	1,617	1,030	769	747
Mean	18.5	18.0	16.4	14.4	15.4	21.9	25.8	42.7	53.9	33.2	24.8	24.9
Ac-ft	1,130	1,070	1,010	885	855	1,350	1,540	2,620	3,210	2,040	1,530	1,480

Calendar year 1966: Max 63 Min 6 Mean 28.7 Ac-ft 20,780
Water year 1966-67: Max 64 Min 1 Mean 25.9 Ac-ft 18,720

Table 31.--1685 B. Butler Ditch near Salt Lake City

Location.--In SE¼NW¼ sec. 25, T. 2 S., R. 1 E., about 1.4 miles below point of diversion from Big Cottonwood Creek and 0.4 mile southwest of Big Cottonwood Creek treatment plant.

Records available.--April 1964 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Rectangular weir.

Extremes.--1964-67: Maximum daily discharge, 2.3 cfs June 4-7, 1964, May 24-26, 1965; minimum daily, 0.1 cfs several days in 1965 and 1967.

Remarks.--Water diverted from the left bank of Big Cottonwood Creek in SE¼SW¼ sec. 19, T. 2 S., R. 2 E. (unsurveyed).

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.2	0.4	0.4	0.1	0.1	0.7	1.1	1.1	0.8	0.5
2	.2	.2	.2	.4	.4	.1	.1	.1	.4	1.1	.8	.5
3	.2	.2	.2	.4	.4	.1	1.4	.1	.4	1.1	.8	.5
4	.2	.2	.2	.4	.4	.1	1.4	.1	.4	1.1	.8	.5
5	.2	.2	.2	.4	.4	.1	1.4	.1	.4	1.1	.8	.5
6	.2	.2	.2	.4	.4	.1	1.4	.1	.4	1.1	.7	.5
7	.2	.2	.2	.4	.4	.1	1.4	.1	.4	.7	.7	.5
8	.2	.2	.2	.4	.4	.1	1.4	.1	.4	.7	.7	.5
9	.2	.2	.2	.4	.4	.4	1.4	.7	.4	.7	.7	.5
10	.2	.2	.2	.4	.4	.4	1.4	.7	.4	.7	.7	.5
11	.2	.2	.2	.4	.4	.4	1.4	.7	.4	.8	.7	.5
12	.2	.2	.2	.4	.4	.4	1.4	.7	.9	.8	.7	.5
13	.2	.2	.2	.4	.4	.4	1.4	.7	.9	.8	.7	.5
14	.2	.2	.2	.4	.4	.4	1.4	.7	.9	.8	.7	.8
15	.2	.2	.2	.4	.4	.4	1.4	.7	.9	.8	.7	.8
16	.2	.2	.4	.4	.4	.4	1.4	.3	.9	.8	.7	.8
17	.2	.2	.4	.4	.4	.4	1.4	.3	.9	.8	.7	.8
18	.2	.2	.4	.4	.4	.4	1.4	.3	.9	.8	.7	.8
19	.2	.2	.4	.4	.4	.4	1.4	.3	.9	.8	.7	.5
20	.2	.2	.4	.4	.4	.4	1.4	.3	.9	.8	.7	.5
21	.2	.2	.4	.4	.4	.4	1.4	.3	.9	.8	.5	.5
22	.2	.2	.4	.4	.4	.4	1.4	.3	.9	.8	.5	.5
23	.2	.2	.4	.4	.4	.4	1.4	.3	.9	.8	.5	.5
24	.2	.2	.4	.4	.4	.4	.7	.3	.9	.8	.5	.5
25	.2	.2	.4	.4	.4	.4	.7	1.1	.9	.8	.5	.5
26	.2	.2	.4	.4	.4	.4	.7	1.1	.9	.8	.5	.5
27	.2	.2	.4	.4	.4	.1	.7	1.1	1.1	.8	.5	.5
28	.2	.2	.4	.4	.4	.1	.7	1.1	1.1	.8	.5	.5
29	.2	.2	.4	.4	----------	.1	.7	1.1	1.1	.8	.5	.5
30	.2	.2	.4	.4	----------	.1	.7	1.1	1.1	.8	.5	.5
31	.2	----------	.4	.4	----------	.1	----------	1.1	----------	.8	.5	----------
Total	6.2	6.0	9.4	12.4	11.2	8.5	34.5	16.7	23.0	26.2	20.0	16.5
Mean	0.20	0.20	0.30	0.40	0.40	0.27	1.15	0.54	0.77	0.85	0.65	0.55
Ac-ft	12	12	19	25	22	17	68	33	46	52	40	33

Calendar year 1966 : Max 1.5 Min 0.2 Mean 0.49 Ac-ft 350
Water year 1966-67: Max 1.4 Min 0.1 Mean 0.52 Ac-ft 379

Table 32.--1685 C. Big Cottonwood Creek flume at water treatment plant, near Salt Lake City

Location.--In SW¼NE¼ sec. 25, T. 2 S., R. 1 E., at Big Cottonwood Creek water treatment plant at mouth of canyon, and 12 miles southeast of Salt Lake City until June 21 when the station was moved about 400 feet upstream to SE¼NE¼ sec. 25.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Water-stage recorder, staff, and hook gages in a concrete well. The control was a 14-foot concrete flume until June 21 and a 20-foot Parshall flume thereafter. Altitude of gage was 4,980 ft until June 21 and 4,990 ft thereafter (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 416 cfs May 25, 1967; minimum daily, 1.2 cfs Nov. 6, 1965.

Remarks.--Records fair. Diversions to the Utah Power and Light Co. powerplant, about 2 miles upstream, and to Butler Ditch, about three-quarters of a mile upstream, bypass this station. (See fig. 4.)

Cooperation.--Average 24-hour gage heights at the lower site, based on readings every 2 hours, 8 a.m. to 8 a.m., and recorder charts for the upper site furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.2	5.7	3.6	5.2	5.7	7.4	7.4	7.4	189	192	45	24
2	6.8	4.4	3.6	5.2	6.2	7.4	7.4	36	203	181	40	24
3	14	4.4	4.4	6.2	5.7	7.4	22	29	233	178	38	24
4	13	4.4	4.0	5.2	5.2	7.4	29	43	260	173	35	23
5	16	5.7	5.2	5.2	5.7	7.4	30	36	325	156	34	23
6	13	6.8	6.8	5.2	5.7	6.2	35	12	292	135	33	24
7	5.7	6.8	6.8	4.8	5.7	6.2	30	22	279	118	31	25
8	3.2	6.2	5.2	4.8	5.7	6.8	13	71	251	110	30	27
9	3.2	7.4	5.7	4.8	6.2	6.8	9.0	144	227	107	27	27
10	12	5.7	5.7	4.8	5.7	6.8	29	152	215	101	27	26
11	12	5.2	5.2	4.8	5.2	7.4	29	130	206	119	24	26
12	27	6.8	5.7	5.2	5.7	8.2	29	86	209	108	24	26
13	12	5.7	4.8	5.2	5.2	8.2	35	74	206	108	23	26
14	6.2	5.7	4.4	5.2	6.2	7.4	29	59	186	104	22	25
15	5.7	5.2	4.4	7.4	6.2	6.8	10	64	166	101	21	25
16	5.2	6.8	4.4	5.2	6.8	7.4	9.0	92	158	102	20	29
17	5.2	6.8	4.4	5.2	6.8	9.0	45	130	164	102	20	29
18	5.7	5.2	4.4	5.2	5.7	12	38	172	198	86	19	28
19	5.2	5.2	4.4	5.2	6.2	12	13	189	224	78	18	27
20	5.2	5.7	4.8	5.2	6.8	13	36	198	282	73	17	26
21	5.2	6.8	4.4	5.7	7.4	12	36	227	239	68	16	25
22	5.2	5.7	5.2	5.7	7.4	11	10	289	272	64	15	28
23	4.8	6.8	5.2	6.8	8.2	11	9.0	322	258	61	14	27
24	5.2	4.8	5.2	6.8	8.2	11	29	378	225	58	15	27
25	5.2	4.4	5.2	5.7	7.4	10	29	416	223	52	17	28
26	5.2	4.4	5.2	5.2	8.2	8.2	30	353	217	49	21	26
27	4.8	4.4	5.2	5.7	10	24	33	325	219	49	21	26
28	5.7	4.4	5.7	5.2	8.2	27	30	305	204	47	21	30
29	6.8	4.8	5.2	5.2	----------	12	8.2	289	197	45	21	28
30	6.2	4.4	5.7	6.2	----------	12	7.4	295	193	43	20	29
31	6.2	----------	4.8	6.8	----------	10	----------	230	----------	42	20	----------
Total	243.0	166.7	154.9	170.2	183.3	309.4	706.4	5,175.4	6,720	3,010	749	788
Mean	7.84	5.56	5.00	5.49	6.55	9.98	23.5	167	224	97.1	24.2	26.3
Ac-ft	482	331	307	338	364	614	1,400	10,270	13,330	5,970	1,490	1,560

Calendar year 1966 : Max 279 Min 3.2 Mean 26.7 Ac-ft 19,330
Water year 1966-67: Max 416 Min 3.2 Mean 50.3 Ac-ft 36,460

Table 33.--1685 D. Salt Lake City conduit from Big Cottonwood Creek treatment plant, near Salt Lake City

Location.--In SW¼NE¼ sec. 25, T. 2 S., R. 1 E., at Big Cottonwood Creek water treatment plant at mouth of canyon, and 12 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Five-foot Parshall flume.

Extremes.--1963-67: Maximum daily discharge, 62 cfs July 4, 1967; no flow May 2, 1967.

Remarks.--A small amount of wash water (average about 0.3 cfs) returned to the creek and has been subtracted from the total flow through the flume; the amounts shown were delivered to the Salt Lake City water system. (See fig. 4.)

Cooperation.--Record of discharges, 8 a.m. to 8 a.m., furnished by Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	23	22	17	23	25	33	19	24	59	47	40
2	20	22	21	20	22	26	33	0	23	59	52	41
3	22	22	23	20	22	27	31	15	39	59	50	41
4	20	23	22	18	22	27	31	21	52	62	50	47
5	25	24	24	20	22	25	30	23	52	58	50	47
6	25	22	26	19	22	25	34	24	54	57	47	44
7	25	23	25	19	20	25	35	33	25	59	48	43
8	24	22	24	19	22	25	35	40	22	57	46	46
9	23	23	22	18	22	26	36	43	23	56	45	43
10	21	22	22	19	22	27	34	36	23	58	39	49
11	22	24	22	19	22	28	36	32	38	36	46	50
12	24	24	22	19	22	28	36	25	25	41	42	48
13	26	24	23	20	22	28	32	22	21	55	40	43
14	29	25	23	20	21	27	21	22	17	57	39	43
15	29	24	22	20	23	27	21	22	18	57	38	43
16	28	24	22	21	22	28	33	30	19	52	42	49
17	27	24	22	20	22	31	24	31	30	43	44	52
18	27	24	22	20	22	33	28	31	30	57	40	51
19	26	24	21	20	22	33	37	35	30	59	34	43
20	27	23	21	20	21	36	34	33	22	57	35	43
21	26	26	21	21	22	35	32	32	29	55	33	43
22	25	25	20	21	22	35	34	33	29	46	36	45
23	25	23	20	21	22	36	35	33	30	48	39	51
24	24	22	20	21	22	37	31	34	35	44	38	53
25	25	21	20	21	23	36	30	21	44	50	34	45
26	24	22	20	21	23	36	30	17	53	53	38	45
27	24	21	20	22	23	23	31	17	56	51	38	42
28	25	22	19	21	24	32	27	11	61	54	38	46
29	26	23	20	21	----------	32	20	18	59	51	45	51
30	24	21	20	22	----------	36	19	19	59	52	44	47
31	24	----------	19	23	----------	37	----------	19	----------	51	38	----------
Total	763	692	670	623	619	932	923	791	1,042	1,653	1,295	1,374
Mean	24.6	23.1	21.6	20.1	22.1	30.1	30.8	25.5	34.7	53.3	41.8	45.8
Ac-ft	1,510	1,370	1,330	1,240	1,230	1,850	1,830	1,570	2,070	3,280	2,570	2,730

Calendar year 1966: Max 61 Min 15 Mean 29.4 Ac-ft 21,310
Water year 1966-67 : Max 62 Min 0 Mean 31.2 Ac-ft 22,580

Table 34.--1685 E-O, 1688 A. Diversions from Big Cottonwood Creek between Big Cottonwood Creek flume and gaging station at Cottonwood Lane

Locations.--Brown-Sanford Ditch (1685 E) diverts from the right bank in SW¼NE¼ sec. 25, T. 2 S., R. 1 E. Upper Canal (1685 F) and Newman Ditch (1685 G) divert from the right bank in SE¼NW¼ sec. 23, T. 2 S., R. 1 E. Tanner (1685 H) and Bagley-Knudson (1685 I) Ditches divert from the left bank and Park Box Ditch (1685 J) diverts from the right bank in NW¼NW¼ sec. 23, T. 2 S., R. 1 E. Severson Ditch (1685 K) diverts from the left bank in SE¼SW¼ sec. 14, T. 2 S., R. 1 E. Bagley Ditch (1685 L) diverts from the left bank in NW¼NW¼ sec. 14, T. 2 S., R. 1 E. Green (1685 M), Wallace (1685 N), and Walker (1685 O) Ditches divert from the left bank in SW¼NE¼ sec. 15, T. 2 S., R. 1 E. Farr and Harper Ditch (1688 A) diverts from the right bank in the NE¼NE¼ sec. 15, T. 2 S., R. 1 E.

Records available.--April 1964 to September 1967. Records of individual diversions for previous years in the files of the Big Cottonwood Creek Water Commissioner.

Extremes.--1964-67: Maximum daily discharge, 70 cfs July 11, 1967, 1967; no flow during winter months.

Remarks.--The record herein is the combined discharge of ten of the diversions described above. The small discharge of the other two diversions (Park Box and Wallace Ditches) is insignificant. From Oct. 1-13, July 21 to Sept. 30 part of the water diverted was supplied by pumping from East Jordan Canal (see table 17) and well (D-2-1)14ccd-1.

Cooperation.--Records of individual diversions furnished by the Big Cottonwood Creek Water Commissioner.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29						0	13	29	60	39	40
2	24						0	17	35	57	47	41
3	17						0	19	43	61	41	38
4	22						3.0	14	38	67	40	36
5	20						2.6	17	43	66	40	36
6	18						2.6	21	43	63	38	41
7	18						2.6	25	46	59	43	40
8	19						3.1	25	45	61	42	39
9	17						3.9	23	43	67	42	36
10	17						4.0	22	45	64	39	34
11	17						2.4	20	47	70	40	33
12	18						3.0	14	50	66	39	37
13	10						4.4	19	52	64	40	41
14	4.9						5.5	20	49	59	39	41
15	.8						6.3	19	41	58	41	39
16	0						5.7	25	39	54	36	36
17	0						6.6	39	39	60	32	33
18	0						7.4	43	41	42	32	33
19	0						3.9	41	46	46	39	39
20	0						4.8	46	51	42	37	38
21	0						3.6	36	52	43	39	39
22	0						3.4	36	51	44	35	35
23	0						3.3	36	45	43	32	28
24	0						4.1	46	45	40	32	25
25	0						6.4	37	42	46	38	29
26	0						7.1	37	43	48	41	34
27	0						6.2	38	51	48	39	33
28	0						7.2	37	60	43	37	33
29	0						12	38	57	41	32	28
30	0				----------		11	36	60	39	34	26
31	0	----------			----------		----------	32	----------	38	36	----------
Total	251.7	0	0	0	0	0	136.1	891	1,371	1,659	1,181	1,061
Mean	8.12	0	0	0	0	0	4.54	28.7	45.7	53.5	38.1	35.4
Ac-ft	499	0	0	0	0	0	270	1,770	2,720	3,290	2,340	2,100

Calendar year 1966 : Max 66 Min 0 Mean 18.9 Ac-ft 13,690
Water year 1966-67: Max 70 Min 0 Mean 17.9 Ac-ft 12,990

Table 35.--1688. Big Cottonwood Creek at Cottonwood Lane, near Salt Lake City

Location.--Lat 40°39'22", long 111°49'24", in SE¼SE¼ sec. 10, T. 2 S., R. 1 E., at Cottonwood Lane, and about 8 miles southeast of Salt Lake City.

Drainage area.--58.2 sq mi.

Records available.--April to July 1964, October 1964 to September 1967.

Gage.--Water-stage recorder. Altitude of gage is 4,410 ft (from topographic map). Prior to August 1964, a water-stage recorder at a site half a mile upstream at different datum.

Extremes.--1964-67: Maximum daily discharge, 376 cfs May 25, 1967; no flow on many days.

Remarks.--Records fair. Many diversions above the station including Farr and Harper Ditch, which is below the site used prior to August 1964. (See fig. 4 and table 34.)

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	0.8	2.4	1.0	1.6	1.9	3.0	4.6	188	143	1.9	0.3
2	3.5	.9	2.2	1.0	1.6	1.8	2.5	15	178	139	3.5	.3
3	7.3	1.3	2.8	1.2	1.0	2.0	1.8	15	184	123	1.8	.5
4	3.8	4.6	2.5	1.5	1.8	2.0	5.0	3.5	201	119	1.3	.8
5	2.4	4.3	2.5	1.4	1.8	2.0	8.0	3.8	234	107	1.2	.8
6	2.2	4.8	2.8	1.4	1.8	1.9	8.0	2.2	241	86	1.2	.7
7	3.0	4.8	3.5	1.4	1.8	2.0	10	3.3	228	66	.8	.7
8	2.0	6.9	3.8	1.3	1.6	2.0	5.0	5.8	213	53	.8	.6
9	2.4	4.8	2.5	1.3	1.6	2.0	5.0	16	197	39	.8	.5
10	2.2	5.1	1.2	1.3	1.8	2.2	10	56	192	33	.8	.5
11	2.0	4.6	1.0	1.3	1.6	2.5	10	62	176	35	.6	.6
12	1.8	5.5	2.2	1.5	1.6	2.2	11	59	180	28	.5	.7
13	4.3	4.8	1.8	1.5	1.4	2.4	12	43	194	21	.5	.6
14	2.4	5.1	1.8	1.8	1.9	3.5	15	33	182	14	.3	.5
15	2.4	3.8	2.0	1.8	1.9	3.0	18	33	171	11	.5	.4
16	4.1	3.3	2.2	1.3	1.9	2.4	12	37	169	8.4	.8	.3
17	3.0	3.5	1.6	1.2	1.9	2.2	5.1	50	165	23	.5	.3
18	1.8	4.4	1.0	1.2	2.0	2.5	6.9	80	186	19	.5	.4
19	1.4	2.5	1.5	1.4	1.8	8.3	6.3	134	213	4.3	.4	.5
20	1.0	2.5	1.5	1.6	1.6	5.5	9.2	170	251	3.5	.3	.4
21	.6	3.5	1.5	1.6	1.3	2.5	7.3	192	235	1.8	.3	.3
22	.3	3.8	1.2	1.6	1.3	2.4	3.3	249	230	1.3	.6	.3
23	.3	4.1	1.2	1.8	1.4	3.5	4.6	298	258	1.3	.8	.5
24	.2	3.0	1.2	1.9	1.8	4.3	8.0	334	224	1.2	.6	.8
25	5.9	3.0	.8	1.9	1.8	1.8	10	376	213	1.2	.3	1.3
26	1.2	3.5	.5	2.4	1.3	1.8	10	344	205	1.5	.3	1.4
27	1.4	2.0	1.0	1.8	1.8	7.3	12	311	184	1.8	.3	1.2
28	1.0	2.0	1.0	1.3	1.8	8.0	11	302	167	2.0	.5	.9
29	.3	2.8	1.0	1.2	----------	6.2	8.0	268	148	1.4	.8	.6
30	.5	3.0	1.0	1.3	----------	6.9	7.3	239	144	1.4	.7	.5
31	.2	----------	1.0	1.6	----------	3.3	----------	205	----------	1.4	.6	----------
Total	65.8	109.0	54.2	45.8	46.5	102.3	245.3	3,944.2	5,951	1,091.5	24.8	18.2
Mean	2.12	3.63	1.75	1.48	1.66	3.30	8.18	127	198	35.2	0.80	0.61
Ac-ft	131	216	108	91	92	203	487	7,820	11,800	2,160	49	36

Calendar year 1966 : Max 234 Min 0 Mean 12.9 Ac-ft 9,320
Water year 1966-67: Max 376 Min 0.2 Mean 32.1 Ac-ft 23,190

Table 36.--1688 B-D. Diversions from Big Cottonwood Creek below gaging station at Cottonwood Lane

Locations.--Lower Canal (1688 B) diverts from the right bank in the NE¼SW¼ sec. 10, T. 2 S., R. 1 E. Big Canal (1688 C) diverts from the right bank in the SE¼NE¼ sec. 9, T. 2 S., R. 1 E. Mill Ditch (1688 D) diverts from the right bank in NW¼NW¼ sec. 9, T. 2 S., R. 1 E.

Records available.--April 1964 to September 1967. Records of individual diversions for previous years in the files of the Big Cottonwood Creek Water Commissioner.

Extremes.--1964-67: Maximum daily discharge, 34 cfs July 15, 24, 1964; no flow during winter months.

Remarks.--The record herein is the combined discharge of the three diversions described above. From July 14 to Sept. 30 most of the water diverted was supplied by the Jordan and Salt Lake City Canal. (See fig. 4 and table 17.)

Cooperation.--Records of individual diversions furnished by the Big Cottonwood Creek Water Commissioner.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	13	16	24	17
2								0	13	16	25	16
3								0	13	16	25	10
4								0	14	20	22	4
5								0	14	20	22	14
6								0	14	23	21	14
7								0	15	18	21	13
8								0	17	18	21	14
9								0	16	16	21	14
10								0	16	16	21	13
11								0	16	20	21	12
12								0	16	19	23	13
13								0	16	20	21	14
14								0	15	18	19	13
15								0	14	21	19	13
16								0	14	20	19	13
17								0	14	20	19	13
18								0	14	20	17	13
19								2	14	3	20	14
20								15	16	17	19	14
21								19	11	20	19	14
22								22	11	20	18	12
23								19	13	20	19	12
24								20	15	22	18	12
25								20	18	22	18	12
26								24	17	23	19	12
27								21	17	22	20	11
28								20	17	22	20	11
29								20	18	23	22	11
30					---			16	17	24	18	10
31		---			---		---	16	---	24	21	---
Total	0	0	0	0	0	0	0	234	448	599	632	378
Mean	0	0	0	0	0	0	0	7.5	14.9	19.3	20.4	12.6
Ac-ft	0	0	0	0	0	0	0	464	889	1,190	1,250	750

Calendar year 1966 : Max 25 Min 0 Mean 7.0 Ac-ft 5,090
Water year 1966-67: Max 25 Min 0 Mean 6.3 Ac-ft 4,540

Table 37.--1698. Mill Creek above Elbow Fork, near Salt Lake City

Location.--Lat 40°42'23", long 111°41'22", in SW¼NE¼ sec. 26, T. 1 S., R. 2 E., on left bank 100 ft upstream from Elbow Fork, 1.8 miles upstream from Mill Creek guard station, and 12 miles southeast of Salt Lake City.

Drainage area.--7.7 sq mi.

Records available.--May 1963 to September 1967. Prior to April 21, 1964, infrequent staff gage readings only.

Gage.--Water-stage recorder. Altitude of the gage is 6,630 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 42 cfs June 9, 1965 and June 6, 1967; minimum daily, not determined.

Remarks.--Records fair except those for periods of no gage-height record, which are poor. No diversions above station.

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		4.4	4.1				4.5	5.1	30	14	8.6	5.8
2		4.5	4.2				4.5	5.1	30	13	8.4	6.0
3		4.5	4.5				4.2	5.1	32	13	8.0	6.0
4		4.5	4.5				4.4	5.1	37	13	7.9	5.8
5		4.6	4.2				4.6	5.2	41	12	8.0	5.7
6	5.0	4.6	4.6				4.6	5.7	42	12	8.0	5.8
7		4.8	4.5	3.5			4.6	6.6	40	12	8.0	5.7
8		4.8	4.2				4.5	7.5	36	12	7.9	5.8
9		4.5	4.2				4.5	8.2	33	11	7.7	5.8
10		4.8	4.2				4.5	9.8	31	11	7.5	5.7
11		4.5	4.4				4.5	8.6	30	11	7.5	5.7
12		4.5	4.5				4.6	7.9	29	11	7.4	5.7
13	6.0	4.5				4.0	4.6	7.5	28	10	7.0	5.7
14	5.5	4.2					4.6	7.4	27	10	7.4	5.6
15	5.0	4.2			4.0		4.8	7.7	26	10	7.4	5.6
16	5.0	4.2					5.0	8.9	26	10	7.2	5.7
17	5.0	4.2	4.5				5.0	10	26	10	7.2	5.6
18	5.0	4.2					5.4	13	26	10	7.0	5.6
19	4.8	4.2					5.6	14	27	10	7.0	5.4
20	4.8	4.2					5.2	16	27	10	6.9	5.4
21	4.8	4.5					5.1	17	25	10	6.8	5.4
22	4.8	4.5	4.0	4.0			5.1	20	24	9.8	6.8	5.6
23	4.6	4.5	3.5				5.1	22	24	9.4	6.6	5.6
24	4.6	4.5	3.0				4.8	26	21	9.1	6.3	5.6
25	4.6	4.4	3.0				4.8	37	20	9.3	6.2	5.6
26	4.5	4.4					4.8	38	19	9.1	6.0	5.6
27	4.5	4.4					5.0	38	17	8.9	5.8	5.8
28	4.5	4.4	3.5			4.5	5.1	38	17	8.7	5.7	6.2
29	4.5	4.4			--------		5.1	35	16	8.6	5.6	6.2
30	4.5	4.2			--------		5.0	33	15	8.4	5.7	6.2
31	4.4	--------			--------		--------	31	--------	8.2	5.7	--------
Total	151.4	133.1	127.1	117.5	112.0	127.0	144.1	499.4	822	324.5	219.2	171.9
Mean	4.88	4.44	4.10	3.79	4.00	4.10	4.80	16.1	27.4	10.5	7.07	5.73
Ac-ft	300	264	252	233	222	252	286	991	1,630	644	435	341

Calendar year 1966: Max 26 Min - Mean 7.30 Ac-ft 5,290
Water year 1966-67: Max 42 Min - Mean 8.08 Ac-ft 5,850

Note.--No gage-height record Oct. 1-18, Dec. 13 to Apr. 2; discharge estimated.

Table 38.--1700. Mill Creek near Salt Lake City

Location.--Lat 40°41'20", long 111°46'55", in NW¼SE¼ sec. 36, T. 1 S., R. 1 E., 1,000 ft upstream from bridge at mouth of canyon, 0.7 mile east of Wasatch Blvd., and 7 miles southeast of Salt Lake City.

Drainage area.--21.7 sq mi.

Records available.--October 1898 to September 1967. Monthly discharge only for October 1898 to September 1960 published in WSP 1314 and 1734. October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Extremes.--1898-1910, 1912-19, 1920-22, 1923-60, 1963-67: Maximum daily discharge, 152 cfs May 20, 1949; minimum not determined but about 1 cfs or less.

Remarks.--No regulation. Record herein is the combined discharge of Mill Creek and pipelines from Boundary Springs. (See tables 39, 40.)

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.4	7.7	7.7	5.3	7.6	8.0	8.5	11	41	26	16	11
2	9.2	8.2	7.7	5.3	7.3	8.0	8.5	10	42	25	15	11
3	8.4	9.0	8.2	5.3	7.3	8.2	8.5	10	43	24	15	10
4	8.4	9.0	7.9	5.3	7.3	8.2	8.5	10	47	23	14	10
5	8.4	8.8	7.9	5.2	7.3	8.2	8.5	11	50	23	14	10
6	8.3	8.8	8.4	5.2	7.5	8.0	8.7	12	50	22	14	11
7	8.6	8.8	8.4	5.2	7.7	7.8	8.7	13	50	22	14	11
8	8.8	9.4	7.9	5.2	6.5	7.8	8.7	14	48	24	15	11
9	8.8	9.1	5.3	5.2	7.7	7.8	8.7	15	46	22	15	10
10	8.6	8.6	5.3	5.2	7.7	7.8	9.0	20	44	20	14	11
11	8.2	9.7	7.9	5.2	7.7	7.8	8.7	20	43	20	14	11
12	8.5	10	8.2	5.2	7.7	7.8	8.7	19	42	19	13	11
13	9.6	10	8.2	5.2	7.7	8.0	8.7	18	43	19	14	11
14	9.3	8.9	8.2	5.7	7.5	8.0	8.7	17	41	19	14	11
15	8.9	8.2	8.1	5.7	5.8	8.0	9.0	17	40	19	12	11
16	8.6	8.2	7.6	5.7	6.5	8.0	9.9	18	39	19	12	11
17	8.6	8.4	7.8	6.4	7.7	8.0	9.6	20	38	20	12	11
18	8.4	8.1	8.1	6.4	8.2	8.0	9.9	22	37	19	12	10
19	8.4	8.1	8.1	6.4	7.5	8.0	10	26	38	18	12	10
20	8.4	7.8	7.8	7.1	6.8	8.0	10	23	39	17	12	10
21	8.7	7.7	8.1	8.1	7.3	8.2	10	31	40	17	12	10
22	8.7	7.7	5.7	8.1	7.5	8.2	10	35	39	17	12	11
23	8.7	7.9	4.9	8.3	8.2	8.2	10	38	39	16	12	11
24	8.1	7.5	4.7	8.1	8.2	8.2	9.9	43	36	16	12	11
25	8.1	6.0	4.7	7.6	8.2	8.2	9.9	50	32	16	12	11
26	7.9	6.5	4.9	7.3	8.2	8.5	9.9	50	32	15	12	11
27	7.9	7.7	5.2	7.6	8.0	8.5	9.9	50	29	15	11	10
28	7.6	7.9	5.2	7.6	8.0	8.4	10	50	29	15	12	10
29	7.9	7.9	5.2	7.3	----------	8.4	10	47	27	15	11	12
30	7.9	7.7	5.2	7.6	----------	8.4	11	44	27	14	11	12
31	7.9	----------	5.2	7.6	----------	8.4	----------	42	----------	14	11	----------
Total	262.2	249.3	213.7	196.6	210.6	251.0	280.1	806	1,191	590	401	322
Mean	8.46	8.31	6.89	6.34	7.52	8.10	9.34	26.0	39.7	19.0	12.9	10.7
Ac-ft	520	494	424	390	418	498	556	1,600	2,360	1,170	795	639

Calendar year 1966: Max 46 Min 4.2 Mean 11.1 Ac-ft 8,060
Water year 1966-67: Max 50 Min 4.7 Mean 13.6 Ac-ft 9,860

Table 39.--1700 A. Boundary Springs near Salt Lake City

Location.--In SW¼NW¼ sec. 31, T. 1 S., R. 2 E. (revised), at Forest Boundary, about 1,500 ft upstream from Mill Creek gage (1700 B), and about 7 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Propeller-type totalizing meters.

Extremes.--1963-67: Maximum daily discharge, 2.7 cfs Aug. 2-14, 1964 and June 21, 1965; minimum daily, 1.2 cfs Mar. 27-31, 1964.

Remarks.--The record herein is the combined discharge of Upper and Lower Boundary Springs diverted into pipelines for domestic use. At times part of the flow from the springs reaches Mill Creek without diversion.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	2.1	2.3	2.3	1.7	2.1	2.1	2.2	2.3	2.3	2.4	2.2
2	2.3	2.1	2.3	2.3	1.7	2.1	2.1	2.2	2.3	2.3	2.4	2.2
3	2.3	2.1	2.3	2.3	1.7	2.1	2.1	2.2	2.3	2.3	2.4	2.2
4	2.3	2.1	2.3	2.3	1.7	2.1	2.1	2.2	2.3	2.3	2.4	2.2
5	2.3	2.2	2.3	2.2	1.7	2.1	2.1	2.2	2.3	2.3	2.4	2.2
6	2.2	2.2	2.3	2.2	2.1	2.1	2.1	2.2	2.3	2.3	2.4	2.2
7	2.2	2.2	2.3	2.2	2.1	1.9	2.1	2.2	2.3	2.3	2.4	2.2
8	2.2	2.2	2.3	2.2	2.1	1.9	2.1	2.2	2.3	2.3	2.6	2.2
9	2.2	2.2	2.3	2.2	2.1	1.9	2.1	2.2	2.2	2.3	2.6	2.2
10	2.2	2.2	2.3	2.2	2.1	1.9	2.1	2.2	2.2	2.3	2.6	2.2
11	2.1	2.2	2.3	2.2	2.1	1.9	2.1	2.2	2.2	2.3	2.6	2.2
12	2.1	2.3	2.3	2.2	2.1	1.9	2.1	2.2	2.2	2.3	2.6	2.2
13	2.1	2.3	2.3	2.2	2.1	1.9	2.1	2.2	2.2	2.3	2.6	2.2
14	2.1	2.3	2.3	2.2	2.1	1.9	2.1	2.2	2.2	2.3	2.6	2.2
15	2.0	2.3	2.2	2.2	2.1	1.9	2.1	2.2	2.2	2.3	2.5	2.2
16	2.0	2.3	2.2	2.2	2.1	1.9	2.1	2.3	2.2	2.3	2.5	2.2
17	2.0	2.3	2.2	2.2	2.1	1.9	2.1	2.3	2.2	2.4	2.5	2.2
18	2.0	2.2	2.2	2.2	2.1	1.9	2.1	2.3	2.2	2.4	2.5	2.1
19	2.0	2.2	2.2	2.2	2.1	1.9	2.1	2.3	2.3	2.4	2.5	2.1
20	2.0	2.2	2.2	2.2	2.1	1.9	2.1	2.3	2.3	2.4	2.5	2.1
21	2.1	2.3	2.2	2.2	2.1	2.1	2.1	2.3	2.3	2.4	2.5	2.1
22	2.1	2.3	2.2	2.2	2.1	2.1	2.1	2.3	2.3	2.4	2.4	2.1
23	2.1	2.3	2.2	2.2	2.1	2.1	2.1	2.3	2.3	2.4	2.4	2.1
24	2.0	2.3	2.2	2.2	2.1	2.1	2.1	2.3	2.3	2.4	2.4	2.1
25	2.0	2.3	2.2	1.7	2.1	2.1	2.1	2.3	2.3	2.4	2.4	2.6
26	2.0	2.3	2.2	1.7	2.1	2.1	2.1	2.3	2.3	2.4	2.4	2.6
27	2.0	2.3	2.2	1.7	2.1	2.1	2.1	2.3	2.3	2.4	2.4	2.6
28	2.0	2.3	2.2	1.7	2.1	2.0	2.1	2.3	2.3	2.4	2.4	2.6
29	2.0	2.3	2.2	1.7	----------	2.0	2.1	2.3	2.3	2.4	2.4	2.6
30	2.0	2.3	2.2	1.7	----------	2.0	2.1	2.3	2.3	2.4	2.4	2.6
31	2.0	----------	2.2	1.7	----------	2.0	----------	2.3	----------	2.4	2.4	----------
Total	65.2	67.2	69.6	65.1	56.8	61.9	63.0	69.8	68.0	72.8	76.5	67.7
Mean	2.10	2.24	2.25	2.10	2.03	2.00	2.10	2.25	2.27	2.35	2.47	2.26
Ac-ft	129	133	138	129	113	123	125	138	135	144	152	134

Calendar year 1966: Max 2.5 Min 2.0 Mean 2.20 Ac-ft 1,600
Water year 1966-67: Max 2.6 Min 1.7 Mean 2.20 Ac-ft 1,590

Table 40.--1700 B. Mill Creek (channel only) near Salt Lake City

Location.--Lat 40°41'20", long 111°46'55", in NW¼SE¼ sec. 36, T. 1 S., R. 1 E., 1,000 feet upstream from bridge at mouth of canyon, 0.7 mile east of Wasatch Boulevard, and 7 miles southeast of Salt Lake City.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Water-stage recorder and rating flume. Altitude of gage is 5,050 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 54 cfs June 11, 13, 1965; minimum daily, 1.7 cfs Dec. 21, 1965.

Remarks.--Records good. No regulation. Water is diverted from Boundary Springs, about 1,500 feet upstream, into pipelines that bypass the gage.

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.1	5.6	5.4		5.9	5.9	6.4	8.6	39	24	14	8.6
2	6.9	6.1	5.4		5.6	5.9	6.4	8.0	40	23	13	8.6
3	6.1	6.9	5.9		5.6	6.1	6.4	8.3	41	22	13	8.3
4	6.1	6.9	5.6		5.6	6.1	6.4	8.3	45	21	12	8.3
5	6.1	6.6	5.6		5.6	6.1	6.4	9.2	48	21	12	8.3
6	6.1	6.6	6.1		5.4	5.9	6.6	9.5	48	20	12	8.6
7	6.4	6.6	6.1	3.0	5.6	5.9	6.6	11	48	20	12	8.6
8	6.6	7.2	5.6		4.4	5.9	6.6	12	46	22	12	8.6
9	6.6	6.9	3.0		5.6	5.9	6.6	13	44	20	12	8.3
10	6.4	6.4	3.0		5.6	5.9	6.9	18	42	18	11	8.6
11	6.1	7.5	5.6		5.6	5.9	6.6	18	41	18	11	8.6
12	6.4	7.8	5.9		5.6	5.9	6.6	17	40	17	10	8.9
13	7.5	7.8	5.9		5.6	6.1	6.6	16	41	17	11	8.9
14	7.2	6.6	5.9	3.5	5.4	6.1	6.6	15	39	17	11	9.2
15	6.9	5.9	5.9	3.5	3.7	6.1	6.9	15	38	17	10	8.9
16	6.6	5.9	5.4	3.5	4.4	6.1	7.8	16	37	17	9.9	8.6
17	6.6	6.1	5.6	4.2	5.6	6.1	7.5	18	36	18	9.9	8.6
18	6.4	5.9	5.9	4.2	6.1	6.1	7.8	20	35	17	9.5	8.3
19	6.4	5.9	5.9	4.2	5.4	6.1	8.3	24	36	16	9.9	8.3
20	6.4	5.6	5.6	4.9	4.7	6.1	8.3	21	37	15	9.9	8.3
21	6.6	5.4	5.9	5.9	5.2	6.1	8.3	29	38	15	9.5	8.3
22	6.6	5.4	3.5	5.9	5.4	6.1	8.0	33	37	15	9.9	8.6
23	6.6	5.6	2.7	6.1	6.1	6.1	8.0	36	37	14	9.9	8.9
24	6.1	5.2	2.5	5.9	6.1	6.1	7.8	41	34	14	9.5	8.6
25	6.1	3.7	2.5	5.9	6.1	6.1	7.8	48	30	14	9.2	8.3
26	5.9	4.2	2.7	5.6	6.1	6.4	7.8	48	30	13	9.2	8.0
27	5.9	5.4		5.9	5.9	6.4	7.8	48	27	13	8.9	7.5
28	5.6	5.6		5.9	5.9	6.4	8.0	48	27	13	9.2	7.5
29	5.9	5.6	3.0	5.6		6.4	8.3	45	25	13	8.9	8.9
30	5.9	5.4		5.9	----------	6.4	8.6	42	25	12	8.9	9.5
31	5.9	----------		5.9	----------	6.4	----------	40	----------	12	8.6	----------
Total	197.0	182.3	144.1	131.5	153.8	189.1	218.7	743.9	1,131	528	326.8	255.5
Mean	6.35	6.08	4.65	4.24	5.49	6.10	7.29	24.0	37.7	17.0	10.5	8.52
Ac-ft	391	362	286	261	305	375	434	1,480	2,240	1,050	648	507

Calendar year 1966: Max 44 Min 2.1 Mean 8.98 Ac-ft 6,500
Water year 1966-67: Max 48 Min 2.5 Mean 11.5 Ac-ft 8,340

Table 41.--1700 C-M. Diversions from Mill Creek between gaging stations 1700 B and 1702

Locations.--Chamberlain Ditch (1700 C) diverts from the left bank in the NW¼SE¼ sec. 36, T. 1 S., R. 1 E. Stillman-Hussy Ditch (1700 D) diverts from the left bank and Osguthorpe (1700 E) Ditch diverts from the right bank in the NE¼SW¼ sec. 36, T. 1 S., R. 1 E. Stillman-Russell (1700 F) and James Russell (1700 G) Ditches divert from the left bank in SW¼NW¼ sec. 36, T. 1 S., R. E. Tripp Ditch (1700 H) diverts from the right bank in NE¼NE¼ sec. 35, T. 1 S., R. 1 E. John and Franklin Neff Ditch (1700 I) diverts from the left bank in NE¼NW¼ sec. 35, T. 1 S., R. 1 E. Amos Neff Ditch (1700 J) diverts from the left bank and Brigham Young Ditch (1700 K) diverts from the right bank in NW¼NW¼ sec. 35, T. 1 S., R. 1 E. Keller Ditch (1700 L) diverts from the left bank in NW¼NW¼ sec. 34, T. 1 S., R. 1 E. White Ditch (1700 M) diverts from the right bank in NE¼NW¼ sec. 34, T. 1 S., R. 1 E.

Records available.--October 1963 to September 1967.

Extremes.--1963-67: Maximum daily discharge, 14 cfs July 3, 1965; no flow during several months of each year.

Remarks.--The record herein, computed from the Mill Creek Water Commissioner's records, is the combined discharge of the 11 diversions described above. The water is used for irrigation and domestic supply.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4	0					1	1	8	7	6	6
2	4	0					1	1	9	7	10	0
3	4	0					1	1	8	7	7	2
4	5	0					1	1	10	7	5	6
5	5	0					1	1	7	7	5	6
6	5	0					1	1	7	8	6	7
7	4	0					1	1	7	9	6	7
8	4	0					1	1	7	9	9	6
9	3	0					1	1	6	9	7	6
10	3	0					1	1	6	9	7	6
11	3	1					1	1	6	8	7	6
12	3	1					1	1	6	9	7	7
13	3	1					2	1	6	9	8	7
14	3	1					2	1	6	9	8	7
15	3	1					2	1	7	9	10	7
16	2	1					1	1	7	10	9	7
17	2	1					1	1	7	11	7	6
18	2	1					1	1	7	10	8	6
19	2	1					1	2	8	10	8	7
20	2	0					1	2	7	10	7	7
21	2	0					1	2	6	9	7	6
22	2	0					1	2	6	9	5	5
23	1	0					1	2	5	9	9	5
24	1	0					1	2	6	9	9	6
25	1	0					1	2	6	12	8	6
26	0	1					1	3	7	10	8	6
27	0	1					1	3	7	9	8	6
28	0	1					1	3	7	9	8	5
29	0	1					3	3	7	8	6	5
30	0	1			----------		2	4	7	8	8	4
31	0	----------			----------		----------	4	----------	7	7	----------
Total	73	14	0	0	0	0	36	52	206	273	230	173
Mean	2.4	0.5	0	0	0	0	1.2	1.7	6.9	8.8	7.4	5.8
Ac-ft	145	28	0	0	0	0	71	103	409	541	456	343

Calendar year 1966: Max 12 Min 0 Mean 3.0 Ac-ft 2,200
Water year 1966-67: Max 12 Min 0 Mean 2.9 Ac-ft 2,100

Table 42.--1702. Mill Creek at 2200 East, near Salt Lake City

Location.--Lat 40°41'44", long 111°49'40", in NE¼NW¼ sec. 34, T. 1 S., R. 1 E., about 2.5 miles downstream from mouth of canyon and 5.7 miles southeast of Salt Lake City.

Drainage area.--22.6 sq mi.

Records available.--October 1963 to September 1967.

Gage.--Water-stage recorder. Altitude of gage is 4,560 ft (from topographic map).

Extremes.--1963-67: M ximum daily discharge, 51 cfs June 12, 1965; minimum daily, 0.2 cfs on several days in 1963.

Remarks.--Records fair.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	2.9	2.7	2.5	3.0	3.4	6.2	7.0	38	14	4.8	2.9
2	2.0	3.0	2.6	2.5	3.2	3.3	6.0	7.0	36	14	5.0	7.2
3	2.0	3.0	5.0	2.5	3.2	3.5	6.0	7.0	37	14	2.2	4.2
4	1.4	3.0	3.5	3.0	3.2	3.5	5.5	7.0	39	12	2.6	1.6
5	2.0	3.3	3.6	3.0	3.2	3.5	5.5	8.0	45	10	2.7	1.4
6	1.7	2.7	4.0	2.9	3.2	3.5	5.5	8.0	46	9.0	2.7	2.1
7	1.8	2.7	3.7	2.3	2.8	3.5	5.5	9.0	44	9.8	2.3	.5
8	1.7	4.3	3.4	2.0	2.4	3.5	5.5	10	44	11	1.8	.6
9	1.8	3.3	1.7	2.0	3.3	3.5	5.0	12	37	11	2.4	.7
10	2.0	3.3	1.1	2.0	3.2	3.5	5.0	21	36	9.3	2.1	.7
11	2.0	3.6	2.9	2.5	3.2	3.5	5.0	19	35	7.8	2.1	.5
12	3.3	4.0	3.6	3.5	3.0	3.5	5.0	17	36	6.0	1.7	.7
13	6.7	3.4	3.6	3.4	3.0	4.0	5.0	17	35	4.3	1.8	.8
14	3.9	3.2	3.5	3.3	2.6	4.0	5.0	16	35	4.6	1.6	.7
15	3.6	3.0	3.4	3.2	1.6	4.0	5.0	16	35	5.2	1.5	2.8
16	3.5	2.9	2.9	3.0	2.3	4.0	6.0	16	38	7.2	1.2	3.7
17	4.0	2.9	3.3	2.9	3.5	4.0	6.0	17	35	8.3	2.0	.6
18	4.3	2.9	3.4	3.0	3.5	4.0	6.0	18	33	6.7	2.4	.6
19	3.4	2.8	3.4	3.0	3.3	6.0	7.0	20	36	5.3	1.0	.7
20	3.3	2.8	3.3	3.5	3.3	6.0	7.0	20	41	3.7	1.5	.7
21	3.2	2.5	3.4	4.0	3.0	5.0	7.0	22	36	3.0	1.0	.5
22	3.3	2.8	2.0	4.0	3.6	4.5	7.0	26	34	2.4	1.2	.8
23	2.8	2.7	1.5	4.0	3.6	4.5	7.0	28	31	1.8	.9	1.0
24	2.8	2.4	1.5	4.0	3.5	4.5	7.0	32	28	2.5	.9	.7
25	3.2	1.6	1.5	4.0	3.7	4.5	7.0	43	25	2.9	.7	.7
26	3.0	1.6	2.0	4.5	3.7	4.5	6.0	49	22	3.0	.7	.7
27	2.8	2.6	2.0	5.0	3.5	5.0	6.0	49	18	2.6	.8	.7
28	2.3	2.8	2.5	4.5	3.4	5.5	6.0	45	17	2.5	.7	.7
29	2.4	2.8	2.5	4.0	----------	5.8	6.0	47	15	2.0	.6	.7
30	2.8	2.6	2.5	3.5	----------	6.5	7.0	43	14	2.2	.6	.6
31	3.0	----------	2.5	3.3	----------	6.4	----------	38	----------	2.0	1.1	----------
Total	86.3	87.4	88.5	100.8	88.0	134.4	178.7	694.0	1,001	200.1	54.6	40.8
Mean	2.78	2.91	2.85	3.25	3.14	4.34	5.96	22.4	33.4	6.45	1.76	1.36
Ac-ft	171	173	176	200	175	267	354	1,380	1,980	397	108	81

Calendar year 1966: Max 40 Min 0.3 Mean 5.03 Ac-ft 3,640
Water year 1966-67: Max 49 Min 0.3 Mean 7.55 Ac-ft 5,460

Note.--No gage-height record Jan. 19-30, Mar. 3-26, Apr. 2 to May 9; discharge estimated.

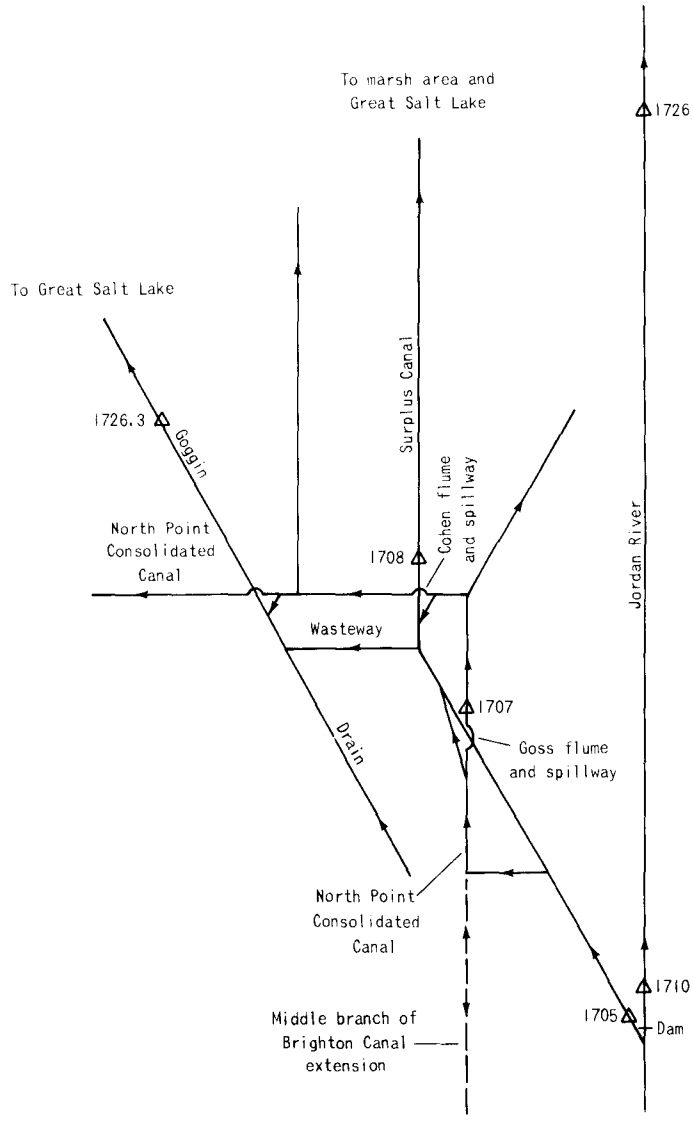

Figure 5.— Schematic diagram showing relation of flows in lower Jordan River basin.

Table 43.--1705. Surplus Canal at Salt Lake City

Location.--Lat 40°43'40", long 111°55'35", in SW¼SW¼ sec. 14, T. 1 S., R. 1 W., on right bank 400 ft downstream from diversion dam at head of canal, and about 0.1 mile downstream from highway bridge over Jordan River on 21st South Street; auxiliary gage at diversion dam.

Records available.--December 1942 to September 1967. December 1942 to September 1960 in the annual series of Water-Supply Papers of the U.S. Geological Survey, with monthly summaries in WSP 1314 and 1734. October 1960 to September 1967 in Surface Water Records of Utah, published annually.

Gage.--Water-stage recorder. Datum of gage is 4,219.02 ft above mean sea level, datum of 1929. Prior to Oct. 22, 1952, at site 50 ft upstream at present datum.

Average discharge.--24 years (1943-67), 179 cfs (129,600 acre-ft per year).

Extremes.--1942-67: Maximum discharge, 1,700 cfs June 7, 1952; no flow Jan. 21 to Feb. 28, 1963.

Remarks.--Records good. Flow is regulated at the diversion structure 400 ft above the station. (See fig. 5.) The canal was built to bypass the floodwater of the Jordan River around the Salt Lake City residential and industrial area. (See table 46 for records of combined flow of the Jordan River and the canal.) Several diversions for irrigation and waterfowl ponds are below the station.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	156	89	93	87	163	121	135	118	571	347	183	170
2	156	89	93	91	150	116	118	110	485	356	215	147
3	230	93	116	85	123	108	121	105	547	319	215	138
4	253	100	118	82	116	108	118	103	648	319	187	153
5	241	105	132	87	121	100	121	105	725	315	163	159
6	234	108	135	80	118	93	121	98	681	276	159	187
7	219	108	138	82	105	91	118	85	638	260	166	204
8	208	123	121	74	96	67	116	87	667	256	159	234
9	215	116	116	76	103	59	113	96	624	234	144	260
10	212	105	110	78	103	54	110	190	614	215	144	256
11	176	100	116	76	103	56	100	416	585	170	129	234
12	194	100	118	80	103	63	100	381	686	141	135	245
13	323	98	113	80	108	70	89	339	926	144	138	264
14	253	98	105	85	103	70	76	327	773	144	144	249
15	183	93	108	89	96	63	113	307	681	170	138	245
16	180	96	91	87	87	65	93	291	609	201	126	219
17	173	80	87	74	85	63	78	276	542	368	116	219
18	150	85	87	70	85	70	76	280	542	398	129	204
19	123	89	91	67	85	93	74	368	643	295	126	187
20	113	89	98	72	82	82	80	447	825	291	141	197
21	110	89	80	76	80	76	80	470	797	260	166	194
22	110	82	87	80	87	72	82	513	768	226	153	264
23	105	78	85	93	89	72	87	624	811	226	147	351
24	108	85	85	87	100	76	78	720	705	256	132	351
25	121	89	89	80	108	80	70	749	696	234	126	331
26	103	93	91	82	135	76	70	705	667	183	135	280
27	98	96	89	89	126	76	74	677	619	170	144	260
28	96	96	93	98	123	80	87	753	504	176	156	237
29	91	93	82	100	----------	85	103	773	457	166	194	197
30	89	89	82	103	----------	113	116	821	398	170	197	204
31	89	----------	85	129	----------	105	----------	672	----------	173	187	----------
Total	5,112	2,854	3,134	2,619	2,983	2,523	2,917	12,006	19,434	7,459	4,794	6,840
Mean	165	95.1	101	84.5	107	81.4	97.2	387	648	241	155	228
Ac-ft	10,140	5,660	6,220	5,190	5,920	5,000	5,790	23,810	38,550	14,790	9,510	13,570

Calendar year 1966: Max 797 Min 76 Mean 172 Ac-ft 124,600
Water year 1966-67: Max 926 Min 54 Mean 199 Ac-ft 144,100

Table 44.--1707. North Point Consolidated Canal below Goss flume, at Salt Lake City

Location.--Lat 40°46'22", long 111°58'43", in SE¼SW¼ sec. 32, T. 1 N., R. 1 W., on right bank at downstream end of Goss flume over Surplus Canal, about 350 feet north of U.S. Highway 40, and 4.7 miles northwest of Salt Lake City.

Records available.--October 1963 to September 1967.

Gage.--Water-stage recorder.

Extremes.--1963-67: Maximum daily discharge, 96 cfs May 25, 1967; no flow for long periods.

Remarks.--Records fair. This canal diverts from the Surplus Canal for irrigation and is connected with the Brighton Canal system, which diverts from the Jordan River. (See fig. 5 and table 17.)

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	62	22			0	6	7	82	0	0	88
2	53	56	11			0	6	7	80	0	0	80
3	54	45	0			0	6	12	80	52	42	72
4	54	38	0			0	6	32	80	79	60	66
5	56	39	0			0	6	33	80	82	58	62
6	60	38	0			0	7	31	80	70	56	59
7	57	32	0			0	8	31	80	68	66	62
8	54	28	0			0	12	26	80	58	82	60
9	55	20	0			0	15	23	80	56	78	60
10	59	7	0			0	15	34	80	68	80	59
11	56	6	0			0	15	19	80	72	80	52
12	56	13	0			0	15	18	80	76	80	42
13	54	19	0			0	16	13	40	72	76	40
14	47	19	0			0	14	9	0	70	66	37
15	50	19	0			0	16	9	0	74	63	37
16	35	19	0			0	15	9	0	77	66	32
17	2	19	0			0	14	9	0	66	70	31
18	0	19	0			0	14	9	0	50	72	34
19	0	20	0			0	14	31	0	70	78	42
20	0	19	0			0	15	36	0	70	77	43
21	0	20	0			15	16	36	0	68	33	44
22	0	20	0			27	16	35	0	70	0	45
23	0	20	0			24	16	64	0	71	0	46
24	0	20	0			25	16	84	0	74	0	45
25	0	20	0			25	17	96	0	72	0	44
26	0	20	0			25	16	75	0	72	0	45
27	0	21	0			25	16	48	0	76	0	44
28	4	22	0			30	16	94	0	80	0	43
29	50	22	0			28	11	90	0	36	62	21
30	62	22	0		----------	27	7	84	0	0	90	0
31	64	----------	0		----------	12	----------	78	----------	0	90	----------
Total	1,034	744	33	0	0	263	382	1,182	1,002	1,849	1,525	1,435
Mean	33.4	24.8	1.1	0	0	8.5	12.7	38.1	33.4	59.7	49.2	47.8
Ac-ft	2,050	1,480	65	0	0	522	758	2,340	1,990	3,670	3,020	2,850

Calendar year 1966: Max 90 Min 0 Mean 26.6 Ac-ft 19,250
Water year 1966-67: Max 96 Min 0 Mean 25.9 Ac-ft 18,740

Table 45.--1708. Surplus Canal at Cohen flume, near Salt Lake City

Location.--Lat 40°47'54", long 112°00'51", in SW¼SE¼ sec. 24, T. 1 N., R. 2 W., 0.3 mile downstream from spillway to Goggin Drain, 3.2 miles downstream from bridge on U.S. Highway 40, and 6.9 miles northwest of Salt Lake City.

Records available.--October 1963 to September 1967.

Gage.--Water-stage recorder.

Extremes.--1963-67: Maximum daily discharge, about 600 cfs June 7, 8, 1964; minimum daily, 16 cfs Aug. 25, 1964.

Correction.--The total discharge for the water year 1965-66 was 88,590 acre-feet instead of the 89,590 acre-feet shown in Utah Basic-Data Release 13.

Remarks.--Records fair. Water is diverted above the station for irrigation and to Goggin Drain and below the station to waterfowl ponds. (See fig. 5.)

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	166	52	73	81	171	121	119	115	193	145	125	64
2	148	48	121	84	158	117	123	110	163	142	160	52
3	192	48	115	85	133	114	124	95	155	109	127	47
4	219	55	105	78	118	107	123	76	178	105	85	55
5	205	64	104	82	118	103	118	75	204	147	63	60
6	190	66	125	83	116	92	104	72	279	199	51	75
7	170	68	141	81	108	97	100	62	275	167	45	89
8	155	82	131	78	100	76	96	62	256	161	42	110
9	152	104	128	77	100	60	88	75	247	167	37	106
10	164	100	124	79	101	54	83	92	225	142	38	62
11	141	96	125	79	102	55	77	234	212	102	36	59
12	134	91	124	82	100	60	76	228	229	78	39	40
13	248	84	119	83	98	70	72	201	392	72	42	33
14	258	80	107	85	91	70	50	194	388	71	43	31
15	135	77	108	93	91	70	81	193	332	87	43	30
16	170	73	99	95	83	70	86	157	304	99	43	61
17	193	71	86	85	79	60	73	143	265	201	39	141
18	124	68	85	80	79	60	63	147	232	194	43	148
19	102	70	88	75	79	20	52	186	267	150	48	135
20	102	70	95	74	77	20	58	227	451	212	50	142
21	115	66	85	75	77	60	58	267	502	148	75	140
22	120	66	86	74	82	30	61	270	427	81	95	176
23	122	61	86	88	89	20	68	238	465	75	150	222
24	120	60	85	85	100	20	60	236	422	101	145	220
25	130	64	88	74	107	25	50	312	362	99	110	245
26	123	68	89	75	134	25	48	320	264	102	70	263
27	113	73	89	77	127	25	50	302	230	120	80	260
28	56	74	90	87	121	37	58	316	241	122	90	243
29	48	75	83	92	----------	91	86	324	208	150	85	228
30	50	73	80	98	----------	115	112	332	177	171	50	254
31	52	----------	81	120	----------	84	----------	270	----------	158	54	----------
Total	4,417	2,147	3,145	2,584	2,939	2,028	2,417	5,931	8,545	4,077	2,203	3,791
Mean	142	71.6	101	83.4	105	65.4	80.6	191	285	132	71.1	126
Ac-ft	8,760	4,260	6,240	5,130	5,830	4,020	4,790	11,760	16,950	8,090	4,370	7,520

Calendar year 1966 : Max 484 Min 18 Mean 123 Ac-ft 89,320
Water year 1966-67: Max 502 Min 20 Mean 121 Ac-ft 87,720

Note.--No gage-height record Mar. 11-27; no stage-discharge relation (variable backwater) Jan. 17, 18, May 3-8, Aug. 21-30; discharge estimated.

Table 46.--1710. Jordan River at Salt Lake City

Location.--Lat 40°43'40", long 111°55'25", in SW¼SW¼ sec. 14, T. 1 S., R. 1 W., on left bank 800 ft downstream from diversion structure at head of Surplus Canal, 0.2 mile downstream from Highway bridge on 21st South Street, Salt Lake City, and 2 miles downstream from Mill Creek.

Drainage area.--3,420 sq mi, approximately; (including 255 sq mi in closed basin in Cedar Valley, Utah County).

Records available.--December 1942 to September 1967. December 1942 to September 1960 in the annual series of Water-Supply Papers of the U.S. Geological Survey, with monthly summaries in WSP 1314 and 1734. October 1960 to September 1967 in Surface Water Records of Utah, published annually.

Gage.--Water-stage recorder. Datum of gage is 4,220.73 ft above mean sea level, datum of 1929.

Average discharge.--24 years (1943-67), 139 cfs (100,600 acre-ft per year).

Extremes.--1942-67: Maximum discharge, 384 cfs June 3, 1944; no flow on several days in 1952, 1962-65 (entire flow of Jordan River diverted to Surplus Canal). Maximum combined discharge (Jordan River and Surplus Canal), 1,820 cfs June 7, 1952; minimum daily, 89 cfs June 23, 1961.

Remarks.--Records good. Flow is completely regulated since reconstruction in May 1952 of the Surplus Canal diversion dam 800 ft upstream (fig. 5). Flow is affected by gates and pumps at outlet of Utah Lake. Many diversions above station for industrial and municipal water supplies and irrigation. See table 43 for records of discharge of Surplus Canal; see the following page for records of the combined discharge.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	158	133	107	133	142	145	137	138	175	142	154	148
2	156	133	107	129	149	144	132	138	165	141	159	144
3	171	135	109	135	141	144	132	137	162	137	158	142
4	171	129	105	138	139	143	135	136	160	137	155	144
5	169	122	102	133	139	139	137	137	161	135	151	144
6	168	120	98	132	137	138	137	137	168	137	149	147
7	167	121	106	130	139	137	136	132	157	161	150	151
8	164	125	109	130	140	131	134	131	142	173	148	156
9	166	121	108	130	140	127	134	132	132	168	146	158
10	166	126	107	130	139	127	134	134	130	165	146	156
11	159	131	107	130	138	127	136	72	117	157	144	163
12	163	130	108	130	135	117	135	40	87	153	144	169
13	171	130	109	130	135	114	133	40	34	153	144	172
14	165	126	115	130	134	127	130	40	30	153	146	168
15	165	121	115	130	135	126	139	37	71	157	144	167
16	163	121	118	135	134	127	134	37	87	122	144	164
17	162	117	127	135	132	127	129	37	118	81	144	162
18	158	118	127	135	133	131	127	37	136	158	145	161
19	153	120	127	132	133	139	125	37	142	128	145	160
20	150	119	104	133	132	135	126	37	35	69	146	161
21	149	117	128	135	132	135	125	37	53	67	152	161
22	147	115	125	135	134	132	125	45	123	63	149	173
23	147	113	124	138	135	125	126	79	132	62	147	192
24	147	113	123	135	139	125	126	100	110	63	145	194
25	150	111	124	132	140	125	130	143	105	117	145	191
26	147	109	123	133	147	124	130	175	118	139	146	185
27	143	109	124	135	144	124	130	194	141	148	147	183
28	142	109	118	137	145	126	132	176	153	153	148	179
29	137	109	128	137	----------	126	136	162	151	151	153	172
30	136	106	128	139	----------	132	137	100	146	151	153	173
31	136	----------	125	147	----------	132	----------	146	----------	151	151	----------
Total	4,846	3,609	3,585	4,143	3,862	4,051	3,959	3,123	3,641	4,092	4,598	4,940
Mean	156	120	116	134	138	131	132	101	121	132	148	165
Ac-ft	9,610	7,160	7,110	8,220	7,660	8,040	7,850	6,190	7,220	8,120	9,120	9,800

Calendar year 1966: Max 176 Min 90 Mean 143 Ac-ft 103,800
Water year 1966-67: Max 194 Min 30 Mean 133 Ac-ft 96,100

Table 46.--1710. Jordan River at Salt Lake City--Continued

Combined discharge, in cubic feet per second, of Jordan River and Surplus Canal at Salt Lake City, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	314	222	200	220	305	266	272	256	746	489	337	318
2	312	222	200	220	299	260	250	248	650	497	374	291
3	401	228	225	220	264	252	253	242	709	456	373	280
4	424	229	223	220	255	251	253	239	808	456	342	297
5	410	227	234	220	260	239	258	242	886	450	314	303
6	402	228	233	212	255	231	258	235	849	413	308	334
7	386	229	244	212	244	228	254	217	795	421	316	355
8	372	248	230	204	236	198	250	218	809	429	307	390
9	381	237	224	206	243	186	247	228	756	402	290	418
10	378	231	217	208	242	181	244	324	744	380	290	412
11	335	231	223	206	241	183	236	488	702	327	273	397
12	357	230	226	210	238	180	235	421	773	294	279	414
13	494	228	222	210	243	184	222	379	960	297	282	436
14	418	224	220	215	237	197	206	367	803	297	290	417
15	348	214	223	219	231	189	252	344	752	327	282	412
16	343	217	209	222	221	192	227	328	696	323	270	383
17	335	197	214	209	217	190	207	313	660	449	260	381
18	308	203	214	205	218	201	203	317	678	556	274	365
19	276	209	218	199	218	232	199	405	785	423	271	347
20	263	208	202	205	214	217	206	484	860	360	287	358
21	259	206	208	211	212	211	205	507	850	327	318	355
22	257	197	212	215	221	204	207	558	891	289	302	437
23	252	191	209	231	224	197	213	703	943	288	294	543
24	255	198	208	222	239	201	204	820	815	319	277	545
25	271	200	213	217	248	205	200	892	801	351	271	522
26	250	202	214	215	282	200	200	880	785	322	281	465
27	241	205	213	224	270	200	204	871	760	318	291	443
28	238	205	211	235	268	206	219	929	657	329	304	416
29	228	202	210	237	----------	211	239	935	608	317	347	369
30	225	195	210	242	----------	245	253	921	544	321	350	377
31	225	----------	210	276	----------	237	----------	818	----------	324	338	----------
Total	9,958	6,463	6,719	6,762	6,845	6,574	6,876	15,129	23,075	11,551	9,392	11,780
Mean	321	215	217	218	244	212	229	488	769	373	303	393
Ac-ft	19,750	12,820	13,330	13,410	13,580	13,040	13,640	30,010	45,770	22,910	18,630	23,370

Calendar year 1966: Max 966 Min 191 Mean 315 Ac-ft 228,400
Water year 1966-67: Max 960 Min 180 Mean 332 Ac-ft 240,200

Table 47.--1715 F. Diversion to Salt Lake City water supply from Mountain Dell Reservoir, near Salt Lake City

Location.--In SE¼NE¼ sec. 9, T. 1 S., R. 2 E., at Mountain Dell Dam, and 9 miles east of Salt Lake City.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Weir at the intake to the pipeline.

Extremes.--1963-67: Maximum daily discharge, 54.4 cfs Aug. 13, 1967; no flow for long periods.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24.8	7.0	2.5	4.5	12.9	4.5	3.3	8.7	15.0	33.3	18.1	0
2	7.8	8.4	6.0	4.3	7.8	4.3	3.4	30.2	31.6	24.8	22.2	0
3	3.9	3.4	0	4.3	5.0	4.5	4.7	24.8	34.6	30.5	23.7	0
4	14.0	0	0	4.3	4.7	4.5	3.7	35.7	23.6	37.2	19.4	0
5	11.3	5.9	2.3	4.5	4.5	4.5	3.1	21.7	29.5	34.9	25.7	0
6	13.8	4.2	0	4.5	4.5	4.5	3.6	32.6	33.2	23.7	21.2	0
7	15.2	8.4	0	4.3	6.4	4.3	6.5	31.0	15.2	21.4	29.6	0
8	24.0	7.8	3.7	4.7	5.9	4.3	6.7	31.3	22.0	31.5	29.1	3.7
9	24.8	7.8	4.7	4.5	3.4	4.3	6.2	30.1	23.4	26.5	31.9	8.3
10	23.3	6.5	4.7	4.0	6.2	4.7	5.9	12.6	23.7	36.9	32.6	5.9
11	23.3	6.7	4.7	4.2	7.8	3.9	4.2	20.2	30.4	40.5	49.8	4.0
12	18.6	7.3	9.1	4.3	6.5	4.7	4.7	24.8	19.7	42.2	52.5	3.0
13	7.4	7.4	6.0	4.2	6.4	4.0	14.0	29.5	18.9	37.8	54.4	6.6
14	23.9	6.4	6.7	4.3	6.2	4.5	24.3	23.3	18.1	31.0	52.4	10.0
15	11.6	2.5	5.3	4.2	6.4	3.9	21.7	38.1	19.4	24.0	45.6	14.8
16	15.5	0	5.1	4.2	5.4	6.0	17.7	40.1	19.8	14.9	13.2	17.0
17	18.6	0	5.0	4.0	6.2	3.1	25.6	41.1	23.3	11.9	.5	6.2
18	4.7	0	5.1	.8	5.3	0	26.4	41.9	19.2	12.7	0	5.6
19	16.7	0	4.8	3.7	5.1	0	13.6	43.4	35.5	25.3	0	8.0
20	9.6	0	4.5	4.7	4.7	0	11.6	34.1	30.7	28.2	0	11.7
21	20.9	0	4.7	4.7	4.3	0	13.0	40.3	28.1	25.0	0	16.0
22	7.6	4.3	11.6	5.9	4.2	0	4.0	45.0	23.3	27.3	0	6.0
23	22.2	6.2	12.7	4.2	4.2	0	7.8	37.5	18.8	23.0	0	0
24	20.5	4.7	12.1	5.1	4.2	12.4	19.1	34.7	24.0	29.9	0	0
25	23.7	7.1	11.0	4.8	4.2	7.9	23.4	17.1	33.0	25.0	0	12.3
26	17.1	5.7	4.8	6.0	4.2	6.2	21.7	28.4	45.0	23.3	0	13.9
27	18.6	7.1	5.1	3.9	4.2	22.8	23.9	35.5	46.8	26.0	0	21.5
28	12.7	6.4	4.5	4.0	4.2	8.5	21.7	34.7	39.5	25.1	0	21.0
29	10.4	2.8	5.1	4.5	----------	7.6	12.4	20.5	40.9	23.1	0	17.0
30	8.4	8.1	4.7	11.0	----------	4.2	12.6	6.8	37.7	23.3	0	3.0
31	9.1	----------	4.3	11.3	----------	3.4	----------	20.5	----------	29.5	0	----------
Total	484.0	142.1	160.8	147.9	155.0	147.5	370.5	916.2	823.9	849.7	521.9	215.5
Mean	15.6	4.74	5.19	4.77	5.54	4.76	12.4	29.6	27.5	27.4	16.8	7.18
Ac-ft	960	282	319	293	307	293	735	1,820	1,630	1,690	1,040	427

Calendar year 1966: Max 47.3 Min 0 Mean 14.2 Ac-ft 10,260
Water year 1966-67: Max 54.4 Min 0 Mean 13.5 Ac-ft 9,800

Table 48.--1716. Parleys Creek at Suicide Rock, near Salt Lake City

Location.--Lat 40°42'35", long 111°47'48", in NE¼NE¼ sec. 26, T. 1 S., R. 1 E., at mouth of canyon about 0.1 mile upstream from Wasatch Boulevard, and 6 miles southeast of Salt Lake City.

Drainage area.--50.7 sq mi.

Records available.--October 1963 to September 1967. Records for station 1715, at a site 0.7 mile upstream; August 1898 to September 1963 (monthly flow for August 1898 to September 1960, adjusted for diversion and change in reservoir contents, in U.S. Geological Survey WSP 1314 and 1734; October 1960 to September 1963 in the files of the Salt Lake City Water Department).

Gage.--Water-stage recorder. Altitude of gage is 4,710 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 219 cfs May 19, 1964; no flow on Oct. 27, 29, 31, Nov. 1, 2, 1963.

Remarks.--Records good. Flow regulated by Mountain Dell Reservoir (capacity, about 3,400 acre-ft). Diversion to Salt Lake City (1715 F, table 47) bypasses this station. The monthly flow of Parleys Creek, adjusted for diversion and change in reservoir contents, is shown following the daily discharge table. A diversion of 100-200 acre-feet per year (mostly during May-September) to irrigate the Mountain Dell Golf Course is not included in the adjusted flow.

Cooperation.--Records for Mountain Dell Reservoir and the diversion to the Salt Lake City water supply furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	3.7	2.9	2.3	2.9	2.9	4.6	7.3	15	10	4.1	2.6
2	2.9	3.7	2.9	2.3	2.9	3.1	5.0	8.0	16	8.0	3.7	2.6
3	3.1	3.7	3.5	2.3	2.9	3.1	5.0	10	18	7.3	3.3	2.8
4	2.8	7.3	2.9	2.3	2.9	3.1	5.0	8.0	19	7.3	3.5	2.8
5	2.8	3.9	3.1	2.3	2.9	3.1	5.4	8.4	19	7.3	4.6	2.8
6	2.8	3.9	3.3	2.3	2.9	3.1	5.4	9.2	25	7.3	3.5	2.8
7	3.1	3.5	4.1	2.3	2.8	3.1	5.4	10	26	7.3	3.5	2.9
8	3.7	4.4	3.5	2.3	2.8	3.1	5.7	12	28	8.4	3.1	3.1
9	3.7	3.7	3.3	2.3	2.6	2.9	5.7	14	29	7.3	3.3	3.1
10	3.9	3.7	3.3	2.3	2.6	2.9	6.1	17	28	6.1	5.4	3.5
11	3.9	3.7	3.1	2.4	2.6	3.1	6.1	33	29	7.3	7.3	3.1
12	4.1	3.9	2.9	2.4	2.8	3.1	6.5	56	24	10	5.7	2.8
13	6.5	3.7	2.8	2.4	2.8	3.3	6.5	82	14	6.5	3.7	2.6
14	5.0	3.7	2.8	2.4	2.8	3.3	6.5	86	23	6.9	3.7	2.6
15	5.0	4.1	2.6	2.4	2.8	3.1	6.5	84	24	4.6	3.7	2.6
16	4.6	8.0	2.6	2.4	2.8	3.1	7.6	89	33	5.4	3.3	2.3
17	4.6	7.3	2.4	2.4	2.8	3.3	7.6	89	24	6.5	3.1	2.3
18	4.6	7.3	2.4	2.4	2.8	3.7	7.6	95	19	6.9	2.9	2.3
19	4.1	7.6	2.4	2.4	2.9	4.1	7.6	64	28	6.5	3.7	2.3
20	4.1	7.6	2.4	2.4	2.9	4.1	7.6	75	26	5.0	2.9	2.3
21	4.1	6.1	2.4	2.6	2.9	4.1	7.6	73	25	4.1	2.8	2.3
22	3.9	2.9	2.3	2.8	2.9	4.4	7.6	48	25	3.7	2.9	2.4
23	4.1	3.1	2.3	2.8	2.9	4.4	7.6	20	28	4.4	2.9	2.4
24	4.4	2.9	2.3	2.8	2.9	4.6	7.6	18	31	4.4	2.6	2.3
25	4.1	2.8	2.3	2.8	2.9	4.4	7.6	18	25	4.1	2.6	2.3
26	4.1	2.8	2.4	2.6	2.8	4.4	7.6	18	17	3.9	2.4	2.3
27	4.1	2.8	2.4	2.6	2.8	4.6	7.6	17	12	4.1	2.4	2.3
28	4.6	2.8	2.4	2.6	2.8	4.6	7.6	16	12	3.9	2.4	2.4
29	4.6	2.9	2.3	2.8	----------	4.4	7.6	16	14	3.7	2.4	2.6
30	4.4	2.9	2.3	2.8	----------	4.1	7.6	16	14	3.7	2.4	2.6
31	4.1	----------	2.3	2.9	----------	4.4	----------	15	----------	3.5	2.6	----------
Total	124.6	130.4	84.9	77.1	79.1	113.0	199.4	1,131.9	670	185.4	106.4	78.1
Mean	4.02	4.35	2.74	2.49	2.82	3.65	6.65	36.5	22.3	5.98	3.43	2.60
Ac-ft	247	259	168	153	157	224	396	2,240	1,330	368	211	155

Calendar year 1966 : Max 62 Min 2.0 Mean 7.50 Ac-ft 5,420
Water year 1966-67 : Max 95 Min 2.3 Mean 8.17 Ac-ft 5,910

Monthly diversion, change in reservoir contents, and adjusted total flow, in acre-feet

		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Mountain Dell Reservoir	Contents at first of month	539	12	12	51	88	114	552	1,082	2,453	3,011	2,792	2,431	2,296
	Change in contents	-527	0	+39	+37	+26	+438	+530	+1,371	+558	-219	-361	-135	
Diversion to Salt Lake City (1715 F)		960	282	319	293	307	293	735	1,820	1,630	1,690	1,040	427	
Parleys Creek	At Suicide Rock (1716)	247	259	168	153	157	224	396	2,240	1,330	368	211	155	
	Adjusted total flow	680	541	526	483	490	955	1,660	5,430	3,520	1,840	890	447	

Adjusted total flow: Calendar year 1966, 14,150; water year 1966-67, 17,460

Table 49.--1719. Emigration Creek below Burr Fork, near Salt Lake City

Location.--Lat 40°47'14", long 111°42'44", in SE¼SW¼ sec. 27, T. 1 N., R. 2 E., on left bank 200 ft upstream from culvert on Utah Highway 65, about 0.3 mile below Burr Fork, and 10 miles northeast of Salt Lake City.

Drainage area.--5.9 sq mi.

Records available.--May 1963 to September 1967. Prior to May 7, 1964, infrequent readings only.

Gage.--Water-stage recorder. Altitude of gage is 5,820 ft (from topographic map). Prior to May 7, 1964, staff gage at site about 0.2 mile upstream at different datum.

Extremes.--1963-67: Maximum daily discharge, 45 cfs Apr. 23, 1965; minimum daily recorded, 0.2 cfs several days in 1963 and 1966.

Remarks.--Records poor. No diversions above the station except for local domestic use.

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.7	0.7			0.7	3.8	5.4	7.8	2.6	1.0	0.5
2	.5	.7	.7			.8	3.7	5.9	7.4	2.5	.9	.5
3	1.0	.7	.9			.8	4.0	6.2	6.9	2.2	.9	.4
4	.9	.7	1.0			.8	4.3	6.6	6.6	2.1	.9	.4
5	.9	.8	1.0			.8	4.8	7.4	6.2	2.1	.7	.4
6	.9	.8	.9			.8	4.8	7.6	6.2	2.1	.7	.5
7	.8	.9	.9			.8	4.8	8.5	6.6	2.1	.7	.5
8	.8	1.0	.8			.8	4.9	9.7	6.2	2.0	.7	.7
9	.7	.8	.8			.9	4.9	10	6.0	1.9	.7	.7
10	.7	.8	.8			.9	4.9	14	6.0	1.8	.6	.7
11	.7	.7	.8			.9	4.9	14	5.9	1.8	.6	.6
12	.8	.9	.8			1.0	5.0	14	5.5	1.7	.6	.6
13	1.4	.8	.8			1.0	4.9	12	5.9	1.6	.6	.6
14	1.2	.7	.8			1.0	4.8	12	5.5	1.7	.6	.6
15	1.2	.7	.8	0.7	0.7	1.0	4.8	11	5.4	1.6	.6	.6
16	1.2	.7	.8			1.5	5.0	11	5.5	1.8	.6	.6
17	1.1	.7	.8			2.0	5.0	11	5.0	2.0	.6	.6
18	1.1	.7	.8			3.0	4.9	12	4.6	1.7	.6	.6
19	1.2	.7	.8			3.0	5.0	12	4.2	1.6	.6	.6
20	1.3	.7	.8			3.0	5.4	12	4.8	1.4	.6	.6
21	1.2	.7	.8			3.0	5.2	12	4.3	1.4	.6	.6
22	1.0	.7	.8			3.0	5.0	12	4.6	1.4	.5	.6
23	.9	.7	.7			3.5	5.0	12	4.2	1.4	.5	.6
24	.8	.7	.7			3.5	5.0	12	3.7	1.4	.5	.6
25	.8	.7	.7			3.5	5.0	11	3.5	1.2	.5	.6
26	.8	.7	.7			3.5	5.0	10	3.3	1.1	.5	.6
27	.8	.7	.7			4.0	5.0	9.7	3.1	1.1	.5	.5
28	.7	.7	.7			4.2	5.2	9.3	3.1	1.1	.6	.5
29	.7	.7	.7		----------	4.4	5.4	9.3	3.0	1.0	.6	.5
30	.7	.7	.7		----------	4.3	5.5	9.3	2.9	1.0	.6	.5
31	.7	----------	.7		----------	3.8	----------	8.5	----------	1.0	.5	----------
Total	27.9	22.2	24.4	21.7	19.6	66.2	145.9	317.4	153.9	51.4	19.7	16.9
Mean	0.90	0.74	0.79	0.70	0.70	2.14	4.86	10.2	5.13	1.66	0.64	0.56
Ac-ft	55	44	48	43	39	131	289	630	305	102	39	34

Calendar year 1966 : Max 5.0 Min - Mean 1.30 Ac-ft 940
Water year 1966-67 : Max 14 Min - Mean 2.43 Ac-ft 1,760

Note.--No gage-height record Nov. 15 to Mar. 26; discharge estimated.

Table 50.--1719 A. Diversion from Emigration Tunnel Springs to the Salt Lake City water supply

Location.--In NE¼NE¼ sec. 11, T. 1 S., R. 1 E., on left bank of Emigration Creek 0.8 mile upstream from east boundary of Hogle Garden Zoo, and about 5 miles southeast of Salt Lake City.

Records available.--July 1906 to September 1967. Monthly discharge only for July 1906 to September 1960 in WSP 1314 and 1734. Records for October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Gage.--Two-foot Cipolletti weir.

Extremes.--1963-67: Maximum daily discharge, 3.2 cfs May 11-17, 1964; minimum daily, 0.4 cfs Mar. 16-31, 1965.

Remarks.--No water from Emigration Tunnel Springs reached Emigration Creek without diversion this year.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	1.8	1.8	1.9	1.8	2.1	2.3	2.5	2.9	2.8	2.4	2.2
2	1.7	1.8	1.8	1.9	1.8	2.1	2.3	2.5	2.9	2.8	2.4	2.0
3	1.7	1.8	1.8	1.9	1.8	2.1	2.3	2.5	2.9	2.8	2.4	2.0
4	1.7	1.8	1.8	1.9	1.8	2.1	2.3	2.5	2.9	2.8	2.3	2.0
5	1.7	1.8	1.8	1.9	1.8	2.1	2.3	2.7	2.9	2.8	2.3	2.0
6	1.7	1.8	1.8	1.9	1.8	2.1	2.3	2.7	2.9	2.8	2.3	2.0
7	1.7	1.8	1.8	1.9	1.8	2.1	2.4	2.7	2.9	2.8	2.3	2.0
8	1.7	1.8	1.8	1.9	1.8	2.1	2.4	2.7	2.9	2.8	2.3	2.0
9	1.7	1.8	1.8	1.8	1.8	2.1	2.4	2.7	2.9	2.8	2.3	2.0
10	1.7	1.8	1.8	1.8	1.8	2.1	2.4	2.7	2.9	2.7	2.3	2.0
11	1.8	1.8	1.8	1.8	1.8	2.1	2.4	2.7	2.9	2.7	2.3	2.0
12	1.8	1.8	1.9	1.8	1.8	2.1	2.4	2.7	2.9	2.7	2.3	2.0
13	1.8	1.8	1.9	1.8	1.8	2.1	2.4	2.7	2.9	2.7	2.3	2.0
14	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.7	2.9	2.7	2.3	2.0
15	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.7	2.9	2.7	2.3	2.0
16	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.7	2.9	2.7	2.3	2.0
17	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.7	2.9	2.7	2.3	2.0
18	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.8	2.9	2.7	2.3	2.0
19	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.8	2.9	2.7	2.3	2.0
20	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.8	2.9	2.7	2.3	2.0
21	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.8	2.9	2.7	2.2	2.0
22	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.8	2.9	2.7	2.2	2.0
23	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.8	2.9	2.7	2.2	2.0
24	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.9	2.9	2.5	2.2	2.0
25	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.9	2.9	2.5	2.2	1.9
26	1.8	1.8	1.9	1.8	1.8	2.2	2.4	2.9	2.9	2.5	2.2	1.9
27	1.8	1.8	1.9	1.8	1.9	2.2	2.4	2.9	2.9	2.5	2.2	1.9
28	1.8	1.8	1.9	1.8	1.9	2.3	2.4	2.9	2.9	2.5	2.2	1.9
29	1.8	1.8	1.9	1.8	----------	2.3	2.4	2.9	2.9	2.5	2.2	1.9
30	1.8	1.8	1.9	1.8	----------	2.3	2.4	2.9	2.9	2.5	2.2	1.9
31	1.8	----------	1.9	1.8	----------	2.3	----------	2.9	----------	2.4	2.2	----------
Total	54.8	54.0	57.8	56.6	50.6	67.3	71.4	85.1	87.0	82.9	70.5	59.6
Mean	1.77	1.80	1.86	1.83	1.81	2.17	2.38	2.74	2.90	2.67	2.27	1.99
Ac-ft	109	107	115	112	100	133	142	169	173	164	140	118

Calendar year 1966: Max 2.5 Min 1.7 Mean 2.07 Ac-ft 1,500
Water year 1966-67: Max 2.9 Min 1.7 Mean 2.19 Ac-ft 1,580

Table 51.--1720. Emigration Creek near Salt Lake City

Location.--Lat 40°45'00", long 111°48'45", in SW¼NW¼ sec. 11, T. 1 S., R. 1 E., at east boundary of Hogle Garden Zoo near mouth of canyon, 4 miles southeast of Salt Lake City.

Drainage area.--18 sq mi, approximately.

Records available.--June 1900 to September 1967. Monthly discharge only for October 1898 to September 1960, published in WSP 1314 and 1734. Records for October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Gage.--Water-stage recorder and concrete flume. Altitude of gage is 4,870 ft (from topographic map).

Extremes.--1900-67: Maximum daily discharge, 156 cfs April 26, 1952; minimum not determined.

Remarks.--Records fair. No regulation. Water is diverted by pipeline from Emigration Tunnel Springs upstream from the station for the Salt Lake City water supply (table 50).

Cooperation.--Gage-height record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6	2.5	2.5	1.1	1.6	1.8	4.5	6.0	9.1	5.0	3.2	1.0
2	1.6	2.5	2.5	1.1	1.3	2.5	4.2	7.1	8.8	4.8	3.2	1.0
3	3.2	2.5	2.5	1.1	1.3	2.5	4.5	7.4	8.2	4.5	3.0	1.0
4	2.3	2.5	2.0	1.3	1.1	2.0	5.0	8.2	8.2	4.2	3.0	.8
5	2.3	2.5	2.0	1.3	1.1	1.8	5.8	8.4	7.9	4.5	2.5	.8
6	2.3	2.5	1.6	1.3	1.1	2.0	6.0	9.1	7.6	4.2	2.5	.8
7	2.3	2.5	1.6	1.3	1.1	2.0	6.0	9.1	7.6	4.5	2.0	.8
8	2.0	3.8	1.6	1.3	1.1	2.0	5.8	11	7.6	4.5	1.8	1.1
9	2.0	3.0	1.6	1.3	1.1	2.3	5.8	11	7.6	4.2	1.6	1.6
10	2.0	2.7	1.3	1.3	1.1	2.5	5.8	14	7.6	4.2	1.3	1.4
11	2.0	2.7	1.3	1.3	1.3	2.7	5.8	17	7.4	4.0	1.6	1.3
12	2.5	3.5	1.3	1.3	1.3	3.5	6.0	17	7.4	4.0	1.6	1.3
13	3.5	3.2	1.3	1.3	1.3	3.5	6.0	15	6.6	3.5	1.6	1.3
14	3.0	3.2	1.3	1.6	1.3	2.7	5.8	14	6.6	3.0	1.8	1.3
15	2.7	3.5	1.3	1.8	1.3	1.8	5.8	12	6.6	3.0	1.8	1.3
16	2.7	3.2	1.6	1.6	1.3	2.3	6.0	12	6.6	3.8	1.8	1.2
17	2.5	3.2	1.6	1.8	1.3	4.2	5.8	11	6.6	5.6	1.6	1.2
18	2.5	3.2	1.6	1.8	1.3	4.8	5.8	12	6.6	4.8	1.6	1.2
19	2.5	3.0	1.6	1.8	1.3	4.8	6.0	13	6.6	3.5	1.3	1.2
20	2.5	3.0	1.6	1.8	1.3	4.5	6.0	13	6.6	3.2	1.3	1.3
21	2.5	3.0	1.6	1.8	1.3	4.2	6.0	13	6.6	3.0	1.3	1.2
22	2.5	3.0	1.3	1.8	1.3	4.8	6.0	12	6.6	2.7	1.3	1.1
23	2.5	3.0	1.3	1.6	1.3	5.0	6.0	12	6.6	3.0	1.1	1.2
24	2.5	3.0	1.3	1.6	1.3	4.8	6.3	12	6.3	3.0	1.1	1.2
25	2.5	3.0	1.3	1.6	1.3	4.8	6.6	12	5.8	3.0	1.1	1.2
26	2.5	2.7	1.1	1.6	2.0	4.5	6.6	11	5.6	3.0	1.0	1.2
27	2.5	2.5	1.1	1.6	1.6	4.5	6.8	11	5.3	2.7	1.1	1.2
28	2.5	2.5	1.1	1.6	1.6	4.8	6.8	10	5.3	3.2	1.1	1.2
29	2.5	2.5	1.1	1.6	----------	5.3	6.8	11	5.3	4.0	1.3	1.2
30	2.5	2.5	1.1	1.6	----------	4.8	6.3	11	5.3	3.5	1.1	1.3
31	2.5	----------	1.1	1.6	----------	4.5	----------	9.8	----------	3.0	1.1	----------
Total	75.5	86.4	47.1	46.5	36.6	108.2	176.6	352.1	206.5	117.1	52.7	34.9
Mean	2.44	2.88	1.52	1.50	1.31	3.49	5.89	11.4	6.88	3.78	1.70	1.16
Ac-ft	150	171	93	92	73	215	350	698	410	232	105	69

Calendar year 1966: Max 11 Min 1.1 Mean 3.84 Ac-ft 2,780
Water year 1966-67 : Max 17 Min 0.8 Mean 3.67 Ac-ft 2,660

Table 52.--1721. Emigration Creek below 1300 East, at Salt Lake City

Location.--Lat 40°43'49", long 111°51'18", in NE¼SE¼ sec. 17, T. 1 S., R. 1 E., about 500 ft downstream from 1300 East Street in Salt Lake City.

Drainage area.--19 sq mi, approximately.

Records available.--October 1963 to September 1967.

Gage.--Water-stage recorder. Altitude of gage is 4,400 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 70 cfs (estimated) May 16, 1964; no flow for long periods in 1963-64.

Remarks.--Records fair.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.8	0.5	0.4	1.2	0.9	4.4	7.0	9.6	7.3	3.8	4.0
2	.6	.9	.5	.4	.9	1.2	3.4	6.7	8.6	6.3	3.8	4.2
3	.3	.8	2.3	.4	.9	1.5	3.6	7.9	7.9	7.3	3.6	3.8
4	.1	.9	.6	.5	.8	1.3	3.6	8.3	7.3	6.3	3.6	3.8
5	.4	1.0	.6	.5	.8	1.2	4.4	9.3	7.0	6.3	3.6	4.0
6	1.0	.9	.6	.5	1.0	1.2	4.2	9.3	7.0	6.0	3.8	3.4
7	.1	1.3	.6	.4	.6	1.4	4.4	9.6	7.0	6.3	4.0	3.2
8	.1	4.0	.6	.4	.5	1.2	4.7	10	7.0	7.3	4.0	7.0
9	.1	1.0	.5	.4	.5	1.5	4.4	11	7.0	6.0	3.8	4.2
10	.1	1.8	.5	.4	.6	1.7	4.2	16	7.0	6.0	4.0	4.2
11	.1	1.5	.5	.5	.5	1.8	4.2	15	7.0	4.4	4.0	3.8
12	.3	1.5	.5	.6	.6	2.0	5.0	12	7.0	5.7	4.0	3.8
13	6.3	1.2	.6	.7	.6	2.8	4.7	12	6.5	5.0	4.2	3.8
14	1.2	1.1	.6	1.3	.9	2.7	4.4	11	6.0	6.3	4.0	3.6
15	.6	.9	.8	1.2	1.2	1.7	4.7	11	6.0	5.7	3.8	3.8
16	.4	.5	.6	.8	.6	1.8	7.3	11	6.0	10	4.0	3.6
17	.6	.5	.6	.7	.8	2.6	5.4	11	6.0	7.9	3.8	3.4
18	2.1	.5	.6	.6	.6	4.4	5.2	12	6.0	6.3	4.0	3.6
19	2.0	1.4	.6	.6	.4	4.7	5.2	12	6.0	6.3	3.8	3.6
20	2.2	2.3	.6	.8	.4	3.3	6.3	12	6.0	6.0	3.8	3.6
21	1.5	2.2	.5	1.3	.5	3.2	5.4	12	5.8	6.0	4.0	3.6
22	.6	2.3	.4	1.8	.5	3.4	5.7	12	5.7	5.4	3.8	4.2
23	.9	2.3	.4	1.7	.6	3.6	6.7	13	5.7	5.0	3.8	3.4
24	1.2	1.2	.4	1.5	.6	3.8	6.0	11	5.2	4.7	3.8	3.6
25	1.1	.8	.4	1.5	.6	3.6	5.7	12	5.0	4.7	3.8	3.6
26	1.1	1.2	.3	1.5	.6	3.6	5.7	11	4.4	4.2	3.8	3.4
27	1.3	.9	.3	1.9	.6	3.8	5.7	9.3	4.4	4.0	4.7	3.4
28	1.9	1.1	.2	1.9	.7	3.6	6.0	9.3	4.0	4.2	4.0	3.4
29	1.9	1.0	.2	1.9	----------	6.0	8.6	11	3.8	4.0	5.0	3.4
30	1.5	.5	.3	2.1	----------	4.4	7.0	12	4.7	3.8	4.4	3.4
31	.9	----------	.4	2.2	----------	4.4	----------	11	----------	3.8	4.2	----------
Total	32.6	38.3	17.1	31.4	19.1	84.3	156.2	337.7	186.6	178.5	122.7	113.8
Mean	1.05	1.28	0.55	1.01	0.68	2.72	5.21	10.9	6.22	5.76	3.96	3.79
Ac-ft	65	76	34	62	38	167	310	670	370	354	243	226

Calendar year 1966 : Max 9.3 Min 0.1 Mean 2.60 Ac-ft 1,880
Water year 1966-67 : Max 16 Min 0.1 Mean 3.61 Ac-ft 2,620

Note.--No gage-height record June 5-21; discharge estimated.

Table 53.--1722. Red Butte Creek at Fort Douglas, near Salt Lake City

Location.--Lat 40°46'50", long 111°48'20", in NW¼ sec. 35, T. 1 N., R. 1 E., in right bank 0.35 mile upstream from dam forming Red Butte Reservoir, 1.5 miles northeast of Fort Douglas, and 5 miles east of Salt Lake City post office.

Drainage area.--7.25 sq mi.

Records available.--October 1963 to September 1967. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U.S. Army, available in files of Salt Lake City District office, Geological Survey.

Gage.--Digital water-stage recorder and concrete Parshall flume. Altitude of gage is 5,400 ft (from topographic map). Prior to Dec. 3, 1964, graphic water-stage recorder at same site and datum.

Extremes.--1963-67: Maximum discharge, 31 cfs May 13, 1964; minimum, 0.5 cfs Oct. 7, 12, 1963.

Remarks.--Records good. No regulation or diversion above station. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas. This drainage basin has been designated as a hydrologic bench mark.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	1.4	1.6	1.5	1.4	1.9	3.2	4.1	5.2	2.8	1.7	1.1
2	1.3	1.4	1.6	1.4	1.4	2.0	3.2	4.4	5.0	2.7	1.7	1.1
3	1.4	1.4	1.8	1.3	1.4	2.1	3.4	4.6	4.8	2.6	1.6	1.1
4	1.3	1.4	1.7	1.3	1.4	1.9	3.5	4.7	4.6	2.6	1.5	1.1
5	1.3	1.5	1.8	1.3	1.4	1.9	3.5	5.2	4.5	2.6	1.5	1.1
6	1.3	1.5	1.8	1.4	1.3	1.7	3.5	5.3	4.4	2.6	1.5	1.1
7	1.3	1.6	1.9	1.4	1.3	1.9	3.4	5.6	4.5	2.6	1.5	1.1
8	1.3	1.8	1.7	1.4	1.3	1.9	3.4	6.3	4.4	2.6	1.5	1.1
9	1.3	1.6	1.6	1.4	1.4	2.0	3.4	6.8	4.2	2.5	1.4	1.3
10	1.3	1.6	1.6	1.4	1.4	2.0	3.3	8.3	4.1	2.4	1.4	1.3
11	1.3	1.8	1.6	1.4	1.4	2.2	3.3	8.3	4.0	2.3	1.4	1.1
12	1.4	2.0	1.5	1.4	1.4	2.3	3.4	7.7	4.2	2.2	1.3	1.1
13	2.0	1.8	1.5	1.4	1.4	2.3	3.3	7.6	4.3	2.2	1.3	1.1
14	1.6	1.8	1.5	1.5	1.4	2.2	3.2	7.2	4.2	2.2	1.3	1.1
15	1.6	1.7	1.5	1.5	1.2	2.2	3.2	7.0	4.1	2.2	1.3	1.1
16	1.6	1.6	1.4	1.5	1.5	2.2	3.4	6.9	4.1	2.6	1.3	1.1
17	1.6	1.6	1.5	1.5	1.5	2.5	3.3	7.1	3.9	2.6	1.2	1.1
18	1.6	1.6	1.4	1.4	1.5	3.0	3.2	7.2	3.7	2.3	1.2	1.1
19	1.6	1.6	1.5	1.4	1.5	3.4	3.2	7.2	3.6	2.2	1.2	1.1
20	1.5	1.6	1.4	1.4	1.5	3.1	3.3	7.0	3.9	2.1	1.2	1.1
21	1.3	1.6	1.4	1.5	1.4	3.0	3.3	6.8	3.6	2.0	1.2	1.1
22	1.4	1.6	1.2	1.6	1.4	3.1	3.2	6.4	3.6	2.0	1.2	1.2
23	1.4	1.6	1.3	1.6	1.5	3.1	3.4	6.1	3.6	2.0	1.1	1.2
24	1.4	1.5	1.3	1.5	1.6	3.1	3.1	5.9	3.5	2.0	1.1	1.2
25	1.4	1.5	1.3	1.4	1.6	3.1	3.3	6.0	3.4	1.9	1.1	1.2
26	1.4	1.6	1.4	1.5	1.6	3.1	3.6	5.8	3.2	1.9	1.1	1.2
27	1.4	1.5	1.4	1.5	1.6	3.1	3.6	5.5	3.1	1.8	1.1	1.1
28	1.3	1.6	1.4	1.4	1.7	3.0	3.9	5.4	3.1	1.8	1.1	1.1
29	1.3	1.7	1.4	1.4	----------	3.2	4.2	5.6	3.0	1.7	1.1	1.1
30	1.3	1.6	1.4	1.5	----------	3.1	4.0	5.9	2.9	1.7	1.1	1.2
31	1.4	----------	1.4	1.6	----------	3.2	----------	5.6	----------	1.7	1.1	----------
Total	43.8	48.1	46.8	44.7	40.4	78.8	102.2	193.5	118.7	69.4	40.3	34.0
Mean	1.41	1.60	1.51	1.44	1.44	2.54	3.41	6.24	3.96	2.24	1.32	1.13
Ac-ft	87	95	93	89	80	156	203	384	235	138	80	67

Calendar year 1966 : Max 5.5 Min 0.90 Mean 2.24 Ac-ft 1,620
Water year 1966-67: Max 8.3 Min 1.1 Mean 2.36 Ac-ft 1,710

Table 54.--1722 A. Diversion from Red Butte Creek to Fort Douglas water supply

Location.--SW¼NW¼ sec. 35, T. 1 N., R. 1 E., at dam forming Red Butte Reservoir, 1.2 miles northeast of Fort Douglas, and 4 miles northeast of Salt Lake City.

Records available.--October 1963 to September 1967. Records for 1942 to 1963 in the files of the Post Engineer, Corps of Engineers, Fort Douglas.

Remarks.--Water diverted from Red Butte Reservoir. Record includes seepage of about 0.2 cfs below the dam.

Cooperation.--Record furnished by the Post Engineer, Corps of Engineers, Fort Douglas.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.7	0.7	1.8	2.0
2	.8	.4	.4	.4	.4	.4	.4	.3	.8	.6	1.7	1.2
3	.9	.4	.4	.4	.4	.4	.4	.3	.8	1.6	2.4	1.2
4	.6	.4	.4	.4	.4	.4	.4	.3	.4	1.3	2.3	1.2
5	.8	.3	.4	.4	.4	.4	.4	.3	.6	1.7	1.8	2.0
6	1.6	.3	.4	.4	.4	.4	.4	.4	.6	1.3	.9	1.3
7	1.3	.4	.4	.4	.4	.4	.4	.4	.6	1.2	1.9	.5
8	1.3	.4	.4	.4	.4	.4	.4	.4	.6	1.5	2.7	.5
9	1.2	.4	.4	.4	.4	.4	.4	.5	.6	.7	2.4	.6
10	1.0	.4	.4	.4	.4	.4	.4	.9	.6	2.2	2.6	.6
11	1.7	.4	.4	.4	.4	.4	.4	.3	.6	1.7	2.1	.8
12	1.5	.3	.4	.4	.4	.4	.4	.3	.6	2.0	1.9	.6
13	.6	.3	.4	.4	.4	.4	.4	.3	.6	2.0	.9	1.6
14	.3	.3	.4	.3	.4	.4	.4	.3	.6	2.0	2.7	1.7
15	.3	.4	.4	.3	.4	.4	.3	.3	.5	1.6	2.4	1.5
16	.3	.4	.4	.4	.4	.4	.3	.4	.5	.6	2.6	1.5
17	.3	.4	.4	.4	.4	.4	.3	.5	.5	1.2	2.7	.6
18	.4	.4	.4	.4	.4	.4	.3	.4	.5	2.1	2.7	1.3
19	.4	.3	.4	.4	.4	.4	.3	.9	.5	2.2	2.3	1.8
20	.4	.3	.4	.4	.4	.4	.3	.9	.5	2.1	.8	1.7
21	.4	.4	.4	.4	.4	.4	.4	.6	.5	2.1	2.2	2.4
22	.4	.4	.4	.4	.4	.4	.3	2.2	.5	1.3	2.5	.8
23	.4	.4	.4	.4	.4	.4	.3	1.7	.5	.9	2.4	.8
24	.4	.4	.4	.4	.4	.4	.3	1.7	.6	2.0	2.5	.7
25	.4	.4	.3	.4	.4	.4	.4	1.5	.5	2.0	2.7	1.2
26	.4	.3	.3	.4	.4	.4	.4	.7	.6	1.8	1.2	1.5
27	.4	.3	.4	.4	.4	.4	.4	.6	1.6	1.9	2.1	.9
28	.4	.3	.4	.4	.4	.4	.3	.6	1.8	1.8	1.6	1.6
29	.4	.4	.4	.4	----------	.4	.3	.6	1.3	1.6	2.1	1.1
30	.4	.4	.4	.4	----------	.4	.3	.6	1.0	1.1	1.4	.5
31	.4	----------	.4	.4	----------	.4	----------	.6	----------	2.2	2.3	----------
Total	21.3	11.0	12.2	12.2	11.2	12.4	10.8	20.1	20.6	49.0	64.6	35.7
Mean	0.69	.37	.39	.39	.40	.40	.36	.65	.69	1.58	2.08	1.19
Ac-ft	42	22	24	24	22	25	21	40	41	97	128	71

Calendar year 1966 : Max 2.9 Min 0.3 Mean 1.05 Ac-ft 761
Water year 1966-67: Max 2.7 Min 0.3 Mean .77 Ac-ft 557

Table 55.--1722.2 Red Butte Creek below Red Butte Reservoir, near Salt Lake City

Location.--Lat 40°46'30", long 111°48'25", in NE¼SW¼ sec. 34, T. 1 N., R. 1 E., about 0.3 mile below spillway of reservoir, 0.9 mile northeast of Fort Douglas, and 4 miles northeast of Salt Lake City.

Drainage area.--7.95 sq mi.

Records available.--October 1963 to September 1967. Records for 1942 to 1963 in the files of the Post Engineer, Corps of Engineers, Fort Douglas.

Gage.--Water-stage recorder and a concrete Parshall flume. Altitude of gage is 5,200 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 28 cfs May 16, 17, 1964; no flow for long periods.

Remarks.--Flow regulated by storage in Red Butte Reservoir. Water is diverted to Fort Douglas water supply from the reservoir.

Cooperation.--Record furnished by the Post Engineer, Corps of Engineers, Fort Douglas.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	1.2	1.5	2.4	4.2	5.0	2.3		
2				0	1.1	1.5	2.4	3.9	4.9	2.2		
3				0	1.1	1.4	2.4	4.7	4.6	2.2		
4				.9	1.1	1.6	2.4	4.7	4.4	1.4		
5				.9	1.1	1.7	2.4	4.7	4.2	1.4		
6				.9	1.1	1.7	2.4	5.0	4.2	1.3		
7				.9	1.1	1.7	2.6	5.8	4.0	1.3		
8				.8	1.1	1.7	2.8	6.3	3.8	1.2		
9				.8	1.1	1.9	2.8	6.7	3.5	1.2		
10				.9	1.2	1.9	2.9	8.1	3.3	1.1		
11				.9	1.2	1.7	2.8	8.2	3.3	1.1		
12				.9	1.2	1.7	2.8	7.6	3.2	0		
13				1.0	1.2	1.7	2.8	7.0	3.2	0		
14				1.1	1.2	1.7	2.8	6.8	3.2	0		
15				1.1	1.2	1.7	2.8	6.7	3.4	0		
16				1.1	1.2	1.7	2.8	6.8	3.5	1.6		
17				1.1	1.1	1.8	2.8	6.8	3.4	1.6		
18				1.1	1.1	2.2	2.9	6.8	3.3	0		
19				1.0	1.1	2.6	2.9	4.9	3.3	0		
20				1.1	1.1	2.5	2.9	5.1	3.3	0		
21				1.2	1.1	2.5	2.9	6.1	3.4	0		
22				1.2	1.1	2.4	2.8	5.0	3.3	0		
23				1.2	1.1	2.4	2.7	4.8	3.3	1.5		
24				1.2	1.1	2.4	2.7	4.7	3.3	0		
25				1.2	1.1	2.4	2.7	4.6	3.2	0		
26				1.2	1.1	2.3	2.8	5.5	3.1	0		
27				1.2	1.2	2.4	2.9	5.4	2.7	0		
28				1.2	1.4	2.4	3.0	5.3	1.2	0		
29				1.2	----------	2.3	3.5	5.5	1.6	0		
30				1.2	----------	2.3	3.8	5.3	1.5	0		
31		----------		1.2	----------	2.3	----------	5.1	----------	0		----------
Total	0	0	0	29.7	32.0	61.9	83.6	178.1	101.6	21.4	0	0
Mean	0	0	0	0.96	1.14	2.00	2.79	5.75	3.39	0.69	0	0
Ac-ft	0	0	0	59	63	123	166	353	202	42	0	0

Calendar year 1966: Max 5.4 Min 0 Mean 1.32 Ac-ft 952
Water year 1966-67: Max 8.2 Min 0 Mean 1.39 Ac-ft 1,010

Table 56.--1723. Red Butte Creek at 1600 East, at Salt Lake City

Location.--Lat 44°44'50", long 111°51'22", in NE¼SW¼ sec. 9, T. 1 S., R. 1 E., in Miller Park, at 1050 South and 1600 East.

Drainage area.--8.9 sq mi.

Records available.--October 1963 to September 1967 (fragmentary).

Gage.--Water-stage recorder. Altitude of gage is 4,390 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 23, cfs May 15, 1964; no flow for long periods.

Remarks.--Records fair.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0.7	1.4	3.1	3.6	0.8		
2						.9	1.4	3.1	3.3	1.0		
3						1.2	1.4	3.3	2.9	.9		
4						1.1	1.5	2.5	2.5	.3		
5						.9	1.7	1.8	2.9	0		
6						.8	1.5	2.2	2.7	0		
7						.7	1.4	3.1	3.3	.4		
8						.4	1.7	3.6	3.1	.6		
9						.7	1.7	4.0	2.9	.6		
10						.5	1.5	7.5	2.9	.5		
11						.1	1.4	5.8	2.9	.1		
12						1.1	1.8	4.5	3.6	0		
13						1.4	1.8	4.2	3.6	0		
14						.9	1.5	6.1	3.8	0		
15						.9	1.7	5.0	3.6	0		
16						.9	2.2	4.5	3.8	1.0		
17						1.0	1.8	4.0	3.1	2.0		
18						1.2	1.5	4.0	2.9	.5		
19						1.5	1.4	3.5	2.9	0		
20						1.5	1.7	3.0	4.0	0		
21						1.5	.6	3.5	3.1	0		
22						1.5	.8	3.1	3.1	0		
23						1.5	1.8	2.9	2.7	0		
24						1.5	1.8	2.7	2.5	0		
25						1.5	2.0	3.1	2.2	0		
26						1.5	3.1	2.9	2.3	0		
27						1.5	3.1	2.7	1.5	0		
28						1.5	3.6	2.7	.3	0		
29					---------	1.5	3.8	4.0	.5	0		
30					---------	1.4	3.3	5.1	1.0	0		
31		---------			---------	1.4	---------	4.0	---------	0		---------
Total	0	0	—	—	—	34.7	55.9	115.5	83.5	8.7	0	0
Mean	0	0	—	—	—	2.23	1.86	3.73	2.78	0.28	0	0
Ac-ft	0	0	—	—	—	69	111	229	166	17	0	0

Calendar year 1966: Max 4.2 Min 0 Mean - Ac-ft -
Water year 1966-67: Max 7.5 Min 0 Mean - Ac-ft -

Note.--No gage-height record Mar. 15 to Apr. 2, May 15-21, July 12-18; discharge estimated.

Table 57.--1724. City Creek above Wasatch Drive, near Salt Lake City

Location.--Lat 40°47'33", long 111°52'35", in SW¼NE¼ sec. 30, T. 1 N., R. 1 E., about 0.2 mile upstream from Wasatch Drive and 1.2 miles northeast of Utah State Capitol Building.

Drainage area.--17.1 sq mi (revised).

Records available.--October 1963 to September 1967.

Gage.--Water-stage recorder and weir. Altitude of gage is 4,390 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 74 cfs May 23, 1964; minimum daily, 0.4 cfs several days in 1964 and 1966.

Remarks.--Records fair. Water is diverted 2.9 miles upstream from the gage to the City Creek treatment plant. (See table 58.) The treated water is stored in the Pleasant Valley reservoir 1.4 miles upstream from the gage and carried past the gage in pipelines.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	0.9	1.2	1.4	1.4	1.4	1.4	6.0	43	16	1.4	1.1
2	.9	.9	1.0	1.4	2.0	1.5	1.4	6.2	40	15	1.5	1.8
3	.8	.9	1.2	1.4	1.5	1.4	1.5	6.2	38	14	1.4	1.2
4	.8	.9	1.2	1.4	1.2	1.3	1.8	6.2	38	14	1.6	.6
5	.8	.9	1.3	1.4	1.2	1.3	1.9	6.9	38	14	1.4	.8
6	.9	.9	1.3	1.4	1.2	1.2	1.9	6.9	38	14	.9	.9
7	.9	.9	1.3	1.4	1.2	1.3	1.8	7.2	40	13	1.1	1.1
8	.8	1.1	1.3	1.4	1.2	1.3	2.2	7.2	39	9.0	.9	.8
9	1.0	1.1	1.3	1.3	1.2	1.2	2.2	9.9	37	8.0	1.1	.9
10	1.0	1.0	1.3	1.2	1.7	1.0	2.4	15	33	5.0	.8	.8
11	.9	.9	1.3	1.2	1.5	1.0	2.2	15	38	3.5	.8	1.5
12	.8	.9	1.3	1.2	1.4	1.0	2.7	14	34	4.0	1.8	1.6
13	1.2	.9	1.4	1.5	1.2	1.7	2.5	14	30	4.0	2.4	.9
14	1.0	.9	1.3	1.2	1.2	1.4	2.4	13	30	4.0	1.6	1.8
15	1.0	1.0	1.3	1.2	1.2	1.4	2.2	12	30	3.5	.8	2.1
16	1.0	.9	1.3	1.2	1.2	2.5	2.8	12	30	10	1.2	1.5
17	1.0	.9	1.3	1.2	1.2	1.5	2.4	12	28	5.0	1.6	.9
18	1.2	.9	1.3	1.2	1.2	1.4	1.8	14	27	4.5	1.5	.9
19	1.0	.9	1.3	1.2	1.2	1.5	2.7	17	27	3.5	3.5	.9
20	1.0	.9	1.4	1.7	1.2	1.4	3.2	17	28	2.6	4.1	2.0
21	1.2	1.0	1.4	1.3	1.2	1.3	3.2	18	31	1.7	2.1	2.0
22	1.0	1.2	1.3	1.2	1.2	1.3	3.0	25	29	1.2	1.4	1.2
23	1.0	1.0	1.3	1.2	1.2	1.3	3.3	33	28	1.1	.6	.8
24	.9	1.0	1.4	1.2	1.2	1.3	2.8	40	25	1.2	.6	.8
25	.9	.9	1.4	1.2	1.3	1.3	2.8	49	23	1.5	.9	.8
26	.9	.9	1.4	1.2	1.3	1.3	2.8	53	22	1.5	1.5	.8
27	.9	.9	1.4	1.2	1.3	1.3	3.2	52	20	1.6	.8	.8
28	.9	.9	1.4	1.2	1.5	1.4	4.6	49	20	1.4	1.1	.8
29	.9	1.0	1.2	1.2	----------	1.3	6.7	48	20	1.1	2.1	.8
30	.9	1.0	1.3	1.2	----------	1.3	6.5	46	17	.8	1.2	1.0
31	.9	----------	1.3	1.2	----------	1.4	----------	43	----------	1.4	.6	----------
Total	29.3	28.4	40.4	39.8	36.5	42.2	82.3	673.7	921	181.1	44.3	33.9
Mean	0.95	0.95	1.30	1.28	1.30	1.36	2.74	21.7	30.7	5.84	1.43	1.13
Ac-ft	58	56	80	79	72	84	163	1,340	1,830	359	88	67

Calendar year 1966: Max 28 Min 0.4 Mean 2.90 Ac-ft 2,100
Water year 1966-67: Max 53 Min 0.6 Mean 5.90 Ac-ft 4,280

Table 58.--1724 A. Diversion to City Creek treatment plant from City Creek, near Salt Lake City

Location.--Lat 40°49'54", long 111°49'50", in the SW¼SW¼ sec. 15, T. 1 N., R. 1 E., at City Creek treatment plant and 4 miles northeast of Utah State Capitol Building.

Records available.--October 1963 to September 1967. Records for previous years in the files of the Salt Lake City Water Department.

Extremes.--1963-67: Maximum daily discharge, 26 cfs on several days May to July 1965; minimum daily, 2.5 cfs June 26, 1965.

Remarks.--Except for small infrequent spills from the Pleasant Valley reservoir the record shows the amount of water delivered to the Salt Lake City water system from the water treatment plant.

Cooperation.--Record furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.7	5.9	5.6	5.0	5.1	5.4	6.4	9.9	11	11	14	9.5
2	6.8	5.9	5.6	5.0	5.1	5.6	6.2	10	11	11	13	9.3
3	6.7	5.9	5.7	5.0	5.0	5.7	7.0	10	11	11	13	9.1
4	6.5	5.9	5.6	4.8	5.0	5.7	7.6	10	11	11	13	9.0
5	6.6	5.9	5.7	5.3	5.0	5.4	7.9	11	11	11	13	9.0
6	6.6	5.9	5.9	5.3	5.0	5.4	7.9	11	11	11	13	9.1
7	6.6	5.9	5.6	5.1	5.0	5.3	8.2	11	11	11	12	9.0
8	6.6	6.0	5.6	5.1	5.0	5.3	7.9	11	11	11	12	9.5
9	6.5	5.9	5.4	5.1	4.7	5.4	8.2	10	11	11	12	9.1
10	6.5	5.9	5.6	5.1	4.7	5.6	7.9	10	11	16	12	9.0
11	6.5	6.0	5.4	5.1	4.8	5.6	7.9	10	11	18	12	9.0
12	6.5	5.9	5.0	5.1	4.8	5.6	8.1	9.9	11	18	12	8.8
13	6.8	5.9	5.1	5.1	5.0	5.6	7.9	9.9	11	18	12	8.8
14	6.7	5.9	5.3	5.0	4.3	5.4	7.8	9.9	11	17	12	8.8
15	6.5	5.7	5.3	5.0	4.7	5.4	8.1	9.9	11	17	12	8.7
16	6.7	5.7	5.3	5.0	5.0	5.3	8.2	11	11	17	11	8.2
17	6.5	5.7	5.3	5.0	5.0	5.7	8.2	11	11	17	11	8.4
18	6.4	5.7	5.3	5.0	5.0	6.4	8.2	11	11	17	11	8.5
19	6.5	5.7	5.3	4.8	4.8	6.5	9.0	11	11	16	11	8.4
20	6.5	5.6	5.3	5.0	5.0	6.2	8.7	11	11	16	11	8.4
21	6.5	5.6	5.3	5.0	5.0	5.9	8.5	11	11	16	10	8.1
22	6.5	5.6	5.3	5.0	5.0	5.9	8.5	11	11	15	10	8.4
23	6.4	5.6	5.3	5.0	5.0	6.4	8.7	12	11	15	10	8.1
24	6.4	5.6	5.3	5.0	5.0	6.8	8.5	10	10	15	10	7.9
25	6.2	5.6	5.3	5.0	5.3	6.8	8.5	11	11	15	10	7.9
26	6.0	5.6	5.1	5.0	5.3	6.8	9.1	11	11	15	9.8	7.8
27	6.0	5.6	5.1	5.0	5.3	6.7	9.6	11	11	14	9.9	7.6
28	6.0	5.6	5.0	5.0	5.3	6.7	10	10	11	14	9.8	7.4
29	5.9	5.6	5.1	5.0	----------	7.0	10	11	11	14	9.8	7.3
30	5.9	5.4	5.1	5.1	----------	6.7	10	11	11	14	9.6	7.4
31	5.9	----------	5.0	5.1	----------	6.7	----------	11	----------	14	9.5	----------
Total	199.4	172.7	165.8	156.1	139.2	184.9	248.7	328.5	329	447	350.4	255.5
Mean	6.43	5.76	5.35	5.04	4.97	5.97	8.29	10.6	11.0	14.4	11.3	8.52
Ac-ft	396	343	329	310	276	367	493	652	653	887	695	507

Calendar year 1966: Max 24 Min 5.0 Mean 9.47 Ac-ft 6,860
Water year 1966-67: Max 18 Min 4.3 Mean 8.16 Ac-ft 5,910

Table 59.--1725. City Creek near Salt Lake City

Location.--Lat 40°47'33", long 111°52'35", in SW¼NE¼ sec. 30, T. 1 N., R. 1 E., about 0.2 mile upstream from Wasatch Drive and 1.2 miles northeast of Utah State Capitol Building.

Records available.--October 1898 to September 1967. Monthly discharge only for October 1898 to September 1960 published in WSP 1314 and 1734. October 1960 to September 1963 in the files of the Salt Lake City Water Department.

Extremes.--1899-1909, 1911-50, 1963-67: Maximum daily discharge, 163 cfs May 30, 1921; minimum daily, 1.2 cfs, Oct. 17, 1934.

Remarks.--Record is the combined discharge of City Creek (1724, table 57) and the diversion to the City Creek treatment plant (1724 A, table 58), which is carried in pipelines past the gage. The record herein is equivalent to records for years prior to 1965 computed from the flow of City Creek at a site about three-quarters of a mile downstream.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.6	6.8	6.8	6.4	6.5	6.8	7.8	16	54	27	15	11
2	7.7	6.8	6.6	6.4	7.1	7.1	7.6	16	51	26	14	11
3	7.5	6.8	6.9	6.4	6.5	7.1	8.5	16	49	25	14	10
4	7.3	6.8	6.8	6.2	6.2	7.0	9.4	16	49	25	15	9.6
5	7.4	6.8	7.0	6.7	6.2	6.7	9.8	18	49	25	14	9.8
6	7.5	6.8	7.2	6.7	6.2	6.6	9.8	18	49	25	14	10
7	7.5	6.8	6.9	6.5	6.2	6.6	10	18	51	24	13	10
8	7.4	7.1	6.9	6.5	6.2	6.6	10	18	50	20	13	10
9	7.5	7.0	6.7	6.4	5.9	6.6	10	20	48	19	13	10
10	7.5	6.9	6.9	6.3	6.4	6.6	10	25	44	21	13	9.8
11	7.4	6.9	6.7	6.3	6.3	6.6	10	25	49	22	13	10
12	7.3	6.8	6.3	6.3	6.2	6.6	11	24	45	22	14	10
13	8.0	6.8	6.5	6.6	6.2	7.3	10	24	41	22	14	9.7
14	7.7	6.8	6.6	6.2	5.5	6.8	10	23	41	21	14	11
15	7.5	6.7	6.6	6.2	5.9	6.8	10	22	41	20	13	11
16	7.7	6.6	6.6	6.2	6.2	7.8	11	23	41	27	12	9.7
17	7.5	6.6	6.6	6.2	6.2	7.2	11	23	39	22	13	9.3
18	7.6	6.6	6.6	6.2	6.2	7.8	10	25	38	22	12	9.4
19	7.5	6.6	6.6	6.0	6.0	8.0	12	28	38	20	14	9.3
20	7.5	6.5	6.7	6.7	6.2	7.6	12	28	39	19	15	10
21	7.7	6.6	6.7	6.3	6.2	7.2	12	29	42	18	12	10
22	7.5	6.8	6.6	6.2	6.2	7.2	12	36	40	16	11	9.6
23	7.4	6.6	6.6	6.2	6.2	7.7	12	45	39	16	11	8.9
24	7.3	6.6	6.7	6.2	6.2	8.1	11	50	35	16	11	8.7
25	7.1	6.5	6.7	6.2	6.6	8.1	11	60	34	16	11	8.7
26	6.9	6.5	6.5	6.2	6.6	8.1	12	64	33	16	11	8.6
27	6.9	6.5	6.5	6.2	6.6	8.0	13	63	31	16	11	8.4
28	6.9	6.5	6.4	6.2	6.8	8.1	15	59	31	15	11	8.2
29	6.8	6.6	6.3	6.2	----------	8.3	17	59	31	15	12	8.1
30	6.8	6.4	6.4	6.3	----------	8.0	16	57	28	15	11	8.4
31	6.8	----------	6.3	6.3	----------	8.1	----------	54	----------	15	10	----------
Total	228.7	201.1	206.2	195.9	175.7	227.1	330.9	1,002	1,250	628	394	288.2
Mean	7.38	6.70	6.65	6.32	6.28	7.33	11.0	32.3	41.7	20.3	12.7	9.61
Ac-ft	454	399	409	389	348	450	656	1,990	2,480	1,250	781	572

Calendar year 1966: Max 40 Min 6.3 Mean 12.3 Ac-ft 8,950
Water year 1966-67: Max 64 Min 5.5 Mean 14.0 Ac-ft 10,180

Table 60.--1726. Jordan River below Cudahy Lane, near Salt Lake City

Location.--Lat 40°50'41", long 111°56'59", in SE¼SE¼ sec. 4, T. 1 N., R. 1 W., about 0.2 mile downstream from county bridge on Cudahy Lane, and 6.5 miles northwest of Salt Lake City.

Drainage area.--3,490 sq mi, approximately; (including 255 sq mi in closed basin in Cedar Valley, Utah County).

Records available.--October 1963 to September 1967.

Gage.--Water-stage recorder. Altitude of gage is 4,210 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 348 cfs June 11, 1965; minimum daily, 39 cfs Nov. 19, 1964.

Remarks.--Records fair. Many diversions above the station for irrigation and municipal and industrial water supplies, and diversions below the station for waterfowl ponds. (See fig. 5.)

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	162	136	119	127	167	145	190	170	206	163	172	155
2	159	138	115	128	157	145	170	165	195	159	181	155
3	176	140	116	132	148	145	160	165	188	155	178	152
4	174	138	116	132	143	143	155	165	184	156	169	152
5	175	132	118	133	143	143	155	165	188	150	159	155
6	175	125	124	133	142	141	150	165	202	144	157	160
7	174	126	128	133	140	141	150	162	227	156	158	162
8	171	156	117	134	141	136	150	162	210	177	157	164
9	170	136	113	134	141	131	150	164	196	185	152	185
10	174	131	112	133	140	128	150	222	202	173	154	177
11	170	134	112	131	137	127	150	201	192	157	157	179
12	167	135	113	133	136	126	150	140	192	156	155	184
13	255	135	113	134	136	120	150	120	148	150	149	181
14	207	133	117	138	137	141	150	121	118	152	147	179
15	176	130	119	139	147	135	155	118	125	145	148	177
16	170	130	118	138	139	135	170	118	172	180	148	176
17	167	131	123	137	137	136	160	116	183	143	150	172
18	165	130	124	136	138	148	155	115	193	168	148	172
19	160	132	125	135	137	173	155	114	206	165	153	169
20	153	131	117	134	137	148	155	128	235	91	153	167
21	152	130	122	135	136	144	150	129	135	85	161	169
22	152	128	124	136	135	142	150	128	207	85	157	185
23	151	126	122	157	137	136	150	140	213	82	157	202
24	149	125	121	150	138	134	150	140	184	83	149	207
25	151	124	122	152	140	134	150	189	168	97	150	203
26	151	125	122	143	162	132	155	211	161	137	149	191
27	148	125	122	146	146	132	155	239	171	151	155	185
28	144	125	119	152	144	134	155	227	173	168	162	184
29	139	128	124	151	----------	190	160	245	173	177	162	176
30	137	116	129	153	----------	200	180	227	173	182	156	178
31	136	----------	128	172	----------	170	----------	173	----------	170	156	----------
Total	5,110	3,931	3,714	4,321	3,981	4,445	4,685	5,044	5,520	4,542	4,859	5,253
Mean	165	131	120	139	142	143	156	163	184	147	157	175
Ac-ft	10,140	7,800	7,370	8,570	7,900	8,820	9,290	10,000	10,950	9,010	9,640	10,420

Calendar year 1966 : Max 255 Min 112 Mean 157 Ac-ft 113,400
Water year 1966-67 : Max 255 Min 112 Mean 152 Ac-ft 109,900

Note.--No gage-height record Mar. 24 to May 4; discharge estimated.

Table 61.--1726.3 Goggin Drain near Magna

Location.--Lat 40°49'00", long 112°06'04", in NE¼SE¼ sec. 18, T. 1 N., R. 2 W., about 7 miles downstream from Surplus Canal wasteway, 3.3 miles north of Saltair, and 7.2 miles north of Magna.

Records available.--October 1963 to September 1967.

Gage.--Water-stage recorder. Altitude of gage is 4,204 ft (from topographic map).

Extremes.--1963-67: Maximum daily discharge, 464 cfs June 22, 1967; no flow Jan. 15-19, 1964, result of freezeup.

Remarks.--Records good. The drain carries natural drainage and surplus water spilled from canals in the area. (See fig. 5.)

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.0	9.1	9.4	1.5	5.6	2.1	4.5	2.8	298	238	13	35
2	4.3	9.5	9.4	1.5	4.5	2.0	4.3	2.4	268	217	29	49
3	4.6	10	8.1	1.5	4.0	1.6	3.6	2.1	274	177	30	57
4	4.6	9.1	8.5	1.5	4.0	1.3	3.1	2.1	296	144	35	59
5	6.4	8.7	8.5	1.6	3.6	1.2	2.3	2.3	331	100	47	62
6	9.5	7.5	8.5	2.0	3.8	1.2	2.1	2.4	394	32	43	58
7	9.5	8.3	8.5	2.0	3.1	1.2	2.0	2.1	384	73	44	57
8	11	8.0	7.8	2.0	2.8	1.0	2.0	2.0	363	50	26	63
9	9.5	7.2	6.5	2.0	2.6	1.0	2.0	1.5	346	31	18	98
10	9.5	9.5	5.5	2.0	2.3	1.2	1.8	2.4	331	19	22	138
11	9.5	15	4.3	2.0	2.4	.8	1.6	82	334	15	29	131
12	11	12	2.8	2.0	2.4	.7	2.0	191	339	14	33	166
13	17	8.1	2.8	2.0	2.4	.8	2.1	181	452	12	29	204
14	17	6.9	2.6	2.0	2.1	.9	2.0	157	460	9.8	32	192
15	14	8.9	2.4	2.0	3.1	.9	1.8	162	410	12	32	189
16	9.5	10	2.3	2.0	2.4	.8	2.6	155	355	15	24	117
17	6.1	10	2.0	2.0	2.3	.9	2.6	144	322	77	17	38
18	5.2	10	2.0	2.0	2.6	1.0	2.3	138	310	177	14	40
19	3.9	10	2.0	2.1	2.4	101	2.3	145	349	101	14	37
20	2.8	11	1.5	2.3	2.3	69	2.1	159	408	13	16	39
21	2.1	8.9	1.5	2.3	2.3	9.4	1.8	166	442	64	94	34
22	2.1	8.5	1.5	2.4	2.3	30	1.8	210	464	87	74	33
23	1.8	8.5	1.5	2.4	2.3	40	2.6	263	452	75	6.6	21
24	1.8	7.2	1.5	2.1	2.3	45	2.3	283	418	79	5.0	18
25	1.7	7.0	1.5	2.1	2.3	40	2.0	339	373	79	28	16
26	1.7	7.2	1.5	2.1	2.1	40	2.0	389	357	38	73	13
27	1.7	7.0	1.5	2.0	2.1	40	1.6	401	286	6.9	71	11
28	2.5	7.2	1.5	2.1	2.1	37	1.8	358	296	4.8	56	8.1
29	9.5	7.2	1.5	2.3	----------	5.6	2.0	355	296	3.1	37	5.9
30	9.1	8.9	1.5	2.6	----------	5.3	2.6	410	277	2.6	75	7.8
31	11	----------	1.5	4.3	----------	4.5	----------	376	----------	2.4	35	----------
Total	214.9	266.4	121.9	64.7	78.5	487.4	69.6	5,086.1	10,685	1,968.6	1,101.6	1,996.8
Mean	6.93	8.88	3.93	2.09	2.80	15.7	2.32	164	356	63.5	35.5	66.6
Ac-ft	426	528	242	128	156	967	138	10,090	21,190	3,900	2,180	3,960

Calendar year 1966 : Max 292 Min 0.8 Mean 25.3 Ac-ft 18,330
Water year 1966-67 : Max 464 Min 0.7 Mean 60.7 Ac-ft 43,900

Table 62.--1726.5 Kennecott Drain near Magna

Location.--Lat 40°45'28", long 112°10'04", in SE¼SW¼ sec. 3, T. 1 S., R. 3 W., about 300 feet downstream from culvert on U.S. Highway 40, and 4.5 miles northwest of Magna.

Records available.--October 1963 to September 1967.

Gage.--Water-stage recorder. Altitude of gage is 4,210 ft (from topographic map).

Extremes.--1963-67: Maximum discharge 389 cfs Mar. 18, 1964 (gage height, 5.50 ft) result of break in dike of Kennecott tailings pond; maximum daily, 297 cfs Mar. 18, 1964; minimum daily, 38 cfs Feb. 17, 1966.

Remarks.--Records good.

Discharge, in cubic feet per second, water year October 1966 to September 1967

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	126	107	85	62	155	90	140	148	136	92	127	
2	127	114	86	80	134	64	140	128	152	106	148	
3	148	120	87	85	105	55	130	117	148	102	130	
4	127	122	94	84	84	66	130	118	118	103	121	
5	128	110	91	105	109	61	120	124	120	101	120	
6	128	113	113	103	83	66	118	125	130	71	109	
7	120	120	133	86	100	78	117	116	133	122	120	
8	108	138	109	73	116	66	116	112	152	132	117	
9	110	165	87	61	104	88	109	125	148	128	120	
10	105	167	72	54	91	108	104	143	172	127	118	
11	111	168	78	68	96	125	102	211	160	93	121	
12	123	138	99	80	88	120	112	225	189	119	123	
13	154	122	102	118	82	114	132	156	239	126	120	
14	193	115	91	123	84	110	128	133	247	121	122	
15	172	117	86	118	87	100	122	126	266	130	122	110
16	152	114	83	113	102	90	157	124	207	113	121	
17	130	87	94	110	114	90	164	120	207	149	100	
18	128	94	102	110	106	80	135	126	159	173	117	
19	116	94	100	122	84	100	132	137	155	144		
20	116	91	93	125	43	120	148	120	173	124		
21	109	93	96	140	74	120	133	110	178	110		
22	108	91	92	118	66	110	130	107	164	102		
23	110	86	71	100	84	100	120	67	205	112		
24	110	104	72	90	99	100	143	88	192	116		
25	107	100	101	80	87	100	152	104	172	115	110	
26	105	74	114	75	90	90	118	123	154	124		
27	116	79	86	101	90	90	122	125	122	119		
28	110	98	79	117	83	90	115	114	99	111		
29	111	113	62	120	----------	120	116	119	110	123		
30	113	104	62	123	----------	150	142	140	114	125		
31	115	----------	62	144	----------	140	----------	170	----------	122		----------
Total	3,836	3,358	2,782	3,088	2,640	3,001	3,847	4,001	4,921	3,655	3,606	3,300
Mean	124	112	89.7	99.6	94.3	96.8	128	129	164	118	116	110
Ac-ft	7,610	6,660	5,520	6,120	5,240	5,950	7,630	7,940	9,760	7,250	7,150	6,550

Calendar year 1966 : Max 193 Min 38 Mean 90.6 Ac-ft 65,580
Water year 1966-67 : Max 266 Min 43 Mean 115 Ac-ft 83,380

Note.--No gage-height record Mar. 13 to Apr. 5, Aug. 19 to Sept. 30; discharge estimated.