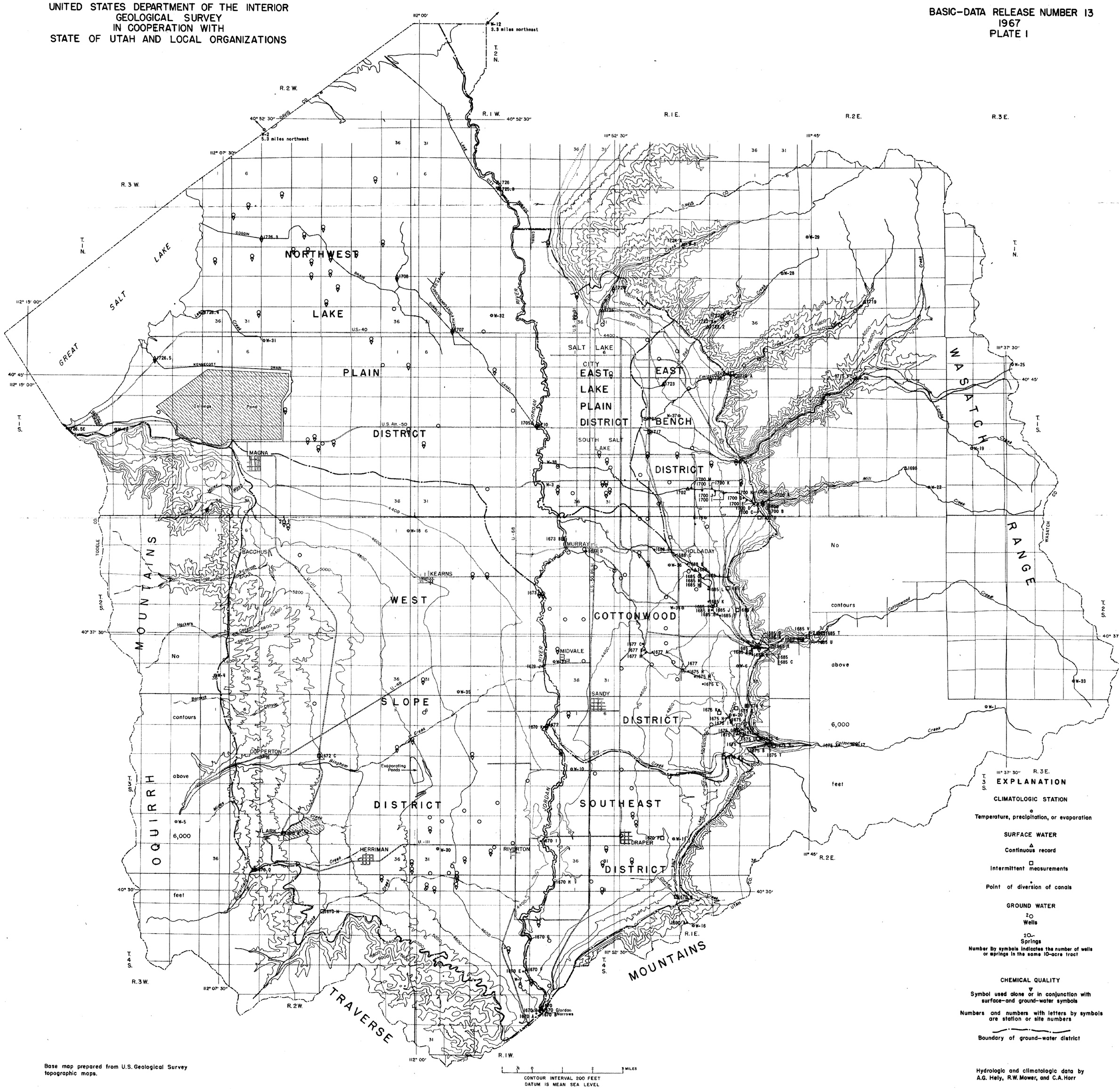
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
IN COOPERATION WITH
STATE OF UTAH AND LOCAL ORGANIZATIONS

BASIC-DATA RELEASE NUMBER 13
1967
PLATE 1



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

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 1966

UTAH BASIC-DATA RELEASE NO. 13
(Open-File Release)

HYDROLOGIC AND CLIMATOLOGIC DATA

1966

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

1967

Contents

	Page
Introduction	1
Station-numbering system	2
Well- and spring-numbering system	3
Climatologic data	5
Ground-water data	9
Water-quality data	18
Surface-water data	30

Illustrations

Plate 1. Map of Salt Lake County, Utah, showing location of hydrologic and climatologic data-collection sites	In pocket
Figure 1. Well- and spring-numbering system	4
2-5. Schematic diagrams showing relation of flows:	
2. In Jordan Narrows	32
3. In Little Cottonwood Creek basin	40
4. In Big Cottonwood Creek basin	40
5. In lower Jordan River basin	64

Tables

Table 1. Climatologic stations	5
2. Monthly precipitation	6
3. Monthly air temperature	7
4. Monthly pan evaporation and wind movement	8
5. Records of selected wells	9
6. Water levels in selected observation wells	11
7. Selected drillers' logs of wells	14
8. Summary of estimated well discharge	17
9. Chemical analyses of water from selected wells and springs	18
10. Chemical analyses of water from streams at or near gaging stations	20
11. Daily mean specific conductance of Jordan River at 5800 South, near Murray (1673)	28
12. Daily maximum and minimum temperature of Red Butte Creek at Fort Douglas, near Salt Lake City (1722)	29
13. Discharge measurements at miscellaneous sites	30
14-61. Streamflow records:	
14. 1590 A, 1670 A, B, 1726.5 C. Water imported to Salt Lake County	33
15. 1670. Jordan River at narrows, near Lehi	34
16. 1670 C-K, 1673 B. Diversions from Jordan River between Jordan Narrows and the Surplus Canal	35

Tables--Continued

Page

Streamflow records--Continued

Table 17. 1672. Jordan River at 9400 South, near South Jordan 36

18. 1673. Jordan River at 5800 South, near Murray . . 38

19. 1675. Little Cottonwood Creek near Salt Lake City 41

20. 1675 A. Murray City powerplant pipeline above Little Cottonwood Creek treatment plant, near Salt Lake City 42

21. 1675 B, C. Irrigation diversions from Little Cottonwood Creek above the gage (1675 D) 43

22. 1675 D. Little Cottonwood Creek (channel only) near Salt Lake City. 44

23. 1675 E. Beaver Pond Springs pipeline near Salt Lake City. 45

24. 1675 F. Diversion to Little Cottonwood Creek treatment plant, near Salt Lake City 46

25. 1675 G-N. Irrigation diversions from Little Cottonwood Creek between gaging stations 1675 D and 1677. 47

26. 1677. Little Cottonwood Creek at 2050 East near Salt Lake City 48

27. 1677 A-D, H. Irrigation diversions from Little Cottonwood Creek below gaging station at 2050 East. 49

28. 1685. Big Cottonwood Creek near Salt Lake City. . 50

29. 1685 A. Utah Power and Light Company tailrace above Big Cottonwood Creek treatment plant, near Salt Lake City 51

30. 1685 B. Butler Ditch near Salt Lake City. 52

31. 1685 C. Big Cottonwood Creek flume at water treatment plant, near Salt Lake City 53

32. 1685 D. Salt Lake City conduit from Big Cottonwood Creek treatment plant, near Salt Lake City 54

33. 1685 E-O, 1688 A. Diversions from Big Cottonwood Creek between Big Cottonwood Creek flume and gaging station at Cottonwood Lane. 55

34. 1688. Big Cottonwood Creek at Cottonwood Lane, near Salt Lake City. 56

35. 1688 B-D. Diversions from Big Cottonwood Creek below gaging station at Cottonwood Lane. 57

36. 1698. Mill Creek above Elbow Fork, near Salt Lake City. 58

37. 1700. Mill Creek near Salt Lake City. 59

38. 1700 A. Boundary Springs near Salt Lake City. . . 60

Tables--Continued

Page

Streamflow records--Continued

Table 39. 1700 B. Mill Creek (channel only) near Salt Lake City 61

40. 1700 C-M. Diversions from Mill Creek between gaging stations 1700 B and 1702. 62

41. 1702. Mill Creek at 2200 East, near Salt Lake City 63

42. 1705. Surplus Canal at Salt Lake City 65

43. 1707. North Point Consolidated Canal below Goss flume, at Salt Lake City 66

44. 1708. Surplus Canal at Cohen flume, near Salt Lake City. 67

45. 1710. Jordan River at Salt Lake City. 68

46. 1715 F. Diversion to Salt Lake City water supply from Mountain Dell Reservoir, near Salt Lake City 70

47. 1716. Parleys Creek at Suicide Rock, near Salt Lake City. 71

48. 1719. Emigration Creek below Burr Fork, near Salt Lake City 72

49. 1719 A. Diversion from Emigration Tunnel Springs to Salt Lake City water supply 73

50. 1720. Emigration Creek near Salt Lake City. . . . 74

51. 1721. Emigration Creek below 1300 East, at Salt Lake City. 75

52. 1722. Red Butte Creek at Fort Douglas, near Salt City 76

53. 1722 A. Diversion from Red Butte Creek to Fort Douglas water supply 77

54. 1722.2. Red Butte Creek below Red Butte Reservoir, near Salt Lake City. 78

55. 1723. Red Butte Creek at 1600 East, at Salt Lake City 79

56. 1724. City Creek above Wasatch Drive, near Salt Lake City. 80

57. 1724 A. Diversion to City Creek treatment plant from City Creek, near Salt Lake City 81

58. 1725. City Creek near Salt Lake City. 82

59. 1726. Jordan River below Cudahy Lane, near Salt Lake City. 83

60. 1726.3. Goggin Drain near Magna 84

61. 1726.5. Kennecott Drain near Magna. 85

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 equally by the State of Utah and the Federal Government in accordance with an agreement between the State Engineer and the Geological Survey. The Utah Water and Power Board, Utah Fish and Game Commission, Salt Lake County Water Conservancy District, Metropolitan Water District of Salt Lake City, Salt Lake County, Kennecott Copper Corporation, Utah Power and Light Company, Salt Lake City Chamber of Commerce, and the Central Utah Water Conservancy District contributed funds to the State Engineer's office toward support of the project.

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 and 12 contain data collected through 1965. This release contains climatologic and surface-water data for the 1966 water year (October 1965 to September 1966) and ground-water data collected during the 1966 calendar year. Similar annual releases 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 and 12 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, and others, 1964, Ground-water conditions in Utah, spring of 1964: Utah Water and Power Board Coop. Inves. Rept. 2.

_____1966, Ground-water conditions in Utah, spring of 1965: Utah Water and Power Board Coop. Inves. Rept. 3.

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 Engr. 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. Inves. 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 uppercase 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.) Beginning with this report, springs are designated by the letter S preceding the serial number at the end of the location number.

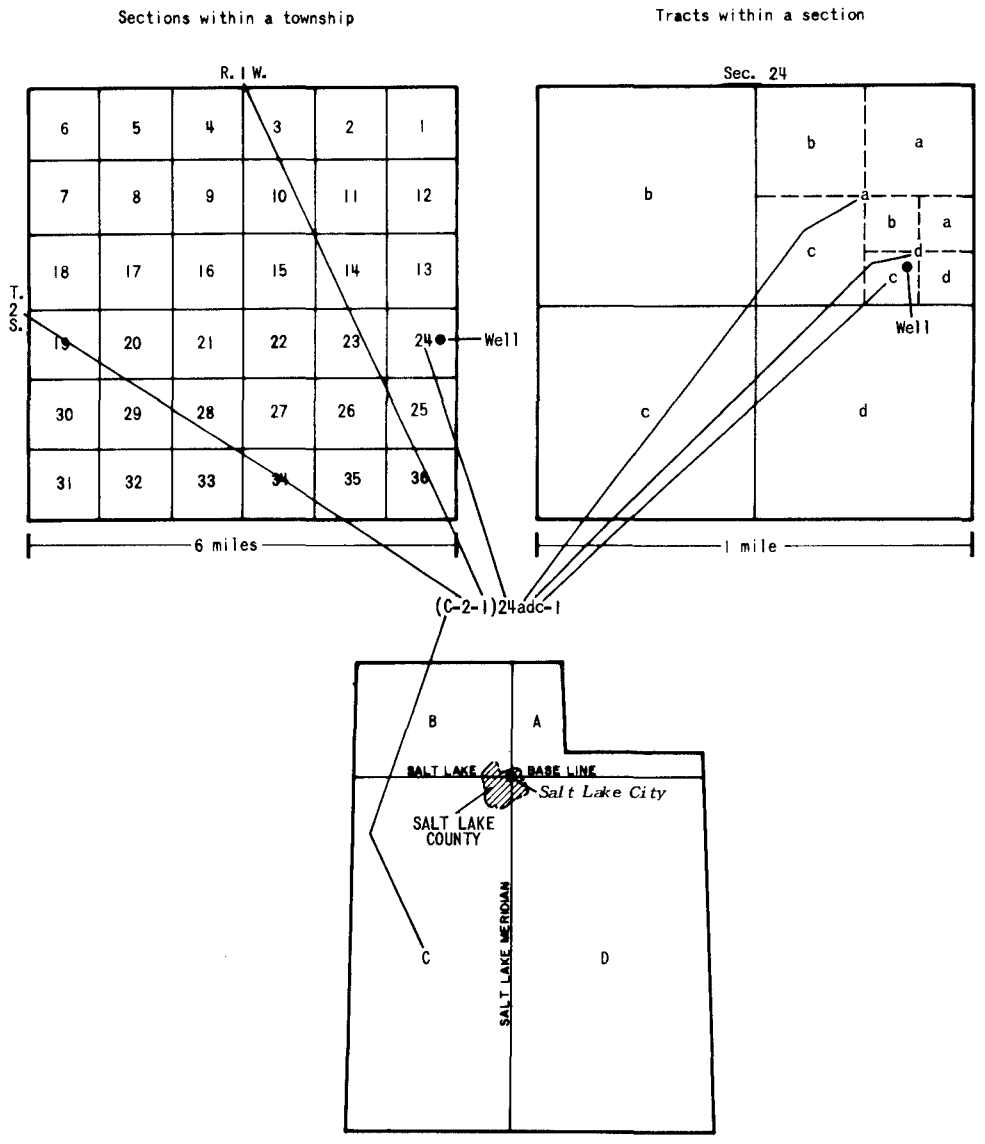


Figure 1.—Well- and spring-numbering system.

Table 1.--Climatologic stations

Types of data.--D, daily values; M, monthly values; records available in publications or files of the U.S. Weather Bureau or the U.S. Geological Survey.

Station	Map number	WB Index number	Latitude		Longitude		Section	Township	Range	Elevation	Types of data					
			°	'	°	'					Air temperature	Precipitation	Evaporation	Relative humidity	Solar radiation	Soil temperature
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				
A S R Research Lab[a]	W-3	0302	40	42	111	55	35	1 S	1 W	4,246	D	D	D	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		
Lambs Canyon	W-19	4903	40	43	111	39	19	1 S	3 E	6,840		M				
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[b]	W-38	7608	40	42	111	55	26	1 S	1 W	4,235	D	D	D	D		

a Discontinued May 1966.
b Established May 1966.

Table 2.--Monthly precipitation, in inches

Water year October 1965 to September 1966

Station	Map No.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year
Alta	W-1	-	-	-	6.11	6.14	1.24	3.20	-	-	-	-	-	-
Antelope Island	W-2	0.36	1.80	1.81	.23	1.33	.98	1.45	e.57	0	0.18	0	0.17	e8.88
A S R Research Lab	W-3	.57	1.05	.75	.76	.83	.64	.80	-	-	-	-	-	-
Barneys Canyon	W-4	.65	1.70	2.28	1.07	.80	2.50	2.87	2.15	.10	.15	.30	1.55	16.12
Bingham Canyon	W-5	1.16	1.55	2.05	1.37	1.33	1.13	2.48	1.24	.13	1.41	.61	1.82	16.28
Butlerville	W-6	.89	1.25	2.58	1.15	1.56	1.88	1.97	.89	.07	.50	.46	2.28	15.48
Camp Williams	W-7	.45	1.95	2.30	.41	1.46	1.15	1.04	.58	.18	.65	.43	1.20	11.80
City Creek Water Plant	W-8	.60	2.75	2.52	1.55	2.80	2.27	2.14	1.60	.70	.70	.48	1.21	19.32
Cottonwood Weir	W-9	.92	1.97	e2.15	.76	1.84	1.87	1.23	.72	.17	e.46	.64	2.42	e15.15
Crescent	W-10	.42	.98	2.33	.43	.74	.72	.99	.70	.02	.56	1.23	.80	9.92
Draper	W-11	.63	2.55	4.45	.74	1.35	1.47	1.32	1.14	.08	.72	.77	1.54	16.76
Farmington Bay Refuge	W-12	.61	1.41	-	-	-	.77	1.36	1.63	.03	.45	.04	.88	-
Garfield	W-13	.86	1.81	.76	.28	.76	.96	2.71	1.16	0	.56	.14	2.76	12.76
Holladay	W-15	.78	1.49	2.28	.75	1.30	1.66	1.86	.68	1.26	.45	.15	1.90	14.56
Hog Hollow	W-16	.35	2.55	3.87	1.10	(*)	6.55	-	-	.20	.95	.95	2.15	-
Hogum Fork	W-17	.62	3.60	5.65	1.27	2.50	2.75	2.56	2.50	.60	.85	1.05	2.25	26.20
Kearns	W-18	.43	.75	1.21	.28	.28	.78	1.62	.52	.06	.14	.17	.88	7.12
Lambs Canyon	W-19	.55	(*)	4.85	4.60	3.60	1.90	-	-	-	-	-	-	-
Little Cottonwood Water Plant	W-20	.92	1.49	2.86	.62	1.47	1.75	2.04	1.11	.06	.42	.90	2.62	16.26
Mill Creek Canyon	W-22	.70	4.55	4.45	1.82	3.60	3.40	3.32	2.10	.60	.70	.40	1.80	27.44
Midvale	W-23	.52	e1.31	2.00	.38	.73	1.62	1.09	.59	0	.44	.41	1.05	e10.14
Mountain Dell Dam	W-24	.52	3.01	2.55	.81	2.36	1.54	2.26	1.75	.88	.54	.24	1.92	18.38
Parleys Summit	W-25	.40	3.77	3.16	2.41	3.46	2.61	2.78	1.08	(*)	1.74	.38	1.68	23.47
Red Butte No. 2	W-27	.63	2.00	2.32	1.07	2.37	1.41	2.02	1.18	.17	.48	.18	1.42	15.25
Red Butte No. 4	W-28	.48	2.42	3.00	1.75	3.31	1.91	2.70	1.81	.53	.48	.36	1.64	20.39
Red Butte No. 6	W-29	.46	4.79	3.40	2.03	3.84	2.33	2.71	2.17	.63	.40	.55	1.73	25.04
Riverton	W-30	.41	1.01	2.36	.32	.95	.93	1.01	.27	.03	.52	.69	.90	9.40
Saltair Salt Plant	W-31	.62	1.00	1.06	.06	.48	.62	1.09	.56	0	1.38	.07	.73	7.67
Salt Lake City WB AP	W-32	.39	1.13	1.81	.41	1.19	1.21	1.43	.51	.07	.33	.22	.83	9.53
Silver Lake Brighton	W-33	0	e8.81	5.99	2.61	3.30	3.01	e2.52	1.99	.75	2.14	1.03	2.22	e34.37
Sixty-second South pump	W-34	.84	1.46	2.21	.25	2.27	1.39	1.46	.70	0	.24	.31	1.28	12.41
West Jordan	W-35	.39	1.07	1.40	.24	.30	.87	.91	.55	.02	.10	.16	.69	6.70
Cottonwood Meadows	W-36	.80	1.16	2.30	1.52	1.59	1.44	.67	.73	.30	.36	.10	1.13	12.10
Foothill P.O.	W-37	.64	1.42	2.03	.85	1.64	1.21	1.42	.73	.12	.46	.32	1.68	12.52
S L C Suburban Sewage Plant	W-38	-	-	-	-	-	-	-	.50	0	.24	.21	.76	-

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

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

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

Water year October 1965 to September 1966

Station	Map No.	Data	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year
Alta	W-1	Max.	-	-	-	27.5	25.1	39.0	-	-	-	-	-	-	
		Min.	-	-	-	9.9	9.4	19.8	-	-	-	-	-	-	
		Mean	-	-	-	18.7	17.3	29.4	-	-	-	-	-	-	-
Antelope Island	W-2	Max.	74.2	60.1	40.3	39.3	41.6	56.8	66.4	-	87.1	99.8	95.9	86.5	
		Min.	35.5	30.5	18.9	16.6	18.1	25.1	32.2	-	48.0	60.5	56.6	48.7	
		Mean	54.9	45.3	29.6	28.0	29.9	41.0	49.3	-	67.6	80.2	76.3	67.6	-
A S R Research Lab	W-3	Max.	71.0	57.8	39.1	40.8	40.6	56.5	63.5	-	-	-	-	-	
		Min.	35.6	34.0	22.2	20.5	21.3	39.5	32.7	-	-	-	-	-	
		Mean	53.3	45.9	30.7	30.7	31.0	48.0	48.1	-	-	-	-	-	-
Bingham Canyon	W-5	Max.	65.5	51.1	40.4	36.9	35.8	49.2	56.8	72.1	78.9	90.0	85.6	75.1	
		Min.	44.0	36.0	24.2	20.9	20.2	29.6	35.4	48.3	54.4	64.4	59.5	53.5	
		Mean	54.8	43.6	32.3	28.9	28.0	39.4	46.1	60.2	66.7	77.2	72.6	64.3	51.2
Camp Williams	W-7	Max.	69.4	54.4	43.2	38.7	40.4	57.6	64.7	77.0	81.6	91.2	90.2	82.5	
		Min.	39.1	35.3	24.0	20.8	20.5	29.4	35.7	48.8	54.5	64.2	59.3	53.7	
		Mean	54.2	44.8	33.6	29.8	30.4	43.5	50.2	62.9	68.0	77.7	74.8	68.1	53.2
Cottonwood Weir	W-9	Max.	72.7	57.3	41.8	41.9	43.0	57.3	63.9	78.5	84.7	-	90.9	82.4	
		Min.	47.9	40.6	24.6	24.2	24.0	33.0	40.8	54.5	58.2	-	66.9	59.4	
		Mean	60.3	49.0	33.2	33.1	33.5	45.2	52.4	66.5	71.5	-	78.9	70.9	-
Draper	W-11	Max.	71.3	57.7	43.4	42.8	42.1	57.1	63.3	79.5	86.2	95.2	93.3	83.5	
		Min.	36.1	33.9	22.0	18.3	19.1	26.5	32.2	45.7	52.1	61.9	52.5	50.2	
		Mean	53.7	45.8	32.7	30.6	30.6	41.8	47.8	62.6	69.2	78.6	72.9	66.9	52.8
Farmington Bay Refuge	W-12	Max.	68.5	53.9	-	-	-	52.7	60.8	76.4	81.9	93.3	90.8	80.2	
		Min.	36.0	33.3	-	-	-	28.8	35.4	46.3	50.2	60.3	53.9	48.1	
		Mean	52.2	43.6	-	-	-	40.8	48.1	61.4	66.0	76.8	72.4	64.2	-
Garfield	W-13	Max.	66.2	54.0	36.9	37.5	38.0	50.1	60.3	76.0	82.3	93.8	88.3	79.1	
		Min.	45.3	39.2	24.7	24.5	24.7	32.7	41.5	55.5	61.8	72.3	65.3	58.6	
		Mean	55.8	46.6	30.8	31.0	31.4	41.4	50.9	65.8	72.1	83.1	76.8	68.9	54.6
Kearns	W-18	Max.	68.7	55.5	37.4	39.3	39.7	54.0	62.1	77.5	85.2	94.6	90.6	81.6	
		Min.	39.7	36.4	21.3	20.8	21.4	27.3	35.1	47.5	54.6	65.4	58.2	55.3	
		Mean	54.2	46.0	29.4	30.0	30.6	40.6	48.6	62.5	69.9	80.0	74.4	68.4	52.9
Mountain Dell Dam	W-24	Max.	-	55.1	42.6	41.0	41.0	54.8	60.8	75.5	82.1	92.4	88.4	79.3	
		Min.	-	28.0	17.3	9.0	9.9	21.7	27.3	36.4	39.9	49.9	45.1	41.3	
		Mean	50.8	41.6	30.0	25.0	25.5	38.3	44.1	56.0	61.0	71.2	66.8	60.3	47.6
Saltair Salt Plant	W-31	Max.	66.7	53.5	37.0	39.1	37.7	50.1	60.0	75.8	82.8	93.1	88.2	78.8	
		Min.	39.8	35.5	22.9	20.1	21.8	27.7	37.3	50.0	57.5	66.6	59.0	54.4	
		Mean	53.3	44.5	30.0	29.6	29.8	38.9	48.7	62.9	70.2	79.9	73.6	66.6	52.3
Salt Lake City WB AP	W-32	Max.	71.2	56.8	38.2	39.9	39.8	55.7	63.6	78.7	85.3	96.0	91.6	82.1	
		Min.	37.8	35.3	22.2	21.3	19.0	27.5	35.6	46.6	53.0	64.2	56.6	52.9	
		Mean	54.5	46.1	30.2	30.6	29.4	41.6	49.6	62.7	69.2	80.1	74.1	67.5	53.0
Silver Lake Brighton	W-33	Max.	58.2	41.9	36.6	29.5	28.0	42.6	46.2	58.6	65.0	73.6	71.3	64.1	
		Min.	28.9	21.3	9.8	4.8	3.1	14.3	18.6	31.3	36.8	47.1	41.2	36.7	
		Mean	43.6	31.6	23.2	17.2	15.6	28.5	32.4	45.0	50.9	60.4	56.3	50.4	37.9
Sixty-second South pump	W-34	Max.	71.4	56.9	41.4	41.4	41.7	57.4	66.1	79.9	87.0	95.7	92.6	84.4	
		Min.	37.2	33.5	21.0	16.4	16.9	24.6	36.2	42.8	52.1	59.3	54.0	47.5	
		Mean	54.3	45.2	31.2	28.9	29.3	41.0	51.2	61.4	69.6	77.5	73.3	66.0	52.4
S L C Suburban Sewage Plant	W-38	Max.	-	-	-	-	-	-	-	77.4	85.4	94.4	91.0	81.8	
		Min.	-	-	-	-	-	-	-	47.9	54.0	64.3	56.9	53.4	
		Mean	-	-	-	-	-	-	-	62.6	69.7	79.4	74.0	67.6	-

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 1965 to September 1966

Station	Map No.	Data	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
A S R Research Lab	W-3	Evap.	2.54	-	-	-	-	-	-	-	-	-	-	-
		Wind	408	-	-	-	-	-	-	-	-	-	-	-
		Max.	62.9	-	-	-	-	-	-	-	-	-	-	-
		Min.	42.2	-	-	-	-	-	-	-	-	-	-	-
Draper	W-11	Evap.	3.66	-	-	-	-	-	5.16	9.07	10.19	12.69	9.22	6.88
		Wind	627	-	-	-	-	-	1,042	1,331	1,138	1,475	677	941
		Max.	66.0	-	-	-	-	-	68.0	80.8	-	89.8	88.2	79.2
		Min.	41.5	-	-	-	-	-	41.8	48.7	-	61.8	58.7	55.7
Farmington Bay Refuge	W-12	Evap.	3.68	-	-	-	-	-	-	8.13	10.62	12.12	11.31	7.14
		Wind	712	1,287	-	-	-	1,276	1,309	1,062	1,559	1,808	1,272	1,241
		Max.	70.1	-	-	-	-	-	-	79.2	88.0	96.7	84.3	72.4
		Min.	40.0	-	-	-	-	-	-	51.3	54.5	61.2	58.1	54.4
Kearns	W-18	Evap.	5.04	-	-	-	-	-	6.59	11.07	13.58	16.10	13.07	9.64
		Wind	1,877	-	-	-	-	-	2,240	2,620	2,527	3,518	2,121	2,639
		Max.	63.8	-	-	-	-	-	66.2	76.0	80.2	87.5	86.4	78.1
		Min.	48.3	-	-	-	-	-	46.2	56.0	63.0	61.8	58.0	53.2
Saltair Salt Plant	W-31	Evap.	4.77	2.98	-	-	-	-	8.39	12.03	18.13	17.35	13.54	9.49
		Wind	2,122	3,436	-	-	-	3,275	3,728	4,500	-	5,068	3,404	3,728
		Max.	66.7	52.8	-	-	-	-	65.6	76.9	81.7	87.1	84.2	76.0
		Min.	42.1	39.0	-	-	-	-	39.3	67.5	53.2	60.4	56.6	53.0
Sixty-second South pump	W-34	Evap.	-	-	-	-	-	-	e5.8	9.48	9.59	-	e8.5	e7.9
		Wind	243	-	-	-	-	-	1,052	1,274	1,126	1,002	714	891
		Max.	-	-	-	-	-	-	72.7	85.4	91.1	96.0	95.1	85.7
		Min.	-	-	-	-	-	-	47.6	54.8	60.5	64.9	63.3	58.4
S L C Suburban Sewage Plant	W-38	Evap.	-	-	-	-	-	-	-	e12.3	12.85	14.17	11.13	7.51
		Wind	-	-	-	-	-	-	-	e2,900	2,349	2,481	1,609	1,995
		Max.	-	-	-	-	-	-	-	e77.0	79.8	88.0	86.5	75.8
		Min.	-	-	-	-	-	-	-	e49.4	54.7	61.2	58.4	54.4

e Partly estimated.

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 given in feet if known.

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; 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 1966.--H, domestic; I, irrigation, N, industrial; O, water-level observation; P, public supply; 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; W, water-level measurements (table 6). Records of other wells are contained in Utah Basic-Data Releases 4, 11, and 12, 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 1966	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-1-2)															
7dbb-1	C. F. Gillmor	1937	735	2	480	O	4,210	+7.8	2- 3-66	F	4.3Fm	2- 3-66	S	62	C,J
16caa-1	Bonneville-On-The Hill, Co.	1966	636	2	626	S 10	4,213	+19.9	6- 8-66	F	27Fm	6- 8-66	S	75	C,D,J
21abb-1	do	1966	747	2	548	S 10	4,217	+15.5	9-20-66	F	7.2Fm	9-20-66	S	72	C,D,J
21acd-1	do	1966	600	2	590	S 10	4,220	+15.9	5-16-66	F	28Fm	5-16-66	S	75	C,D,J
21bbb-2	do	1966	577	2	567	S 10	4,215	+19.1	4-14-66	F	26Fm	4-14-66	S	73	C,D,J
21dcd-1	do	1966	561	2	561	S 10	4,222	+11.1	9-20-66	F	22Fm	9-20-66	S	72	C,D,J
22bdb-1	do	1966	560	2	550	S 10	4,214	+17.2	6- 8-66	F	34Fm	6- 8-66	S	73	C,D,J
27acb-1	do	-	-	2	-	-	4,220.7	(+)	2- 2-66	F	.6Fm	2- 2-66	S	63	C
27cca-1	do	1966	618	2	608	S 10	4,222	+16.2	8-31-66	F	29Fm	8-31-66	S	77	C,J
(C-1-1)															
26ada-1	Salt Lake City Suburban Sewage Plant	-	19	18	19	O	4,235	-3.2	6-10-66	N	-	-	O	-	W
36bad-1	A & R Sausage Co.	1963	490	8	490	P212-463	4,248	+8	5-10-63	C	60Pr	3- 9-66	N	-	D
(C-1-2)															
1ddd-1	Utah Power and Light Co.	1913	612	3	612	-	4,227.0	(+)	11-28-66	F	12Fm	11-28-66	P	68	C
2aba-2	Bonneville-On-The-Hill Co.	1966	500	2	399	S 11	4,230	+8.3	9-21-66	F	3.3Fm	9-21-66	H	77	C,D,J
17adc-1	Kennecott Copper Corp.	1960	854	20	847	P401-843	4,222	(+)	12-15-60	F	350Fr	12-15-60	U	-	C,D
21adb-1	do	1948	524	20	422	P380-416	4,225	+25	8- -49	T	-	-	N	64	C
21dad-10	do	1906	60	3	60	O	4,232	-	-	F	-	-	H	54	C
24aaa-2	F. G. Klein	1966	450	4	450	P170-450	4,243	+9.6	10-27-66	F	45Fm	10-27-66	H	73	C,J
(C-1-3)															
15dbb-2	Kennecott Copper Corp.	1966	520	20	520	P315-505	4,227	-	-	T	-	-	N	-	D,J
(C-2-1)															
9ccc-1	Salt Lake County Water Conservancy District	1966	795	20	795	P187-372	4,461	-67.3	4- 5-66	N	-	-	U	64	C,D,J,W
12aab-1	City of Murray	1966	620	16	609	P336-570	4,290	-27.8	2-28-66	T	2,500Pr	2- 5-66	P	-	D,J
14caa-1	E. F. Burkhardt	1963	63	2	63	O	4,265	(+)	5-31-66	F	3Fe	5-31-66	H	64	C
23aba-1	J. S. Bair	1964	250	8	250	P205-250	4,282	+4.2	8- 8-66	F	107Fm	8- 8-66	S	-	D
25ddb-2	City of Midvale	1966	792	16	782	P588-767	4,385	-81.0	9-30-66	N	570Pr	9-29-66	U	-	D,J
26add	American Smelting and Refining Co.	-	-	-	-	-	4,285	+4.1	10-20-66	F	76Fm	10-20-66	U	60	C
(C-2-2)															
9bdb-1	Hercules, Inc.	1939	515	10	480	P300-480	4,867	-94.5	1-15-66	N	-	-	U	-	D,J,W
(C-3-1)															
1cab-2	Salt Lake County Water Conservancy District	1966	800	20	800	P319-750	4,361.8	-42.5	2- 5-66	N	728Pr	1-25-66	U	76	C,D,J,W
7bcc-1	H. Walker	1966	401	12	400	P262-366	4,799.8	-163.8	8-30-66	N	250Pr	6-11-66	U	58	C,D,J
32adc-1	E. H. Dansie	1959	285	12	248	P135-248	4,575	(-)	8-29-66	T	860Pm	8-29-66	I	53	C
33abd-1	S. Stefanoff	1961	357	8	357	P103-347	4,497	-79	9- 9-66	T	620Pm	9- 9-66	I	64	C
(C-4-1)															
6adc-1	J. P. Butterfield	1955	355	12	322	P125-320	4,690	-113.7	4- 8-66	T	215Pm	7-13-66	I	54	C,D
(D-1-1)															
20ddd-1	Salt Lake City	1934	500	20	500	P 80-438	4,417.7	-38.0	2- 1-66	T	-	-	P	60	C
21ddd-1	do	1934	535	20	535	P126-502	4,520.2	-129.1	2- 1-66	T	-	-	P	59	C
22cad-1	The Country Club	1966	606	16	575	P160-570	4,520	-148.6	7-26-66	N	-	-	U	-	D,J

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

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 1966	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			
(D-1-1)															
25ccb-2	County Water System	1956	546	16	546	P106-158	4,930	(-)	7-21-66	T	-	-	P	59	C
26bbc-1	do	1960	470	16	427	P314-425	4,690	(-)	7-21-66	T	-	-	P	59	C
28dca-1	Wasatch Land and Improvement Co.	1961	612	12	612	P265-610	4,488	(-)	8-26-66	T	350Pr	8-26-66	I	-	D
29dba-1	Interstate Brick Co.	1966	480	8	480	P400-480	4,355	(+)	4- 8-66	T	-	-	N	63	D,J
30abb-4	H. J. Perry	1925	400	2	400	-	4,260.0	-7.3	6- 7-66	F	-	-	H	-	C,W
30dcb-14	Economy Builder Supply Co.	1955	-	2	-	-	4,260	-	-	C	-	-	H	56	C
31aba-4	E. H. Carter	1931	417	2	-	-	4,266.3	(+)	5-19-66	F	-	-	H	55	C
33cab-4	Forrest Hills Nursery	1961	500	10	500	P320-384	4,358	-	-	T	-	-	I	-	D
(D-2-1)															
8abd	Salt Lake City	-	-	3	-	-	-	(+)	12-21-66	F	1Fe	12-21-66	U	55	C
10cdb-6	J. Orlando	1966	300	8	300	P245-295	4,400	-32	4-29-66	-	-	-	-	-	D,J
17bbb-2	Hi-Land Dairy	1953	736	6	736	P637-726	4,328	(+)	6-21-66	C	-	-	N	-	D
(D-3-1)															
16dbd-1	Memorial Gardens of the Valley	1961	650	10	650	P435-612	4,795	-402.9	2- 4-66	T	-	-	I	-	D,J
20baa-1	Barros Inc.	1966	568	8	568	P314-540	4,570	-202	4-19-66	-	349Pr	4-19-66	H	74	D
20cdd-1	Draper Irrigation Co.	1966	510	6	(a)	-	4,559	(-)	6- 3-66	N	-	-	U	70	C,D,J
29abc-1	S. B. Logan	1957	168	6	168	P145-150	4,590	(-)	6- 3-66	T	55Pm	6- 3-66	H	72	C
31abb-1	V. B. Ennis	1965	138	6	138	P125-135	4,437	-35.4	2-24-66	J	-	-	H	-	C,D
31caa-1	Draper Irrigation Co.	1966	510	6	(a)	-	4,437	(-)	5-17-66	N	-	-	U	57	C,D,J
32bdd-1	do	1966	500	6	(a)	-	4,479	(-)	5- 6-66	N	-	-	U	55	C,D,J
(D-4-1)															
6bdd-1	A. G. Hill	1941	28	4	28	O	4,454	(-)	10- 3-66	C	-	-	H	63	C

a Test well. Casing was removed after tests were completed.

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 (table 13) and 12 (table 6) 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 (table 12) or 12 (table 5).

Cooperation.--Asterisk (*), measured by the Office of the Utah State Engineer; 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.--A, well being pumped; B, well pumped or flowed recently; C, nearby well being pumped; F, dry at depth indicated; H, tape measurement; I, affected by water in nearby canal.

(A-1-1)31cca-1. Records available 1934-66

Feb.	2, 1966	-131.3	June	1, 1966	-124.5†	Sept. 27, 1966	-144.7†
Mar.	1	130.3†		28	129.7†	Oct. 25	149.8†
	29	126.8†	Aug.	1	139.7†	Nov. 28	143.0†
Apr.	26	125.7†		30	143.7†	Dec. 28	137.3†

(A-1-2)31ddd-1. Records available 1965-66

Jan.	6, 1966	-32.4*	Apr.	20, 1966	-32.2*	Sept. 8, 1966	-32.7
Mar.	15	32.1*	May	19	32.0*	Oct. 7	33.6

(A-1-2)33aaa-2. Records available 1965-66

Jan.	6, 1966	-23.0*	Apr.	20, 1966	-17.6*	Sept. 8, 1966	-26.5
Mar.	15	17.0*	May	19	18.5*		

(A-1-2)33acb-2. Records available 1965-66

Jan.	6, 1966	-23.5*	Mar.	15, 1966	-22.4*	May 19, 1966	-22.4*
Feb.	18	24.0*	Apr.	20	22.5*	Sept. 8	30.4

(A-1-2)33caa-2. Records available 1965-66

Jan.	6, 1966	-21.4*	Apr.	20	-19.6*	Sept. 8, 1966	-22.7
Mar.	15	19.9*	May	19	19.0*		

(A-1-2)33cba-3. Records available 1965-66

Jan.	6, 1966	-23.4*	May	19, 1966	-22.6*	Oct. 28, 1966	-24.7
Feb.	18	23.6*	Sept.	8	24.7	Nov. 30	24.7
Mar.	15	22.5*	Oct.	7	25.0	Dec. 29	24.6
Apr.	20	22.7*					

(B-1-1)33cda-1. Records available 1935-66

Jan.	3, 1966	+10.4†	Apr.	27, 1966	+9.8†	Sept. 6, 1966	+9.2†
	17	9.7	June	1	8.7†	Oct. 4	8.9†
Feb.	7	10.0†	July	5	9.4†	31	9.1†
Mar.	7	10.1†	Aug.	1	8.2†	Nov. 28	9.3†
Apr.	4	9.9†					

(B-1-1)36abc-1. Records available 1931-66

Jan.	3, 1966	-5.7†	Apr.	27, 1966	-.9†	Aug. 1, 1966	-5.1†
Feb.	7	3.8†	June	1	.6†	Sept. 6	11.2†
Mar.	7	2.9†		28	1.8†	Oct. 4	13.3†
Apr.	4	2.1†					

(B-1-1)36acb-1. Records available 1934-66

Jan.	3, 1966	-12.3†	Mar.	7, 1966	-9.6†	Apr. 27, 1966	-7.0†
Feb.	7	10.2†	Apr.	4	10.6†	June 1	7.2†

(B-1-2)7ccc-1. Records available 1965-66

Feb.	3, 1966	B+9.9	Aug.	5	B+9.3	Oct. 27, 1966	B+9.2
Mar.	24	B8.8	Sept.	1	B9.2	Nov. 30	B9.1
Apr.	12	B9.7		29	B9.2	Dec. 29	B9.2
June	27	B9.9					

(B-1-2)36baa-1. Records available 1931-33, 1941-53, 1955-66

Jan.	17, 1966	B+10.6	May	16, 1966	B+10.0	Sept. 6, 1966	B+9.6
Feb.	4	B11.4	June	9	B9.9	29	B9.6
	23	B10.6		27	B9.7	Oct. 31	B9.5
Mar.	16	B10.3	July	14	B9.5	Nov. 30	B9.9
Apr.	12	B10.4	Aug.	1	B9.5	Dec. 29	B10.2
	22	B10.2		24	B9.6		

(C-1-1)9aab-1. Records available 1956-61, 1964-66

Feb.	28, 1966	B+5.7	Sept.	6, 1966	B+5.4

(C-1-1)15bdd-11. Highest water level on date, in feet above land surface from recorder graph. Records available 1956-66

1966

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	10.8	10.4	10.5	10.2	10.0	10.0	9.1	8.8	8.6	9.3	9.8	10.0
10	10.6	10.7	10.4	10.2	10.0	9.9	9.0	8.7	8.8	9.3	9.9	9.9
15	10.4	10.6	10.4	10.3	9.9	9.8	8.8	8.7	8.8	9.4	9.9	10.0
20	10.6	10.4	10.3	10.4	9.9	9.7	8.8	8.6	8.9	9.5	9.8	9.8
25	10.7	10.6	10.3	10.2	9.9	9.4	8.7	8.6	9.0	9.7	9.9	9.6
Eom	10.4	10.5	10.2	10.1	10.0	9.2	8.8	8.6	9.3	9.9	9.8	10.4

(C-1-1)18ddd-2. Records available 1957-66

Feb.	3, 1966	B+7.6	May	16, 1966	B+5.6	Sept. 6, 1966	B+4.0
	18	B6.6	June	7	B5.0	29	B4.9
	24	B6.7		29	B4.0	Oct. 31	B6.4
Mar.	16	B6.6	July	14	B4.1	Nov. 28	B6.1
Apr.	6	B6.4	Aug.	3	B4.0	Dec. 28	B6.2
	21	B6.3		24	B4.0		

(C-1-1)19caa-1. Records available 1964-66

Jan.	17, 1966	B+6.1	Apr.	21, 1966	+5.3	July 14, 1966	+5.6
Feb.	18	B4.0	May	16	5.4	Aug. 3	5.5
Mar.	16	5.4	June	7	5.2	24	B6.1
Apr.	6	5.1		29	5.4	Sept. 6	B6.3

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

1966

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5							3.8	4.2	4.4	4.5	4.2	4.0
10						3.2	3.9	4.2	4.4	4.5	4.2	4.0
15						3.2	4.0	4.3	4.4	4.0	4.2	4.0
20						3.4	4.1	4.3	4.5	4.1	4.1	3.9
25						3.6	4.3	4.3	4.5	4.3	4.2	3.8
Eom						3.7	4.2	4.4	4.5	4.3	4.1	3.9

(C-1-1)33abb-1. Records available 1931, 1935-66

Jan.	17, 1966	+13.2	June	7, 1966	+8.0	Aug. 30, 1966	+9.2
Feb.	25	B8.6		9	7.8	Sept. 6	9.9
Mar.	15	12.1		29	8.1	29	10.6
Apr.	6	11.1	July	11	8.1	Oct. 31	12.1
	17	10.8	Aug.	3	9.0	Nov. 28	12.3
May	16	B6.5		24	9.5		

(C-1-1)35aaa-4. Records available 1931-35, 1956-66

Feb.	7, 1966	B+9.5	May	25, 1966	B+5.6	Sept. 6, 1966	B+5.3
	17	B9.7	June	10	B4.7	21	B5.9
Mar.	7	B9.3		30	B3.9	Oct. 6	B6.5
	26	B9.1	July	11	B3.1	31	B8.1
Apr.	6	B8.7	Aug.	9	B4.1	Nov. 29	B7.1
	19	B7.8		25	B4.1	Dec. 30	B7.4
May	5	B6.0					

(C-1-2)1ccc-1. Records available 1965-66

Jan.	17, 1966	B+2.4	June	7, 1966	B+1.5	Sept. 7, 1966	B+1.8
Feb.	18	B2.0		29	B1.4	29	B2.0
Mar.	16	B2.1	July	14	B1.3	Oct. 31	B2.0
Apr.	6	B1.7	Aug.	3	B1.5	Nov. 28	B2.0
	21	B1.7		24	B1.6	Dec. 28	B2.0
May	16	B1.6					

(C-1-2)22bdd-4. Records available 1956-61, 1963-66

Jan.	4, 1966	+6.2	Apr.	21, 1966	+5.1	Aug. 24, 1966	+6.8
	17	6.0	May	16	5.0	Sept. 6	7.2
Feb.	18	5.8	June	7	5.2	29	7.6
	25	5.6		29	5.7	Oct. 31	7.2
Mar.	15	5.3	July	14	5.9	Nov. 28	6.7
Apr.	6	4.9	Aug.	1	6.3	Dec. 28	6.1

(C-1-2)22cbb-1. Records available 1931-32, 1934-66

Jan.	17, 1966	B+8.0	June	7, 1966	B+8.0	Sept. 6, 1966	+13.6
Feb.	18	B7.9		29	8.6	29	B13.2
Mar.	15	B8.1	July	14	11.0	Oct. 31	B12.4
Apr.	6	B7.4	Aug.	1	B11.3	Nov. 28	B11.7
	21	B7.3		24	12.4	Dec. 28	B10.7
May	16	7.6					

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

1966

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5				67.3	65.9	63.7	61.9	60.3	59.2	58.2	58.4	59.0
10				67.0	65.6	63.5	61.6	60.0	59.0	58.1	58.5	59.3
15				66.8	65.2	63.1	61.4	59.8	58.9	58.0	58.7	59.4
20				66.6	64.8	62.8	61.1	59.6	58.7	58.0	58.7	59.4
25				66.3	64.4	62.5	60.8	59.4	58.6	58.2	59.0	59.5
Eom				66.2	64.0	62.1	60.5	59.3	58.4	58.3	59.1	59.5

(C-2-1)12bac-1. Records available 1931-66

Jan.	14, 1966	+6.1	Apr.	6, 1966	+5.5	Aug. 24, 1966	B+1.8
	31	6.1†		19	4.7	Sept. 6	B2.3
Feb.	7	6.0	May	5	3.1	27	B2.4
	17	6.0		23	3.2	Oct. 6	B2.8
	28	5.4†	June	9	2.8	28	4.6
Mar.	7	5.8		30	B1.8	Nov. 30	5.0
	22	5.9	July	11	B1.6	Dec. 30	4.8

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

(C-2-1)24adc-1. Records available 1931-66

Jan.	14, 1966	-29.3	May	12, 1966	-32.4	Aug. 24, 1966	-36.0
Feb.	7	29.4		23	33.1	Sept. 7	36.0
	25	29.5	June	9	35.8	27	33.5
Mar.	4	29.5		30	36.0	Oct. 6	33.0
	22	29.4	July	11	36.4	28	31.0
Apr.	6	31.2		27	36.5	Nov. 29	30.9
	19	31.2	Aug.	9	36.3	Dec. 30	30.9

(C-2-1)24bcd-1. Records available 1965-66

Jan.	5, 1966	-20.4	Mar.	4, 1966	-20.5	Sept. 7, 1966	-21.7
	10	20.4		22	20.4	27	21.4
	15	20.4	Apr.	6	20.5	Oct. 6	21.2
	20	20.5		19	21.2	12	21.1
	25	20.6	May	12	20.9	28	21.0
	31	20.5	Aug.	25	22.3	Dec. 30	20.8
Feb.	24	20.2					

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5		94.3	94.1	93.8	93.4	93.1	92.9	92.8	92.7	92.6	92.2	91.9
10		94.3	94.0	93.5	93.2	93.0	92.9	92.7	92.6	92.5	92.2	92.1
15	94.5	94.2	93.8	93.7	93.2	93.0	92.9	92.7	92.6	92.4	92.2	92.1
20	94.4	94.2	93.8	93.4	93.2	92.9	92.8	92.7	92.6	92.4	92.2	92.0
25	94.4	94.2	93.8	93.4	93.2	92.9	92.8	92.8	92.5	92.5	92.2	91.8
Eom	94.3	94.1	93.8	93.5	93.1	92.9	92.8	92.6	92.5	92.5	92.2	91.8

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

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5		42.5	41.8	43.1	44.4	45.3	45.7	45.9	45.7	44.5	44.0	43.6
10		42.4	41.8	43.2	43.9	45.6	46.1	46.0	46.0	44.7	43.9	43.7
15		42.2	41.8	43.2	43.8	45.0	46.3	46.6	45.2	44.4	43.9	43.7
20		42.2	42.6	43.3	44.4	45.3	46.4	46.3	44.8	44.3	43.8	43.5
25		42.0	42.6	43.3	44.6	45.4	46.2	46.2	45.0	44.3	43.8	43.4
Eom		41.8	42.9	43.7	44.9	45.8	46.4	46.1	45.0	44.4	43.8	43.4

(C-3-1)6cac-1. Records available 1964-66

Jan.	17, 1966	-76.2	June	7, 1966	-76.0	Sept. 8, 1966	-76.1
Feb.	18	75.9		29	76.0	29	76.1
Mar.	15	76.1	July	11	76.0	Oct. 31	76.2
Apr.	6	76.1	Aug.	3	76.0	Nov. 29	76.2
	21	76.0		24	76.1	Dec. 28	76.4
May	17	76.1					

(C-3-1)12ccb-1. Records available 1931-35, 1955-66

Jan.	14, 1966	B+26.5	May	5, 1966	B+25.6	Aug. 24, 1966	B+24.2
Feb.	7	B26.8		19	B25.8	Sept. 12	B24.5
	17	B26.9	June	9	B25.1	27	B24.9
Mar.	7	B26.9		30	B24.8	Oct. 6	B25.4
	24	B26.4	July	11	B24.5	31	B25.2
Apr.	6	B26.3		26	B24.3	Nov. 30	B25.4
	26	B25.4	Aug.	9	B24.5	Dec. 30	B25.5

(C-3-1)15dda-1. Records available 1955-66

Jan.	17, 1966	+18.2	May	17, 1966	+15.3	Aug. 23, 1966	+18.4
Feb.	25	17.0	June	9	15.9	Sept. 8	19.0
Mar.	15	16.6		29	16.7	29	19.6
Apr.	6	15.5	July	11	17.0	Oct. 31	19.5
	21	14.6	Aug.	3	17.6	Nov. 30	18.9

(C-3-1)20ddb-1. Records available 1963-66

Feb.	15, 1966	-146.5	July	12, 1966	-138.5	Sept. 9, 1966	-133.9

(C-3-1)21daa-1. Records available 1962-63, 1966

Feb.	14, 1966	-48.6					

(C-3-1)27cdd-1. Records available 1931-66

Jan.	17	-4.2	Apr.	6, 1966	-11.3	Sept. 29, 1966	-0.9
Feb.	25	8.2		21	11.9	Oct. 31	1.8
Mar.	15	9.6	Sept.	8	1.2	Nov. 30	4.3

(C-3-1)28bac-1. Records available 1963-66

Feb.	10, 1966	-89.5	Sept.	9, 1966	-84.6		

(C-3-1)29bbc-1. Records available 1964-66

Feb.	25, 1966	-47.0	Sept.	9, 1966	-44.0		

(C-3-1)30aba-1. Records available 1956-66

Jan.	17, 1966	-77.4	June	7, 1966	I-87.8	Sept. 29, 1966	-76.7
Feb.	16	78.1		29	I74.3	Oct. 31	78.0
Mar.	15	78.4	Aug.	3	I73.9	Nov. 30	79.3
Apr.	6	78.6		23	I75.0	Dec. 28	80.0
	21	I78.7	Sept.	8	I76.0		

(C-3-1)30acd-1. Records available 1957-66

Jan.	5, 1966	-29.9	Apr.	6, 1966	-29.4	Oct. 31, 1966	-33.6
	17	30.0		21	I27.5	Nov. 30	31.5
Feb.	15	29.3	June	29	I32.2	Dec. 28	31.1
Mar.	15	29.8					

(C-3-1)31cbb-1. Records available 1959, 1964-66

Feb.	11, 1966	-99.8	Apr.	15, 1966	-97.9		

(C-3-1)31ccb-1. Records available 1962, 1964-66

Feb.	11, 1966	-105.9	Apr.	15, 1966	-104.0		

(C-3-1)31dcd-3. Records available 1962-66

Feb.	11, 1966	-126.3	Apr.	16, 1966	-127.2	Sept. 8, 1966	-135.7
Apr.	15	127.8					

(C-3-1)32cad-2. Records available 1931-35, 1955-66

Feb.	25, 1966	-127.6	Apr.	6, 1966	-133.9	May 17, 1966	-134.7
Mar.	15	129.6		21	132.2	Sept. 8	135.7

(C-3-1)32cdc-1. Records available 1964-66

Feb.	16, 1966	-138.0	Apr.	15, 1966	-143.7	Sept. 8, 1966	-187.6

(C-3-1)32dcc-1. Records available 1964-66

Feb.	11, 1966	-130.5	Apr.	15, 1966	-139.5		

(C-3-1)33aab-1. Records available 1962-66

Feb.	28, 1966	62.9	Sept.	9, 1966	-55.8		

(C-3-2)4adb-1. Records available 1958-66

Feb.	18, 1966	-153.8	May	17, 1966	-154.0	Sept. 29, 1966	-154.0
Mar.	1	153.7	June	7	153.4	Oct. 31	154.0
	15	153.8	Aug.	1	154.0	Nov. 30	153.9
Apr.	6	153.8		24	154.0	Dec. 28	153.9
	21	153.8	Sept.	8	154.0		

(C-3-2)28dbb-1. Records available 1960-66

Feb.	25, 1966	-137.5	June	7, 1966	-138.8	Sept. 29, 1966	-139.4
Mar.	15	137.8		29	138.9	Oct. 31	139.9
Apr.	6	138.0	Aug.	1	139.0	Nov. 30	140.1
	21	138.3		24	139.2	Dec. 28	140.4
May	17	138.6	Sept.	8	139.3		

(C-3-2)33cac-1. Records available 1962, 1964-66

Jan.	17, 1966	-25.9	Apr.	21, 1966	-25.8	Sept. 30, 1966	-33.6
Feb.	14	26.6	May	17	25.5	Oct. 31	32.2
Mar.	15	26.4	June	29	B195.6	Nov. 29	28.1
Apr.	6	26.2	Sept.	8	35.9	Dec. 28	26.5

(C-4-1)5acb-1. Records available 1964-66

Feb.	14, 1966	-140.5	Apr.	15, 1966	-148.2		

(C-4-1)14abd-1. Records available 1964-66

Feb.	8, 1966	-81.7	June	9, 1966	-78.7	Oct. 6, 1966	-70.5
Mar.	7	83.3	July	11	73.9	31	76.2
Apr.	6	83.8	Aug.	9	71.6	Nov. 30	73.1
	26	84.6		24	71.3	Dec. 30	72.9
May	19	82.7	Sept.	6	70.8		

(C-4-1)22dbd-1. Records available 1964-66

Feb.	28, 1966	-75.7	Sept.	9, 1966	-81.8		

(C-4-1)23dbd-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1964-66

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	48.2	48.2	46.9	47.7	46.3	46.7	46.6	46.5	46.5	46.9	47.4	47.8
10	48.2	48.0	46.5	47.9	46.2	46.7	46.6	46.5	46.6	47.0	47.5	47.8
15	48.3	47.8	46.3	47.9	46.4	46.8	46.6	46.3	46.6	47.0	47.6	47.9
20	48.3	47.6	46.9	47.9	46.6	46.7	46.4	46.3	46.7	47.1	47.6	47.9
25	48.4	47.3	47.2	47.6	46.6	46.6	46.5	46.4	46.8	47.2	47.7	48.0
Eom	48.4	47.2	47.5	46.8	46.7	46.6	46.5	46.5	46.8	47.4	47.7	48.1

(D-1-1)1add-1. Records available 1965-66

Jan.	6, 1966	-31.2*	May	19, 1966	-29.4*	Oct. 28, 1966	-34.5
Feb.	18	33.0*	Sept.	8	29.4	Nov. 30	33.3
Mar.	15	28.6*	Oct.	7	34.2	Dec. 29	33.4
Apr.	20	28.2*					

(D-1-1)1dbd-6. Records available 1965-66

Jan.	6, 1966	-93.0*	Apr.	20, 1966	-89.8*	Sept. 8, 1966	-96.2
Mar.	15	93.8*	May	19	90.0*		

(D-1-1)4add-1. Records available 1965-66

May	4, 1966	-329.2	July	11, 1966	-334.0	Sept. 6, 1966	-348.1
June	9	330.0	Aug.	9	341.2	Oct. 6	347.0

(D-1-1)4cac-1. Records available 1934-66

Feb.	1, 1966	-195.8†	June	3, 1966	-204.9†	Sept. 27, 1966	-201.1†
Mar.	1	195.3†		28	196.4†	Oct. 25	211.0†
	29	194.2†	July	7	197.9†	Nov. 22	207.8†
Apr.	26	195.0†	Aug.	30	213.7†	Dec. 28	203.7†

(D-1-1)5aaa-1. Records available 1934-66

Feb.	2, 1966	-116.7	May	24, 1966	-115.7†	Sept. 27, 1966	-119.8†
Mar.	1	115.6†	June	28	115.9†	Oct. 25	120.8†
	29	116.0†	July	27	117.4†	Nov. 22	125.2†
Apr.	26	116.2†	Aug.	30	117.9†	Dec. 28	121.1†

(D-1-1)7abd-6. Records available 1931, 1935-66

Jan.	14, 1966	B+8.8	May	5, 1966	B+7.4	Aug. 23, 1966	B+8.0
Feb.	7	B9.2		19	B7.3	Sept. 6	B8.3
	17	B9.0	June	9	B7.2	27	B8.4
Mar.	7	B8.9		28	B7.1	Oct. 6	B8.6
	22	B8.7	July	11	B7.0	31	B8.9
Apr.	6	B8.9		27	B7.8	Nov. 29	B9.1
	20	B8.8	Aug.	9	B7.8	Dec. 29	B6.5

(D-1-1)10cac-1. Records available 1934-66

Jan.	5, 1966	-143.4	May	3, 1966	-144.5	Oct. 7, 1966	-145.5
	27	143.4	June	9	144.5	28	145.6
Feb.	2	143.6	July	11	144.4	Nov. 30	145.4
Mar.	1	143.6†	Aug.	9	145.0	Dec. 29	145.4
	23	144.1	Sept.	6	145.5		

(D-1-1)19cdb-17. Records available 1956-66

Jan.	14, 1966	+14.2	Mar.	22, 1966	+13.5	May 19, 1966	+8.9
Feb.	2	B14.1	Apr.	6	12.9	June 9	8.4
	17	13.9		20	12.5	27	7.9
Mar.	7	13.6	May	5	9.5	July 11	8.1

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

(D-1-1)19cdb-17- Continued

July	25, 1966	+8.5	Sept.	8, 1966	+8.7	Oct.	31, 1966	+11.5
Aug.	9	7.9		27	9.8	Nov.	29	12.2
	23	7.9	Oct.	7	10.2			

(D-1-1)30abb-4. Records available 1965-66

May	25, 1965	-5.8	June	7, 1965	-7.4	June	7, 1966	-7.3
June	2	6.8						

(D-1-1)30abb-4 - Continued. Recorder installed June 7, 1966. Highest water level on date, in feet below land surface from recorder graph.

1966

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5							8.2	8.8	8.5	7.5	5.1	4.8
10						6.9	8.4	8.8	8.4	7.2	5.1	4.9
15						7.0	8.8	8.7	7.7	6.7	H5.1	4.8
20						7.7	8.8	8.6	3.6	6.2	5.1	4.6
25						7.8	8.7	8.4	7.2	6.0	5.1	4.4
Eom						8.2	8.8	8.4	7.6	5.5	4.8	4.3

(D-1-1)30aca-23. Records available 1956-66

Jan.	14, 1966	-5.6	Apr.	29, 1966	-9.0	Aug.	24, 1966	-13.4
Feb.	2	5.5	May	4	9.9	Sept.	8	12.7
	17	5.6		19	10.2		27	11.8
Mar.	4	5.6	June	9	11.5	Oct.	7	11.8
	22	5.5		28	12.8		28	10.0
Apr.	6	7.3	July	11	13.4	Nov.	29	8.4
	19	8.4		25	13.6	Dec.	29	8.0
	27	8.7	Aug.	9	13.5			

(D-1-1)30cda-10. Records available 1956-57, 1964-66

Jan.	14, 1966	-17.2	Apr.	19, 1966	-22.5	Sept.	8, 1966	-11.2
Feb.	2	16.2	May	2	21.7		27	10.8
	17	15.9	June	8	11.1	Oct.	7	10.6
Mar	4	16.1		28	12.0		28	8.7
	22	16.5	July	11	12.4	Nov.	29	6.6
Apr.	6	16.2	Aug.	24	11.1	Dec.	29	6.2

(D-2-1)3ada-2. Records available 1964-66

Feb.	4, 1966	-229.8						

(D-2-1)4dbd-4. Records available 1931-66

Jan.	14, 1966	-22.6	May	24, 1966	-16.7†	Sept.	6, 1966	-16.0
	24	23.0†	June	9	14.6		22	16.2
Feb.	2	23.2		28	15.9	Oct.	7	18.8
	17	23.3	July	11	15.1		28	20.4
	23	24.0†		26	15.9	Nov.	30	22.6
Mar.	7	F23.9	Aug.	9	14.1	Dec.	29	22.4
Apr.	20	F23.3		24	14.1			

(D-2-1)5aaa-1. Records available 1931-66

Feb.	1, 1966	-6.4†	May	16, 1966	-10.7†	Oct.	25, 1966	-14.5†
	23	9.2†	June	2	17.5†	Dec.	28	12.0†
Apr.	3	10.6†						

(D-2-1)5aba-2. Records available 1964-66

Jan.	14, 1966	+14.2	May	5, 1966	C+6.1	Sept.	6, 1966	+4.4
Feb.	2	14.2		23	6.4		22	4.8
	17	12.8	June	9	4.4	Oct.	7	5.0
Mar.	7	10.8	July	11	.9		28	8.0
	22	10.6		27	1.0	Nov.	30	7.2
Apr.	6	9.9	Aug.	9	2.8	Dec.	29	7.4
	20	8.8		24	.8			

(D-2-1)7cbd-4. Records available 1957-60, 1963-66

Jan.	14	B+14.0	May	5, 1966	B+11.3	Aug.	25, 1966	B+10.2
Feb.	7	B14.1		23	B10.9	Sept.	6	B10.7
	17	B13.8	June	9	B10.6		27	B11.3
Mar.	7	B13.3		30	B10.2	Oct.	6	B11.7
	22	B13.0	July	11	B10.4		31	B12.8
Apr.	6	B12.9		27	B10.3	Nov.	30	B12.1
	19	B12.6	Aug.	9	B10.3	Dec.	30	B12.0

(D-2-1)7dda-1. Records available 1956-66

Jan.	14, 1966	+18.8	Mar.	7, 1966	+18.5	Apr.	19, 1966	+11.8
Feb.	7	18.2		22	18.0	May	5	1.5
	17	18.6	Apr.	6	15.0			

(D-2-1)8ccd-19. Records available 1931-52, 1956-66

Mar.	28, 1966	+25.9†	May	22, 1966	+12.4†	Nov.	21, 1967	+21.4†
Apr.	25	22.3†	Oct.	24	17.5†	Dec.	27	23.9†

(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 1934-66

1966

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	82.6	83.4	84.8	85.7	85.0	83.7	84.9	87.2	88.3	88.4	87.4	87.5
10	82.7	-	84.7	85.6	84.9	83.6	85.6	87.4	88.4	88.4	87.5	88.0
15	82.8	83.6	84.8	85.7	84.4	83.5	85.9	87.8	88.5	88.3	87.5	88.0
20	82.8	83.9	85.0	85.7	84.0	83.8	86.0	87.9	88.4	88.2	87.4	88.1
25	82.9	84.0	85.3	85.3	83.8	84.1	86.4	88.2	88.4	87.9	87.6	88.2
Eom	82.8	84.2	85.4	85.1	83.7	84.3	87.0	88.4	88.4	87.9	87.6	88.3

(D-2-1)16dbc-1. Records available 1962-66

Jan.	4, 1966	-36.4†	May	5, 1966	A-87†	Sept.	8, 1966	A-92†
Feb.	3	36.1	June	2	A86†		27	A86†
	28	37.0†	July	7	52.6†	Oct.	25	45.2†
Apr.	4	38.4†		28	A96.0†	Nov.	29	43.5†

(D-2-1)21dbc-1. Records available 1961-66

Jan.	4, 1966	-87.3†	Apr.	26, 1966	-84.5†	Oct.	12, 1966	-102.8†
Feb.	3	82.6	June	2	A139.6†		25	98.6†
	8	82.3†	July	6	A136.2†	Nov.	29	94.2†
Mar.	1	82.2†		27	A145.0†	Dec.	28	89.1†
Apr.	5	84.6†	Sept.	14	A161†			

(D-2-1)28abc-2. Records available 1955-66

Jan.	14, 1966	-158.3	May	5, 1966	-159.0	Aug.	24, 1966	-171.8
Feb.	2	157.6		23	159.9	Sept.	6	170.2
	17	157.1	June	9	160.7		22	170.0
Mar.	4	157.7		28	163.1	Oct.	31	164.6
	22	157.4	July	11	164.1	Nov.	30	164.4
Apr.	6	157.4		26	169.2	Dec.	29	165.3
	19	157.4	Aug.	9	170.8			

(D-2-1)28ccc-3. Records available 1956, 1958, 1964-66

Feb.	3, 1966	-194.8						

(D-2-1)28ddb-1. Records available 1934-66

Jan.	4, 1966	-11.0†	May	3, 1966	-11.2†	Aug.	30, 1966	-10.7†
Feb.	8	11.9†	June	2	5.2†	Oct.	25	10.2†
Mar.	1	12.0†		28	7.6†	Nov.	29	10.7†
Apr.	5	12.3†	Aug.	2	10.0†			

(D-2-1)32bbb-1. Records available 1955-66

Jan.	14, 1966	-101.8	Feb.	17, 1966	-101.3	Mar.	22, 1966	-101.5
Feb.	8	101.3	Mar.	4	101.2	Apr.	6	102.0

(D-2-1)33add-2. Records available 1964-66

Jan.	14	-260.1	Apr.	6	-260.0	Sept.	29, 1966	C-265.9
Feb.	2	257.2		19	260.5	Oct.	7	265.9
	17	257.6	May	23	C257.9		31	C264.9
Mar.	4	258.5	June	30	C261.4	Nov.	30	C263.7
	22	258.9	July	11	C260.7			

(D-3-1)2ccc-1. Highest water level on date, in feet below land surface from recorder graph. Records available 1956-66

1966

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5	528.5	528.6	529.4	530.0	531.5	535.4	539.5	542.0	543.2	542.8	540.5	539.2
10	528.4	528.5	529.2	529.9	531.9	535.9	540.4	542.2	543.3	542.4	540.4	539.7
15	528.4	528.7	529.1	530.4	532.2	536.6	540.6	542.6	543.4	542.2	540.2	539.4
20	528.4	529.0	529.3	530.5	532.7	537.1	541.0	542.9	543.0	541.2	539.9	538.7
25	528.5	528.7	529.5	530.5	533.5	538.0	541.6	543.1	542.8	541.5	539.8	538.3
Eom	528.2	528.8	529.8	531.0	534.4	538.6	541.9	543.2	542.7	541.1	539.7	538.3

(D-3-1)17bcc-1. Records available 1955-66

Jan.	14, 1966	-136.7	May	5, 1966	-136.7	Sept.	6, 1966	-136.3
Feb.	2	136.8		19	136.5		27	136.1
	17	137.6	June	9	136.5	Oct.	6	135.6
Mar.	4	137.5		30	136.4		31	136.1
	22	136.8	July	11	136.6	Nov.	30	136.0
Apr.	6	317.0	Aug.	24	136.2	Dec.	30	135.8
	26	139.9						

(D-3-1)18cba-1. Records available 1964-66

Jan.	14, 1966	-71.8	Mar.	7, 1966	-71.2	Mar.	22, 1966	-71.7
	28	71.7		10	71.2	May	19	72.8
Feb.	15	71.4						

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

1966

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5						73.8	74.6	74.7	74.3	73.5	72.5	72.1
10						73.7	74.8	74.8	73.4	73.4	72.4	72.4
15						74.0	74.9	75.3	73.5	73.3	72.4	72.3
20						74.0	74.9	75.2	73.6	73.2	72.3	72.1
25					73.1	74.3	75.0	74.9	73.7	73.1	72.4	72.0
Eom					73.5	74.5	75.2	74.8	73.6	H73.0	72.4	72.0

(D-3-1)29cbc-1. Records available 1964-66

Jan.	14, 1966	-56.7	Mar.	4, 1966	-57.0	Apr.	26, 1966	-57.7
Feb.	2	56.8		22	57.3	May	5	57.7
	17	57.0	Apr.	6	57.6			

(D-3-1)29cbc-1 - Continued. Recorder installed June 14, 1966. Highest water level on date, in feet below land surface from recorder graph.

1966

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5							56.9	56.5	55.9	55.4	55.1	55.0
10							56.9	56.3	55.7	55.3	55.1	55.5
15						57.5	56.9	56.4	55.6	55.3	55.2	55.6
20						57.2	56.7	56.3	55.6	55.1	55.1	55.5
25						57.2	56.7	56.2	55.4	55.4	55.3	55.4
Eom						57.0	56.8	55.9	55.4	55.3	55.4	55.5

(D-4-1)6bbc-1. Records available 1963-66

Jan.	14, 1966	-53.0	May	5, 1966	-54.3	Aug.	24, 1966	-52.0
Feb.	8	53.1		19	54.0	Sept.	7	51.6
	17	53.1	June	9	53.6		27	51.3
Mar.	4	53.4		30	53.1	Oct.	6	51.4
	22	53.9	July	11	50.8		31	51.3
Apr.	6	54.5	Aug.	9	51.9	Nov.	30	51.7
	26	54.6						

Table 7.--Selected drillers' logs of wells

Altitude of land surface at the well.--Surveyed altitudes are given in feet and tenths; 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
(B-1-2)16caa-1. Log by J. V. Stoddard. Alt. 4,213 ft.		
Soil	1	1
Clay	35	36
Sand	8	44
Clay	10	54
Sand	8	62
Clay	80	142
Sand	6	148
Clay	12	160
Sand	8	168
Clay	37	205
Sand	16	221
Clay	157	378
Sand	47	425
Clay	9	434
Sand	8	442
Clay	11	453
Sand	27	480
Clay	8	488
Sand	4	492
Clay	10	502
Sand	9	511
Clay	111	622
Sand	14	636
(B-1-2)21abb-1. Log by J. V. Stoddard. Alt. 4,217 ft.		
Soil	1	1
Clay	4	5
Sand	7	12
Clay	32	44
Sand	24	68
Clay	60	128
Sand	11	139
Clay	4	143
Sand	4	147
Clay	57	204
Sand	11	215
Clay	58	273
Sand	12	285
Clay	53	338
Sand	10	348
Clay	12	360
Sand	7	367
Clay	27	394
Sand	18	412
Clay	23	435
Sand	9	444
Clay	29	473
Sand	7	480
Clay	38	518
Sand	8	526
Clay	17	543
Sand; good water	15	558
Clay	52	610
Sand	15	625
Clay	5	630
Sand	14	644
Clay	34	678
Sand	12	690
Clay	35	725
Gravel	4	729
Clay, hard	11	740
Gravel; salty water	7	747
(B-1-2)21acd-1. Log by J. V. Stoddard. Alt. 4,220 ft		
Soil	4	4
Sand	6	10
Clay	8	18
Sand	6	24
Clay	39	63
Sand	13	76
Clay	56	132
Sand	13	145
Clay	12	157
Sand	8	165
Clay	58	223
Sand	7	230
Clay	32	262
Sand	9	271
Clay	31	302
Sand	6	308
Clay	107	415
Sand	20	435
Clay	37	472
Sand	6	478
Clay	2	480
Sand	56	536
No record	6	542
Clay	42	584
Sand	16	600
(B-1-2)21bbb-2. Log by J. V. Stoddard. Alt. 4,215 ft.		
Soil	1	1
Clay	3	4
Sand	5	9
Clay	45	54
Sand	11	65
Clay	17	82
Sand	7	89
Clay	44	133
Sand	5	138
Clay	24	162
Sand	12	174
Clay	36	210
Sand	11	221
Clay	61	282
Sand	6	288
Clay	73	361
Sand	11	372
Clay	58	430
Sand	8	438
Clay	50	488
Sand	7	495
Clay	67	562
Sand	15	577
(B-1-2)21dcd-1. Log by J. V. Stoddard. Alt. 4,222 ft.		
Soil	1	1
Clay	14	15
Sand	15	30
Clay	6	36
Sand	27	63
Clay	141	204
Sand	8	212
Clay	93	305
Sand	9	314
Clay	58	372
Sand	6	378
Clay	37	415
Sand	7	422
Clay	83	505
Sand	10	515
Clay	26	541
Sand	20	561
(B-1-2)22bdb-1. Log by J. V. Stoddard. Alt. 4,214 ft.		
Soil	1	1
Clay	27	28
Sand	18	46
Clay	72	118
Sand	11	129
Clay	13	142
Sand	20	162
Clay	28	190
Sand	15	205
Clay	82	287
Sand	9	296
Clay	64	360
Sand	7	367
Clay	35	402
Sand	17	419
Clay	43	462
Sand	6	468
Clay	70	538
Sand	22	560
(C-1-1)36bad-1. Log by J. G. Lee Drilling Co. Alt. 4,248 ft.		
Soil and sandy clay	10	10
Clay, blue	78	88
Clay, gray	9	97
Clay and gravel	11	108
Clay, blue	38	146
Clay and sand lenses	35	181
Clay, blue	31	212
Gravel; water	27	239
Sand and gravel	21	260
Gravel, coarse; water	8	268
Clay, gray	47	315
Sand, fine	9	324
Clay, blue	6	330
Sand and gravel; water	6	336
Sand	52	388
Clay and sand lenses	17	405
Sand and gravel; water	5	410
Clay, red	10	420
Gravel and clay	34	454
Gravel; water	9	463
Clay, sandy	13	476
Clay, blue	14	490
(C-1-2)2aba-2. Log by J. V. Stoddard Alt. 4,230 ft.		
Soil	2	2
Clay	23	25
Sand	8	33
Clay	39	72
Sand	11	83
Clay	2	85
Sand	9	94
Clay	31	125
Sand	5	130
Clay	8	138
Sand	6	144
Clay	11	155
Sand	12	167
Clay	13	180
Sand	29	209
Clay	6	215
Sand	7	222
Clay	86	308
Sand	8	316
Clay	26	342
Sand	8	350
Clay	18	368
Sand	7	375
Clay	19	394
Sand	16	410
Clay	5	415
Sand	10	425
Clay	43	468
Sand	7	475
Clay	25	500
(C-1-2)17adc-1. Log by B. B. Gardner. Alt. 4,222 ft.		
Soil	5	5
Clay, red	15	20
Clay, gray, sandy; water	20	40
Sand, gray	50	90
Clay, light-colored	15	105
Clay, gray	10	115
Sand, gray; water	23	138
Clay, light-colored	42	180
Clay, gray, sandy; water	39	219
Clay, brown	4	223
Gravel	5	228
Clay	2	230
Gravel and clay, in alternating beds	20	250
Clay, brown	32	282
Gravel	5	287
Clay and gravel, in alternating beds	15	302
Clay, brown, and gravel	48	350
Clay and sand lenses; water	58	408
Gravel, fine	12	420
Clay and sand lenses	38	458
Gravel, cemented	2	460
Hardpan	5	465
Clay, brown, sticky	20	485
Clay, brown, and gravel	105	590
Conglomerate	15	605
Conglomerate, very hard	7	612
Clay and hardpan	8	620
Conglomerate	12	632
Clay, brown, and gravel	23	655
Conglomerate	5	660
Clay, brown, sticky	15	675
Clay, brown, and gravel lenses	70	745
Conglomerate	15	760
Clay, brown, and gravel lenses	20	780
Conglomerate	5	785
Clay, brown, and gravel	10	795
Conglomerate	25	820
Clay and coarse gravel	7	827
Clay, brown, sticky	8	835
Conglomerate	15	850
Gravel	4	854
(C-1-3)15dbb-2. Log by J. G. Lee Drilling Co. Alt. 4,227 ft.		
Clay	28	28
Clay and sand	55	83
Clay and gravel	37	120
Clay and sand	118	238
Sand, cemented	9	247
Clay and sand	21	268
Clay and gravel	69	337
Gravel	9	346
Gravel, cemented	8	354
Clay and gravel	21	375

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

	Thickness	Depth
(C-1-3)15dbb-2 - Continued		
Sand	2	377
Clay and gravel, in alternating beds	65	442
Gravel, cemented	8	450
Gravel, with cemented lenses	70	520
(C-2-1)9ccc-1. Log by J. G. Lee Drilling Co. Alt. 4,461 ft.		
Soil	2	2
Clay	77	79
Clay, sand, and gravel	12	91
Clay	43	134
Sand, hard	19	153
Clay	34	187
Sand	21	208
Clay and cobbles	7	215
Clay	31	246
Sand	28	274
Clay	6	280
Clay and sand	61	341
Clay	20	361
Clay, sand, and cobbles; water	11	372
Clay and sand	55	427
Clay	43	470
Clay and sand	46	516
Clay	99	615
Clay and sand	68	683
Clay	33	716
Clay and cobbles	7	723
Clay	72	795
(C-2-1)12aab-1. Log by Eldon Comer. Alt. 4,290 ft.		
Fill	7	7
Clay, gray and blue	120	127
Sand and gravel; water	19	146
Clay, gray	12	158
Clay and sand	49	207
Sand and gravel; water	24	231
Clay, gray	21	252
Clay and sand	7	259
Sand	34	293
Clay, blue, and gravel, alternating layers	41	334
Sand and gravel; water	6	340
Clay, tan, sticky	8	348
Clay, blue	8	356
Silt, sand, and gravel	20	376
Sand and gravel; water	14	390
Sand	7	397
Sand and gravel; water	11	408
Clay, tan, and sand	6	414
Sand and gravel	14	428
Clay, tan	5	433
Sand and gravel	33	466
Clay, blue	15	481
Sand	11	492
Sand and gravel	6	498
Clay, tan, and sand	62	560
Sand and gravel	10	570
Clay, gray	26	596
Clay, red	24	620
(C-2-1)23aba-1. Log by J. S. Lee and Sons. Alt. 4,282 ft.		
Clay	10	10
Clay and gravel	15	25
Sand and gravel	35	60
Clay	10	70
Sand and gravel	110	180
Clay, sand, and gravel	10	190
Sand and gravel	50	240
Clay	10	250
(C-2-1)25ddb-2. Log by Eldon Comer. Alt. 4,385 ft.		
Soil and clay	22	22
Sand and clay; water	45	67
Sand and gravel; water	15	82
Sand and clay	23	105
Sand and gravel, cemented	40	145
Sand and gravel; water	55	200
Clay, tan	53	253
Hardpan	7	260
Clay, tan, with lenses of hardpan	45	305
Clay, sticky, with thin lenses of cemented sand and gravel	170	475
Clay, tan, with thin lenses of cemented gravel	47	522
Clay and gravel, mixed	6	528
Clay, sticky	8	536
Clay and gravel, mixed	3	539
Clay, tan	39	578
Clay and gravel, mixed	12	590
Sand and gravel; water	3	593
Clay, tan	26	619
Clay and gravel, mixed	4	623
Sand and gravel; water	13	636
(C-2-1)25ddb-2 - Continued		
Clay, with lenses of gravel	25	661
Clay and gravel	7	668
Clay and gravel, stratified	22	690
Sand and gravel; water	6	696
Clay, tan	12	708
Clay and gravel, mixed	9	717
Sand and tan clay	4	721
Clay and gravel, mixed	5	726
Clay	6	732
Gravel and sand; water	7	739
Clay, with lenses of gravel	23	762
Sand and gravel; water	5	767
Clay, with lenses of gravel	25	792
(C-2-2)9bdb-1. Log by Louis Clarkson. Alt. 4,867 ft.		
Clay, yellow, sandy	75	75
Clay, brown	20	95
Clay, yellow, sandy	35	130
Clay and sand; water	38	168
Clay, red	12	180
Clay, yellow, and sand	23	203
Clay, yellow, chalky	32	235
Clay, gray	25	260
Clay, yellow	45	305
Clay, yellow, sand, and gravel	16	321
Clay, yellow, sand, and gravel; water	9	330
Gravel	10	340
Sand, yellow, and gravel	53	393
Clay, yellow, sticky	4	397
Sand	26	423
Sand, blue	25	448
Sand, gray	32	480
Shale, blue	35	515
(C-3-1)1cab-2. Log by J. G. Lee Drilling Co. Alt. 4,361.8 ft.		
Clay, brown, sandy	35	35
Clay, blue	45	80
Sand and gravel	81	161
Clay, brown, and gravel	639	800
(C-3-1)7bcc-1. Log by Peterson Brothers Drilling Co. Alt. 4,799.8 ft.		
Silt	3	3
Clay	8	11
Clay, sand, and cobbles	13	24
Clay, sand, and gravel	20	44
Clay and gravel, tight, hard	38	82
Hardpan	49	131
Clay and gravel	17	148
Clay	11	159
Gravel	1	160
Clay and lenses of gravel	33	193
Clay and sand	5	198
Clay and gravel; water	8	206
Clay, yellow	2	208
Clay and gravel; water	4	212
Clay	13	225
Clay and gravel; water	7	232
Clay, yellow	16	248
Clay and gravel	1	249
Clay, yellow	13	262
Gravel; water	13	275
Clay	2	277
Gravel; water	3	280
Clay and gravel	6	286
Gravel; water	3	289
Clay, yellow, hard	1	290
Clay and coarse gravel; water	12	302
Clay	12	314
Gravel, coarse	4	318
Gravel, cemented	4	322
Clay and gravel	35	357
Clay and gravel; water	9	366
Clay and gravel	35	401
(C-4-1)6adc-1. Log by Robinson Drilling Co. Alt. 4,690 ft.		
Soil and large boulders	10	10
Boulders, large	16	26
Boulders, large, and gravel	32	58
Gravel, coarse	12	70
Sand, fine, and silt	17	87
No record	27	114
Gravel, coarse	5	119
Sand	2	121
Gravel; water at 126 ft	25	146
Gravel and sand	54	200
Gravel, fine, silt, and sand	155	355
(D-1-1)22cad-1. Log by Robinson Drilling Co. Alt. 4,520 ft.		
Clay	9	9
Clay and boulders; water at 15 ft	14	23
Clay, sand, and gravel	7	30
(D-1-1)22cad-1 - Continued		
Gravel and boulders	15	45
Gravel; no water	11	56
Gravel and boulders	11	67
Clay and boulders	17	84
Clay, gravel, and boulders	56	140
Clay, yellow	30	170
Gravel and boulders	14	184
Clay, gravel, and boulders	36	220
Clay and gravel	15	235
Clay and boulders	14	249
Boulders	6	255
Clay, gravel, and boulders	15	270
Clay and boulders	62	332
Clay, yellow	23	355
Clay and gravel	29	384
Conglomerate	5	389
Gravel and boulders	16	405
Boulders	3	408
Clay and boulders	76	484
Boulders	7	491
Gravel and boulders	84	575
Clay, gravel, and boulders	10	585
Clay and boulders	21	606
(D-1-1)28dca-1. Log by J. S. Lee and Sons. Alt. 4,488 ft.		
Clay	15	15
Clay and cobbles	50	65
Clay	15	80
Clay and cobbles	85	165
Gravel; water	1	166
Clay and cobbles	99	265
Conglomerate	6	271
Clay	11	282
Conglomerate	8	290
Clay	25	315
Clay and gravel	5	320
Gravel, and thin lenses of clay	10	330
Conglomerate	16	346
Clay	9	355
Conglomerate	13	368
Clay	1	369
Conglomerate	9	378
Clay	37	415
Gravel; water	10	425
Clay	1	426
Conglomerate	4	430
Clay	64	494
Hardpan	2	496
Clay	4	500
Hardpan	3	503
Clay	2	505
Hardpan	5	510
Clay	1	511
Hardpan	4	515
Clay	47	562
Conglomerate	8	570
Hardpan	5	575
Clay and gravel; water	25	600
Clay, sand, and gravel	10	610
Clay	2	612
(D-1-1)29dba-1. Log by Robinson Drilling Co. Alt. 4,355 ft.		
Clay and silt	14	14
Sand, gravel, and cobbles	24	38
Clay, red	27	65
Clay, blue	7	72
Clay, brown, and sand	9	81
Gravel	4	85
Clay, blue	8	93
Clay, red, and gravel	89	182
Clay, red, and cobbles	5	187
Clay, red	6	193
Gravel and cobbles	5	198
Clay, sand, gravel, and cobbles	23	221
Clay, red	4	225
Gravel	6	231
Clay, red	6	237
Gravel	5	242
Clay, blue	8	250
Clay, gravel, and cobbles	5	255
Clay and boulders	4	259
Clay and gravel	3	262
Clay, yellow	22	284
Clay, blue	19	303
Clay and gravel	12	315
Clay, red	15	330
Clay, blue	15	345
Gravel	2	347
Clay, yellow	9	356
Clay, blue	44	400
Sand and gravel	11	411
Clay, red	9	420
Clay and gravel	2	422
Clay, red	1	423
Clay, red, and gravel	8	431
Clay, red, and rock	20	451
Gravel and sand	25	476
Clay, yellow, and gravel	4	480

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

	Thickness	Depth
(D-1-1)33cab-4. Log by J. G. Lee Drilling Co. Alt. 4,358 ft.		
Soil	5	5
Clay and gravel	13	18
Clay, brown	24	42
Clay, blue	10	52
Conglomerate	49	101
Gravel	4	105
Clay, red	7	112
Gravel	6	118
Clay, red, and gravel	80	198
Sand	8	206
Clay, red, and gravel	20	226
Sand	18	244
Clay, red	12	256
Sand	7	263
Clay, red, and gravel	17	280
Sand	2	282
Clay, red, and gravel	19	301
Gravel and red clay	19	320
Sand and gravel	12	332
Clay, red, sandy	23	355
Sand and gravel	14	369
Clay, red	3	372
Sand and gravel	12	384
Conglomerate	11	395
Clay, red, sandy	23	418
Conglomerate	40	458
Clay, red, and gravel	1	459
Clay, gray, and gravel	41	500
(D-2-1)10cdb-6. Log by J. S. Lee and Sons. Alt. 4,400 ft.		
Soil	3	3
Clay, gravel, and boulders	23	26
Gravel and boulders	6	32
Clay, gravel, and boulders	18	50
Clay, blue	20	70
Gravel	28	98
Clay and gravel	12	110
Gravel	7	117
Clay and gravel	11	128
Clay, blue	8	136
Clay, red	25	161
Clay, blue	21	182
Clay, blue, sandy	20	202
Clay and gravel	40	242
Gravel; water	56	298
Clay and silt, brown	2	300
(D-2-1)17bbb-2. Log by Robinson Drilling Co. Alt. 4,328 ft.		
Soil	2	2
Clay, yellow	19	21
Clay, blue, sandy; water at 34 ft	29	50
Clay, blue	5	55
Clay, blue, sandy	31	86
Sand; water	4	90
Sand, black	10	100
Gravel; water	25	125
Gravel, and yellow clay	10	135
Clay, gray, and gravel	10	145
Gravel	25	170
Gravel and clay	5	175
Sand, fine; water	18	193
Sand and gravel	4	197
Gravel, fine	8	205
Sand, fine, and gravel	5	210
Gravel, fine	2	212
Sand and fine gravel	8	220
Sand, fine	25	245
Clay, gray, sandy	10	255
Gravel and clay	10	265
Clay, sandy	10	275
Gravel and clay	15	290
Clay, sandy	15	305
Clay, blue	15	320
Clay, yellow	20	340
Clay, gray	55	395
Clay, gray, sandy	20	415
Gravel; water	4	419
Clay, yellow	2	421
Gravel; water	22	443
Clay, yellow	45	488
Sand, fine	10	498
Clay	17	515
Clay, sandy	10	525
(D-2-1)17bbb-2 - Continued		
Sand, fine, and gravel	10	535
Gravel	5	540
Sand, gravel, blue shale	5	545
Shale and gravel	7	552
Clay, blue	36	588
Clay, yellow	2	590
Sand; water	5	595
Clay, blue	7	602
Sand, gray, fine	8	610
Clay, yellow	17	627
Sand, coarse; water	5	632
Sand, fine	6	638
Gravel	2	640
Gravel and clay	2	642
Sand, fine	4	646
Gravel	4	650
Gravel and clay	3	653
Gravel	2	655
Clay, yellow, and gravel	1	656
Sand, fine	5	661
Clay, yellow	4	665
Clay, gray	7	672
Sand, coarse	5	677
Clay, gray	13	690
Sand, coarse	4	694
Sand, coarse, and gravel	3	697
Clay, gray	23	720
Sand, gray, fine	2	722
Sand, coarse	10	732
Clay, gray	4	736
(D-3-1)16dbd-1. Log by Robinson Drilling Co. Alt. 4,795 ft.		
Soil	8	8
Sand and gravel, brown	2	10
Sand, gravel, and cobbles	55	65
Sand, light gray, fine	18	83
Sandstone, soft	40	123
Sandstone, gray to brown, soft	17	140
Clay, medium gray, sandy	40	180
Clay and sand	20	200
Gravel, fine	10	210
Clay and very fine gravel	3	213
Sand and very fine gravel	3	216
Sand and gravel	7	223
Clay, sand, and gravel	20	243
Clay and sand, gray to brown	47	290
Clay and sand, gray to brown, soft	31	321
Clay and sand	26	347
Clay and fine sand, gray to green	24	371
Sand and gravel	28	399
Gravel, fine to coarse; dry	6	405
Sand and gravel; dry	6	411
Sand and gravel; small quantity of water	35	446
Sand, fine, coarse gravel, and cobbles	15	461
Sand and coarse gravel	5	466
Sand and medium to coarse gravel	12	478
Sand, brown, soft	13	491
Silt and sand; fine	26	517
Clay, sand, and fine gravel	28	545
Clay, light gray	13	558
Clay and sand, gray	10	568
Gravel, fine	4	572
Gravel, fine to coarse	5	577
Gravel, fine to medium	3	580
Gravel, fine, and brown quick sand	15	595
Sand	5	600
Gravel and sand	1	601
Sand, fine, and gravel	2	603
Gravel, coarse, and sand	7	610
Sand, gravel, and gray clay	5	618
Sand, coarse, and fine gravel	10	625
Sand and gravel, fine to medium	16	641
Sand and gravel, fine	9	650
(D-3-1)20baa-1. Log by J. S. Lee and Sons. Alt. 4,570 ft.		
Sand and gravel	10	10
Clay, brown, sandy	58	68
Sand, brown, fine	10	78
Clay, blue, sandy	41	119
(D-3-1)20baa-1 - Continued		
Clay, brown, sandy	17	136
Sand and gravel	64	200
Sand and gravel; water	13	213
Clay, brown, sandy	84	297
Sand and gravel	6	303
Clay, brown, sandy	9	312
Sand and gravel	6	318
Clay, brown	4	322
Clay and gravel, sandy, hard	17	339
Gravel	2	341
Clay, brown, sticky	19	360
Clay, blue	25	385
Clay, brown, and gravel, sandy	49	434
Clay, blue, sandy	5	439
Clay, brown, sand, and gravel	9	448
Sand and gravel	1	449
Clay, brown, and sand and gravel lenses	119	568
(D-3-1)20cdd-1. Log by Intermountain Drilling Co. Alt. 4,559 ft.		
Gravel, fine	20	20
Clay, brown, and gravel	20	40
Sand and gravel	28	68
Clay, brown, and sand	28	96
Clay, blue, sand, and gravel	20	116
Sand and gravel	12	128
Gravel, brown	20	148
Sand and gravel	22	170
Clay, brown	4	174
Sand and gravel	64	238
Clay, reddish-brown	37	275
Clay, brown	20	295
Clay, blue	10	305
Sand and gravel	10	315
Clay, brown	95	410
Clay, brown, and gravel	65	475
Gravel and sand	15	490
Clay, brown	20	510
(D-3-1)31abb-1. Log by M. Church Drilling Co. Alt. 4,437 ft.		
Clay	15	15
Sand and gravel	4	19
Clay	55	74
Silt and sand	4	78
Clay	30	108
Silt, sand, and gravel	4	112
Clay	6	118
Sand and gravel	20	138
(D-3-1)31caa-1. Log by Intermountain Drilling Co. Alt. 4,437 ft.		
Clay, brown, sandy	14	14
Clay, blue, sandy	46	60
Sand	10	70
Clay, blue	125	195
Gravel and clay	18	213
Clay, brown	5	218
Gravel and blue clay	9	227
Gravel	12	239
Clay and gravel	91	330
Gravel, cemented	15	345
Clay and gravel	63	408
Gravel, cemented, and blue clay	22	430
Clay, brown	15	445
Clay, blue	30	475
Gravel, cemented	20	495
Clay, blue	15	510
(D-3-1)32bdd-1. Log by Intermountain Drilling Co. Alt. 4,479 ft.		
Soil	2	2
Clay, blue, sandy	8	10
Sand and blue clay	50	60
Clay, blue, sandy	60	120
Gravel and blue clay	130	250
Clay, blue	15	265
Sand, gravel, and clay lenses	15	280
Clay, brown, sand, and gravel	42	322
Sand and gravel	18	340
Sand, gravel, and brown clay	120	460
Clay, blue	35	495
Clay, brown	5	500

Table 8.--Summary of estimated well discharge, in acre-feet, calendar year 1966

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	800	3,600	800	400	3,000	31,300	39,900
Public supply	8,600	3,400	28,000	100	1,100	3,600	44,800
Irrigation	100	100	1,100	100	6,000	100	7,500
Air conditioning	200	900	20	20	0	10	1,200
Domestic, stock, fish, and fur culture	200	9,000	8,500	200	5,000	10,000	32,900
Total (rounded)	9,900	17,000	38,400	800	15,100	45,000	126,000

WATER-QUALITY DATA

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 Release 11 (table 12) or 12 (table 5).

Chemical analyses, in parts per million, calendar year 1966

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)14dcb-S1	a11- 9-66	130	32	738	135	4,120	229	0	927	7,310	0.6	13,600	2,400	2,210	77	37	21,600	7.6
25dbb-S1	b11- 3-66	108	18	565	109	2,410	220	0	1,090	4,170	.9	8,590	1,860	1,680	72	24	13,700	8.0
(B-1-2)2dac-2	10- 5-66	79	30	11	5.4	166	256	0	1.4	141	.2	488	50	0	88	10	847	7.9
7ccc-1	2- 3-66	60	20	72	80	1,560	208	4	338	2,390	3.2	4,570	510	333	87	30	8,070	8.3
7dbb-1	2- 3-66	62	24	92	108	1,060	190	0	210	1,850	.5	3,410	675	519	77	18	6,100	8.2
	9- 1-66	62	-	-	-	-	-	-	-	-	-	-	-	-	--	-	6,000	-
8abd-1	2- 3-66	66	29	24	23	280	192	0	4.0	425	.0	922	152	0	80	9.9	1,700	7.9
13cca	2- 3-66	-	26	16	15	238	370	0	.3	222	.3	721	100	0	84	10	1,250	8.1
15bcd-2	c8- 4-66	67	23	13	6.8	164	290	0	2.1	128	.3	489	60	0	85	9.2	849	7.7
16caa-1	6- 8-66	75	42	59	18	416	200	0	23	664	.1	1,320	220	56	80	12	2,430	7.7
19aca-1	2- 2-66	64	24	8.8	8.8	473	428	16	106	425	.0	1,270	58	0	95	27	2,220	8.6
21abb-1	d5-13-66	68	22	18	7.3	172	280	6	6.5	140	5.6	514	75	0	83	8.6	888	8.3
	e5-16-66	72	34	247	64	873	124	0	101	1,820	6.4	3,210	880	778	68	13	5,840	7.3
	d10- 5-66	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	922	-
	f10- 5-66	71	28	29	12	282	238	0	.2	382	.2	856	122	0	83	11	1,570	7.9
21acd-1	5-16-66	75	26	17	5.7	204	275	0	2.3	200	.2	635	66	0	87	11	1,080	7.9
21bbb-2	4-13-66	73	30	36	17	315	234	0	1.7	460	1.1	984	160	0	81	11	1,810	8.0
21dcd-1	4-13-66	73	46	22	15	228	271	0	.7	275	.8	738	115	0	81	9.3	1,280	7.8
22bdb-1	6- 8-66	73	42	16	5.8	193	297	0	6.7	164	.4	572	64	0	87	10	977	8.0
22cdb-1	2- 2-66	63	22	14	11	224	291	0	.3	232	.9	666	80	0	86	11	1,200	7.8
23bbd-1	2- 3-66	61	24	13	15	330	384	0	1.7	352	.0	970	96	0	88	15	1,690	8.1
27acb-1	2- 2-66	63	23	77	.5	314	234	0	20	470	.0	1,020	194	2	78	9.8	1,850	8.0
27cca-1	8-31-66	77	28	218	101	1,320	112	0	95	2,580	.9	4,400	960	868	75	19	8,030	7.2
31aad-1	2- 2-66	-	39	76	52	722	208	6	96	1,200	1.9	2,290	405	225	79	16	4,230	8.3
(B-1-3)24bdd-1	2- 2-66	68	28	174	116	1,320	162	0	206	2,440	.9	4,340	910	777	76	19	7,790	8.1
	9- 6-66	67	27	182	112	1,300	162	0	176	2,420	1.4	4,300	915	782	75	19	7,790	7.3
(C-1-1)9aab-1	9- 6-66	57	21	26	18	86	222	0	81	42	2.8	390	140	0	57	3.2	630	7.5
19caa-1	2-18-66	77	38	44	17	247	142	8	150	305	1.1	878	180	50	75	8.0	1,500	8.5
	8-24-66	75	40	48	19	230	155	0	161	288	.1	872	200	73	71	7.1	1,480	7.7
	10-31-66	77	41	54	24	273	154	0	186	360	.6	1,010	234	108	72	7.8	1,710	7.7
35aaa-4	2- 7-66	50	15	54	23	6.8	195	0	64	13	.1	287	230	70	6	.2	460	7.9
(C-1-2)1ddd-1	11-28-66	68	38	55	26	199	158	0	58	345	2.2	831	246	116	64	5.5	1,450	7.6
2aba-2	4-13-66	76	38	36	23	263	192	0	12	415	2.4	902	185	28	76	8.4	1,650	7.8
17adc-1	4-26-66	70	29	311	170	1,340	196	0	230	2,820	2.8	5,000	1,480	1,310	66	15	8,900	7.7
21acc-5	4-26-66	65	48	136	68	822	246	0	215	1,400	9.1	2,820	620	418	74	14	4,970	7.7
21adb-1	4-26-66	68	44	64	51	621	262	0	347	808	6.5	2,070	370	155	78	14	3,300	7.7
21dad-10	4-26-66	54	44	70	44	371	364	0	333	358	13	1,410	355	57	69	8.5	2,290	7.8
22bdd-4	4-26-66	50	22	44	31	268	251	0	163	315	.7	967	238	32	71	7.5	1,740	7.6
24aaa-2	10-27-66	73	51	196	98	924	112	0	233	1,820	.2	3,380	892	800	69	13	5,970	7.8
(C-2-1)9ccc-1	3-14-66	64	24	78	73	145	234	0	130	340	3.3	962	495	303	39	2.8	1,820	7.6
9dcc-1	9- 8-66	60	43	116	116	288	428	0	422	412	35	1,630	765	414	45	4.5	2,420	7.7
14cca-1	5-31-66	64	16	134	67	258	200	0	525	315	20	1,430	610	446	48	4.5	2,170	7.9
26add	10-20-66	60	11	20	9.2	28	112	0	22	24	.5	160	87	0	42	1.3	291	7.5
31bdd-1	8- 8-66	56	24	74	30	79	213	0	80	154	6.2	605	308	133	36	2.0	980	7.9
(C-2-2)5aac-S2	4-26-66	50	38	95	35	89	245	0	91	190	15	741	382	181	34	2.0	1,170	7.6
5aac-S3	4-26-66	62	41	103	39	92	233	0	101	202	47	788	418	227	32	2.0	1,220	7.7
5ada-S1	4-26-66	64	40	240	92	277	330	0	389	205	766	2,170	980	709	38	2.8	2,650	7.8
(C-3-1)1cab-2	g1-25-66	76	14	15	7.3	100	160	0	1.5	113	.0	343	68	0	75	5.3	627	7.5
7bcc-1	6-11-66	58	21	90	41	46	178	0	70	192	6.0	629	395	249	20	1.0	989	8.1
9ccc-1	h8-30-66	57	32	473	167	114	638	0	1,250	210	4.4	2,570	1,870	1,340	12	1.1	3,160	7.5
12ccb-1	2- 7-66	65	30	61	35	81	230	0	112	117	.8	561	294	105	38	2.1	919	7.9
30acd-1	8- 8-66	54	23	148	36	46	233	0	205	150	3.9	793	518	327	16	.9	1,160	7.8
	9- 8-66	54	25	138	52	39	238	0	213	160	4.2	861	560	365	13	.7	1,220	7.5

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 1966

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
(C-3-1)31cbb-1	4-16-66	56	47	132	35	48	254	0	60	215	6.4	785	475	267	18	1.0	1,160	7.6
31ccb-1	4-16-66	57	49	104	29	49	289	0	37	142	1.3	617	380	143	22	1.1	948	7.5
32adc-1	8-29-66	53	24	124	29	116	387	0	179	122	8.1	811	430	113	37	2.4	1,280	7.7
32dcc-1	8- 8-66	54	32	172	28	103	368	0	172	200	10	957	546	244	29	1.9	1,430	7.9
	9- 8-66	54	35	129	58	64	305	0	172	188	5.4	926	560	310	20	1.2	1,430	7.6
33abd-1	9- 9-66	64	30	152	103	190	342	0	385	375	8.5	1,410	805	524	34	2.9	2,270	7.7
(C-3-2)12dbc-1	4-21-66	57	22	124	46	57	180	0	247	156	.3	784	500	352	20	1.2	1,150	7.5
(C-4-1)5abb-1	4-15-66	54	42	120	36	76	376	0	112	128	12	748	450	142	27	1.6	1,150	7.9
5acb-1	8-17-66	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,670	-
6acb-1	4- 9-66	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	838	-
6adc-1	17-13-66	54	49	69	20	44	222	0	53	82	.8	461	256	74	26	1.2	700	7.6
11cab-S1	8- 8-66	60	34	102	68	227	382	0	333	260	2.0	1,210	534	221	48	4.3	1,930	7.9
15bdc-1	8-10-66	62	57	150	70	163	206	0	220	435	9.6	1,210	664	495	35	2.8	2,010	7.8
15bdc-2	5-19-66	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	827	-
	5-21-66	69	58	71	27	60	191	0	54	142	5.7	589	287	130	31	1.5	871	7.7
	8-10-66	65	62	80	34	76	185	0	75	190	8.6	713	340	188	33	1.8	1,060	7.8
23cbb-S1	4- 8-66	73	21	63	25	24	248	0	30	57	.0	373	262	59	34	.7	629	7.7
(C-4-2)1bbb-1	4- 9-66	58	46	118	38	43	294	0	51	175	2.9	705	450	209	17	.9	1,060	7.7
	8-23-66	56	46	124	32	48	289	0	52	178	1.9	710	440	203	19	1.0	1,100	7.5
(D-1-1)7abd-6	2- 7-66	54	16	110	50	26	325	0	172	54	18	640	480	214	10	.5	955	7.6
	9-14-66	56	18	103	50	34	326	0	164	55	24	644	460	193	14	.7	957	7.9
19cdb-17	2-22-66	54	9.8	99	39	56	269	0	250	30	7.2	622	408	187	23	1.2	908	8.0
20ddd-1	j7-21-66	60	15	122	40	31	254	0	289	27	5.0	691	470	262	12	.6	936	7.7
21ddd-1	k7-21-66	59	16	108	39	30	267	0	233	32	5.1	625	430	211	13	.6	883	7.6
25ccb-2	m7-21-66	59	15	100	51	28	300	0	149	72	9.1	599	460	214	12	.6	921	7.5
26bbc-1	n7-21-66	59	13	146	51	28	249	0	387	26	2.9	794	575	371	10	.5	1,050	7.4
30abb-4	6- 7-66	-	-	-	-	--	-	-	-	-	-	-	-	-	-	-	681	-
30cda-10	5- 3-66	61	13	60	19	29	198	0	104	14	.3	359	228	66	22	.8	545	7.6
	5- 6-66	62	14	59	21	28	199	0	105	15	.8	359	233	70	21	.8	548	7.5
30dcb-14	p5-19-66	56	12	91	31	24	232	0	142	46	2.7	484	352	162	13	.6	751	7.7
31aba-4	r5-19-66	55	2.2	6.6	2.8	20	60	0	.9	15	.0	76	28	0	61	1.6	144	7.6
31abc-1	s5-19-66	56	15	126	42	72	354	0	206	98	.1	760	486	196	24	1.4	1,170	7.8
(D-2-1)8abd	12-21-66	55	11	91	33	63	280	0	141	85	6.5	585	364	134	27	1.4	931	7.7
8daa-5	9-14-66	58	9.6	26	12	12	122	0	22	12	1.5	156	114	14	19	.5	266	7.9
(D-3-1)20cdd-1	6- 3-66	70	18	42	22	238	243	0	147	254	2.8	855	196	0	73	7.4	1,470	8.1
29abc-1	6- 3-66	72	17	53	12	16	212	0	33	5.8	.1	240	181	7	16	.5	400	7.8
	8- 8-66	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	401	-
31abb-1	7-26-66	-	37	43	21	17	273	0	1.0	6.3	.2	268	196	0	16	.5	444	7.8
31caa-1	5-17-66	57	21	64	14	40	209	0	44	59	6.4	374	219	48	28	1.2	611	8.0
32bdd-1	5- 6-66	55	14	115	30	36	201	0	128	130	12	663	413	248	16	.8	956	7.4
(D-4-1)6bdd-1	10- 3-66	63	18	64	43	104	210	0	176	138	13	659	335	163	40	2.5	1,080	7.3

a Analysis includes 198 ppm potassium (K), 3.2 ppm fluoride (F), and 2.0 ppm boron (B).
b Analysis includes 111 ppm potassium (K), 1.9 ppm fluoride (F), and 1.2 ppm boron (B).
c Analysis includes 2.4 ppm potassium (K) and 1.9 ppm fluoride (F). Well listed as (B-1-2)15bcb-2 in Basic-Data Releases 11 and 12.
d Sample collected from 4-inch casing open at 420 feet.
e Sample collected from 2-inch casing open at 747 feet.
f Sample collected from 4-inch casing open at 558 feet.
g Analysis includes 0.78 ppm iron (Fe), 2.8 ppm potassium (K), 0.6 ppm fluoride (F), and 0.14 ppm boron (B).
h Analysis includes 5.8 ppm potassium (K).
i Analysis includes 7.8 ppm potassium (K) and 1.7 ppm fluoride (F).
j Analysis includes 2.9 ppm potassium (K), 0.5 ppm fluoride (F), and 0.09 ppm boron (B).
k Analysis includes 3.2 ppm potassium (K), 0.4 ppm fluoride (F) and 0.10 ppm boron (B).
m Analysis includes 0.7 ppm potassium (K), 0.1 ppm fluoride (F), and 0.06 ppm boron (B).
n Analysis includes 0.7 ppm potassium (K), 0.6 ppm fluoride (F), and 0.08 ppm boron (B).
p Analysis includes 0.04 ppm iron (Fe).
r Analysis includes 0.09 ppm iron (Fe).
s Analysis includes 0.53 ppm iron (Fe)

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 of sampling sites at gaging stations are given in tables 14 to 61. Others are given below.

Chemical analyses, in parts per million, water year October 1965 to September 1966

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)
1670. Jordan River at narrows, near Lehi																			
Records available.--November 1963 to September 1966.																			
Oct. 18, 1965	23	18	71	62	191	241	0	319	225	0.0	1,000	1.36	62.1	432	234	4.0	1,660	7.6	50
Nov. 15	22	22	108	79	215	305	0	391	286	1.1	1,250	1.70	74.2	595	345	3.8	2,050	7.6	46
Dec. 13	21	24	138	78	235	332	0	466	295	2.3	1,400	1.90	79.4	665	393	4.0	2,140	7.8	40
Jan. 14, 1966	46	12	90	71	172	280	0	342	215	.6	1,040	1.41	129	515	285	3.3	1,660	8.1	36
Feb. 21	239	15	80	57	150	277	0	269	180	2.0	890	1.21	574	436	209	3.1	1,430	7.6	38
Mar. 21	21	35	110	83	242	310	0	454	292	1.7	1,370	1.86	77.7	615	361	4.2	2,050	7.7	-
May 2	637	13	67	54	127	250	0	223	161	1.4	825	1.12	1,420	388	183	2.8	1,280	7.9	63
June 14	705	8.9	63	57	158	256	0	254	185	.3	872	1.19	1,570	392	182	3.5	1,390	8.2	67
July 7	756	13	59	61	165	238	0	273	195	.3	910	1.24	1,860	396	201	3.6	1,440	8.1	74
Aug. 3	688	21	57	65	176	236	0	279	218	.3	970	1.32	1,800	408	214	3.8	1,520	8.1	75
Sept. 15	398	20	58	62	196	212	0	305	235	2.8	a1,020	1.39	1,100	400	226	4.2	1,590	7.5	56
1672. Jordan River at 9400 South, near South Jordan																			
Records available.--August 1965 to September 1966.																			
Aug. 12, 1965	11	33	192	88	268	347	0	554	395	4.9	1,710	2.33	50.8	840	555	4.0	2,540	7.8	68
Sept. 21	40	11	95	63	182	141	0	366	282	.0	1,070	1.46	116	498	382	3.5	1,860	8.2	54
Oct. 18	38	31	207	66	284	354	0	498	421	3.7	1,680	2.28	172	788	497	4.4	2,690	7.5	57
Nov. 16	26	10	142	91	276	224	0	520	428	1.0	1,580	2.15	115	730	546	4.4	2,610	8.0	53
Dec. 13	29	32	226	89	260	354	0	565	435	5.4	1,790	2.43	140	930	640	3.7	2,770	8.1	48
Jan. 14, 1966	38	23	181	86	264	327	0	529	395	2.6	1,640	2.23	168	804	536	4.0	2,540	8.0	43
Feb. 23	316	19	114	63	176	299	0	331	238	2.3	1,090	1.48	930	544	299	3.3	1,790	7.8	41
Mar. 21	42	46	180	96	251	334	0	526	400	7.0	1,670	2.27	189	845	571	3.8	2,490	7.8	-
May 4	2.2	28	178	92	239	320	0	475	412	6.2	1,590	2.16	9.44	822	560	3.6	2,540	7.9	70
June 20	13	23	172	75	284	298	0	549	382	3.6	1,640	2.23	57.6	740	496	4.5	2,480	8.0	64
July 7	12	24	186	86	270	354	0	542	390	2.6	1,670	2.27	54.1	820	530	4.1	2,520	7.8	60
Aug. 3	27	26	186	79	286	360	0	527	400	5.4	1,690	2.30	123	790	495	4.4	2,540	8.1	65
Aug. 31	11																2,310		59
Sept. 15	27	28	184	85	269	332	0	532	400	6.9	1,670	2.27	122	810	538	4.1	2,520	7.8	60

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

Chemical analyses, in parts per million, water year October 1965 to September 1966

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)
1673. Jordan River at 5800 South, near Murray																			
Records available.--August 1965 to September 1966. Daily mean specific conductance October 1965 to September 1966.																			
Aug. 12, 1965	131	26	176	75	219	314	0	463	340	8.2	1,460	1.99	516	750	493	3.5	2,260	7.5	69
Sept. 21	190	19	71	43	229	46	16	379	280	.1	1,060	1.44	544	356	292	5.3	1,910	9.2	53
Oct. 18	141	17	135	83	224	273	7	418	351	1.7	1,370	1.86	522	680	445	3.7	2,310	8.3	57
Nov. 16	125	13	155	77	230	319	0	423	356	1.4	1,410	1.92	476	705	443	3.8	2,380	8.2	53
Nov. 22	135																2,360		
Nov. 29	125																2,430		
Dec. 4	124																2,200		
Dec. 7	121																2,370		49
Dec. 13	125	25	188	80	234	344	0	492	365	.3	1,550	2.11	523	800	518	3.6	2,420	7.5	50
Jan. 3, 1966	142																2,500		43
Jan. 11	141	13	166	79	236	328	0	475	345	2.2	1,480	2.01	563	738	469	3.8	2,290	7.9	46
Mar. 21	113	30	180	84	232	310	0	509	360	9.5	1,560	2.12	476	795	541	3.6	2,340	7.5	
May 3	87	23	164	81	208	298	0	456	332	11	1,420	1.93	334	744	500	3.3	2,240	7.5	65
May 31	129																2,120		58
June 20	117	12	148	75	256	288	0	488	548	1.3	1,470	2.00	464	680	444	4.3	2,290	8.1	64
July 7	132	25	164	78	239	320	0	479	342	7.1	1,490	2.03	531	730	468	3.8	2,270	8.1	60
Aug. 3	146	17	156	83	244	328	0	476	348	5.4	1,490	2.03	587	730	461	3.9	2,270	8.1	65
Sept. 1	160	26	164	78	226	316	0	463	335	10	1,460	1.99	631	730	471	3.6	2,260	7.5	63
1675. Little Cottonwood Creek near Salt Lake City																			
Location.--At Utah Power and Light Company's powerplant, 2 miles upstream from gaging station at mouth of canyon, and 15 miles southeast of Salt Lake City.																			
Records available.--November 1963 to September 1966.																			
Oct. 18, 1965	28	6.0	28	6.3	2.9	75	0	33	4.5	0.1	106	0.14	8.01	96	34	0.1	210	7.4	42
Nov. 15	22	6.1	30	6.8	3.9	79	0	36	5.3	.8	113	.15	6.71	102	37	.1	226	7.6	41
Dec. 13	19	6.1	30	7.1	7.5	82	0	43	6.6	.2	133	.18	6.82	105	38	.3	231	7.4	36
Jan. 14, 1966	17	3.0	32	7.1	3.8	72	6	36	7.0	.1	139	.19	6.38	108	39	.2	235	8.7	36
Feb. 21	13	4.6	32	8.0	2.1	80	3	36	6.7	.1	138	.19	4.84	113	42	.1	242	8.5	35
Apr. 5	52	6.8	28	3.9	11	66	0	32	14	.9	127	.17	17.8	85	31	.5	215	7.5	37
May 2	80	5.8	22	4.6	4.2	60	0	23	6.5	1.1	100	.14	21.6	74	25	.2	174	7.4	46
June 14	160	4.0	14	3.6	2.8	46	0	15	2.5	.3	67	.09	28.9	51	13	.2	114	7.8	53
July 7	60	5.4	19	4.1	3.0	56	0	19	3.3	.1	77	.10	12.5	64	18	.2	141	7.4	47
Aug. 3	31	5.4	25	5.1	2.5	68	0	27	3.9	.2	102	.14	8.54	84	28	.1	181	7.9	55
Sept. 14	16	6.2	23	6.1	6.9	68	0	32	5.6	.2	104	.14	4.49	82	26	.3	187	7.4	45

See footnotes at end of table.

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

Chemical analyses, in parts per million, water year October 1965 to September 1966

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)
1685. Big Cottonwood Creek near Salt Lake City																			
Location.--At bridge on Utah Highway 152 at Maxfield's Lodge, 2.5 miles upstream from gaging station at mouth of canyon, and 12 miles southeast of Salt Lake City.																			
Records available.--November 1963 to September 1966.																			
Oct. 15, 1965	63																256		44
Oct. 18	45	6.4	41	14	3.0	149	0	36	4.5	0.7	175	0.24	21.3	160	38	0.1	327	7.7	44
Nov. 15	35	6.6	45	15	3.1	159	0	40	5.0	.9	188	.26	17.8	173	43	.1	354	7.6	43
Dec. 13	28	6.3	46	14	9.8	161	0	48	10	.3	208	.28	15.7	175	43	.3	361	7.9	38
Jan. 14, 1966	26	7.1	48	16	6.0	168	0	46	8.1	.1	222	.30	15.6	184	46	.2	370	7.6	34
Feb. 21	26	7.7	50	17	.4	169	0	40	11	.2	221	.30	15.5	195	56	.0	390	8.0	36
Apr. 5	76	6.7	33	8.8	9.9	110	0	29	13	.9	161	.22	33.0	118	28	.4	273	7.6	36
May 2	94	5.8	27	9.0	2.9	95	0	21	7.2	.7	129	.18	32.7	104	26	.1	228	7.5	46
June 14	152	6.6	27	8.3	3.1	100	0	19	4.0	.3	114	.16	46.8	101	19	.1	207	7.8	53
July 7	54	7.5	38	12	3.4	142	0	30	4.7	.1	166	.23	24.2	147	31	.1	294	7.9	49
Aug. 2	33	8.0	48	17	2.9	178	0	39	5.4	.2	204	.28	18.2	188	42	.1	367	8.2	58
Sept. 14	34	7.1	32	23	5.7	160	0	45	7.1	.6	199	.27	18.3	176	45	.2	349	7.9	47
1700. Mill Creek near Salt Lake City																			
Records available.--November 1963 to September 1966.																			
Oct. 15, 1965	9.8	8.2	85	26	6.0	238	0	123	7.2	0.2	375	0.51	9.92	320	125	0.1	611	7.9	47
Nov. 16	10	7.6	85	27	5.3	237	0	126	7.6	.2	377	.51	10.2	324	130	.1	626	7.9	43
Dec. 14	9.5	8.2	86	28	8.7	238	0	135	9.5	.1	402	.55	10.3	330	135	.2	617	8.1	36
Jan. 14, 1966	9.5	8.6	87	26	9.9	227	0	140	8.6	.1	405	.55	10.4	322	136	.2	626	8.2	38
Feb. 21	8.4	8.3	87	29	3.2	234	0	133	8.9	.1	400	.54	9.07	336	144	.1	626	7.9	36
Apr. 4	12	8.5	81	23	12	230	0	118	9.0	.4	372	.51	12.1	298	109	.3	576	8.1	45
May 2	15	7.8	78	25	3.9	226	0	103	9.0	.2	351	.48	14.2	296	111	.1	545	8.1	49
June 14	14	9.7	77	23	7.6	228	0	101	8.0	.2	338	.46	12.8	287	100	.2	540	8.1	54
July 7	11	8.3	75	29	6.9	226	0	120	7.8	.3	382	.52	11.3	306	121	.2	569	7.8	55
Aug. 2	10	8.3	81	26	1.8	222	0	115	7.3	.1	386	.52	10.4	308	126	.0	369	7.9	58
Sept. 14	9.6	7.5	63	31	9.7	206	0	119	7.9	1.2	342	.47	8.86	284	115	.2	539	8.0	46

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

Chemical analyses, in parts per million, water year October 1965 to September 1966

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)
1707. North Point Consolidated Canal below Goss flume, at Salt Lake City																			
Records available.--September 1964 to September 1966.																			
Nov. 16, 1965	22	13	146	68	177	297	0	364	283	11	1,210	1.65	71.9	645	401	3.0	2,010	8.0	56
Dec. 13	24				197	303	0	405	289	8.4	a1,380	1.88	89.4	657	409	3.3	2,050	7.5	46
Jan. 17, 1966	11																2,060		39
Feb. 24	11																1,830		41
Apr. 5	14																1,670		52
May 5	15																1,700		58
June 8	76																2,080		66
June 20	68																1,950		73
Sept. 14	5																2,060		59
1708. Surplus Canal at Cohen flume, near Salt Lake City																			
Records available.--October 1964 to August 1966.																			
Nov. 22, 1965	99	21	148	64	194	291	0	393	282	13	1,260	1.71	337	635	396	3.3	1,990	7.4	50
Dec. 13	96				200	315	0	401	286		a1,270	1.73	329	644	386	3.4	2,010	7.4	45
Jan. 17, 1966	111																2,050		39
Feb. 24	274																1,870		41
Apr. 5	114																1,730		52
May 4	57																1,810		60
June 20	81																1,940		68
Aug. 3	128																2,080		75

See footnotes at end of table.

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

Chemical analyses, in parts per million, water year October 1965 to September 1966

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)
1710. Jordan River at Salt Lake City																			
Location.--At highway bridge on Twenty-first South Street, Salt Lake City, 0.2 mile upstream from gaging station, approximately 200 feet upstream from diversion structure at head of Surplus Canal, and approximately 2 miles downstream from Mill Creek.																			
Records available.--November 1963 to September 1966.																			
Oct. 18, 1965	310	21	152	55	198	296	0	381	275	11	1,240	1.69	1,040	605	362	3.5	1,980	7.5	55
Nov. 15	240	22	152	63	188	292	0	389	278	15	1,250	1.70	810	640	401	3.2	1,990	7.3	51
Dec. 13	274	20	146	62	187	292	0	375	275	11	1,220	1.66	903	620	381	3.3	1,930	7.3	47
Jan. 14, 1966	272	.3	102	71	208	144	31	399	290	2.8	1,170	1.59	859	545	374	3.9	2,010	9.0	45
Feb. 21	476	20	126	66	165	281	0	351	240	11	1,120	1.52	1,440	585	355	3.0	1,800	7.5	43
Mar. 21	280	21	148	73	207	285	0	433	300	15	1,340	1.82	1,010	670	436	3.5	2,000	7.3	--
May 4	288	14	95	48	124	212	0	253	183	14	877	1.19	682	436	262	2.6	1,380	7.3	60
June 14	368	1.5	110	75	197	186	47	384	268	4.6	1,180	1.60	1,170	584	353	3.5	1,860	9.0	62
July 8	247	10	128	71	238	264	12	428	305	18	1,340	1.82	894	610	374	4.2	2,050	8.4	61
Sept. 14	417	21	124	66	199	266	0	373	280	15	1,210	1.65	1,360	580	362	3.6	1,910	7.5	57
1716. Parleys Creek at Suicide Rock, near Salt Lake City																			
Records available.--November 1963 to September 1966.																			
Oct. 18, 1965	2.9	11	58	42	25	275	0	96	31	1.4	395	0.54	3.09	316	90	0.6	682	8.1	52
Nov. 15	3.1	15	59	41	25	276	0	95	32	.7	409	.56	3.42	317	91	.6	681	8.0	48
Dec. 14	3.1	10	99	22	27	289	0	100	39	1.6	449	.61	3.76	338	101	.6	723	7.9	40
Jan. 14, 1966	2.9	12	97	24	27	287	0	102	40	2.6	452	.61	3.54	341	106	.6	724	8.0	36
Feb. 21	2.9	12	87	28	32	260	0	107	52	.9	431	.59	3.37	330	117	.8	756	7.8	37
Apr. 4	12	16	87	21	16	257	0	60	48	1.4	393	.53	12.7	306	95	.4	640	8.0	42
May 2	11	8.2	84	20	18	255	0	63	40	.7	372	.51	11.0	292	83	.5	625	7.9	50
June 14	12	11	71	18	23	240	0	51	36	.4	335	.46	10.9	252	55	.6	552	.6	53
July 7	3.7	11	78	26	26	242	0	93	43	.4	418	.57	4.18	300	102	.7	656	7.8	60
Aug. 2	2.4	12	71	28	25	212	0	105	44	2.3	421	.57	2.73	292	118	.6	705	8.1	65
Sept. 14	3.1	12	82	29	27	260	0	104	41	2.5	424	.58	3.55	322	109	.7	694	8.0	54
1720. Emigration Creek near Salt Lake City																			
Records available.--November 1963 to September 1966.																			
Oct. 18, 1965	2.7	12	51	26	79	300	0	111	32	0.5	446	0.61	3.25	235	0	2.3	760	8.0	50
Nov. 10	2.0																808		47

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

Chemical analyses, in parts per million, water year October 1965 to September 1966

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)
1720. Emigration Creek near Salt Lake City--Continued																			
Nov. 16, 1965	2.7	15	72	38	25	307	0	95	28	.9	424	.58	3.09	336	84	.6	717	8.1	45
Dec. 14	3.8	12	100	24	42	308	0	100	58	.8	495	.67	5.08	348	95	1.0	813	7.9	35
Jan. 14, 1966	2.0	13	97	24	80	298	0	105	116	1.1	596	.81	3.22	343	99	1.9	1,010	7.7	33
Feb. 21	2.0	12	106	26	26	309	0	89	57	.5	496	.67	2.68	370	117	.6	810	7.9	43
Apr. 4	11	15	84	14	22	277	0	53	23	.7	357	.49	10.6	268	41	.6	582	8.1	39
May 2	7.6	11	84	20	18	278	0	62	28	.5	376	.51	7.72	294	66	.4	615	7.9	47
July 7	3.8	14	80	29	26	270	0	101	36	.1	436	.59	4.47	320	99	.6	673	8.0	61
Aug. 2	2.7	11	83	29	28	234	0	135	38	.4	458	.62	3.34	326	134	.7	699	7.9	64
Sept. 15	2.7	13	96	33	26	280	0	146	34	2.0	498	.68	3.63	374	144	.6	766	8.0	53
1722. Red Butte Creek at Fort Douglas, near Salt Lake City																			
Records available.--April 1964 to September 1966.																			
Oct. 18, 1965	2.1	12	64	29	54	319	0	106	16	0.5	425	0.58	2.41	278	16	1.4	673	8.0	46
Nov. 16	2.5	11	71	39	17	295	4	101	15	.3	397	.54	2.68	337	89	.4	662	8.3	42
Dec. 14	2.2	9.5	96	26	14	302	0	109	13	.2	422	.57	2.51	348	100	.3	673	8.1	35
Jan. 11, 1966	1.9	11	88	27	12	280	0	105	12	.1	414	.56	2.12	330	100	.3	661	8.1	35
Feb. 23b	1.6	10	93	27	12	286	0	113	14	.0	426	.58	1.84	345	110	.3	656	8.0	36
May 2	4.7	9.2	81	22	9.7	271	0	72	12	.0	324	.44	4.11	293	71	.2	565	8.1	45
June 14	2.8	11	79	27	13	278	0	85	14	.1	377	.51	2.85	308	80	.3	587	8.0	53
July 8	1.6	12	83	27	14	286	0	93	14	.1	398	.54	1.72	320	85	.3	614	7.9	58
Aug. 2	1.3	9.9	79	30	15	284	0	99	14	.2	402	.55	1.41	322	89	.4	618	8.0	65
Sept. 15	1.3	12	89	33	12	300	0	112	15	.2	422	.57	1.48	358	112	.3	665	8.1	50
1724. City Creek above Wasatch Drive, near Salt Lake City																			
Records available.--November 1963 to September 1966.																			
Oct. 18, 1965	11	11	72	20	17	299	0	17	25	.2	297	0.40	8.82	262	17	0.4	551	7.4	49
Nov. 18	11	10	62	20	14	268	0	18	23	.2	267	.36	7.93	239	19	.4	502	8.0	42
Dec. 13	9.5	11	67	20	17	279	0	22	24	.3	289	.39	7.41	248	19	.5	527	8.0	40
Jan. 14, 1966	9.0	11	60	20	17	259	0	17	27	.2	285	.39	6.93	231	19	.5	517	8.1	34
Feb. 21	7.7	12	67	21	13	277	0	18	27	.1	282	.38	5.86	256	29	.3	411	7.9	39
Apr. 4	18	11	63	17	23	268	0	23	24	.1	283	.38	13.8	228	8	.7	503	7.8	38
May 1	24	7.2	58	14	5.2	229	0	11	10	.0	193	.26	12.5	202	14	.2	404	7.8	45
June 14	18	13	64	19	17	274	0	16	23	.1	278	.38	13.5	236	11	.5	499	8.2	48

See footnotes at end of table.

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

Chemical analyses, in parts per million, water year October 1965 to September 1966

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)
1724.- City Creek above Wasatch Drive, near Salt Lake City--Continued																			
July 8, 1966	13	12	61	20	18	270	0	17	24	.3	274	0.37	9.62	234	13	0.5	495	8.2	56
Aug. 2	11	13	49	20	19	222	5	17	26	1.1	247	.34	7.34	204	14	.6	492	8.3	63
Sept. 16	7.8	13	58	9.7	35	254	0	16	25	.1	277	.38	5.83	184	0	1.1	487	7.8	54
1725.8 Jordan River at Cudahy Lane, near Salt Lake City																			
Location.--At highway bridge on Cudahy Lane, approximately 0.2 mile upstream from gaging station, and 6.3 miles northwest of Salt Lake City. Records available.--October 1963 to September 1966.																			
Oct. 15, 1965	170	19	128	58	176	286	0	328	255	9.6	1,110	1.51	509	560	325	3.2	1,850	7.6	56
Oct. 21	152																2,000		55
Nov. 18	177	19	135	59	185	272	0	351	268	16	1,170	1.59	559	578	355	3.3	1,890	7.5	46
Jan. 17, 1966	143	.3	96	73	190	122	32	371	285	13	1,120	1.52	432	540	386	3.5	2,010	9.2	40
Feb. 24	200	17	120	60	173	286	0	335	235	12	1,090	1.48	589	548	313	3.2	1,780	7.7	42
Apr. 5	150	21	112	57	125	244	0	265	212	15	972	1.32	394	515	315	2.4	1,510	7.2	52
May 4	148	14	101	53	136	226	0	268	201	21	953	1.30	381	468	283	2.7	1,490	7.1	60
June 8	196	20	122	73	219	284	0	395	298	19	1,290	1.75	683	604	371	3.9	1,990	8.0	67
June 20	154	18	104	68	168	260	0	320	245	17	1,070	1.46	445	540	327	3.1	1,730	8.0	71
Aug. 3	171	20	108	73	198	274	0	367	270	18	1,190	1.62	549	572	347	3.6	1,860	7.9	71
Sept. 14	187	22	128	68	209	250	0	404	295	17	1,270	1.73	641	600	395	3.7	1,990	7.2	63
1726.3 Goggin Drain, near Magna																			
Records available.--October 1963 to September 1966.																			
Oct. 18, 1965	18	6.6	123	121	992	268	21	622	1,460	1.2	3,480	4.73	169	805	551	15	6,030	8.6	50
Nov. 16	8.7	1.8	131	159	1,510	365	40	793	2,230	1.6	5,010	6.81	118	980	681	21	8,560	8.8	51
Dec. 13	15	14	136	134	1,100	328	0	443	1,800	6.3	3,790	5.15	153	890	621	16	7,060	8.0	37
Jan. 11, 1966	9.9	1.5	112	175	1,710	238	43	965	2,450	1.0	5,590	7.60	149	1,000	733	24	9,240	8.8	35
Feb. 23	9.5	9.2	120	219	2,510	327	7	1,170	3,650	2.3	7,850	10.7	201	1,200	922	31	12,900	8.3	46
Mar. 31	4.1	18	201	249	3,040	398	0	1,380	4,500	22	9,610	13.1	106	1,530	1,200	34	15,300	7.4	68
May 4	12	25	145	124	1,120	368	0	705	1,600	7.8	3,910	5.32	127	872	570	16	6,420	7.2	65
June 20	12	19	124	88	493	304	0	498	690	1.9	2,060	7.80	66.7	670	421	8.3	3,370	8.0	82
July 8	9.1	16	144	124	822	222	55	745	1,140	.6	3,140	4.27	77.1	870	596	12	5,030	8.9	81
Aug. 2	3.9	4.7	106	142	1,030	266	0	714	1,500	2.8	3,630	4.94	38.2	850	632	15	6,060	7.8	82
Sept. 19	1.2	2.3	120	209	2,220	418	0	1,200	3,120	.5	7,080	9.63	22.9	1,160	817	28	11,200	8.1	76

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

Chemical analyses, in parts per million, water year October 1965 to September 1966

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)
1726.5 Kennecott Drain, near Magna																			
Records available.--October 1963 to September 1966.																			
Oct. 18, 1965	71	46	225	116	859	186	0	611	1,500	2.9	3,450	4.69	661	1,040	887	12	6,150	7.4	56
Nov. 16	67	65	306	144	1,150	51	0	772	2,130	15	4,610	6.27	834	1,360	1,310	14	7,950	6.4	55
Dec. 13[c]	121	39	217	139	1,570	200	0	823	2,580	7.6	5,560	7.56	1,820	1,260	1,100	19	9,100	7.0	44
Jan. 11, 1966	95	55	681	116	910	108	0	1,730	1,600	7.5	5,150	7.00	1,320	2,180	2,090	8.5	7,240	6.9	44
Feb. 23	106	37	265	88	841	105	0	644	1,480	8.6	3,420	4.65	979	1,020	937	11	5,970	7.8	45
Apr. 5	42	63	211	105	1,030	(d)		789	1,680	13	3,900	5.30	442	957	957	15	6,410	4.0	62
May 4	62	42	248	199	1,790	152	0	881	3,030	14	6,280	8.54	1,050	1,440	1,310	20	10,500	6.6	70
June 20	95	22	212	85	620	214	0	616	1,000	.6	2,660	3.62	682	880	705	9.1	4,330	8.2	77
July 8	99	29	220	90	729	178	0	652	1,190	2.8	3,000	4.08	802	920	774	10	4,920	8.0	67
Aug. 2	77	41	236	100	824	142	0	696	1,380	5.7	3,350	4.56	696	1,000	884	11	5,590	7.7	78
Sept. 19	127	35	152	95	485	204	0	539	775	4.0	2,180	2.96	748	770	603	7.6	3,660	6.5	65

a Residue on evaporation at 180°C.
b Analysis includes 0.5 ppm fluoride (F) and 0.07 ppm boron (B).
c Analysis includes 0.14 ppm copper (Cu), 0.20 ppm zinc (Zn), and 31 ppm phosphate (PO_4).
d Acidity as H_2SO_4, 243 ppm.

Table 11.--Daily mean specific conductance of Jordan River at 5800 South, near Murray (1673)

Records available.--October 1965 to September 1966.

Specific conductance, in micromhos per cm. at 25°C, water year October 1965 to September 1966

DAY	October	November	December	January	February	March	April	May	June	July	August	September
1	1,850	2,050	2,530	2,350	2,200	1,770	1,990	2,140	2,130	2,050	2,120	2,240
2	1,900	2,000	2,480	2,400	2,180	1,770	1,900	2,080	2,080	2,030	2,190	2,220
3	1,910	2,100	2,470	2,480	2,180	1,750	1,880	2,220	2,100	2,020	2,200	2,180
4	1,920	2,100	2,510	2,330	2,200	1,770	1,880	2,200	2,050	2,120	2,200	2,140
5	1,970	2,100	2,520	2,250	2,130	1,800	2,250	2,160	2,050	2,040	2,210	2,180
6	1,970	2,300	2,650	2,260	2,080	1,880	2,250	2,050	2,050	2,190	2,260	2,170
7	1,970	2,270	2,670	2,210	2,100	1,900	2,250	2,060	2,080	2,320	2,260	2,250
8	1,970	2,300	2,650	2,180	2,100	1,880	2,230	1,950	2,080	2,290	2,340	2,300
9	1,970	2,270	2,650	2,190	2,080	1,900	2,220	1,950	2,080	2,270	2,380	2,300
10	1,970	2,230	2,520	2,200	2,040	1,880	2,200	2,000	2,080	2,250	2,140	2,300
11	1,970	2,200	2,550	2,260	2,000	1,800	2,200	2,010	2,080	2,250	2,080	2,300
12	1,970	2,200	2,520	2,260	2,080	1,750	2,190	2,000	2,080	2,240	2,060	2,300
13	1,970	2,200	2,560	2,260	1,980	1,750	2,200	1,990	2,080	2,180	2,090	2,300
14	1,970	2,200	2,530	2,210	1,890	1,750	2,180	2,000	2,080	2,180	2,070	2,300
15	1,970	2,350	2,470	2,200	1,900	1,750	2,120	2,050	2,100	2,100	2,090	2,300
16	1,890	2,480	2,420	2,200	1,890	2,010	2,030	2,140	2,100	2,180	2,080	2,300
17	1,940	2,330	2,400	2,200	1,810	2,240	2,000	2,120	2,100	2,070	2,180	2,300
18	1,970	2,370	2,390	2,150	1,800	2,290	1,840	2,150	2,110	2,000	2,250	2,300
19	2,000	2,350	2,400	2,180	1,810	2,320	1,690	2,110	2,150	2,040	2,200	2,300
20	2,030	2,420	2,400	2,200	1,810	2,400	1,650	2,100	2,190	2,130	2,180	2,300
21	2,090	2,400	2,390	2,170	1,810	2,420	1,690	2,040	2,200	2,120	2,200	2,300
22	2,000	2,350	2,370	2,130	1,790	2,370	1,700	1,980	2,170	2,090	2,180	2,300
23	2,060	2,370	2,350	2,200	1,780	2,340	1,780	1,940	2,200	2,000	2,130	2,300
24	2,090	2,350	2,350	2,180	1,780	2,310	1,780	2,120	2,200	2,020	2,070	2,400
25	2,090	2,350	2,350	2,180	1,780	2,240	1,800	2,140	2,200	2,130	2,150	2,350
26	2,030	2,400	2,350	2,200	1,750	2,200	2,000	2,060	2,180	2,190	2,200	2,290
27	2,030	2,400	2,350	2,220	1,770	2,230	2,140	1,940	2,130	2,150	2,130	2,200
28	2,000	2,400	2,350	2,180	1,770	2,200	2,020	1,920	2,150	2,080	2,190	2,220
29	2,000	2,390	2,350	2,200	---------	2,180	2,080	1,890	2,100	2,030	2,100	2,240
30	2,000	2,570	2,310	2,200	---------	2,160	2,100	1,910	2,100	2,010	2,160	2,230
31	2,000	---------	2,270	2,200	---------	2,130	----------	2,130	---------	2,070	2,240	---------
Average	1,980	2,290	2,450	2,230	1,950	2,040	2,010	2,050	2,120	2,120	2,170	2,200

Table 12.--Daily maximum and minimum temperature of Red Butte Creek at Fort Douglas, near Salt Lake City (1722)

Records available.--April 1964 to September 1966.

Extremes.--Maximum temperature during year, 70°F July 18, 21, 25-26; minimum, 32°F on several days during winter months. April 1964-September 1966: Maximum temperature, 70°F July 18, 21, 25-26, 1966; minimum, 32°F on several days during winter months.

Temperature of water, in degrees Fahrenheit, water year October 1965 to September 1966

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.....	47	47	48	52	52	52	52	52	52	52	52	52	52	52	52	50	49	49	46	46	45	46	46	47	46	46	46	45	46	47	46	49
Minimum.....	46	46	47	47	52	51	50	51	50	51	51	50	52	50	50	49	49	46	46	46	44	44	45	46	45	45	44	44	44	46	45	47
November																																
Maximum.....	47	46	46	46	46	46	46	46	45	45	44	44	44	44	44	44	44	44	43	43	43	42	41	42	42	41	40	38	36	36	-	43
Minimum.....	46	45	45	45	45	46	45	45	44	44	44	44	43	43	43	42	42	43	43	43	42	40	40	41	41	40	38	36	36	36	-	42
December																																
Maximum.....	36	36	36	37	37	37	37	37	38	38	38	38	38	38	35	34	33	33	33	33	33	33	33	33	33	33	33	33	33	33	34	35
Minimum.....	36	36	36	36	36	36	36	36	37	37	38	38	38	35	34	33	33	33	33	32	32	32	32	32	32	32	32	32	32	33	33	34
January																																
Maximum.....	34	35	35	35	36	36	36	36	35	35	35	35	35	35	35	34	33	33	33	33	32	33	33	33	32	32	32	32	32	32	32	34
Minimum.....	33	33	33	34	35	35	35	35	35	35	35	35	35	35	34	33	33	33	33	32	32	32	32	32	32	32	32	32	32	32	32	33
February																																
Maximum.....	32	34	34	34	35	35	35	35	34	33	33	33	34	34	34	34	33	34	35	36	36	36	37	37	36	35	34	34	-	-	-	34
Minimum.....	32	32	34	34	34	35	35	34	33	33	33	33	33	33	33	33	33	33	34	35	35	35	36	36	35	34	33	33	-	-	-	34
March																																
Maximum.....	36	35	34	33	34	35	38	39	40	40	40	42	43	43	43	42	36	37	38	39	39	34	38	40	43	45	47	48	48	47	48	40
Minimum.....	36	34	32	32	33	34	35	38	39	40	39	40	42	42	39	36	34	34	37	37	34	33	33	34	37	40	42	42	42	43	43	37
April																																
Maximum.....	49	48	46	46	46	47	47	49	49	49	46	46	49	50	51	53	53	47	40	43	47	45	49	52	53	52	48	49	52	50	-	48
Minimum.....	45	45	42	38	37	40	42	42	46	46	43	43	43	44	46	49	46	40	35	35	42	43	41	45	46	44	41	41	46	44	-	43
May																																
Maximum.....	53	56	57	58	58	59	59	58	54	52	50	49	50	50	52	52	56	50	53	54	54	52	50	54	57	59	61	60	59	59	56	55
Minimum.....	45	45	52	54	54	54	55	54	52	50	49	47	49	50	49	52	46	44	45	49	51	48	44	47	49	54	57	57	57	56	52	51
June																																
Maximum.....	55	55	56	53	53	53	53	55	55	55	57	57	53	55	55	55	56	56	58	57	58	58	58	59	61	65	68	62	60	59	-	57
Minimum.....	50	51	52	50	47	50	51	49	51	51	50	48	50	50	51	53	52	52	53	53	55	55	54	57	55	58	60	60	56	58	-	53
July																																
Maximum.....	60	62	63	65	67	62	62	64	63	66	67	64	65	63	65	63	66	70	67	69	70	68	69	69	70	70	69	68	68	66	65	66
Minimum.....	58	58	58	59	60	55	56	58	59	62	66	60	58	58	58	61	60	58	64	65	66	65	65	66	67	65	63	63	64	63	62	61
August																																
Maximum.....	67	65	64	64	64	66	66	66	66	66	66	66	65	65	66	66	67	66	66	65	63	59	64	65	66	65	64	60	59	59	59	64
Minimum.....	62	60	62	59	61	60	60	61	61	61	62	61	56	59	60	61	62	65	63	61	56	56	58	59	60	62	56	54	57	56	58	60
September																																
Maximum.....	59	55	54	56	57	56	57	58	58	57	57	58	59	57	56	58	58	60	61	62	62	60	61	61	60	58	53	54	55	55	-	58
Minimum.....	55	53	50	51	53	54	53	54	54	55	55	53	55	56	50	54	55	58	56	56	57	56	58	59	58	53	51	50	51	51	-	54

Table 13.--Discharge measurements at miscellaneous sites

Measurements during water year, October 1965 to September 1966

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	-	11- 8-65 5- 5-66	0.9 .3
1670 N	Corner Creek	NE¼SE¼ sec. 4, T. 4 S., R. 1 E., 2.4 miles southeast of Draper	-	11- 8-65 4- 4-66 4-26-66	.7 2.4 2.0
1670 P	Draper Irrigation Company Ditch	NE¼SW¼ sec. 28, T. 3 S., R. 1 E., at 12300 South, 1 mile east of Draper	-	11- 8-65 5-25-66	.1 14.0
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	-	4-27-66	2.9
1670 R	Keystone Gulch	NE¼SE¼ sec. 29, T. 3 S., R. 2 W., at Utah Highway 111, 0.5 mile east of Lark	-	11- 8-65	3.7
1670 T	Bells Canyon Irrigation Company Ditch	NE¼NW¼ sec. 14, T. 3 S., R. 1 E., at Parshall flume in ditch near Granite	-	5-24-66	11
1672 C	Bingham Canal	NE¼NE¼ sec. 16, T. 3 S., R. 2 W., at bridge on Utah Highway 111, 2 miles east of Copperton	-	11- 8-65	2
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	-	4-29-66 5-12-66	0 31.4
1675 C	North Despain Ditch	SW¼NE¼ sec. 12, T. 3 S., R. 1 E., at head	-	11-10-65	.2
1675 G	Sandy Ditch	NE¼NE¼ sec. 11, T. 3 S., R. 1 E., at head	-	11-10-65	.2
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	-	11- 8-65 4- 4-66 5-10-66 5-25-66	1.3 2.0 8.3 7.6
1675 R	Willow Creek	SE¼NE¼ sec. 2, T. 3 S., R. 1 E., at bridge on Danish Road near Little Cottonwood Creek treatment plant	-	4- 4-66 4-26-66 5-10-66	1.8 1.8 3.4
1675 S	Little Cottonwood Creek	SW¼ sec. 7, T. 3 S., R. 2 E. (unsurveyed), 150 ft below powerplant	-	10-13-65	4.1
1675 T	Little Cottonwood Creek	NE¼SE¼ sec. 12, T. 3 S., R. 1 E., above south Despain Ditch	-	10-13-65	3.2
1675 U	Little Cottonwood Creek	SW¼NE¼ sec. 12, T. 3 S., R. 1 E., below North Despain Ditch	-	11-10-65	.9
1675 V	Little Cottonwood Creek	SE¼NW¼ sec. 12, T. 3 S., R. 1 E., 0.5 mile above gaging station 1675	-	10-13-65 11-10-65	3.3 .7
1685 P	Hughes Creek	NE¼NE¼ sec. 23, T. 2 S., R. 1 E., above culvert on Wasatch Boulevard, 2.5 miles southeast of Holladay	-	4- 4-66 4-26-66	1.0 1.2
1685 R	Ferguson Creek	NE¼SW¼ sec. 25, T. 2 S., R. 1 E., above Wasatch Boulevard	-	5-10-66 5-25-66	2.2 .1
1685 S	Tolcats Canyon	SW¼NE¼ sec. 14, T. 2 S., R. 1 E., at Wasatch Boulevard	-	4- 4-66 4-26-66 5-25-66	1.0 1.1 .1
1685 T	Big Cottonwood Creek	NE¼SE¼ sec. 20, T. 2 S., R. 2 E., 100 ft below bridge at Maxfield Lodge	-	10-11-65	52.1
1685 U	Big Cottonwood Creek	SE¼SE¼ sec. 20, T. 2 S., R. 2 E., 500 ft below dam at Storm Mountain	-	10-14-65	7.3
1685 V	Big Cottonwood Creek	SE¼SW¼ sec. 20, T. 2 S., R. 2 E., at Stairs powerplant	-	10-14-65	7.8
1685 W	Big Cottonwood Creek	SW¼SW¼ sec. 20, T. 2 S., R. 2 E., at the Birches picnic ground	-	10-14-65	10.3

Table 13.--Discharge measurements at miscellaneous sites--Continued

Measurements during water year, October 1965 to September 1966

Station No.	Stream	Location	Drainage area (sq.mi.)	Measurements	
				Date	Discharge (cfs)
1685 X	Big Cottonwood Creek	SE¼SW¼ sec. 19, T. 2 S., R. 1 W., 0.1 mile above Oak Ridge picnic ground, and 1 mile above Wasatch Boulevard	-	11-10-65	5.1
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	10- 5-65 5-13-66	4.3 42.5
1719 K	Emigration Creek	NE¼NE¼ sec. 11, T. 1 S., R. 1 E., below Emigration Tunnel Springs	-	11-10-65	1.0
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	-	12-13-65 1-11-66 6-30-66	12.0 8.2 7.6

STREAMFLOW RECORDS

Tables 14-61 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.

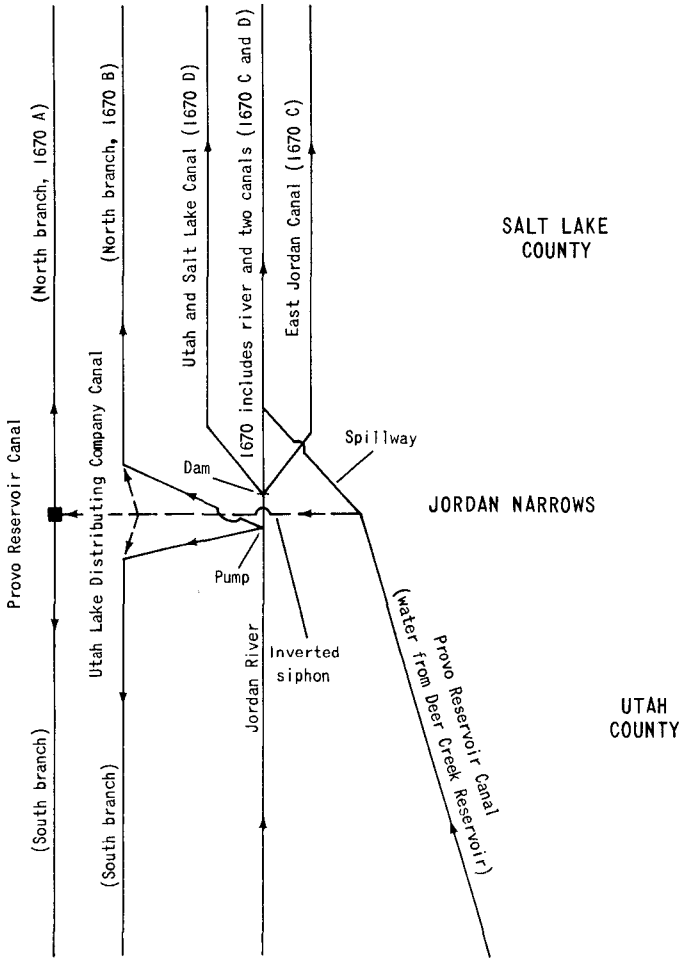


Figure 2.— Schematic diagram showing relation of flows in Jordan Narrows.

Table 14.--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, 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 24.) 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 1966 for pipeline, October 1963 to September 1966 for all others. Records of water delivered from Deer Creek Reservoir 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.

Correction.--The total discharge of north branch of Provo Reservoir Canal during the water year 1964-65 was 31,870 acre-feet instead of the 35,870 acre-feet shown in Utah Basic-Data Release No. 12.

Cooperation.--Records of water from Deer Creek Reservoir 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 1965 to September 1966

	Oct.	Nov.	Dec.	Calendar year 1965	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year 1966
1590 A. Salt Lake City aqueduct														
To users between county line and treatment plant	5	2	0	423	3	5	4	20	62	131	468	639	328	1,670
To treatment plant	724	762	429	7,360	924	956	632	973	1,270	1,090	4,740	5,590	1,870	19,960
Total	729	764	429	7,780	927	961	636	993	1,330	1,220	5,210	6,230	2,200	21,630

Note.--Total discharge does not include leakage from the aqueduct and spill to Little Cottonwood Creek of about 1,000 - 1,200 acre-feet per year.

1670 A. Provo Reservoir Canal (north branch)														
	2,530	0	0	34,400	0	0	0	2,390	6,900	5,940	5,340	2,500	678	26,280
1670 B. Utah Lake Distributing Company Canal (north branch)														
From Deer Creek Reservoir	562	0	0	5,110	0	0	0	514	1,120	1,080	1,100	1,150	1,080	6,610
From Jordan River	1,340	0	0	20,810	0	0	0	1,560	4,000	3,870	3,860	3,960	3,870	22,460
Total	1,900	0	0	25,920	0	0	0	2,070	5,120	4,950	4,960	5,110	4,950	29,060
1726.5 C. Kennecott Copper Corporation pipeline from Tooele County														
Water year 1964-65	--	--	--	--	--	--	--	--	930	840	830	810	800	--
Water year 1965-66	870	860	910	--	950	870	970	930	900	790	780	780	780	10,400

Table 15.--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 1966. 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 1966 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.--53 years (1913-66) 351 cfs (254,100 acre-ft per year).

Extremes.--1904, 1913-66: 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 14 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	162	23	21	47	191	267	50	616	622	796	710	652
2	151	23	21	46	186	250	49	637	654	788	711	646
3	149	23	21	47	170	281	59	658	659	720	688	633
4	168	24	21	46	170	284	26	663	699	721	701	624
5	181	24	21	45	186	287	59	700	707	720	717	632
6	184	23	21	45	184	290	112	714	699	749	709	622
7	198	23	21	45	182	290	151	696	701	756	721	623
8	228	22	21	45	184	301	181	717	678	754	719	590
9	242	23	21	45	198	310	185	710	702	748	698	593
10	237	23	21	45	198	298	146	561	683	736	721	621
11	234	22	21	45	211	304	135	499	693	721	714	599
12	315	23	21	46	204	307	172	556	684	720	718	587
13	325	23	21	46	216	298	203	565	700	712	750	571
14	326	23	21	46	221	298	227	541	705	697	738	512
15	127	22	21	46	216	256	242	531	705	656	736	398
16	30	22	21	45	226	45	256	555	709	694	735	394
17	23	22	21	45	229	32	241	593	693	692	733	422
18	23	22	21	45	226	26	162	627	695	700	727	442
19	24	23	21	44	229	18	132	664	731	718	727	409
20	24	23	21	44	231	19	87	652	742	739	725	383
21	24	22	21	44	239	21	108	647	757	713	735	413
22	23	22	21	44	242	23	181	627	773	702	734	497
23	23	22	21	44	247	21	278	649	790	707	710	518
24	23	22	22	44	253	19	324	637	770	715	697	557
25	61	21	22	44	253	15	371	635	773	717	664	577
26	124	21	22	44	253	24	443	638	782	709	668	541
27	124	21	22	44	264	19	480	628	777	705	698	492
28	124	21	22	44	267	19	548	637	775	716	702	482
29	123	21	22	107	----------	21	580	640	777	715	702	466
30	123	21	23	170	----------	25	602	632	779	710	696	417
31	52	----------	38	179	----------	37	----------	617	----------	711	690	----------
Total	4,175	670	676	1,716	6,076	4,705	6,790	19,442	21,614	22,357	22,094	15,913
Mean	135	22.3	21.8	55.4	217	152	226	627	720	721	713	530
Ac-ft	8,280	1,330	1,340	3,400	12,050	9,330	13,470	38,560	42,870	44,340	43,820	31,560

Calendar year 1965: Max 738 Min - Mean 232 Ac-ft 167,900
Water year 1965-66: Max 796 Min 15 Mean 346 Ac-ft 250,400

Table 16.--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. R 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 1966 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.--1963-66: Maximum daily discharge, 930 cfs July 1, 1966; minimum daily, 31 cfs Mar. 11, 1964.

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 17). 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 18). 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	254	50	46	47	45	51	60	709	721	930	856	795
2	243	50	46	47	45	49	60	724	756	913	851	791
3	251	50	47	47	45	49	60	755	766	848	830	788
4	248	51	47	47	45	49	59	693	808	857	843	768
5	260	51	47	47	48	48	95	783	815	858	866	777
6	256	51	47	47	49	54	155	803	807	891	857	769
7	277	50	47	47	47	52	194	789	813	900	862	761
8	316	49	47	47	47	51	197	813	793	898	865	731
9	326	50	47	48	46	42	177	825	828	889	838	730
10	322	49	47	48	45	40	139	713	800	880	860	754
11	325	49	49	48	45	49	129	608	806	871	850	734
12	369	50	49	48	45	49	163	675	797	862	856	721
13	367	50	48	48	44	49	192	678	816	854	890	704
14	377	50	48	48	45	57	218	659	828	846	879	662
15	176	50	48	47	45	56	233	642	828	799	881	530
16	78	50	48	46	45	46	300	664	832	831	878	418
17	50	50	47	46	46	52	297	682	817	843	873	446
18	46	50	46	46	49	50	224	741	830	845	868	465
19	44	50	46	46	47	49	177	767	857	857	868	433
20	44	50	46	46	47	47	120	766	866	878	867	497
21	43	50	44	46	46	49	140	761	889	856	876	528
22	43	50	43	45	46	60	240	736	907	847	877	603
23	43	50	48	49	47	55	327	761	927	856	851	616
24	42	46	49	48	47	54	378	742	910	860	839	578
25	85	46	49	45	47	54	430	742	918	860	803	628
26	141	47	49	45	49	54	501	745	923	860	815	601
27	114	47	49	46	49	55	560	741	912	848	840	554
28	100	46	49	46	49	54	634	752	906	860	846	579
29	100	46	49	45	----------	54	676	755	908	857	846	560
30	100	46	49	45	----------	55	699	747	911	855	842	522
31	59	----------	50	45	----------	60	----------	737	----------	855	835	----------
Total	5,499	1,474	1,471	1,446	1,300	1,593	7,834	22,708	25,295	26,764	26,508	19,043
Mean	177	49.1	47.5	46.6	46.4	51.4	261	733	843	863	855	635
Ac-ft	10,910	2,920	2,920	2,870	2,580	3,160	15,540	45,040	50,170	53,090	52,580	37,770

Calendar year 1965 : Max - Min - Mean - Ac-ft -
Water year 1965-66 : Max 930 Min 40 Mean 386 Ac-ft 279,600

Table 17.--1672. Jordan River at 9400 South, near South Jordan

Location.--Lat 40°34'50", long 110°55'05", on line between sec. 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 1966.

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

Extremes.--1965-66: Maximum daily discharge, 400 cfs Mar. 9, 1966; minimum daily, 1.9 cfs Apr. 21-25, 1966.

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, July to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											25	9.1
2											19	11
3											16	20
4											12	25
5											6.5	93
6											5.0	160
7											5.8	87
8											5.0	54
9											7.6	42
10											12	38
11											9.4	39
12											11	31
13											16	26
14											19	25
15											16	27
16											19	39
17											19	46
18											33	72
19											48	84
20										16	49	88
21										12	86	40
22										5.4	50	73
23										5.4	32	66
24										5.4	24	46
25										10	23	40
26										10	16	36
27										8.0	14	37
28										6.9	8.9	40
29										6.2	2.8	55
30					----------					14	6.5	70
31		----------			----------		----------		----------	22	8.7	----------
Total											625.2	1,519.1
Mean											20.2	50.6
Ac-ft											1,240	3,010

Calendar year	: Max	Min	Mean	Ac-ft
Water year	: Max	Min	Mean	Ac-ft

Table 17.--1672. Jordan River at 9400 South, near South Jordan--Continued

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	61	29	26	50	108	340	43	4.3	11	11	12	13
2	60	29	26	47	150	324	39	8.0	12	12	7.6	14
3	51	27	26	46	199	348	43	4.3	16	11	27	13
4	49	27	26	44	206	354	29	2.2	14	15	18	11
5	53	27	26	42	219	354	5.0	2.8	14	12	13	12
6	53	26	26	42	236	364	3.7	2.2	14	15	22	8.9
7	47	26	26	41	235	391	4.0	2.5	16	12	16	13
8	48	26	26	41	231	398	28	2.8	16	7.6	15	8.4
9	46	26	26	40	244	400	63	9.8	16	8.4	15	8.4
10	48	26	27	40	245	385	64	24	13	15	12	6.5
11	54	26	27	39	249	381	61	24	16	11	17	6.2
12	46	26	28	39	253	387	63	17	12	9.8	12	5.8
13	49	26	29	38	258	377	67	17	16	12	12	5.0
14	51	26	28	38	269	368	65	13	14	14	13	12
15	56	26	26	39	267	356	68	7.3	15	12	15	27
16	46	26	26	38	276	130	34	6.2	18	9.4	12	24
17	39	35	26	38	284	67	2.2	2.8	12	13	10	12
18	38	30	26	38	286	57	2.8	6.2	8.0	15	12	15
19	36	27	26	37	296	51	2.5	5.0	9.4	14	12	5.8
20	35	29	26	37	296	45	2.2	8.9	13	15	12	5.8
21	34	28	26	35	305	42	1.9	8.0	15	19	16	3.4
22	34	27	26	34	309	39	1.9	7.6	12	21	17	2.5
23	33	28	26	36	316	41	1.9	10	15	14	14	38
24	31	26	26	35	318	38	1.9	5.0	15	8.4	11	97
25	31	26	25	36	320	35	1.9	2.8	16	15	15	123
26	31	26	25	36	324	37	2.2	8.4	15	19	8.0	65
27	31	26	26	36	328	37	2.5	12	24	14	6.2	11
28	31	26	26	36	334	33	2.8	6.5	19	12	6.2	12
29	30	26	31	46	----------	25	3.1	10	26	11	8.0	12
30	29	27	87	76	----------	24	2.8	11	16	14	8.9	8.0
31	30	----------	51	81	----------	31	----------	12	----------	14	11	----------
Total	1,311	812	904	1,301	7,361	6,259	712.3	263.6	448.4	405.6	405.9	598.7
Mean	42.3	27.1	29.2	42.0	263	202	23.7	8.50	14.9	13.1	13.1	20.0
Ac-ft	2,600	1,610	1,790	2,580	14,600	12,400	1,410	523	889	804	805	1,190

Calendar year 1965: Max - Min - Mean - Ac-ft -
Water year 1965-66: Max 400 Min 1.9 Mean 56.9 Ac-ft 41,200

Table 18.--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 1966.

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

Extremes.--1965-66: 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, July to September 1965

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											214	136
2											208	136
3											195	150
4											175	146
5											153	258
6											140	410
7											138	248
8											132	191
9											141	188
10											146	199
11											134	199
12											131	190
13											146	182
14											163	180
15											157	184
16										134	166	223
17										150	165	221
18										182	190	197
19										217	217	186
20										178	231	190
21										163	288	190
22										150	240	188
23										158	160	180
24										149	153	155
25										175	149	152
26										173	144	128
27										166	149	114
28										147	144	124
29										125	126	160
30					----------					155	129	172
31		----------			----------		----------		----------	203	132	----------
Total											5,156	5,577
Mean											166	186
Ac-ft											10,230	11,060

Calendar year	: Max	Min	Mean	Ac-ft	
Water year	: Max	Min	Mean	Ac-ft	

Table 18.--1673. Jordan River at 5800 South, near Murray--Continued

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	177	126	124	155	191	414	125	91	126	125	140	160
2	165	122	124	141	212	396	125	96	124	125	128	160
3	160	121	122	142	261	423	131	87	129	125	146	150
4	158	121	124	141	275	418	119	104	134	125	152	136
5	157	122	124	141	288	423	92	90	138	125	138	141
6	153	122	122	142	310	428	91	91	136	126	146	136
7	152	122	121	144	324	459	93	91	140	132	146	146
8	152	121	119	141	314	493	121	96	136	118	147	146
9	153	121	119	140	328	503	122	117	134	117	146	138
10	153	121	122	141	338	468	134	161	128	136	132	131
11	163	119	126	141	324	468	134	175	132	141	132	140
12	150	119	124	141	331	483	131	172	128	142	128	146
13	141	121	125	141	328	468	131	178	141	132	129	136
14	136	122	122	141	342	459	129	172	138	126	132	175
15	153	124	118	142	338	450	134	141	129	121	134	186
16	147	125	117	140	338	217	106	140	132	119	129	173
17	141	138	113	136	350	138	68	136	132	121	128	163
18	141	140	112	135	354	126	76	128	126	124	131	175
19	141	136	113	135	378	121	80	126	122	125	131	172
20	140	136	115	134	378	114	81	126	117	129	136	153
21	138	136	118	129	387	113	79	128	115	132	146	149
22	138	135	119	136	396	109	78	131	121	135	152	136
23	138	135	118	140	410	109	81	134	128	132	150	155
24	136	135	118	140	405	108	81	126	121	128	147	195
25	136	130	122	134	410	106	80	121	120	132	153	231
26	135	130	119	136	414	109	78	118	120	129	134	204
27	160	130	118	136	410	108	86	124	125	132	131	180
28	168	125	117	135	414	105	81	117	130	131	140	155
29	165	125	126	140		105	85	117	130	125	146	158
30	160	125	191	170	----------	108	90	124	130	126	132	157
31	138	----------	163	180	----------	114	----------	129	----------	134	138	----------
Total	4,645	3,805	3,835	4,390	9,548	8,663	3,042	3,887	3,862	3,970	4,300	4,783
Mean	150	127	124	142	341	279	101	125	129	128	139	159
Ac-ft	9,210	7,550	7,610	8,710	18,940	17,180	6,030	7,710	7,660	7,870	8,530	9,490

Calendar year 1965 : Max - Min - Mean - Ac-ft -
Water year 1965-66: Max 503 Min 68 Mean 161 Ac-ft 116,500

Note.--No gage-height record Nov. 23-29, June 25 to July 5; discharge estimated.

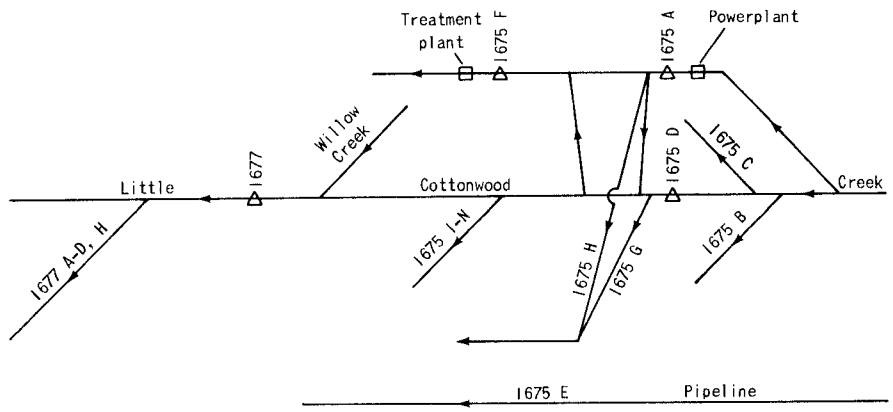


Figure 3.—Schematic diagram showing relation of flows in Little Cottonwood Creek basin. Diversions represented by 1675 I-N and 1677 A-D, H include those from both sides of the creek. Canals 1677 A-D at times are supplied with water from the East Jordan and the Jordan and Salt Lake City Canals.

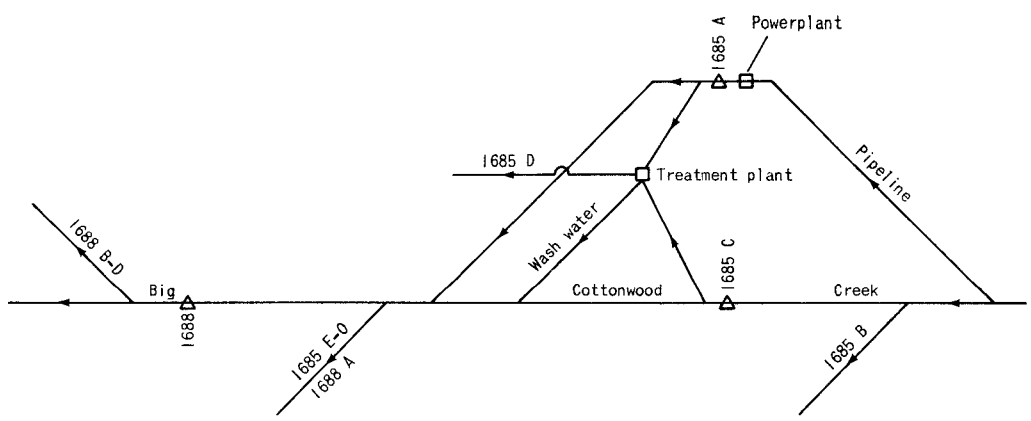


Figure 4.—Schematic diagram showing relation of flows in Big Cottonwood Creek basin. Diversions represented by 1685 E-O and 1688 A include those from both sides of the creek. At times they are supplied with water from the East Jordan Canal and well (D-2-1)14ccd-2. Canals 1688 B-D at times are supplied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

Table 19.--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 1966 (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, 1915-66: Maximum daily discharge, 762 cfs June 11, 1921; minimum daily, 4.2 cfs Jan. 10, 1934.

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 20-23.)

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	23	21	17	16	15	52	65	234	90	25	25
2	37	23	21	16	15	16	58	80	207	88	39	26
3	38	23	23	17	14	15	55	104	203	82	31	22
4	43	22	21	17	15	15	54	132	194	75	38	21
5	36	22	21	17	15	16	52	164	171	69	29	20
6	37	22	21	17	15	16	52	192	165	64	28	19
7	37	22	21	17	15	16	52	238	163	60	27	19
8	39	22	21	18	15	16	56	274	170	56	26	17
9	38	19	21	17	15	16	58	341	169	57	24	15
10	37	20	22	17	15	16	60	336	177	55	24	15
11	35	20	19	17	14	16	58	219	185	53	24	18
12	33	20	19	17	14	16	55	163	170	52	23	17
13	33	20	19	17	14	17	53	143	153	54	22	16
14	31	20	19	17	14	19	51	129	160	46	22	16
15	28	22	19	16	14	19	52	117	170	44	21	21
16	28	22	20	12	14	17	56	126	172	43	20	18
17	28	23	19	13	14	16	61	143	166	42	23	20
18	28	21	17	14	14	14	61	152	156	43	24	19
19	27	18	17	15	14	15	59	168	155	41	24	18
20	27	18	18	16	13	15	55	191	149	39	23	16
21	28	17	18	15	13	14	54	220	148	40	23	16
22	27	18	20	17	13	17	54	240	145	38	22	15
23	27	18	17	16	15	17	55	205	122	38	22	15
24	27	17	18	16	15	18	55	198	112	36	21	16
25	26	19	18	16	15	21	55	214	104	39	21	16
26	25	18	18	16	15	22	57	237	97	43	20	15
27	25	18	18	16	15	21	57	272	95	36	21	17
28	25	19	18	15	15	24	57	276	93	31	20	17
29	25	19	21	15	----------	25	58	283	93	36	19	16
30	24	18	20	15	----------	37	62	288	90	36	19	16
31	24	----------	20	15	----------	30	----------	267	----------	36	22	----------
Total	964	603	605	496	405	567	1,674	6,177	4,588	1,562	747	537
Mean	31.1	20.1	19.5	16.0	14.5	18.3	55.8	199	153	50.4	24.1	17.9
Ac-ft	1,910	1,200	1,200	984	803	1,120	3,320	12,250	9,100	3,100	1,480	1,070

Calendar year 1965: Max 472 Min 12 Mean 77.4 Ac-ft 56,030
Water year 1965-66: Max 341 Min 12 Mean 51.9 Ac-ft 37,540

Table 20.--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 1966. 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.--1963-66: Maximum daily discharge, about 37 cfs (capacity of pipeline) in most years; minimum daily, 7 cfs Jan. 25, Feb. 3, 15, 1964.

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 24, 25.)

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

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	19	18	14	11	12	34	34	34	35	15	19
2	27	19	18	13	11	12	34	34	34	36	30	20
3	26	19	18	14	11	12	34	34	34	36	22	17
4	31	18	18	14	12	12	34	34	34	36	29	16
5	25	18	18	14	12	12	34	34	34	36	21	15
6	26	18	18	14	12	12	34	34	34	34	21	14
7	27	18	18	14	12	12	34	35	34	33	20	14
8	30	18	18	15	12	12	34	34	34	32	19	13
9	29	15	18	14	12	12	34	34	34	34	18	11
10	28	16	18	14	12	12	34	34	34	31	18	11
11	25	16	16	14	11	12	34	34	34	30	17	14
12	24	16	16	14	11	13	34	34	34	30	17	13
13	24	16	16	14	11	14	34	34	34	33	16	12
14	25	16	16	14	11	16	34	34	34	25	16	12
15	23	17	16	13	11	16	34	34	34	24	15	17
16	23	18	17	9	11	14	34	34	34	25	15	14
17	23	19	16	10	11	13	34	34	34	24	18	16
18	23	17	14	11	11	11	34	34	34	25	19	15
19	22	15	14	12	11	12	34	34	34	24	19	14
20	22	15	15	13	10	12	34	34	35	24	18	12
21	23	14	15	12	10	11	34	34	35	26	18	12
22	22	15	17	14	10	14	34	34	34	24	17	11
23	22	15	14	13	12	14	34	34	34	24	17	11
24	22	14	15	13	12	15	34	34	35	23	16	12
25	22	14	15	13	12	18	34	34	37	26	16	12
26	21	14	15	13	12	19	34	24	36	31	15	11
27	21	15	15	13	12	18	34	32	36	24	16	13
28	21	16	15	12	12	19	34	32	36	20	15	13
29	21	16	18	12	----------	17	34	32	36	25	14	12
30	20	15	17	12	----------	28	34	34	36	26	14	12
31	20	----------	17	12	----------	18	----------	34	----------	26	17	----------
Total	749	491	509	403	318	444	1,020	1,039	1,036	882	558	408
Mean	24.2	16.4	16.4	13.0	11.4	14.3	34.0	33.5	34.5	28.5	18.0	13.6
Ac-ft	1,490	974	1,010	799	631	881	2,020	2,060	2,050	1,750	1,110	809

Calendar year 1965: Max 35 Min 8 Mean 22.3 Ac-ft 16,180
Water year 1965-66 : Max 37 Min 9 Mean 21.5 Ac-ft 15,580

Note.--Discharge estimated for most days Apr. 1 to June 19, when pipeline was flowing at or near capacity.

Table 21.--1675 B, C. Irrigation diversions from Little Cottonwood Creek above the gage (1675 D)

Locations.--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 1966. Records of individual diversions for previous years in the files of the Salt Lake City Water Department.

Extremes.--1963-66: 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.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.1	0.1	0.2	0.3	0.2	1.3	0.5	13	2.9	2.0	1.3
2	.2	.1	.1	.2	.3	.2	1.3	.5	13	2.7	2.0	1.3
3	.2	.1	.1	.2	.3	.2	.8	1.5	13	2.7	1.9	1.2
4	.2	.1	.1	.2	.3	.2	.8	1.3	10	2.5	1.9	1.2
5	.2	.1	.1	.2	.3	.2	.5	6.6	8.8	2.2	1.7	1.2
6	.2	.1	.1	.2	.3	.2	.9	5.3	8.6	2.5	1.7	1.2
7	.2	.1	.1	.2	.3	.2	.8	9.8	6.6	2.2	1.7	1.2
8	.2	.1	.1	.2	.3	.2	.9	9.8	6.8	2.0	1.7	.5
9	.2	.1	.1	.2	.3	.2	.9	9.8	9.0	2.1	1.7	.5
10	.2	.1	.1	.2	.3	.2	.9	9.2	9.8	2.1	1.7	.5
11	.1	.1	.1	.2	.3	.2	2.3	7.1	9.3	2.1	1.7	.5
12	.1	.1	.1	.2	.3	.2	2.3	11	8.5	2.1	1.7	.5
13	.1	.1	.1	.2	.3	.2	2.3	10	8.2	2.2	1.8	.5
14	.1	.1	.1	.2	.3	.2	.8	9.5	7.3	2.0	1.8	.5
15	.1	.1	.1	.2	.3	.2	.8	5.9	6.8	2.1	1.8	.5
16	.1	.1	.1	.2	.3	.2	.8	5.2	6.4	2.0	1.3	.5
17	.1	.1	.1	.2	.3	.2	1.5	5.1	8.6	2.0	1.3	.5
18	.1	.1	.1	.2	.3	.2	1.5	5.5	8.7	2.0	1.3	.5
19	.1	.1	.1	.2	.3	.2	1.8	6.4	8.7	2.2	1.3	.5
20	.1	.1	.1	.2	.3	.2	.4	6.6	8.3	2.1	1.3	.5
21	.1	.1	.1	.2	.3	.2	.4	6.7	7.6	2.3	1.3	.5
22	.1	.1	.1	.2	.3	.2	.2	7.1	6.8	2.2	1.3	.5
23	.1	.1	.1	.2	.3	.2	.2	6.4	6.6	2.1	1.3	.5
24	.1	.1	.1	.2	.3	.2	.2	8.6	6.0	2.1	1.3	.5
25	.1	.1	.1	.2	.3	.2	.2	7.7	5.2	2.1	1.3	.5
26	.1	.1	.1	.2	.3	.2	.5	9.6	4.9	2.1	1.3	.5
27	.1	.1	.1	.2	.3	.2	.5	10	4.9	2.0	1.2	.5
28	.1	.1	.1	.2	.3	.2	.6	12	3.2	1.9	1.2	.5
29	.1	.1	.1	.2	----------	.2	.8	14	3.0	1.8	1.2	.5
30	.1	.1	.1	.2	----------	.2	.6	14	3.3	1.5	1.3	.5
31	.1	----------	.1	.2	----------	.2	----------	14	----------	1.5	1.3	----------
Total	4.1	3.0	3.1	6.2	8.4	6.2	27.8	236.7	230.9	66.3	47.3	20.1
Mean	0.13	0.10	0.10	0.20	0.30	0.20	0.93	7.64	7.70	2.14	1.53	0.67
Ac-ft	8	6	6	12	17	12	55	469	458	132	94	40

Calendar year 1965 : Max 19 Min 0 Mean 3.05 Ac-ft 2,210
Water year 1965-66 : Max 19 Min 0.1 Mean 1.81 Ac-ft 1,310

Table 22.--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 1966. 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.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	0.8	0.4	0.8	2.0	0.8	14	28	184	48	4.1	1.7
2	6.5	.8	.4	.8	1.2	1.2	20	43	157	45	3.7	1.2
3	8.1	.8	2.0	.8	.8	.8	18	66	153	39	3.3	.8
4	7.7	.8	.8	.8	.8	.8	17	94	147	32	3.3	.6
5	6.9	.8	.8	.8	.6	1.0	15	121	125	27	2.6	.6
6	6.9	.8	.6	.8	.6	1.0	15	150	119	23	1.7	.6
7	6.1	.8	.6	.8	.8	1.0	15	190	119	21	1.7	.6
8	5.7	.8	.8	.8	.6	1.0	18	227	126	18	1.4	.4
9	5.7	.8	.8	.8	.6	1.0	21	294	123	17	1.4	.4
10	5.7	.8	1.0	.8	.6	1.0	22	290	130	18	1.4	.4
11	6.1	.8	1.0	.6	.6	1.0	19	175	138	17	1.4	.4
12	5.7	.8	1.0	.6	.6	.8	16	115	124	16	1.4	.4
13	5.3	.8	1.0	.6	.6	.6	14	96	107	15	1.2	.4
14	2.9	.8	.8	.6	.6	.4	14	82	115	15	.8	.6
15	2.0	1.7	.8	.6	.6	.4	15	74	125	14	.8	.8
16	1.7	.8	.6	.6	.6	.4	19	84	128	12	.8	.6
17	1.7	.8	.6	.6	.6	.4	23	101	120	12	.8	.6
18	1.4	.8	.6	.6	.6	.4	23	110	109	12	.8	.6
19	1.4	.8	.4	.6	.8	.4	21	125	108	11	.8	.6
20	1.4	.8	.6	.6	.8	.4	18	147	102	9.5	.8	.6
21	1.4	.6	.8	.6	.8	.4	17	176	102	8.1	.8	.6
22	1.2	.6	.8	.6	.6	.4	17	196	100	8.1	.8	.6
23	1.2	.6	.8	.6	.6	.4	18	162	78	7.7	.8	.6
24	1.2	.6	.8	.6	.6	.4	18	152	67	7.3	.8	.6
25	1.2	2.0	.6	.6	.6	.4	18	169	58	6.9	.8	.6
26	1.0	.8	.6	.6	.8	.4	20	200	52	6.5	.6	.6
27	1.0	.8	.6	.6	.8	.6	20	227	50	6.1	.6	.6
28	1.0	.6	.6	.6	.8	2.0	20	229	50	5.3	.8	.6
29	1.0	.6	.6	.6	----------	5.7	20	234	50	5.7	.6	.6
30	1.0	.6	.8	.6	----------	6.5	25	237	47	4.9	.6	.4
31	.8	----------	.8	.6	----------	9.5	----------	216	----------	4.5	.8	----------
Total	107.4	24.7	23.4	20.6	20.6	41.5	550	4,810	3,213	492.6	42.2	18.7
Mean	3.46	0.82	0.75	0.66	0.74	1.34	18.3	155	107	15.9	1.36	0.62
Ac-ft	213	49	46	41	41	82	1,090	9,540	6,370	977	84	37

Calendar year 1965: Max 419 Min 0.4 Mean 48.4 Ac-ft 35,070
Water year 1965-66: Max 294 Min 0.4 Mean 25.7 Ac-ft 18,570

Table 23.--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 1966. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Thirty-inch Cipolletti weir.

Extremes.--1963-66: Maximum daily discharge, 5.2 cfs July 23-31, 1965; minimum daily, 1.2 cfs Apr. 22, 1964.

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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.7	3.1	2.6	2.3	2.3	2.3	2.6	2.8	3.1	4.1	3.7	3.1
2	3.7	3.0	2.6	2.3	2.3	2.3	2.6	2.8	3.2	4.1	3.7	3.1
3	3.7	3.0	2.6	2.3	2.3	2.3	2.6	2.8	3.2	4.1	3.7	3.1
4	3.7	3.0	2.4	2.3	2.3	2.3	2.6	2.8	3.2	4.1	3.7	3.1
5	3.7	2.9	2.4	2.3	2.3	2.3	2.6	2.8	3.2	4.1	3.7	3.1
6	3.7	2.9	2.4	2.3	2.3	2.3	2.6	2.8	3.3	4.1	3.5	3.1
7	3.7	2.9	2.4	2.3	2.3	2.3	2.6	2.8	3.3	4.1	3.5	3.1
8	3.5	2.9	2.4	2.3	2.3	2.3	2.6	2.8	3.3	4.1	3.4	3.1
9	3.5	2.9	2.4	2.3	2.3	2.3	2.6	2.8	3.3	3.9	3.4	3.1
10	3.5	2.8	2.4	2.3	2.3	2.3	2.6	2.8	3.3	3.9	3.4	3.1
11	3.5	2.8	2.3	2.3	2.3	2.3	2.6	2.8	3.6	3.9	3.4	3.0
12	3.5	2.8	2.3	2.3	2.3	2.3	2.6	3.1	3.9	3.9	3.3	3.0
13	3.3	2.7	2.3	2.3	2.3	2.3	2.6	3.1	3.9	3.9	3.3	2.9
14	3.3	2.7	2.3	2.3	2.3	2.4	2.6	3.1	3.9	3.9	3.3	2.9
15	3.3	2.7	2.3	2.3	2.3	2.4	2.6	3.1	3.9	3.9	3.3	2.9
16	3.3	2.7	2.3	2.3	2.3	2.4	2.6	3.0	3.9	3.9	3.2	2.9
17	3.3	2.7	2.3	2.3	2.3	2.4	2.6	3.0	3.9	3.9	3.2	2.9
18	3.3	2.7	2.3	2.3	2.3	2.4	2.6	3.0	3.9	3.9	3.2	2.9
19	3.3	2.6	2.3	2.3	2.3	2.4	2.6	3.0	3.9	3.9	3.2	2.9
20	3.3	2.6	2.3	2.3	2.3	2.4	2.6	3.0	3.9	3.8	3.2	2.9
21	3.3	2.6	2.3	2.3	2.3	2.4	2.6	3.0	3.9	3.8	3.2	2.9
22	3.3	2.6	2.3	2.3	2.3	2.4	2.6	3.0	3.9	3.7	3.2	2.9
23	3.3	2.6	2.3	2.3	2.3	2.4	2.7	3.0	3.9	3.7	3.2	2.8
24	3.3	2.6	2.3	2.3	2.3	2.5	2.7	3.0	3.9	3.8	3.2	2.8
25	3.1	2.6	2.3	2.3	2.3	2.5	2.7	3.1	3.9	3.8	3.2	2.8
26	3.1	2.6	2.3	2.3	2.3	2.5	2.7	3.1	3.9	3.8	3.2	2.8
27	3.1	2.6	2.3	2.3	2.3	2.5	2.7	3.1	3.9	3.8	3.2	2.8
28	3.1	2.6	2.3	2.3	2.3	2.5	2.7	3.1	3.9	3.8	3.1	2.8
29	3.1	2.6	2.3	2.3	----------	2.5	2.7	3.1	3.9	3.6	3.1	2.8
30	3.1	2.6	2.3	2.3	----------	2.5	2.7	3.1	4.1	3.6	3.1	2.8
31	3.1	----------	2.3	2.3	----------	2.5	----------	3.1	----------	3.6	3.1	----------
Total	104.7	82.4	72.9	71.3	64.4	73.9	78.8	91.9	110.3	120.5	103.1	88.4
Mean	3.38	2.75	2.35	2.30	2.30	2.38	2.63	2.96	3.68	3.89	3.33	2.95
Ac-ft	208	163	145	141	128	147	156	182	219	239	204	175

Calendar year 1965 : Max 5.2 Min 2.3 Mean 3.48 Ac-ft 2,520
Water year 1965-66: Max 4.1 Min 2.3 Mean 2.91 Ac-ft 2,110

Table 24.--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 1966. Records for previous years in the files of Salt Lake City Water Department and the Metropolitan Water District of Salt Lake City.

Gage.--Two totalizing meters in treatment plant.

Extremes.--1963-66: Maximum daily discharge, 74 cfs July 3, 1964; no flow on several 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.1	16	9.2	11	0	8.3	16	9.3	65	35	12	7.7
2	2.8	16	9.2	8.8	0	8.7	16	17	76	36	17	8.3
3	1.7	16	9.2	11	3.8	8.3	12	20	43	36	9.7	5.8
4	14	15	9.2	11	8.5	8.3	13	17	51	36	17	4.2
5	14	15	9.2	10	8.5	8.8	12	29	54	36	8.2	3.5
6	15	15	9.2	11	2.3	8.8	9.6	35	55	35	8.4	2.9
7	19	15	9.2	11	3.8	9.3	12	44	42	33	7.5	2.2
8	22	14	9.3	11	8.5	8.6	4.0	38	28	32	7.0	2.0
9	22	12	9.6	11	8.4	8.9	4.2	16	44	30	6.8	1.1
10	20	13	9.3	11	8.4	8.9	4.0	16	22	27	6.8	1.1
11	17	11	8.2	11	8.0	9.0	3.6	16	40	26	6.3	3.6
12	15	5.5	8.0	11	8.2	10	3.6	16	41	26	6.5	2.7
13	15	5.4	8.0	11	8.0	11	4.7	15	42	29	5.4	1.7
14	17	5.6	8.2	11	8.1	12	4.6	30	41	21	4.8	2.7
15	15	6.4	8.1	9.5	7.9	12	8.5	32	44	20	4.4	7.5
16	8.3	7.7	8.3	6.0	7.7	10	6.5	33	44	21	4.6	12
17	7.2	8.6	7.2	6.9	7.8	10	8.1	32	40	20	7.0	14
18	5.2	6.9	6.0	7.9	7.4	7.8	8.5	33	45	21	7.2	13
19	11	5.0	6.2	8.8	7.4	8.4	6.2	30	33	20	7.1	8.0
20	15	4.9	6.3	9.5	7.3	8.8	7.8	31	46	20	7.0	1.8
21	8.5	4.0	9.4	9.0	7.1	7.8	8.6	33	40	20	6.3	1.7
22	13	8.7	14	10	7.0	10	7.8	21	36	17	5.9	1.4
23	19	7.2	11	9.6	8.7	11	12	23	35	17	5.1	1.1
24	19	6.0	8.7	9.7	8.4	11	13	33	41	17	4.4	2.1
25	18	5.9	8.7	9.8	8.3	14	11	44	37	16	4.2	1.9
26	18	7.8	8.4	9.6	8.9	16	12	20	36	21	3.7	1.8
27	18	12	8.3	9.4	9.1	15	13	12	36	24	4.0	4.2
28	18	8.4	10	9.2	8.3	16	14	0	36	20	3.6	4.2
29	17	8.7	13	9.2	----------	14	13	9.7	36	14	2.9	3.4
30	17	7.5	13	9.0	----------	24	14	42	36	14	2.9	3.4
31	16	----------	12	4.2	----------	14	----------	54	----------	14	5.4	----------
Total	443.8	290.2	283.6	298.1	195.8	338.7	283.3	801.0	1,265	754	209.1	131.0
Mean	14.3	9.67	9.15	9.62	6.99	10.9	9.44	25.8	42.2	24.3	6.75	4.37
Ac-ft	880	576	563	591	388	672	562	1,590	2,510	1,500	415	260

Calendar year 1965: Max 61 Min 0 Mean 15.7 Ac-ft 11,350
Water year 1965-66 : Max 76 Min 0 Mean 14.5 Ac-ft 10,510

Table 25.--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 (corrected) 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 1966. 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.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.9	3.2	3.2	3.2	3.2	3.2	6.4	13	95	21	8.3	7.9
2	8.4	3.2	3.2	3.2	3.2	3.2	11	15	106	20	16	7.9
3	8.7	3.2	3.2	3.2	3.2	3.2	11	23	99	20	9.1	9.7
4	8.2	3.2	3.2	3.2	3.2	3.2	11	34	88	20	16	9.7
5	8.3	3.2	3.2	3.2	3.2	3.2	9.7	36	85	18	9.1	9.3
6	7.8	3.2	3.2	3.2	3.2	3.2	9.7	50	70	13	9.1	7.9
7	7.8	3.2	3.2	3.2	3.2	3.2	9.7	97	78	13	9.2	8.6
8	7.2	3.2	3.2	3.2	3.2	3.2	13	103	89	12	8.9	7.5
9	6.9	3.2	3.2	3.2	3.2	3.2	13	109	89	12	8.6	5.8
10	7.1	3.2	3.2	3.2	3.2	3.2	14	99	90	12	8.4	5.8
11	7.3	3.2	3.2	3.2	3.2	3.2	14	80	91	12	8.4	5.8
12	7.7	3.2	3.2	3.2	3.2	3.2	13	94	86	11	8.4	5.8
13	7.7	3.2	3.2	3.2	3.2	3.2	12	67	75	10	8.4	5.4
14	7.1	3.2	3.2	3.2	3.2	3.2	12	86	77	9.6	8.4	6.3
15	5.8	3.2	3.2	3.2	3.2	3.2	12	48	81	9.3	8.4	5.7
16	3.4	3.2	3.2	3.2	3.2	3.2	5.5	42	86	9.1	8.2	5.7
17	3.4	3.2	3.2	3.2	3.2	3.2	5.2	51	82	8.8	8.2	5.7
18	3.4	3.2	3.2	3.2	3.2	3.2	5.0	51	82	8.7	8.1	5.7
19	3.4	3.2	3.2	3.2	3.2	3.2	5.0	85	79	8.2	8.1	5.7
20	3.4	3.2	3.2	3.2	3.2	3.2	4.7	89	78	8.0	8.1	5.7
21	3.4	3.2	3.2	3.2	3.2	3.2	4.7	98	72	7.9	8.1	5.7
22	3.4	3.2	3.2	3.2	3.2	3.2	4.7	101	70	7.3	8.1	5.7
23	3.4	3.2	3.2	3.2	3.2	3.2	4.7	100	63	7.1	8.1	5.6
24	3.4	3.2	3.2	3.2	3.2	3.2	5.1	96	50	7.1	7.9	5.6
25	3.4	3.2	3.2	3.2	3.2	3.2	5.5	106	47	7.1	7.9	5.6
26	3.4	3.2	3.2	3.2	3.2	3.2	5.5	107	47	7.1	7.9	5.6
27	3.4	3.2	3.2	3.2	3.2	3.2	5.7	115	40	6.7	7.9	5.7
28	3.4	3.2	3.2	3.2	3.2	3.2	6.3	114	20	9.5	7.9	5.7
29	3.4	3.2	3.2	3.2	----------	3.2	6.3	114	22	11	7.9	5.7
30	3.4	3.2	3.2	3.2	----------	3.2	6.3	114	20	9.5	7.9	5.7
31	3.4	----------	3.2	3.2	----------	3.2	----------	109	----------	9.5	7.9	----------
Total	170.3	96.0	99.2	99.2	89.6	99.2	251.7	2,446	2,157	345.5	272.9	194.2
Mean	5.49	3.20	3.20	3.20	3.20	3.20	8.39	79.0	71.9	11.1	8.80	64.7
Ac-ft	338	190	197	197	178	197	499	4,850	4,280	685	541	385

Calendar year 1965: Max 125 Min 0 Mean 23.0 Ac-ft 16,670
Water year 1965-66: Max 115 Min 3.2 Mean 17.3 Ac-ft 12,540

Table 26.--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 1966.

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

Extremes.--1963-66: 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 June to September 1,410 acre-ft of exchange water for irrigation was pumped from well (D-2-1)34bbb into the creek 50 ft below the station.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	0	2.5	0	4	0	18	34	46	24	14	5.4
2	15	0	2.5	0	5	0	25	46	21	26	22	8.0
3	15	0	2.8	0	4	0	25	57	30	21	6.5	7.5
4	5.1	0	3.0	0	2	0	18	68	27	15	38	6.1
5	5.1	0	2.8	0	1	0	18	64	16	9.5	6.1	5.7
6	4.5	0	2.3	0	4	0	20	76	14	7.5	5.7	3.9
7	1.7	0	2.5	0	4	0	22	86	26	7.5	5.4	4.2
8	1.5	0	2.2	0	1	0	29	100	38	5.1	5.4	4.2
9	1.7	.4	2.8	0	0	0	25	187	20	5.4	4.5	4.5
10	2.0	.1	3.9	0	0	0	29	199	38	12	3.9	4.2
11	2.6	.7	3.9	0	0	0	27	104	35	11	4.2	4.5
12	5.1	4.2	3.9	0	0	0	25	53	26	11	4.2	4.5
13	4.5	4.2	3.6	0	0	0	22	35	15	9.5	4.2	3.9
14	3.0	3.6	2.3	0	0	0	22	30	17	8.5	3.6	7.5
15	4.2	3.0	.9	0	0	0	22	34	24	8.0	3.3	8.5
16	12	3.0	.5	0	0	0	28	38	29	7.0	3.3	7.0
17	12	4.5	0	0	0	0	30	44	25	6.5	3.6	4.5
18	10	4.5	0	0	0	0	30	58	19	7.5	3.9	4.5
19	5.4	6.1	0	0	0	0	29	66	25	8.0	4.5	2.8
20	1.4	6.1	0	0	0	0	29	62	16	7.5	4.8	5.1
21	3.6	6.1	0	0	0	0	25	82	17	4.5	4.8	4.8
22	3.6	3.0	0	0	0	0	20	104	22	5.1	4.8	4.5
23	0	5.2	0	0	0	0	16	68	12	4.5	4.8	3.9
24	0	5.4	0	0	0	0	17	49	4.8	4.2	4.5	4.5
25	0	3.9	0	0	0	0	18	55	14	5.1	4.5	6.1
26	0	3.6	0	0	0	0	20	80	12	6.1	4.5	12
27	0	.7	0	0	0	0	22	106	13	8.5	4.5	3.9
28	0	.3	0	0	0	0	24	119	24	6.5	4.5	3.9
29	0	.3	0	0	----------	1.8	24	112	26	5.1	5.1	3.9
30	0	1.5	0	0	----------	0	25	91	22	5.1	5.1	3.9
31	0	----------	0	2	----------	6.9	----------	64	----------	5.4	4.8	----------
Total	132.0	70.4	42.4	2	25	8.7	704	2,371	673.8	277.6	203.0	157.9
Mean	4.26	2.35	1.37	0.1	0.9	0.28	23.5	76.5	22.5	8.95	6.55	5.26
Ac-ft	262	140	84	4	50	17	1,400	4,700	1,340	551	403	313

Calendar year 1965: Max 391 Min 0 Mean 30.6 Ac-ft 22,160
Water year 1965-66 : Max 199 Min 0 Mean 12.8 Ac-ft 9,260

Note.--No gage-height record for most days Dec. 21 to Mar. 15; discharge estimated.

Table 27.--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 1966. Records of individual diversions for previous years in the files of the Little Cottonwood Creek Water Commissioner.

Extremes.--1963-66: 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 16.)

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

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	0.6	0.6	0.6	0.6	0.6	6.5	36	37	26	6.6	6.9
2	12	.6	.6	.6	.6	.6	12	40	15	26	36	9.4
3	12	.6	.6	.6	.6	.6	14	45	29	22	7.4	10
4	6.0	.6	.6	.6	.6	.6	16	52	26	17	43	9.6
5	4.7	.6	.6	.6	.6	.6	13	51	18	13	7.8	11
6	4.9	.6	.6	.6	.6	.6	15	52	13	7.9	7.8	5.5
7	3.0	.6	.6	.6	.6	.6	15	60	27	12	7.5	4.1
8	2.2	.6	.6	.6	.6	.6	23	60	45	6.2	6.6	4.0
9	2.2	.6	.6	.6	.6	.6	24	53	19	12	5.7	3.1
10	2.7	.6	.6	.6	.6	.6	24	48	37	13	5.8	3.5
11	3.1	.6	.6	.6	.6	.6	23	47	37	13	4.0	3.3
12	3.5	.6	.6	.6	.6	.6	20	38	33	9.5	4.3	3.3
13	3.5	.6	.6	.6	.6	.6	18	34	12	6.2	4.5	3.4
14	5.0	.6	.6	.6	.6	.6	20	71	11	6.5	4.4	3.7
15	3.2	.6	.6	.6	.6	.6	19	51	22	7.9	4.5	4.6
16	.6	.6	.6	.6	.6	.6	22	37	25	8.2	4.3	5.6
17	.6	.6	.6	.6	.6	.6	32	39	24	7.3	4.3	5.0
18	.6	.6	.6	.6	.6	.6	30	44	22	6.6	4.7	4.5
19	.6	.6	.6	.6	.6	.6	27	48	20	9.5	4.1	5.5
20	.6	.6	.6	.6	.6	.6	28	48	7.4	5.4	4.5	4.8
21	.6	.6	.6	.6	.6	.6	23	52	14	4.7	4.6	4.6
22	.6	.6	.6	.6	.6	.6	21	56	22	4.9	4.6	3.8
23	.6	.6	.6	.6	.6	.6	18	53	14	4.8	4.3	4.1
24	.6	.6	.6	.6	.6	.6	19	52	4.8	11	4.0	4.4
25	.6	.6	.6	.6	.6	.6	19	52	16	11	4.1	4.4
26	.6	.6	.6	.6	.6	.6	20	60	16	5.9	4.1	17
27	.6	.6	.6	.6	.6	.6	22	71	17	8.5	4.5	4.3
28	.6	.6	.6	.6	.6	.6	24	56	24	5.4	4.3	4.4
29	.6	.6	.6	.6	----------	.6	22	57	24	4.2	4.3	4.3
30	.6	.6	.6	.6	----------	.6	26	53	25	5.1	6.6	2.2
31	.6	----------	.6	.6	----------	.6	----------	51	----------	6.1	4.3	----------
Total	85.4	18.0	18.6	18.6	16.8	18.6	615.5	1,567	656.2	306.8	227.5	164.3
Mean	2.75	0.60	0.60	0.60	0.60	0.60	20.5	50.5	21.9	9.90	7.34	5.48
Ac-ft	169	36	37	37	33	37	1,220	3,110	1,300	609	451	326

Calendar year 1965 : Max 103 Min 0.6 Mean 18.8 Ac-ft 13,610
Water year 1965-66: Max 71 Min 0.6 Mean 10.2 Ac-ft 7,360

Table 28.--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 1966. 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.--1898-1966: Maximum daily discharge, 835 cfs June 6, 1909; minimum daily, 4.5 cfs (corrected) 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 29-31.) 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	62	33	33	26	23	26	85	111	159	77	31	34
2	59	32	32	26	22	24	84	94	169	73	33	29
3	50	32	32	26	22	24	82	132	170	66	36	26
4	56	31	32	26	23	24	78	188	166	61	33	25
5	54	32	31	26	22	25	76	198	164	53	32	25
6	61	31	31	26	23	25	75	218	160	54	31	26
7	63	30	31	26	22	27	78	246	156	54	29	25
8	66	29	30	26	22	28	82	258	174	54	28	25
9	64	28	31	25	22	31	85	330	156	48	28	22
10	64	29	33	25	22	33	93	270	168	50	30	23
11	62	29	32	27	22	35	91	236	162	50	30	26
12	60	29	31	25	22	35	81	196	158	46	30	26
13	62	31	28	25	22	39	77	172	152	44	28	31
14	61	32	29	26	25	46	67	144	152	42	26	34
15	63	35	27	26	23	48	76	130	152	40	27	29
16	56	32	27	24	22	49	81	135	152	42	26	29
17	50	38	26	24	25	43	91	155	148	42	27	26
18	45	34	27	24	24	40	94	151	141	36	28	26
19	44	37	26	24	24	38	97	161	136	38	27	29
20	43	34	27	23	24	38	82	175	122	36	27	28
21	40	33	26	22	26	35	98	200	119	37	26	27
22	40	33	27	23	26	35	83	201	117	40	26	29
23	38	35	26	23	26	35	78	173	105	38	26	31
24	36	34	27	24	26	35	80	175	96	40	27	25
25	38	32	27	23	26	38	91	186	88	36	24	26
26	37	32	26	23	26	43	94	192	83	34	24	26
27	36	30	26	23	25	58	96	202	81	34	24	26
28	35	28	27	22	25	64	96	215	80	34	25	25
29	33	36	27	22	----------	65	93	214	77	34	22	26
30	34	35	26	22	----------	75	98	212	78	35	23	24
31	35	----------	27	22	----------	87	----------	180	----------	33	28	----------
Total	1,547	966	888	755	662	1,248	2,562	5,850	4,041	1,401	862	809
Mean	49.9	32.2	28.6	24.4	23.6	40.3	85.4	189	135	45.2	27.8	27.0
Ac-ft	3,070	1,920	1,760	1,500	1,310	2,480	5,080	11,600	8,020	2,780	1,710	1,600

Calendar year 1965 : Max 437 Min 24 Mean 89.7 Ac-ft 64,940
Water year 1965-66 : Max 330 Min 22 Mean 59.2 Ac-ft 42,830

Table 29.--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 1966. 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.--1963-66: Maximum daily discharge, 63 cfs June 4, 5, 1966; minimum daily, 2 cfs Aug. 13, 1965.

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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	28	26	20	16	16	47	54	49	50	27	24
2	52	27	26	20	15	16	44	56	61	50	29	24
3	44	27	26	19	15	15	46	56	61	50	32	22
4	50	26	26	19	15	15	49	55	63	49	29	21
5	47	27	25	19	15	15	51	53	63	37	28	20
6	52	28	25	19	15	15	49	52	62	46	27	14
7	53	26	25	20	15	16	49	42	53	46	25	13
8	55	26	24	20	15	16	51	52	53	46	24	13
9	53	25	26	19	15	16	46	51	53	42	24	12
10	53	25	26	19	14	19	51	54	53	43	21	18
11	52	25	26	20	13	21	52	56	53	42	24	20
12	52	24	25	19	14	22	50	55	52	41	21	14
13	52	26	21	19	14	23	50	55	52	39	21	6
14	51	26	22	20	17	26	44	55	52	38	21	11
15	53	29	20	19	15	30	50	55	52	36	21	15
16	48	28	19	17	14	29	51	55	52	35	21	13
17	43	33	19	16	16	28	50	56	52	35	18	20
18	39	29	20	17	16	28	53	46	51	31	21	20
19	38	31	19	17	15	27	56	45	51	33	20	12
20	37	29	20	16	15	28	52	56	50	32	20	14
21	34	28	20	15	16	24	54	56	50	33	19	14
22	33	28	20	16	17	24	53	54	52	32	20	12
23	32	29	19	15	16	21	52	54	52	32	20	15
24	30	28	20	16	16	27	52	56	52	33	21	19
25	31	27	20	15	16	30	55	56	51	31	18	20
26	31	27	20	15	16	33	54	56	52	30	18	12
27	30	25	20	15	16	40	56	50	51	30	18	13
28	30	22	19	15	16	37	56	57	50	29	20	12
29	27	28	21	15	----------	35	53	53	49	28	18	12
30	29	28	20	15	----------	45	57	60	51	29	19	12
31	29	----------	20	15	----------	51	----------	53	----------	28	22	----------
Total	1,314	815	685	541	428	788	1,533	1,664	1,598	1,156	687	467
Mean	42.4	27.2	22.1	17.5	15.3	25.4	51.1	53.7	53.3	37.3	22.2	15.6
Ac-ft	2,610	1,620	1,360	1,070	849	1,560	3,040	3,300	3,170	2,290	1,360	926

Calendar year 1965: Max 58 Min 2 Mean 37.5 Ac-ft 27,150
Water year 1965-66: Max 63 Min 6 Mean 32.0 Ac-ft 23,160

Table 30.--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 1966. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Rectangular weir.

Extremes.--1964-66: Maximum daily discharge, 2.3 cfs June 4-7, 1964, May 24-26, 1965; minimum daily, 0.1 cfs May 14-16, 27, 1965.

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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	1.7	0.6	0.6	0.9	0.2	0.2	0.4	0.3	0.8	0.6	0.3
2	1.7	1.7	.6	.6	.9	.2	.2	.4	.3	.8	.6	.3
3	1.7	1.7	.6	.9	.7	.2	.2	.5	1.5	.8	.6	.3
4	1.7	1.7	.6	.9	.3	.2	.2	.5	1.5	.8	.6	.3
5	1.7	1.7	.6	.9	.3	.2	.2	.5	1.5	.7	.6	.3
6	1.7	1.7	.6	.9	.3	.2	.2	.5	1.5	.7	.6	.3
7	1.7	1.7	.6	.9	.3	.2	.2	.5	1.5	.7	.6	.3
8	1.7	1.7	.6	.9	.3	.2	.6	.5	1.5	.7	.6	.3
9	1.7	1.7	.6	.9	.3	.2	.6	.5	1.5	.7	.6	.3
10	1.7	1.7	.6	.9	.3	.2	.6	.5	1.5	.7	1.1	.3
11	1.7	1.7	.6	.9	.3	.2	.6	.5	1.5	.7	.7	.3
12	1.7	1.7	.6	.9	.3	.2	.6	.5	1.5	.7	.6	.3
13	1.7	1.7	.6	.9	.3	.2	.6	.5	1.5	.7	.6	.6
14	1.7	1.7	.6	.9	.3	.2	.6	.5	1.5	.7	.6	.6
15	1.7	.8	.6	.9	.3	.2	.6	.5	1.5	.7	.6	.6
16	1.7	.8	.6	.9	.3	.2	.6	.4	1.5	.8	.6	.6
17	1.7	.8	.6	.9	.3	.2	.6	.4	1.5	.8	.6	.6
18	1.7	.8	.6	.9	.3	.2	.6	.4	.8	.8	.6	.6
19	1.7	.8	.6	.9	.3	.2	.6	.4	.8	.8	.6	.6
20	1.7	.8	.6	.9	.3	.2	.6	.4	.8	.8	.6	.6
21	1.7	.8	.6	.9	.2	.2	.6	.4	.8	.8	.6	.6
22	1.7	.8	.6	.9	.2	.2	.6	.4	.8	.8	.3	.6
23	1.7	.8	.6	.9	.2	.2	.6	.4	.8	.8	.3	.6
24	1.7	.8	.6	.9	.2	.2	.6	.3	.8	.8	.3	.6
25	1.7	.8	.6	.9	.2	.2	.6	.3	.8	.8	.3	.6
26	1.7	.8	.6	.9	.2	.2	.4	.3	.8	.8	.3	.6
27	1.7	.8	.6	.9	.2	.2	.4	.3	.8	.8	.3	.6
28	1.7	.8	.6	.9	.2	.2	.4	.3	.8	.6	.3	.2
29	1.7	.8	.6	.9	----------	.2	.4	.3	.8	.6	.3	.2
30	1.7	.6	.6	.9	----------	.2	.4	.3	.8	.6	.3	.2
31	1.7	----------	.6	.9	----------	.2	----------	.3	----------	.6	.3	----------
Total	52.7	36.4	18.6	27.3	9.2	6.2	14.2	12.9	33.5	22.9	16.2	13.2
Mean	1.70	1.21	0.60	0.88	0.33	0.20	0.47	0.42	1.12	0.74	0.52	0.44
Ac-ft	105	72	37	54	18	12	28	26	66	45	32	26

Calendar year 1965 : Max 2.3 Min 0.1 Mean 0.84 Ac-ft 605
Water year 1965-66: Max 1.7 Min 0.2 Mean 0.72 Ac-ft 521

Table 31.--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.

Records available.--October 1963 to September 1966. 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 and a 14-foot concrete flume control. Altitude of gage is 4,980 ft (from topographic map).

Extremes.--1963-66: Maximum daily discharge, 399 cfs May 22, 1964; 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 based on readings every 2 hours, 8 a.m. to 8 a.m., furnished by the Salt Lake City Water Department.

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.2	3.6	6.2	5.7	5.7	10	38	57	110	26	3.6	10
2	5.2	3.2	5.2	5.7	5.7	8.2	40	38	108	22	3.6	4.4
3	4.8	3.2	5.2	6.2	6.8	9.0	36	76	108	15	3.2	3.6
4	4.8	3.6	5.2	5.7	7.4	9.0	29	133	102	11	3.2	3.6
5	4.8	3.2	5.7	5.7	6.8	10	25	144	99	15	3.6	4.4
6	7.4	1.2	5.2	5.7	7.4	10	26	166	97	6.8	3.6	12
7	8.2	2.3	5.2	5.2	6.8	11	29	203	102	7.4	3.2	12
8	9.0	1.4	5.2	5.2	6.8	12	30	206	119	6.8	3.6	12
9	9.0	1.4	4.8	5.2	6.8	15	38	279	102	5.7	3.6	10
10	9.0	2.3	6.2	5.2	7.4	14	41	215	113	6.8	7.4	4.8
11	8.2	2.3	5.7	5.7	8.2	14	38	180	108	6.8	5.7	5.2
12	6.8	3.2	5.2	5.2	7.4	13	30	141	105	4.0	8.2	12
13	8.2	3.6	6.2	5.2	7.4	16	26	116	99	4.0	6.2	24
14	8.2	4.0	6.8	5.2	7.4	20	22	89	99	3.6	4.0	22
15	8.2	4.8	6.8	5.7	7.4	18	25	75	99	3.6	5.7	13
16	6.8	3.6	7.4	5.7	8.2	20	29	80	99	5.7	4.8	15
17	5.7	4.4	6.2	6.8	9.0	15	40	99	94	5.7	8.2	5.7
18	4.4	4.4	6.2	6.2	8.2	12	40	105	89	4.4	6.8	5.7
19	4.4	4.8	6.2	5.7	9.0	11	40	116	84	4.0	6.8	16
20	4.0	4.4	6.2	5.7	9.0	10	29	119	71	3.6	6.8	13
21	4.0	4.0	5.2	5.7	10	11	43	144	68	3.2	6.8	12
22	5.2	4.0	6.2	5.7	9.0	11	29	147	64	7.4	6.2	16
23	4.4	4.8	6.2	6.8	10	14	25	119	52	5.2	5.7	15
24	4.4	4.8	6.2	7.4	10	8.2	27	119	43	6.2	5.7	5.7
25	4.8	4.4	6.2	6.8	10	8.2	35	130	36	4.4	6.2	5.7
26	4.0	4.0	5.7	6.8	10	10	40	136	30	3.6	6.2	13
27	4.0	4.0	5.7	6.8	9.0	18	40	152	29	3.6	5.7	12
28	3.6	5.7	7.4	6.2	9.0	27	40	158	29	4.8	4.4	13
29	4.0	6.8	5.7	6.2	----------	30	40	161	27	5.2	3.6	14
30	3.6	6.8	5.7	6.2	----------	30	41	152	26	5.7	3.6	12
31	4.0	----------	6.2	6.2	----------	36	----------	127	----------	4.0	5.7	----------
Total	179.3	114.2	183.4	183.4	225.8	460.6	1,011	4,182	2,411	221.2	161.6	326.8
Mean	5.78	3.81	5.92	5.92	8.06	14.9	33.7	135	80.4	7.14	5.21	10.9
Ac-ft	356	227	364	364	448	914	2,010	8,290	4,780	439	321	648

Calendar year 1965: Max 386 Min 1.2 Mean 51.4 Ac-ft 37,210
Water year 1965-66: Max 279 Min 1.2 Mean 26.5 Ac-ft 19,160

Table 32.--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 1966. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Five-foot Parshall flume.

Extremes.--1963-66: Maximum daily discharge, 61 cfs several days April-July 1965 and June 17, 1966; minimum daily, 4 cfs Feb. 5, 1964.

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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	28	18	19	19	24	55	41	32	52	22	28
2	31	26	19	17	19	24	54	46	48	49	25	24
3	30	30	20	20	20	23	45	50	60	52	30	22
4	30	30	24	22	21	22	35	49	58	49	32	26
5	28	28	20	24	21	23	46	55	56	44	32	24
6	28	28	25	24	22	24	56	56	59	44	24	20
7	20	28	25	22	21	24	58	57	58	44	20	18
8	43	28	24	19	20	26	46	49	58	43	20	18
9	36	27	23	18	21	28	47	46	58	41	20	17
10	29	27	23	22	21	31	30	18	59	49	28	22
11	35	27	23	21	21	26	20	22	60	48	29	25
12	35	21	23	21	20	19	18	23	60	39	23	22
13	35	25	21	16	21	19	41	23	58	35	19	15
14	34	25	22	16	23	26	29	33	59	34	18	20
15	34	25	24	16	23	25	44	38	58	32	18	20
16	28	24	25	18	22	28	45	38	59	40	24	22
17	34	25	24	19	23	29	41	38	61	40	25	26
18	31	23	26	19	23	24	17	45	60	31	24	24
19	36	20	23	20	23	25	18	54	60	31	18	20
20	36	21	17	20	23	26	15	38	57	29	18	19
21	33	21	18	20	24	27	16	38	60	28	17	19
22	31	22	19	19	24	20	16	37	56	36	22	21
23	31	30	18	20	25	21	15	38	54	37	25	27
24	28	20	18	20	25	22	21	39	54	33	25	24
25	30	30	18	19	24	25	41	37	47	27	16	19
26	30	26	18	19	24	28	45	38	44	27	16	19
27	30	24	18	19	24	32	44	49	49	26	16	19
28	30	20	17	20	24	29	41	57	57	29	17	19
29	21	10	22	20	----------	33	40	54	57	33	23	23
30	28	22	24	20	----------	41	44	54	53	32	23	23
31	28	----------	21	19	----------	51	----------	54	----------	24	22	----------
Total	966	741	660	608	621	825	1,083	1,314	1,669	1,158	691	645
Mean	31.2	24.7	21.3	19.6	22.2	26.6	36.1	42.4	55.6	37.4	22.3	21.5
Ac-ft	1,920	1,470	1,310	1,210	1,230	1,640	2,150	2,610	3,310	2,300	1,370	1,280

Calendar year 1965: Max 61 Min 10 Mean 35.4 Ac-ft 25,670
Water year 1965-66: Max 61 Min 10 Mean 30.1 Ac-ft 21,800

Table 33.--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 SW¼SW¼ sec. 14, T. 2 S., R. 1 E. Bagley Ditch (1685 L) diverts from the left bank in NW¼SW¼ 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 1966. Records of individual diversions for previous years in the files of the Big Cottonwood Creek Water Commissioner.

Extremes.--1964-66: Maximum daily discharge, 69 cfs July 7, 1965; 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 June 23 to Sept. 30 part of the water diverted was supplied by pumping from East Jordan Canal. (See table 16.)

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

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22						4	41	62	44	35	33
2	24						12	39	61	45	34	24
3	24						6	45	51	45	37	27
4	23						9	52	56	37	26	32
5	22						6	56	57	33	28	31
6	20						8	54	54	34	35	32
7	21						7	54	51	38	44	37
8	21						15	56	43	39	42	37
9	20						22	49	36	42	41	37
10	18						19	22	41	36	38	32
11	21						17	29	51	33	35	29
12	21						17	33	53	35	32	28
13	21						16	39	48	40	37	33
14	20						16	37	52	34	41	24
15	17						12	30	50	36	43	20
16	0						16	35	48	30	39	26
17	0						20	48	46	27	33	27
18	0						21	54	44	27	34	27
19	0						16	51	41	32	42	33
20	0						15	54	40	39	41	34
21	0						15	62	37	41	42	34
22	0						16	59	35	43	40	33
23	0						16	52	39	33	33	29
24	0						17	53	48	34	34	28
25	0						28	57	48	40	40	32
26	0						35	61	48	40	42	36
27	0						36	63	40	39	42	32
28	0						38	57	32	34	42	32
29	0						39	59	31	29	33	28
30	0				----------		39	66	37	28	34	25
31	0	----------			----------		----------	63	----------	33	37	----------
Total	315	0	0	0	0	0	553	1,530	1,380	1,120	1,156	912
Mean	10.2	0	0	0	0	0	18.4	49.4	46.0	36.1	37.3	30.4
Ac-ft	625	0	0	0	0	0	1,100	3,030	2,740	2,220	2,290	1,810

Calendar year 1965: Max 69 Min 0 Mean 18.1 Ac-ft 13,130
Water year 1965-66: Max 62 Min 0 Mean 19.1 Ac-ft 13,820

Table 34.--1688. Big Cottonwood Creek at Cottonwood Lane, near Salt Lake City

Location.--Lat 40°39'22", long 111°49'24", in SW¼SE¼ 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 1966.

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

Extremes.--1964-66: Maximum daily discharge, 351 cfs June 13, 1965; 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 33.)

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	1.8	7.6	6.2	1.2	0.3	16	12	77	3.3	0.8	0.8
2	3.5	2.0	9.2	6.0	.5	.1	16	22	73	2.4	.9	.8
3	3.0	1.4	8.3	6.0	1.2	0	19	37	56	2.2	1.4	.6
4	2.5	1.0	6.2	5.8	.5	0	23	56	48	2.2	1.9	.4
5	2.5	1.8	5.8	1.8	.6	0	18	64	31	2.5	1.4	.8
6	5.8	1.0	4.8	.5	0	0	4.6	94	25	1.8	1.0	.7
7	8.7	1.2	3.3	.9	.1	0	1.4	136	25	1.6	.8	.6
8	12	.6	3.5	3.0	0	0	3.8	132	45	1.4	.5	.4
9	3.0	1.6	4.3	4.3	.1	0	8.0	178	37	3.0	.9	.2
10	8.[illegible]	1.0	4.3	3.0	0	.2	21	234	36	3.0	.7	.2
11	[illegible]	.6	4.3	1.0	0	2.0	29	184	23	3.0	.4	.8
12	4.[illegible]	3.8	4.6	1.8	0	8.7	25	132	17	3.5	.2	1.4
13	6.9	4.1	6.9	3.3	.6	8.7	19	103	12	3.0	.2	1.4
14	6.5	3.3	6.2	6.5	.4	11	14	84	5.5	2.4	.2	5.1
15	1[illegible]	4.6	5.1	6.2	0	10	12	68	8.7	1.3	.3	5.1
16	21	2.8	7.6	5.0	0	12	9.2	64	9.6	1.2	.8	3.8
17	14	3.3	5.8	3.3	0	9.2	12	61	9.2	1.2	.3	3.5
18	8.7	7.3	1.8	2.5	0	9.2	34	61	6.5	1.0	.2	3.3
19	6.5	[illegible]	.3	2.0	0	8.0	45	58	3.8	1.0	.2	4.3
20	[illegible].8	9.6	3.0	1.8	0	7.6	43	71	3.3	1.3	.2	4.1
21	4.1	9.2	4.0	.6	0	5.8	38	92	2.4	1.4	.2	4.3
22	4.1	7.6	5.0	2.2	0	10	38	108	2.5	1.2	.6	3.8
23	5.1	8.7	6.0	4.3	0	11	34	87	2.5	.9	1.0	3.0
24	4.1	8.7	6.0	.5	0	6.9	32	79	2.4	.9	.8	2.2
25	6.9	5.8	6.0	4.1	1.2	4.6	14	87	2.2	1.0	.5	2.2
26	4.8	4.8	6.0	3.8	2.5	5.1	8.7	90	1.9	1.4	.3	2.5
27	4.1	[illegible].5	6.0	2.8	.4	11	8.7	101	2.0	1.8	.2	2.2
28	4.3	[illegible].6	6.0	1.4	.2	16	7.3	94	4.6	1.3	.4	1.8
29	3.3	21	5.1	1.4	----------	22	5.5	99	4.3	1.0	.7	1.3
30	3.3	10	2.8	.2	----------	20	8.0	90	3.0	.8	.6	1.0
31	1.0	----------	3.5	.3	----------	17	----------	85	----------	.7	.4	----------
Total	189.4	152.7	159.3	92.5	9.5	216.4	567.2	2,863	579.4	54.7	19.0	62.6
Mean	6.11	5.09	5.14	2.98	0.34	6.98	18.9	92.4	19.3	1.76	0.61	2.09
Ac-ft	376	303	316	183	19	429	1,130	5,680	1,150	108	38	124

Calendar year 1965: Max 351 Min 0 Mean 34.9 Ac-ft 25,240
Water year 1965-66: Max 234 Min 0 Mean 13.6 Ac-ft 9,860

Table 35.--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. Hill Ditch (1688 D) diverts from the right bank in NW¼NW¼ sec. 9, T. 2 S., R. 1 E.

Records available.--April 1964 to September 1966. Records of individual diversions for previous years in the files of the Big Cottonwood Creek Water Commissioner.

Extremes.--1964-66: 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 June 13 to Sept. 30 part of the water diverted was supplied by the Jordan and Salt Lake City Canal. (See fig. 4 and table 16.)

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

Discharge, in cubic feet per second, water year October 1964 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8						0	0	25	17	17	16
2	8						0	2	24	18	19	14
3	8						0	2	23	17	19	13
4	8						0	2	22	18	18	13
5	8						0	2	21	16	18	13
6	8						0	2	18	19	18	13
7	8						0	15	14	24	13	13
8	9						0	14	15	22	7	13
9	0						6	14	14	25	19	12
10	5						6	15	18	24	18	12
11	5						6	14	19	22	19	13
12	5						0	11	17	23	19	13
13	6						0	11	15	22	19	12
14	6						0	14	18	21	19	13
15	6						0	15	20	22	18	14
16	0						0	15	19	21	18	13
17	0						0	14	16	21	18	13
18	0						0	16	18	21	19	13
19	0						0	16	18	20	18	13
20	0						0	20	18	19	19	12
21	0						0	20	19	17	19	12
22	0						0	22	18	19	20	12
23	0						0	23	17	19	20	13
24	0						0	23	17	20	20	12
25	0						0	23	17	21	18	13
26	0						0	22	17	18	18	12
27	0						0	22	17	18	19	12
28	0						0	22	16	18	19	12
29	0						0	21	16	15	18	12
30	0				----------		0	18	17	20	19	11
31	0	----------			----------		----------	18	----------	19	17	----------
Total	98	0	0	0	0	0	18	448	543	616	559	382
Mean	3.2	0	0	0	0	0	0.6	14.5	18.1	19.9	18.0	12.7
Ac-ft	194	0	0	0	0	0	36	889	1,080	1,220	1,110	758

Calendar year 1965 : Max 29 Min 0 Mean 7.0 Ac-ft 5,090
Water year 1965-66 : Max 25 Min 0 Mean 7.3 Ac-ft 5,290

Table 36.--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 1966. 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.--1963-66: Maximum daily discharge, 42 cfs June 9, 1965; 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	6.9	6.0	6.3		5.0	7.8	10	17	8.1	5.7	
2	7.5	6.6	6.5	6.3		5.0	8.1	11	16	7.8		
3	7.2	6.6	6.6	6.3		5.0	7.8	13	16	7.8		
4	6.9	6.6	6.9	6.3		5.0	7.5	15	15	7.8		
5	6.9	6.3	6.6	6.3		5.0	7.5	16	15	7.6	5.5	
6	6.9	6.3	6.6	6.3		5.0	7.5	18	14	7.5		
7	6.9	6.3	6.5	6.3		5.0	7.8	19	14	7.5		
8	6.9	6.3	6.5	6.3		5.0	8.1	20	13	7.5		
9	6.9	6.3	6.6	6.1		5.0	8.1	24	13	7.5		
10	6.9	6.3	6.6	6.1		5.0	8.5	26	13	7.5		
11	6.9	6.3	6.6	6.1		5.0	8.1	25	13	7.5		
12	6.9	6.3	6.6	6.1		5.0	7.8	24	12	7.2		
13	6.9	6.3	6.6	6.1		5.5	7.8	23	12	6.9		
14	6.9	6.3	6.6	6.1		5.5	7.8	22	12	6.3		
15	7.2	7.2	6.3	6.1	6.0	5.5	7.8	21	11	6.3		5.0
16	6.9	6.9	6.0	6.1		5.5	8.1	23	11	6.3		
17	6.9	7.2	5.0	6.1		5.5	8.8	23	11	6.3		
18	7.2	6.9	4.0	5.0		5.5	8.8	23	10	6.3		
19	6.9	6.9	3.0	4.0		5.3	8.5	23	10	6.3		
20	6.9	6.9	3.0	3.0		5.3	8.5	23	10	6.3	5.0	
21	6.9	6.9	4.0	3.0		5.3	8.1	23	10	6.1		
22	6.9	6.6	5.0	4.0		5.3	8.1	23	10	6.1		
23	6.9	6.9	6.0	4.0		5.3	8.1	21	10	6.1		
24	6.9	6.9	6.5	5.0		5.5	8.1	20	10	6.1		
25	6.9	6.9	6.5	5.0		5.7	8.5	20	9.6	6.3		
26	6.9	6.6	6.5	6.0		5.9	9.2	20	9.2	5.9		
27	6.9	6.3	6.5	6.0		6.1	9.2	20	8.8	5.9		
28	6.9	6.6	6.5	6.0		6.3	9.2	19	8.8	5.7		
29	6.9	6.0	6.6	6.0	----------	6.6	9.6	19	8.1	5.7		
30	6.9	5.0	6.6	6.0	----------	7.2	10	18	8.1	5.7		
31	6.9	----------	6.6	6.0	----------	7.5	----------	18	----------	5.7		----------
Total	216.0	196.4	186.4	174.3	168.0	170.3	248.8	623	350.6	207.6	159.2	150.0
Mean	6.97	6.55	6.01	5.62	6.00	5.49	8.29	20.1	11.7	6.70	5.14	5.00
Ac-ft	428	390	370	346	333	338	493	1,240	695	412	316	298

Calendar year 1965: Max 42 Min - Mean 10.0 Ac-ft 7,260
Water year 1965-66 : Max 26 Min - Mean 7.81 Ac-ft 5,660

Note.--No gage-height record Jan. 18 to Mar. 13 and Aug. 2 to Sept. 30; discharge estimated.

Table 37.--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 1966. 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, 1963-66: 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 38, 39.)

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	10	9.7	7.1	9.1	8.5	12	14	20	12	10	9.1
2	10	10	10	6.6	9.1	7.8	12	15	20	12	10	9.1
3	10	10	9.7	7.9	9.5	6.9	12	16	18	12	10	8.6
4	10	10	9.5	9.5	9.5	5.4	12	18	18	12	10	8.6
5	10	10	9.5	9.7	9.5	5.4	12	22	18	12	10	8.6
6	10	10	9.5	9.5	9.5	7.2	12	27	17	11	10	8.6
7	9.8	10	9.2	9.2	9.5	9.8	12	32	18	11	10	7.9
8	9.8	10	9.2	9.2	9.2	9.8	12	36	17	11	10	8.1
9	10	10	9.2	9.2	8.9	9.8	12	40	16	11	9.8	8.6
10	10	10	9.7	9.2	9.5	9.8	13	46	16	11	9.5	8.5
11	10	10	9.7	9.2	9.5	9.6	13	42	16	11	9.2	8.5
12	9.8	10	9.7	9.2	9.5	9.6	12	39	16	11	8.6	8.3
13	9.8	10	9.5	9.5	9.2	9.6	12	33	15	11	8.6	8.3
14	10	10	9.5	9.5	9.1	10	12	30	14	11	8.6	9.6
15	9.8	10	8.2	9.1	9.1	10	12	28	14	11	8.4	9.0
16	10	10	6.3	5.6	9.1	11	12	27	14	11	8.1	8.9
17	10	10	4.4	4.5	10	11	12	28	14	11	8.1	8.9
18	9.8	10	4.2	4.3	9.1	11	14	28	14	10	8.3	8.9
19	9.8	10	4.0	4.2	9.1	10	14	28	14	10	8.3	8.6
20	9.8	10	3.9	4.2	8.9	10	14	28	14	10	8.3	8.6
21	9.8	10	3.8	4.3	8.4	10	13	29	13	11	8.2	8.4
22	9.8	10	7.0	4.3	8.4	10	13	30	14	11	8.2	8.4
23	9.8	10	7.9	4.3	8.4	10	13	29	14	10	7.9	8.4
24	10	10	8.2	5.1	8.2	10	13	26	13	10	7.9	8.4
25	10	9.7	9.5	6.1	8.4	11	13	25	14	11	8.0	8.6
26	10	9.7	8.7	7.1	8.4	11	14	23	14	11	7.8	8.4
27	10	9.5	8.4	8.1	8.4	11	14	23	12	10	8.1	8.4
28	10	8.4	8.1	8.1	8.4	11	14	23	12	10	8.1	8.6
29	10	6.5	8.1	9.1	----------	12	14	22	12	10	7.9	8.4
30	10	6.1	8.6	9.1	----------	12	14	22	12	10	8.1	8.1
31	10	----------	7.6	9.1	----------	12	----------	21	----------	10	8.4	----------
Total	308.8	289.9	250.5	231.1	252.9	302.2	383	850	453	336	272.4	257.4
Mean	9.96	9.66	8.08	7.45	9.03	9.75	12.8	27.4	15.1	10.8	8.79	8.58
Ac-ft	612	575	497	458	502	599	760	1,690	899	666	540	511

Calendar year 1965 : Max 56 Min 3.8 Mean 16.3 Ac-ft 11,820
Water year 1965-66: Max 46 Min 3.8 Mean 11.5 Ac-ft 8,310

Table 38.--1700 A. Boundary Springs near Salt Lake City

Location.--In SE¼NE¼ sec. 36, T. 1 S., R. 1 E., 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 1966. Records for previous years in the files of the Salt Lake City Water Department.

Gage.--Propeller-type totalizing meters.

Extremes.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	2.3	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3
2	2.2	2.3	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3
3	2.2	2.3	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3
4	2.2	2.3	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.3	2.3	2.3
5	2.2	2.3	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.3	2.3	2.3
6	2.2	2.3	2.1	2.1	2.1	2.1	2.2	2.2	2.4	2.3	2.4	2.3
7	2.2	2.3	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.3
8	2.2	2.3	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.4	2.3
9	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.4	2.3
10	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.4	2.2
11	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.4	2.2
12	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.0	2.1	2.2	2.3	2.2
13	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.0	2.2	2.2	2.3	2.2
14	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.0	2.2	2.2	2.3	2.2
15	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.0	2.3	2.3	2.3	2.2
16	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.0	2.3	2.3	2.3	2.3
17	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.0	2.4	2.3	2.3	2.3
18	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.0	2.4	2.3	2.2	2.3
19	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.5	2.3	2.2	2.3
20	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.5	2.3	2.2	2.3
21	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.4	2.3	2.1	2.3
22	2.2	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.4	2.3	2.1	2.3
23	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.4	2.3	2.1	2.3
24	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.4	2.3	2.1	2.3
25	2.3	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26	2.3	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.4	2.3	2.2	2.3
27	2.3	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.4	2.3	2.3	2.3
28	2.3	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.4	2.3	2.3	2.3
29	2.3	2.1	2.1	2.1	----------	2.2	2.2	2.3	2.4	2.3	2.3	2.3
30	2.3	2.1	2.1	2.1	----------	2.2	2.2	2.3	2.3	2.3	2.3	2.3
31	2.3	----------	2.1	2.1	----------	2.2	----------	2.3	----------	2.3	2.3	----------
Total	68.9	66.0	65.1	65.1	58.8	66.9	66.0	66.3	70.0	70.7	70.6	68.4
Mean	2.22	2.20	2.10	2.10	2.10	2.16	2.20	2.14	2.33	2.28	2.28	2.28
Ac-ft	137	131	129	129	117	133	131	132	139	140	140	136

Calendar year 1965 : Max 2.7 Min 1.9 Mean 2.20 Ac-ft 1,590
Water year 1965-66: Max 2.5 Min 2.0 Mean 2.20 Ac-ft 1,590

Table 39.--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 1966. 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.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.4	8.1	7.6	5.0	7.0	6.3	10	12	18	10	7.9	6.8
2	8.1	8.1	7.9	4.5	7.0	5.6	10	13	18	9.6	7.9	6.8
3	8.0	8.1	7.6	5.8	7.4	4.7	10	14	16	9.6	8.1	6.3
4	8.0	8.1	7.4	7.4	7.4	3.3	10	16	16	9.3	7.9	6.3
5	7.9	8.1	7.4	7.6	7.4	3.3	9.9	20	16	9.3	7.9	6.3
6	7.9	7.9	7.4	7.4	7.4	5.1	9.6	25	15	9.0	7.9	6.3
7	7.6	7.9	7.1	7.1	7.4	7.6	9.6	30	16	9.0	7.6	5.6
8	7.6	7.9	7.1	7.1	7.1	7.6	9.6	34	15	9.0	7.6	5.8
9	7.9	7.9	7.1	7.1	6.8	7.6	9.9	38	14	8.7	7.4	6.3
10	7.9	7.9	7.6	7.1	7.4	7.6	11	44	14	9.0	7.1	6.3
11	7.9	7.9	7.6	7.1	7.4	7.4	11	40	14	9.0	6.8	6.3
12	7.6	7.9	7.6	7.1	7.4	7.4	10	37	14	8.7	6.3	6.1
13	7.6	7.9	7.4	7.4	7.1	7.4	9.9	31	13	8.7	6.3	6.1
14	7.9	7.9	7.4	7.4	7.0	7.9	9.6	28	12	8.7	6.3	7.4
15	7.6	8.1	6.1	7.0	7.0	8.4	9.6	26	12	8.4	6.1	6.8
16	7.9	7.9	4.2	3.5	7.0	8.7	9.6	25	12	8.4	5.8	6.6
17	7.9	8.1	2.3	2.4	8.0	8.7	10	26	12	8.4	5.8	6.6
18	7.6	7.9	2.1	2.2	7.0	8.7	12	26	12	8.1	6.1	6.6
19	7.6	7.9	1.9	2.1	7.0	8.4	12	26	12	8.1	6.1	6.3
20	7.6	7.9	1.8	2.1	6.8	8.4	12	26	11	8.1	6.1	6.3
21	7.6	7.9	1.7	2.2	6.3	8.4	11	27	11	8.4	6.1	6.1
22	7.6	7.9	4.9	2.2	6.3	8.4	11	28	12	8.4	6.1	6.1
23	7.6	7.9	5.8	2.2	6.3	8.4	11	27	12	8.1	5.8	6.1
24	7.9	7.9	6.1	3.0	6.1	8.4	11	24	11	8.1	5.8	6.1
25	7.9	7.6	7.4	4.0	6.3	8.4	11	23	12	8.4	5.8	6.3
26	7.9	7.6	6.6	5.0	6.3	8.4	12	21	12	8.4	5.6	6.1
27	7.9	7.4	6.3	6.0	6.3	8.4	12	21	10	8.1	5.8	6.1
28	7.9	6.3	6.0	6.0	6.3	9.0	12	21	9.9	7.9	5.8	6.3
29	7.9	4.4	6.0	7.0		9.3	12	20	9.9	7.9	5.6	6.1
30	7.9	4.0	6.5	7.0	----------	9.6	12	20	9.9	7.9	5.8	5.8
31	7.9	----------	5.5	7.0	----------	9.9	----------	19	----------	8.1	6.1	----------
Total	242.5	228.3	185.4	166.0	194.2	236.7	320.3	788	391.7	266.8	203.3	189.0
Mean	7.82	7.61	5.98	5.35	6.94	7.64	10.7	25.4	13.1	8.61	6.56	6.30
Ac-ft	481	453	368	329	385	469	635	1,560	777	529	403	375

Calendar year 1965 : Max 54 Min 1.7 Mean 14.2 Ac-ft 10,270
Water year 1965-66: Max 44 Min 1.7 Mean 9.35 Ac-ft 6,760

Table 40.--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 1966.

Extremes.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3						0	2	9	9	4	5
2	2						0	2	8	8	5	6
3	2						1	3	8	8	5	5
4	2						2	4	9	7	6	5
5	2						2	5	9	6	5	4
6	2						2	6	9	7	6	5
7	3						3	6	9	6	6	4
8	3						3	5	10	7	6	4
9	2						3	5	9	6	5	4
10	2						2	5	9	7	5	4
11	2						1	4	9	7	5	5
12	3						0	5	9	7	5	4
13	3						1	6	9	7	5	5
14	3						2	6	9	6	5	5
15	3						3	7	9	5	5	4
16	2						3	8	9	6	5	4
17	2						3	8	9	6	5	4
18	2						3	8	9	6	5	5
19	1						1	8	9	7	5	5
20	1						1	8	9	6	5	7
21	1						1	7	7	6	5	5
22	1						1	8	9	6	5	6
23	1						2	10	9	6	6	5
24	1						2	10	8	6	5	5
25	2						3	9	8	5	5	4
26	2						3	8	9	6	4	4
27	2						2	8	9	5	4	5
28	2						2	8	9	6	4	5
29	1						3	10	7	6	4	5
30	1				----------		3	12	8	6	4	4
31	1	----------			----------		----------	10	----------	5	4	----------
Total	60	0	0	0	0	0	58	211	262	197	153	142
Mean	1.9	0	0	0	0	0	1.9	6.8	8.7	6.4	4.9	4.7
Ac-ft	119	0	0	0	0	0	115	419	520	391	303	282

Calendar year 1965: Max 14 Min 0 Mean 3.7 Ac-ft 2,650
Water year 1965-66: Max 12 Min 0 Mean 3.0 Ac-ft 2,150

Table 41.--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 1966.

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

Extremes.--1963-66: Maximum 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.7	4.6	7.0	4.6	5.1	5.3	9.4	10	12	2.1	0.4	1.9
2	5.1	4.6	7.3	3.0	4.9	3.9	10	9.4	10	1.4	.4	1.9
3	5.1	4.8	7.0	5.3	4.4	3.5	11	7.9	9.1	1.4	.4	1.6
4	5.1	5.1	7.3	6.5	5.5	2.0	10	10	7.9	1.5	.5	.4
5	5.1	5.1	7.3	6.7	5.5	4.2	9.7	14	8.8	1.4	.5	.4
6	3.9	5.3	7.0	6.3	5.5	4.9	9.4	17	7.6	1.8	.5	.4
7	2.8	5.3	6.5	6.1	5.9	6.7	8.5	18	9.1	1.5	.4	.4
8	2.8	5.1	7.0	6.1	5.3	6.3	6.1	25	9.4	1.0	.4	.3
9	3.2	4.8	7.3	6.1	4.0	5.9	4.8	33	7.0	.8	.4	.3
10	3.2	5.3	7.9	6.1	5.7	6.1	9.1	40	5.5	1.0	.4	.4
11	2.6	5.5	7.9	6.3	4.0	5.9	12	36	4.6	1.1	.4	.4
12	2.2	5.7	7.3	6.1	6.1	6.1	11	32	3.7	.8	.4	.3
13	2.9	5.7	7.9	6.1	4.9	6.5	8.2	27	3.6	.6	.4	.3
14	3.7	5.3	7.3	5.9	5.9	7.0	7.3	24	3.6	.4	.4	1.3
15	5.1	7.0	5.9	6.1	5.1	7.3	6.7	21	3.7	.7	.4	.7
16	5.3	6.7	3.1	3.9	4.2	7.6	5.9	19	3.5	.7	.3	.5
17	4.8	7.9	1.9	1.7	7.0	7.9	5.7	19	2.9	.6	.4	.5
18	4.8	6.7	1.4	1.1	6.1	7.6	12	18	2.6	.8	.4	.4
19	4.9	7.3	1.0	.9	6.3	7.3	13	19	2.9	.6	.4	.4
20	5.1	7.3	.9	.9	5.9	6.7	13	19	2.5	.6	.4	.4
21	4.8	6.5	1.2	1.0	5.7	7.0	13	19	2.3	.4	.5	.4
22	4.6	6.7	4.0	1.5	5.5	7.0	13	21	2.3	.5	.4	.4
23	4.3	6.7	6.5	2.0	5.5	6.5	12	20	2.0	.4	.4	.4
24	3.4	6.5	4.9	3.0	5.5	6.7	11	19	1.9	.6	.4	.4
25	3.9	6.5	5.9	4.0	5.5	6.7	11	16	1.8	.6	.4	.4
26	4.8	6.1	5.1	5.0	5.3	6.7	11	15	1.5	.6	.3	.4
27	4.6	6.1	5.1	5.5	5.3	7.3	12	15	1.2	.4	.4	.4
28	4.6	3.9	5.5	5.7	5.1	7.9	12	13	1.3	.4	.4	.4
29	4.4	2.7	5.3	5.5	----------	8.5	11	11	1.4	.6	.6	.4
30	4.2	3.9	6.1	5.5	----------	8.8	10	10	1.8	.5	.4	.4
31	4.3	----------	4.9	5.3	----------	9.1	----------	12	----------	.6	.4	----------
Total	131.3	170.7	170.7	139.8	150.7	200.9	298.8	589.3	137.5	26.4	12.8	17.2
Mean	4.24	5.69	5.51	4.51	5.38	6.48	9.96	19.0	4.58	0.85	0.41	0.57
Ac-ft	260	339	339	277	299	398	593	1,170	273	52	25	34

Calendar year 1965 : Max 51 Min 0.9 Mean 9.91 Ac-ft 7,180
Water year 1965-66 : Max 40 Min 0.3 Mean 5.61 Ac-ft 4,060

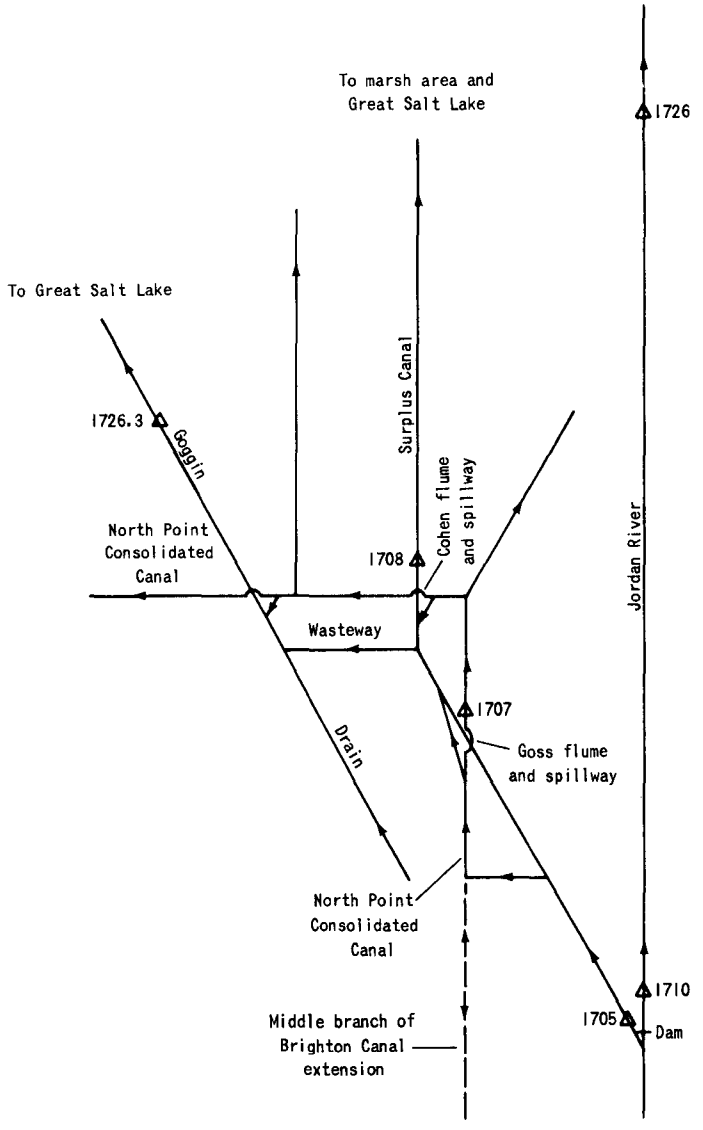


Figure 5.— Schematic diagram showing relation of flows in lower Jordan River basin.

Table 42.--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 1966. 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 1966 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.--23 years (1943-66), 178 cfs (128,900 acre-ft per year).

Extremes.--1942-66: 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 45 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	241	110	116	176	170	327	144	76	212	129	170	226
2	208	113	116	150	176	327	144	78	187	129	153	260
3	204	100	110	147	226	331	144	89	170	135	159	237
4	197	100	110	138	234	331	147	132	194	132	188	204
5	183	103	108	138	219	331	116	132	208	121	187	204
6	176	105	108	132	237	335	100	150	190	108	183	241
7	170	103	100	132	260	364	96	166	187	118	166	201
8	170	103	100	141	249	398	116	249	241	105	183	197
9	147	103	108	141	249	429	121	363	245	110	163	190
10	156	103	116	138	256	420	150	797	226	129	129	180
11	166	103	132	135	249	407	190	602	212	153	121	201
12	153	105	116	132	264	416	156	425	215	147	118	226
13	159	108	135	132	264	411	138	339	212	150	116	204
14	163	108	121	135	276	429	123	343	201	135	123	303
15	224	110	113	138	276	452	132	284	164	129	121	323
16	234	110	105	132	268	343	118	260	156	123	116	264
17	187	123	100	126	280	166	89	241	170	135	113	241
18	170	129	96	121	280	135	138	190	159	132	116	241
19	156	132	93	116	287	126	166	194	147	121	123	241
20	144	141	98	123	299	123	153	183	126	121	132	208
21	138	132	98	113	307	129	135	212	110	123	135	170
22	132	126	100	118	307	110	132	295	118	132	163	147
23	129	123	103	121	315	113	113	303	132	135	173	135
24	126	123	98	123	311	118	108	241	132	129	163	163
25	126	126	100	118	323	118	100	215	147	156	156	204
26	123	126	105	121	347	116	85	219	159	176	144	208
27	138	126	103	121	356	121	91	260	163	159	135	204
28	147	126	108	118	356	123	87	268	147	147	150	180
29	147	126	116	116	----------	126	78	264	147	135	159	170
30	141	118	230	144	----------	135	78	253	150	126	147	173
31	129	----------	187	159	----------	147	----------	230	----------	170	156	----------
Total	5,084	3,464	3,549	4,095	7,641	7,957	3,688	8,053	5,227	4,150	4,561	6,346
Mean	164	115	114	132	273	257	123	260	174	134	147	212
Ac-ft	10,080	6,870	7,040	8,120	15,160	15,780	7,320	15,970	10,370	8,230	9,050	12,590

Calendar year 1965: Max 931 Min 85 Mean 222 Ac-ft 160,800
Water year 1965-66 : Max 797 Min 76 Mean 175 Ac-ft 126,600

Table 43.--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 1966.

Gage.--Water-stage recorder.

Extremes.--1963-66: Maximum daily discharge, 90 cfs Aug. 15, 1966; no flow for long periods.

Remarks.--Records fair, except those for periods of no gage-height record which are poor. 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 16.)

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	36	23	13	12	16	15	37	0	70	0	0
2	40	36	23	12	12	13	15	38	0	70	0	0
3	40	37	23	12	12	13	15	41	0	70	0	15
4	38	36	23	12	12	12	15	42	25	70	0	47
5	36	36	23	10	12	12	14	42	62	70	0	54
6	34	36	23	10	12	12	14	43	61	70	34	58
7	34	36	23	12	12	13	13	42	50	70	78	45
8	34	36	23	12	12	14	13	42	76	70	80	32
9	32	36	23	12	12	6	14	42	72	65	80	22
10	33	36	24	12	12	0	14	42	72	65	80	18
11	37	28	24	12	12	0	15	39	71	65	85	9
12	41	22	24	12	12	0	15	40	70	60	83	10
13	42	22	24	12	12	0	15	44	70	60	84	11
14	42	22	24	12	12	0	15	49	70	58	85	5
15	43	22	23	12	12	0	14	47	70	57	90	0
16	45	22	23	12	12	0	13	47	72	57	87	0
17	40	22	23	11	12	0	12	46	71	60	86	0
18	38	23	22	11	12	0	23	47	70	54	85	0
19	38	23	22	11	12	0	32	47	67	54	85	0
20	37	23	22	11	13	0	32	47	68	58	82	40
21	37	23	22	11	12	0	32	50	70	58	84	49
22	37	23	20	11	11	0	32	55	70	60	63	58
23	37	22	19	11	11	0	31	55	43	63	41	57
24	37	22	19	11	11	0	31	38	0	64	45	58
25	37	22	19	11	11	0	31	0	0	52	48	64
26	33	23	19	11	11	0	31	0	0	0	33	55
27	27	22	19	11	12	0	24	0	0	0	2	47
28	26	23	18	11	15	0	25	0	0	0	0	47
29	34	23	18	11	----------	0	32	0	41	0	0	48
30	38	23	21	11	----------	0	39	0	68	0	0	50
31	37	----------	14	11	----------	6	----------	0	----------	0	0	----------
Total	1,146	816	670	354	335	117	636	1,062	1,409	1,570	1,520	899
Mean	37.0	27.2	21.6	11.4	12.0	3.8	21.2	34.2	47.0	50.6	49.0	30.0
Ac-ft	2,270	1,620	1,330	702	664	232	1,260	2,110	2,790	3,110	3,010	1,780

Calendar year 1965 : Max 70 Min 0 Mean 23.6 Ac-ft 17,080
Water year 1965-66 : Max 90 Min 0 Mean 28.9 Ac-ft 20,880

Note.--No gage-height record Jan. 24 to Feb. 17 and July 1-13; discharge estimated.

Table 44.--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 1966.

Gage.--Water-stage recorder.

Extremes.--1963-66: Maximum daily discharge, about 600 cfs June 7, 8, 1964; minimum daily, 16 cfs Aug. 25, 1964.

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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	216	78	83	178	154	199	120	29	161	53	154	160
2	207	75	82	162	161	200	117	29	137	39	128	223
3	194	68	81	151	188	178	114	42	81	34	128	170
4	174	61	82	138	207	143	122	57	89	52	149	146
5	166	59	80	132	202	134	114	75	120	68	165	130
6	156	61	79	118	217	134	99	85	127	59	45	153
7	149	63	77	113	236	144	88	108	100	34	53	168
8	151	64	75	118	233	172	75	141	119	34	104	158
9	139	65	76	121	227	228	81	237	129	28	66	173
10	133	66	78	121	236	148	96	474	120	59	34	175
11	138	73	98	119	227	131	125	484	122	89	26	184
12	127	80	90	117	236	131	128	364	109	83	32	208
13	118	85	96	116	233	132	106	169	109	82	38	200
14	124	85	92	116	247	120	93	184	104	59	40	246
15	139	85	86	122	249	104	93	225	93	63	52	328
16	200	88	80	119	236	75	90	159	86	58	46	285
17	158	90	74	111	246	35	72	127	98	69	44	250
18	143	102	70	105	249	23	77	96	99	83	46	246
19	134	99	65	99	250	19	102	112	92	73	52	240
20	122	109	64	105	265	18	99	122	81	81	52	200
21	109	105	64	100	270	18	85	135	59	73	46	128
22	108	99	67	98	272	18	78	194	62	70	78	105
23	106	96	73	105	274	18	71	212	194	76	130	91
24	102	91	71	108	274	18	58	189	154	76	144	100
25	96	87	71	108	285	20	55	150	134	186	120	134
26	98	89	79	105	285	20	42	160	141	219	152	171
27	100	86	86	106	286	21	52	185	152	170	129	182
28	116	86	78	105	278	22	55	214	131	152	110	180
29	116	86	80	101	----------	33	35	223	80	126	114	172
30	105	87	165	120	----------	95	26	230	52	108	113	172
31	97	----------	192	144	----------	79	----------	201	----------	128	128	----------
Total	4,241	2,468	2,634	3,681	6,723	2,830	2,568	5,412	3,335	2,584	2,718	5,478
Mean	137	82.3	85.0	119	240	91.3	85.6	175	111	83.4	87.7	183
Ac-ft	8,410	4,900	5,220	7,300	13,330	5,610	5,090	10,730	6,610	5,130	5,390	10,870

Calendar year 1965 : Max 515 Min 20 Mean 143 Ac-ft 103,800
Water year 1965-66 : Max 484 Min 18 Mean 122 Ac-ft 89,590

Table 45.--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 1966. 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 1966 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.--23 years (1943-66), 139 cfs (101,600 acre-ft per year).

Extremes.--1942-66: 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 irrigation and industrial and municipal water supplies. See table 42 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	158	129	132	137	143	157	119	138	163	150	155	150
2	154	115	132	140	143	156	127	140	159	147	150	159
3	152	127	131	140	149	159	127	146	156	148	152	154
4	151	127	131	143	152	159	127	156	159	147	155	144
5	149	127	131	142	152	160	121	153	163	146	156	141
6	147	127	130	141	154	161	118	156	162	144	155	90
7	147	127	130	141	158	163	116	158	163	146	151	148
8	146	127	130	142	156	168	120	165	171	142	154	147
9	143	126	130	141	155	172	120	164	173	143	151	148
10	142	127	132	141	158	171	117	169	171	147	147	153
11	145	125	136	139	155	170	111	130	168	151	145	158
12	143	127	131	138	158	175	122	106	168	147	143	163
13	145	130	139	137	157	176	136	112	168	149	141	162
14	144	128	137	137	161	153	132	113	167	148	143	114
15	117	130	135	137	162	126	133	101	159	147	143	152
16	154	129	132	135	159	116	130	94	157	146	142	174
17	144	133	131	132	161	139	123	145	158	147	141	170
18	140	133	131	131	165	154	133	147	156	146	141	171
19	139	135	130	127	169	151	138	152	153	143	143	171
20	137	136	132	124	169	150	136	153	148	142	143	165
21	136	132	132	122	169	151	146	162	145	143	144	159
22	136	131	132	125	168	147	147	174	148	143	151	155
23	135	133	132	125	168	147	143	174	152	143	155	152
24	134	133	132	125	167	139	142	166	151	141	154	158
25	134	132	132	125	170	126	140	163	155	143	154	165
26	133	132	132	126	173	126	136	163	157	143	151	167
27	136	131	133	127	174	127	141	171	159	145	148	166
28	138	131	134	128	146	126	140	171	155	149	149	161
29	138	132	138	129	----------	127	137	171	155	147	151	160
30	137	132	155	134	----------	118	138	169	154	145	148	160
31	134	----------	141	139	----------	102	----------	166	----------	155	149	----------
Total	4,388	3,884	4,136	4,150	4,471	4,572	3,916	4,648	4,773	4,523	4,605	4,637
Mean	142	129	133	134	160	147	131	150	159	146	149	155
Ac-ft	8,700	7,700	8,200	8,230	8,870	9,070	7,770	9,220	9,470	8,970	9,130	9,200

Calendar year 1965: Max 190 Min 0.3 Mean 118 Ac-ft 85,080
Water year 1965-66: Max 176 Min 90 Mean 144 Ac-ft 104,500

Table 45.--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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	399	239	248	313	313	484	263	214	375	279	325	376
2	362	228	248	290	319	483	271	218	346	276	303	419
3	356	227	241	287	375	490	271	235	326	283	311	391
4	348	227	241	281	386	490	274	288	353	279	343	348
5	332	230	239	280	371	491	237	285	371	267	343	345
6	323	232	238	273	391	496	218	306	352	252	338	331
7	317	230	230	273	418	527	212	324	350	264	317	349
8	316	230	230	283	405	566	236	414	412	247	337	344
9	290	229	238	282	404	601	241	527	418	253	314	338
10	298	230	248	279	414	591	267	966	397	276	276	333
11	311	228	268	274	404	577	301	732	380	304	266	359
12	296	232	247	270	422	591	278	531	383	294	261	389
13	304	238	274	269	421	587	274	451	380	299	257	366
14	307	236	258	272	437	582	255	456	368	283	266	417
15	341	240	248	275	438	578	265	385	323	276	264	475
16	388	239	237	267	427	459	248	354	313	269	258	438
17	331	256	231	258	441	305	212	386	328	282	254	411
18	310	262	227	252	445	289	271	337	315	278	257	412
19	295	267	223	243	456	277	304	346	300	264	266	412
20	281	277	230	247	468	273	289	336	274	263	275	373
21	274	264	230	235	476	280	281	374	255	266	279	329
22	268	257	232	243	475	257	279	469	266	275	314	302
23	264	256	235	246	483	260	256	477	284	278	328	287
24	260	256	230	248	478	257	250	407	283	270	317	321
25	260	258	232	243	493	244	240	378	302	299	310	369
26	256	258	237	247	520	242	221	382	316	319	295	375
27	274	257	236	248	530	248	232	431	322	304	283	370
28	285	257	242	246	502	249	227	439	302	296	299	341
29	285	258	254	245	----------	253	215	435	302	282	310	330
30	278	250	385	278	----------	253	216	422	304	271	295	333
31	263	----------	328	298	----------	249	----------	396	----------	325	305	----------
Total	9,472	7,348	7,685	8,245	12,112	12,529	7,604	12,701	10,000	8,673	9,166	10,983
Mean	306	245	248	266	433	404	253	410	333	280	296	366
Ac-ft	18,790	14,570	15,240	16,350	24,020	24,850	15,080	25,190	19,830	17,200	18,180	21,780

Calendar year 1965: Max 1,070 Min 191 Mean 340 Ac-ft 245,900
Water year 1965-66: Max 966 Min 212 Mean 319 Ac-ft 231,100

Table 46.--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 1966. Records for previous years in the files of the Salt Lake City Water Department.

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

Extremes.--1963-66: Maximum daily discharge, 53.8 cfs Sept. 1, 1965; no flow for long periods.

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

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	18.3	14.3	9.3		0	7.1	40.3	14.0	25.4	4.7	25.4
2	21.5	2.0	12.7	9.3		0	8.1	38.0	20.3	26.4	5.4	37.2
3	24.0	0	7.8	15.5		0	8.1	35.5	24.3	30.7	5.1	43.4
4	30.1	0	7.8	10.5		0	8.7	31.6	20.2	29.6	5.1	42.6
5	22.5	0	7.8	7.6		0	13.0	25.1	14.4	32.2	9.9	42.2
6	7.3	0	7.8	10.7		0	13.2	19.2	15.5	36.7	12.6	46.5
7	12.2	16.4	7.8	10.9		0	10.2	30.8	7.3	24.6	9.5	46.2
8	23.3	10.4	7.8	12.4		0	26.5	17.4	14.6	33.8	17.1	47.3
9	29.9	21.7	14.4	12.4		0	13.3	6.8	15.3	28.2	11.5	26.0
10	24.2	18.4	15.0	14.7		5.1	10.9	0	21.4	14.6	16.0	29.0
11	11.2	15.5	6.4	9.5		8.4	11.6	6.8	12.4	18.6	12.2	14.7
12	20.2	1.4	6.2	7.3		7.6	11.6	28.1	16.4	29.1	16.4	24.2
13	9.0	0	5.4	7.3		7.6	15.5	25.1	18.6	30.7	15.5	11.5
14	21.9	0	4.7	14.0		7.6	16.3	30.7	23.7	30.2	11.6	18.6
15	17.7	15.0	4.7	12.4		7.8	23.7	31.0	25.9	31.0	18.6	21.9
16	0	1.6	4.7	11.6		8.5	30.1	41.9	20.2	20.2	20.6	27.3
17	6.8	7.1	4.7	.9		6.8	14.7	39.7	20.3	15.5	19.8	26.7
18	2.9	7.0	4.7	0		9.8	20.5	34.1	19.2	36.0	12.2	27.0
19	7.8	2.2	4.7	0		9.3	26.0	24.8	20.5	29.6	16.7	19.5
20	5.0	13.8	4.7	0		9.1	23.3	36.1	21.7	29.5	19.1	18.6
21	1.1	7.8	20.5	0		7.6	21.5	37.2	20.5	32.9	19.5	18.6
22	9.3	7.8	8.8	0		8.4	10.9	20.8	13.0	18.6	12.4	17.1
23	15.5	10.4	12.2	0		7.9	20.2	38.9	19.2	16.9	15.8	18.1
24	12.7	6.2	17.8	0		7.9	19.7	39.1	20.3	4.5	18.8	12.2
25	9.9	4.7	8.5	0		7.8	33.0	42.3	26.7	18.8	23.7	21.1
26	16.0	.6	4.7	0		8.1	9.9	41.2	29.8	8.4	17.8	20.8
27	20.2	5.7	21.5	0		7.9	7.9	37.5	33.8	13.8	24.0	18.6
28	20.2	8.8	9.8	0		8.5	29.8	33.5	30.2	27.7	14.4	18.6
29	23.6	18.4	6.2	0		7.1	7.1	32.4	24.6	18.3	37.5	12.4
30	24.8	10.9	9.3	0	----------	7.6	25.3	24.5	27.4	13.3	44.8	12.4
31	15.7	----------	9.3	0	----------	7.7	----------	19.5	----------	4.8	35.8	----------
Total	474.3	232.1	282.7	176.3	0	174.1	497.7	909.9	611.7	730.6	524.1	765.7
Mean	15.3	7.74	9.12	5.69	0	5.61	16.6	29.4	20.4	23.6	16.9	25.5
Ac-ft	941	460	561	350	0	345	987	1,800	1,210	1,450	1,040	1,520

Calendar year 1965 : Max 53.8 Min 0 Mean 9.20 Ac-ft 6,670
Water year 1965-66 : Max 47.3 Min 0 Mean 14.7 Ac-ft 10,660

Table 47.--1716. Parleys Creek at Suicide Rock, near Salt Lake City

Location.--Lat 40°42'35", long 111°47'48" (corrected), 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 1966. 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.--1963-66: 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 46) 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	2.6	2.9	2.9	2.9	3.1	20	12	6.5	4.1	2.4	2.4
2	2.8	2.9	2.9	2.8	2.8	3.1	12	11	8.8	3.9	2.4	2.6
3	2.8	2.8	2.9	2.9	2.8	3.1	11	10	10	4.1	2.4	2.6
4	2.8	2.8	2.9	2.9	2.8	2.9	12	10	9.2	4.1	2.4	2.6
5	2.8	3.1	2.9	2.9	2.8	2.9	12	9.6	12	3.7	2.4	2.6
6	2.8	3.3	2.8	2.9	2.8	3.3	12	10	16	3.9	2.4	2.6
7	2.8	3.3	2.8	2.9	2.9	3.5	11	9.2	17	3.7	2.4	2.6
8	2.8	2.9	2.8	2.9	2.8	3.7	11	8.8	25	5.4	2.4	2.6
9	2.8	2.9	2.8	2.9	2.8	6.5	11	10	21	6.5	2.4	2.6
10	2.8	2.9	3.1	2.9	2.9	12	11	12	20	5.4	2.4	2.6
11	2.6	2.9	3.3	2.9	2.6	16	11	50	16	5.4	2.4	2.6
12	2.6	2.9	3.1	2.9	2.8	20	11	56	15	4.6	2.4	2.6
13	2.6	2.9	3.1	2.9	2.6	20	11	41	14	4.6	2.4	2.6
14	2.6	2.9	3.1	2.9	2.8	21	11	37	12	5.4	2.4	3.1
15	3.1	3.1	3.1	2.9	2.8	21	11	32	8.4	5.0	2.4	2.8
16	2.9	2.9	3.1	2.9	2.4	24	11	27	6.9	5.7	2.3	2.4
17	2.9	3.3	3.1	2.9	2.8	24	10	19	6.5	6.5	2.3	2.4
18	2.9	3.1	2.9	2.9	2.8	28	12	16	5.7	4.1	2.3	2.3
19	2.9	3.3	2.9	2.9	2.8	34	11	20	5.0	2.9	2.3	2.6
20	2.9	3.1	2.9	2.9	2.8	44	11	24	4.6	2.6	2.3	2.8
21	2.9	3.1	2.9	2.8	2.9	28	10	18	4.6	2.8	2.3	2.8
22	2.9	2.9	2.9	2.9	2.9	11	10	17	4.6	2.6	2.3	2.8
23	2.8	2.9	2.9	2.9	2.9	16	10	20	4.6	2.8	2.3	2.9
24	2.8	2.9	2.8	2.9	2.9	48	9.6	14	5.0	2.8	2.3	2.9
25	2.8	3.1	2.8	2.9	2.9	61	11	11	5.0	2.9	2.3	2.9
26	3.1	3.1	2.8	2.9	2.9	61	11	9.2	4.4	2.8	2.2	2.9
27	3.1	3.1	2.8	2.9	2.9	61	10	8.8	4.1	2.8	2.2	2.9
28	2.9	2.9	2.8	2.9	2.9	62	9.6	8.0	4.1	2.8	2.2	2.9
29	2.8	2.9	2.9	2.8		54	9.2	7.6	4.1	2.6	2.0	2.9
30	2.8	2.9	2.9	2.8	----------	48	10	7.3	4.1	2.4	2.0	2.9
31	2.6	----------	2.9	2.8	----------	40	----------	6.5	----------	2.4	2.2	----------
Total	87.5	89.7	90.8	89.4	78.7	786.1	333.4	552.0	284.2	121.3	71.8	80.8
Mean	2.82	2.99	2.93	2.88	2.81	25.4	11.1	17.8	9.47	3.91	2.32	2.69
Ac-ft	174	178	180	177	156	1,560	661	1,090	564	241	142	160

Calendar year 1965: Max 208 Min 2.6 Mean 24.9 Ac-ft 18,050
Water year 1965-66: Max 62 Min 2.0 Mean 7.30 Ac-ft 5,280

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	1,791	1,566	1,654	1,592	1,711	2,139	1,651	2,670	3,073	2,893	2,161	1,546	539
	Change in contents	-225	+88	-62	+119	+428	-488	+1,019	+403	-180	-732	-615	-1,007	
Diversion to Salt Lake City (1715 F)		941	460	561	350	0	345	987	1,800	1,210	1,450	1,040	1,520	
Parleys Creek	At Suicide Rock (1716)	174	178	180	177	156	1,560	661	1,090	564	241	142	160	
	Adjusted total flow	890	726	679	646	584	1,420	2,670	3,290	1,590	959	567	673	

Adjusted total flow: Calendar year 1965, 26,310; water year 1965-66, 14,690

Table 48.--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 1966. 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 the site about 0.2 mile upstream at different datum.

Extremes.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.8					5.0	2.2	2.4	1.0	0.6	0.7
2	1.0	.8					5.0	2.2	2.6	1.0	.6	.7
3	1.0	.8				0.7	5.0	2.2	2.4	1.0	.7	.6
4	.9	.8					4.9	2.4	2.2	1.0	.6	.4
5	.9	.8					4.9	2.4	2.2	1.0	.5	.4
6	.9	.9					4.6	2.7	2.0	1.0	.5	.4
7	.8	.8					4.4	3.7	1.8	.9	.4	.4
8	.8	.8	0.7			.8	4.2	3.9	1.8	.8	.4	.3
9	.8	.7					3.9	3.7	1.7	.7	.5	.3
10	.8	.8					3.9	4.4	1.4	.8	.4	.3
11	.8	.8				1.0	3.9	4.2	1.4	1.1	.4	.4
12	.8	.9				1.2	3.5	3.9	1.4	1.1	.4	.4
13	.8	1.0				1.5	3.3	3.9	1.5	1.0	.4	.5
14	.8	1.0				1.5	2.9	3.7	1.5	.9	.4	.7
15	.8	2.0		0.7	0.7		2.7	3.5	1.5	.9	.4	.4
16	1.0	1.1					2.6	3.5	1.4	.9	.4	.4
17	.9	1.7					2.9	3.5	1.4	1.1	.3	.5
18	.9	1.2					3.1	3.5	1.3	1.2	.4	.4
19	.9	1.0				2.0	2.9	3.5	1.3	1.1	.4	.4
20	.9	1.0					2.9	3.3	1.3	1.0	.4	.4
21	.9	.9					2.7	3.3	1.3	.9	.4	.4
22	.9	.8					2.7	3.3	1.3	.8	.4	.4
23	.9	.7	.6				2.6	3.3	1.3	.8	.4	.5
24	.9	.7					2.6	3.3	1.2	.8	.3	.7
25	.9	.7					2.4	3.3	1.2	.8	.2	.7
26	.9	.7				2.5	2.4	3.1	1.1	.8	.2	.7
27	.9	.7				3.0	2.4	3.1	1.0	.7	.3	.7
28	.9	.7				3.5	2.4	2.9	1.0	.7	.2	.6
29	.9	.7			---------	4.0	2.2	2.9	1.0	.6	.2	.6
30	.9	.7			---------	4.5	2.2	2.7	1.0	.4	.2	.7
31	.9	---------			---------	5.0	---------	2.5	---------	.5	.3	---------
Total	27.4	27.0	20.1	21.7	19.6	57.2	101.1	100.0	45.9	27.3	12.2	15.0
Mean	0.88	0.90	0.65	0.70	0.70	1.85	3.37	3.23	1.53	0.88	0.39	0.50
Ac-ft	54	54	40	43	39	113	201	198	91	54	24	30

Calendar year 1965: Max 45 Min - Mean 5.18 Ac-ft 3,750
Water year 1965-66: Max - Min - Mean 1.30 Ac-ft 941

Note.--No gage-height record Nov. 28 to Apr. 3; discharge estimated.

Table 49.--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 1966. 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.--1963-66: Maximum daily discharge, 3.2 cfs May 11-17, 1964; minimum daily, 0.4 cfs Mar. 16-31, 1965.

Remarks.--The following tabulation shows the amount of water from Emigration Tunnel Springs that reached Emigration Creek without diversion. These amounts are included in the record for station 1720 (table 50).

Month	Acre-ft	Month	Acre-ft	Month	Acre-ft
October	6	February	0	June	0
November	3	March	0	July	0
December	0	April	0	August	0
January	0	May	0	September	0

Total for calendar year, 164 acre-ft; for water year, 9 acre-ft.

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

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	2.4	2.3	2.3	2.1	2.0	2.2	2.4	2.5	2.2	2.1	1.9
2	2.4	2.4	2.3	2.3	2.1	2.0	2.2	2.5	2.4	2.2	2.1	1.9
3	2.4	2.4	2.3	2.2	2.1	2.0	2.2	2.5	2.4	2.2	2.1	1.9
4	2.4	2.4	2.3	2.2	2.1	2.0	2.2	2.5	2.4	2.2	2.1	1.9
5	2.7	2.4	2.3	2.2	2.1	2.0	2.3	2.5	2.4	2.2	2.1	1.9
6	2.7	2.4	2.3	2.2	2.1	2.0	2.3	2.5	2.4	2.2	2.1	1.8
7	2.7	2.4	2.3	2.2	2.1	2.0	2.3	2.5	2.4	2.2	2.1	1.8
8	2.7	2.4	2.3	2.2	2.1	2.0	2.3	2.5	2.4	2.2	2.0	1.8
9	2.7	2.4	2.3	2.2	2.1	2.0	2.3	2.5	2.4	2.2	2.0	1.8
10	2.7	2.4	2.3	2.2	2.1	2.0	2.3	2.4	2.4	2.2	2.0	1.8
11	2.4	2.4	2.3	2.2	2.1	2.0	2.3	2.4	2.4	2.2	2.0	1.8
12	2.4	2.4	2.3	2.2	2.1	2.0	2.3	2.4	2.4	2.2	2.0	1.8
13	2.4	2.4	2.3	2.2	2.1	2.0	2.3	2.4	2.4	2.2	2.0	1.8
14	2.4	2.4	2.2	2.2	2.0	2.1	2.3	2.4	2.4	2.2	2.0	1.8
15	2.4	2.4	2.2	2.2	2.0	2.1	2.3	2.4	2.4	2.2	2.0	1.8
16	2.4	2.4	2.2	2.2	2.0	2.1	2.3	2.5	2.4	2.2	2.0	1.8
17	2.4	2.4	2.2	2.2	2.0	2.1	2.3	2.5	2.4	2.2	2.0	1.8
18	2.4	2.4	2.2	2.2	2.0	2.1	2.4	2.5	2.4	2.2	2.0	1.8
19	2.4	2.4	2.2	2.2	2.0	2.1	2.4	2.5	2.4	2.2	2.0	1.8
20	2.4	2.4	2.2	2.2	2.0	2.1	2.4	2.5	2.3	2.2	2.0	1.8
21	2.4	2.4	2.2	2.2	2.0	2.1	2.4	2.5	2.3	2.2	2.0	1.8
22	2.4	2.4	2.2	2.2	2.0	2.1	2.4	2.5	2.3	2.2	2.0	1.8
23	2.4	2.3	2.2	2.2	2.0	2.1	2.4	2.5	2.3	2.2	1.9	1.8
24	2.4	2.3	2.2	2.1	2.0	2.1	2.4	2.5	2.3	2.2	1.9	1.8
25	2.4	2.3	2.2	2.1	2.0	2.1	2.4	2.5	2.3	2.2	1.9	1.8
26	2.4	2.3	2.2	2.1	2.0	2.1	2.4	2.5	2.3	2.1	1.9	1.7
27	2.4	2.3	2.2	2.1	2.0	2.2	2.4	2.5	2.3	2.1	1.9	1.7
28	2.4	2.3	2.3	2.1	2.0	2.2	2.4	2.5	2.2	2.1	1.9	1.7
29	2.4	2.3	2.3	2.1	----------	2.2	2.4	2.5	2.2	2.1	1.9	1.7
30	2.4	2.3	2.3	2.1	----------	2.2	2.4	2.5	2.2	2.1	1.9	1.7
31	2.4	----------	2.3	2.1	----------	2.2	----------	2.5	----------	2.1	1.9	----------
Total	76.2	71.2	69.9	67.6	57.3	64.3	69.9	76.8	70.7	67.6	61.8	54.0
Mean	2.46	2.37	2.25	2.18	2.05	2.07	2.33	2.48	2.36	2.18	1.99	1.80
Ac-ft	151	141	139	134	114	128	139	152	140	134	123	107

Calendar year 1965 : Max 2.7 Min 0.4 Mean 2.32 Ac-ft 1,680
Water year 1965-66 : Max 2.7 Min 1.7 Mean 2.21 Ac-ft 1,600

Table 50.--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 1966. 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.--1900-66: Maximum daily discharge, 156 cfs Apr. 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 49).

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

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	2.5	2.0	2.0	2.3	2.0	11	7.6	6.8	4.2	2.7	1.8
2	3.2	2.5	2.0	2.0	2.0	2.0	11	7.6	6.6	4.2	2.7	1.8
3	3.0	2.5	2.0	2.0	2.0	2.0	11	7.6	6.3	4.0	2.7	1.8
4	3.0	2.5	2.0	2.0	1.8	1.8	11	7.6	6.0	4.0	2.7	1.8
5	3.0	2.5	2.0	2.0	1.8	1.8	9.8	7.6	6.0	4.0	2.5	1.6
6	3.0	2.3	2.0	2.0	1.8	2.0	9.4	7.4	6.0	4.0	2.5	1.6
7	3.0	2.3	2.0	2.0	2.3	2.5	9.1	7.4	5.8	3.8	2.3	1.6
8	3.0	2.3	2.0	2.0	2.3	2.7	8.8	7.6	6.0	3.8	2.5	1.6
9	2.7	2.0	2.0	2.0	2.0	3.2	8.8	7.6	5.8	3.8	2.3	1.6
10	2.7	2.0	2.0	2.0	2.0	4.2	9.1	9.8	5.6	3.2	2.3	1.6
11	2.7	1.8	3.5	2.0	1.8	4.2	9.1	9.8	5.6	3.2	2.3	1.6
12	2.7	1.8	3.5	2.0	2.0	4.5	8.8	9.4	5.6	3.2	2.3	1.6
13	2.7	1.8	3.8	2.0	1.8	4.8	8.4	9.1	5.3	3.2	2.3	1.6
14	2.7	2.0	3.8	2.0	2.3	6.8	8.4	9.1	5.3	3.2	2.3	2.7
15	3.2	3.2	3.2	1.8	2.3	8.2	8.2	8.8	5.0	3.0	2.3	2.7
16	2.7	2.7	3.0	1.8	2.0	8.2	7.9	8.8	5.0	3.0	2.0	1.8
17	2.5	3.5	2.5	1.6	2.3	7.6	7.9	8.8	5.0	3.0	2.0	1.6
18	2.7	3.5	2.5	1.6	2.3	6.6	8.8	8.8	5.0	3.0	2.0	1.6
19	2.7	3.2	2.0	1.6	2.3	6.8	8.4	8.4	5.0	3.0	2.0	1.3
20	2.5	3.2	1.8	1.8	2.0	7.1	8.2	8.4	5.0	2.7	2.0	1.3
21	2.7	3.2	1.6	1.8	2.0	7.1	8.2	8.4	4.8	2.7	2.0	1.3
22	2.5	3.0	1.6	1.8	2.0	6.6	8.2	8.4	4.8	2.7	2.0	1.3
23	2.5	2.5	1.6	2.3	2.0	6.3	8.2	8.4	4.8	2.5	2.0	1.3
24	2.5	2.3	1.6	2.5	2.0	6.6	7.9	8.2	4.8	2.5	2.0	1.3
25	2.5	2.0	1.6	2.3	2.0	6.8	7.9	8.2	4.8	2.7	2.0	1.8
26	2.7	2.0	1.6	2.3	2.0	7.4	7.9	7.9	4.8	3.0	2.0	1.8
27	3.0	2.0	1.6	2.3	2.0	7.9	7.9	7.6	4.5	3.2	2.0	1.6
28	3.0	2.0	1.8	2.3	2.0	8.8	7.9	7.4	4.5	3.2	1.8	1.6
29	2.7	2.3	2.0	2.3	----------	10	7.6	7.4	4.5	3.2	1.8	1.6
30	2.5	2.3	2.7	2.3	----------	11	7.6	7.1	4.5	3.0	1.8	1.6
31	2.5	----------	2.3	2.3	----------	11	----------	7.1	----------	3.0	1.8	----------
Total	86.0	73.7	69.6	62.7	57.4	178.5	262.4	253.3	159.5	101.2	67.9	49.8
Mean	2.77	2.46	2.25	2.02	2.05	5.76	8.75	8.17	5.32	3.26	2.19	1.66
Ac-ft	171	146	138	124	114	354	520	502	316	201	135	99

Calendar year 1965: Max 61 Min 1.6 Mean 10.3 Ac-ft 7,450
Water year 1965-66 : Max 11 Min 1.3 Mean 3.90 Ac-ft 2,820

Note.--Doubtful gage-height record Aug. 11 to Sept. 13, Sept. 16-18; discharge estimated.

Table 51.--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 1966.

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

Extremes.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7	2.3	2.2	2.2	2.6	2.7	8.9	6.0	5.0	3.0	0.2	0.5
2	2.7	2.3	1.9	1.5	2.1	3.0	9.3	5.7	5.2	3.0	.2	.2
3	2.6	2.3	2.1	2.2	1.8	2.2	8.9	5.7	5.0	2.5	.4	.1
4	2.6	2.3	2.1	2.1	1.8	1.5	8.6	5.7	4.4	2.5	.5	.1
5	2.5	2.3	2.1	2.2	1.8	1.9	8.3	5.4	5.0	2.5	.8	.1
6	2.5	2.5	2.1	2.2	2.1	2.2	7.9	5.0	5.0	1.5	.3	.1
7	2.5	2.3	2.1	2.1	2.5	2.8	7.6	5.0	4.4	1.2	.1	.1
8	2.5	2.3	2.1	1.9	1.9	2.8	7.3	4.7	5.2	.2	.2	.1
9	2.5	2.3	2.3	1.9	1.6	3.3	7.3	6.0	4.4	.2	.3	.1
10	2.3	2.3	4.7	1.9	2.1	4.0	8.3	7.0	4.4	.4	.1	.1
11	2.5	2.3	3.3	2.2	1.6	4.2	8.3	8.0	3.8	.3	.1	.5
12	2.3	2.3	3.3	1.9	2.0	4.2	7.6	8.5	3.8	.6	.3	.2
13	2.3	2.3	3.3	2.0	2.0	4.4	7.0	8.3	4.0	.9	.8	.1
14	2.3	2.2	2.3	2.3	2.0	6.0	6.0	7.9	4.0	1.4	.6	4.3
15	4.0	3.6	1.5	2.2	1.9	6.7	5.7	7.9	4.0	1.4	.8	.6
16	2.3	3.0	1.7	1.9	1.5	7.0	5.7	7.6	4.0	.9	.7	.1
17	2.2	6.0	1.5	1.5	2.1	5.7	6.0	7.3	4.0	.9	1.2	.1
18	2.2	3.4	1.5	1.5	2.3	5.0	7.6	7.3	4.0	.9	1.3	.3
19	2.2	3.8	1.2	1.5	2.7	5.0	7.6	6.7	4.0	.6	.1	1.3
20	2.2	3.8	1.3	1.5	2.5	5.2	6.3	6.7	4.0	.6	.1	1.2
21	2.1	3.0	1.5	1.2	2.3	5.7	6.0	7.0	3.5	.6	.1	1.4
22	2.1	2.8	1.5	1.6	2.1	4.7	6.7	7.3	3.5	.5	.4	1.6
23	2.1	2.7	1.6	1.8	2.1	4.4	6.7	7.3	3.5	.2	.7	2.3
24	2.0	2.6	1.5	1.9	2.1	4.7	6.0	7.0	3.5	.6	.1	2.0
25	2.1	3.2	1.5	1.9	2.1	5.0	5.7	6.7	3.5	1.0	.1	.1
26	2.1	3.3	1.5	1.9	2.1	6.0	5.7	6.3	3.5	.1	.1	.2
27	2.1	3.0	1.5	1.9	2.1	7.0	5.7	6.3	3.0	.1	.1	.2
28	2.1	1.9	1.9	1.8	2.1	7.9	5.7	6.3	3.0	.2	.1	.2
29	2.2	1.9	2.8	1.8	----------	8.3	5.7	6.3	3.0	.1	.2	.1
30	2.3	1.9	3.6	1.8	----------	8.6	5.4	5.7	3.0	.1	.1	.1
31	2.3	----------	2.5	2.1	----------	8.9	----------	5.2	----------	.1	.1	----------
Total	73.4	82.2	66.0	58.4	57.9	151.0	209.5	203.8	120.6	29.1	11.2	18.4
Mean	2.37	2.74	2.13	1.88	2.07	4.87	6.98	6.57	4.02	0.94	0.36	0.61
Ac-ft	146	163	131	116	115	300	416	404	239	58	22	36

Calendar year 1965 : Max 54 Min 1.2 Mean 8.77 Ac-ft 6,360
Water year 1965-66 : Max 9.3 Min 0.1 Mean 2.96 Ac-ft 2,150

Note.--No gage-height record May 10-12, June 14 to July 6; discharge estimated.

Table 52.--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., on 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 1966. 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.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	2.2	2.2	2.1	1.6	1.6	4.8	4.7	3.5	2.0	1.3	1.1
2	2.3	2.2	2.2	1.9	1.6	1.7	5.0	4.7	3.4	1.8	1.3	1.2
3	2.3	2.2	2.1	2.1	1.6	1.7	5.1	4.6	3.3	1.8	1.4	1.1
4	2.2	2.2	2.1	2.1	1.6	1.5	5.0	4.6	3.3	1.7	1.4	1.0
5	2.2	2.2	2.1	2.1	1.6	1.6	4.9	4.5	3.3	1.7	1.3	1.0
6	2.2	2.1	2.1	2.0	1.6	1.7	4.7	4.5	3.3	1.7	1.3	1.0
7	2.2	2.1	2.1	2.0	1.8	1.9	4.6	4.5	3.2	1.7	1.3	1.0
8	2.1	2.1	2.1	2.0	1.6	2.0	4.6	4.5	3.3	1.6	1.3	1.0
9	2.1	2.1	2.2	2.0	1.5	2.4	4.6	4.8	3.2	1.7	1.3	.90
10	2.1	2.1	2.4	1.9	1.5	2.7	5.1	5.4	3.2	1.8	1.3	.90
11	2.1	2.1	2.6	1.9	1.5	2.7	5.3	5.0	3.1	1.8	1.3	1.0
12	2.2	2.2	2.3	1.9	1.5	2.8	5.1	4.7	3.0	1.7	1.3	1.0
13	2.2	2.2	2.3	1.9	1.5	3.2	4.8	4.6	2.9	1.7	1.3	1.0
14	2.2	2.1	2.2	1.9	1.5	3.7	4.7	4.5	2.8	1.6	1.3	1.4
15	2.3	3.0	2.1	1.9	1.5	4.0	4.7	4.4	2.7	1.5	1.3	1.3
16	2.3	2.5	2.0	1.6	1.5	4.2	4.6	4.3	2.6	1.6	1.3	1.2
17	2.2	3.4	1.8	1.6	1.5	4.1	4.8	4.2	2.5	1.7	1.3	1.2
18	2.1	2.8	1.9	1.6	1.5	3.8	5.5	4.3	2.5	1.6	1.2	1.1
19	2.1	2.6	1.9	1.7	1.6	3.7	5.3	4.2	2.4	1.6	1.2	1.1
20	2.1	2.8	1.9	1.8	1.6	3.8	5.1	4.1	2.4	1.6	1.2	1.1
21	2.1	2.5	1.9	1.6	1.6	3.7	5.0	4.1	2.4	1.5	1.2	1.1
22	2.1	2.5	2.0	1.7	1.6	3.5	5.3	4.2	2.4	1.5	1.2	1.1
23	2.2	2.5	2.0	1.7	1.6	3.4	5.1	4.1	2.3	1.5	1.2	1.1
24	2.1	2.3	1.9	1.7	1.6	3.4	5.0	4.0	2.2	1.5	1.1	1.1
25	2.1	2.3	1.9	1.6	1.6	3.4	5.0	4.0	2.1	1.5	1.0	1.1
26	2.2	2.3	1.9	1.6	1.6	3.5	5.1	3.9	2.0	1.5	1.0	1.1
27	2.2	2.3	1.9	1.6	1.6	3.7	5.1	3.8	2.0	1.4	1.0	1.2
28	2.2	2.2	2.0	1.6	1.6	4.0	5.0	3.8	1.9	1.4	1.0	1.2
29	2.2	2.2	2.1	1.6	----------	4.2	4.9	3.8	1.8	1.3	.90	1.2
30	2.3	2.3	2.4	1.6	----------	4.4	4.8	3.6	1.8	1.3	.90	1.1
31	2.2	----------	2.2	1.6	----------	4.6	----------	3.5	----------	1.3	.90	----------
Total	67.7	70.6	64.8	55.9	44.0	96.6	148.6	133.9	80.8	49.6	37.30	32.90
Mean	2.18	2.35	2.09	1.80	1.57	3.12	4.95	4.32	2.69	1.60	1.20	1.10
Ac-ft	134	140	129	111	87	192	295	266	160	98	74	65

Calendar year 1965: Max 22 Min 1.8 Mean 5.07 Ac-ft 3,670
Water year 1965-66: Max 5.5 Min 0.9 Mean 2.42 Ac-ft 1,750

Table 53.--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 1966. 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	0.5	0.4	0.4	0.4	0.4	0.4	1.2	2.0	2.2	2.5	1.5
2	.7	.5	.4	.4	.4	.4	.4	1.6	2.4	2.3	2.1	1.4
3	.6	.5	.4	.4	.4	.4	.4	2.2	2.1	2.1	2.1	1.3
4	.7	.5	.4	.4	.4	.4	.4	2.8	2.4	1.6	2.1	1.2
5	.6	.5	.4	.4	.4	.4	.4	1.5	1.2	2.8	2.1	1.0
6	.9	.5	.4	.4	.4	.4	.4	1.3	1.2	2.4	2.0	2.2
7	.8	.5	.4	.4	.4	.4	.4	1.2	2.4	2.4	.9	2.3
8	.8	.5	.4	.4	.4	.4	.4	1.2	2.1	2.3	2.4	2.2
9	.7	.5	.4	.4	.4	.4	.4	1.2	1.9	2.2	2.4	2.2
10	.7	.5	.4	.4	.4	.4	.4	1.2	2.1	1.8	2.1	2.2
11	.8	.5	.4	.4	.4	.4	.4	1.0	1.8	2.7	2.1	1.0
12	.9	.5	.4	.4	.4	.4	.4	1.3	1.3	2.8	2.1	1.9
13	.5	.5	.4	.4	.4	.4	.4	1.8	2.0	2.8	1.9	1.6
14	.6	.5	.4	.4	.4	.4	.4	1.3	2.4	2.7	1.8	.6
15	1.6	.4	.4	.4	.4	.4	.4	1.1	2.4	2.6	2.3	.6
16	1.1	.5	.4	.4	.4	.4	.4	1.3	1.8	2.6	2.2	1.0
17	1.1	.5	.4	.4	.4	.4	.4	1.8	1.7	1.8	2.2	.7
18	1.0	.5	.4	.4	.4	.4	.4	1.8	1.4	2.3	2.6	.7
19	1.1	.5	.4	.4	.4	.4	.4	1.6	1.2	2.9	2.2	.9
20	.6	.5	.4	.4	.4	.4	.4	1.6	1.8	2.9	1.4	1.8
21	.6	.4	.4	.4	.4	.4	.4	1.6	2.2	2.8	1.0	1.8
22	.7	.5	.4	.4	.4	.4	.4	1.3	1.8	2.9	2.1	1.8
23	.7	.4	.4	.4	.4	.4	.4	1.6	1.5	2.8	2.0	1.6
24	.7	.4	.4	.4	.4	.4	.4	2.0	1.7	2.6	2.0	2.0
25	.6	.4	.4	.4	.4	.4	.4	1.8	1.7	2.2	2.0	1.6
26	.6	.4	.4	.4	.4	.4	.4	2.0	1.2	2.5	1.8	1.7
27	.6	.4	.4	.4	.4	.4	.4	2.2	2.8	2.7	1.6	2.1
28	.6	.4	.4	.4	.4	.4	.4	1.8	2.4	2.6	1.5	2.0
29	.7	.4	.4	.4	----------	.4	.4	2.2	2.3	2.2	2.2	1.1
30	.7	.4	.4	.4	----------	.4	.4	2.4	2.7	1.5	2.2	1.2
31	.6	----------	.4	.4	----------	.4	----------	1.5	----------	2.2	2.1	----------
Total	23.6	14.0	12.4	12.4	11.2	12.4	12.0	50.4	57.9	75.2	62.0	45.2
Mean	0.75	0.47	0.40	0.40	0.40	0.40	0.40	1.63	1.93	2.43	2.00	1.51
Ac-ft	47	28	25	25	22	25	24	100	115	149	123	90

Calendar year 1965 : Max 2.5 Min 0.2 Mean 0.72 Ac-ft 524
Water year 1965-66: Max 2.9 Min 0.4 Mean 1.06 Ac-ft 773

Table 54.--1722.2 Red Butte Creek below Red Butte Reservoir, near Salt Lake City

Location.--Lat 40°46'30", long 111°48'25" (corrected), 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 1966. 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.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	1.6	1.9	1.5	1.6	1.5	4.8	3.9	1.5			
2	1.3	1.6	1.9	1.5	1.6	1.5	5.0	3.9	1.5			
3	1.2	1.6	1.9	1.6	1.6	1.5	5.0	3.9	1.5			
4	1.2	1.6	1.9	1.6	1.6	1.5	5.1	2.7	1.5			
5	1.2	1.6	1.8	1.6	1.6	1.5	5.1	2.6	1.5			
6	1.2	1.6	1.8	1.6	1.6	1.5	5.1	3.6	1.5			
7	1.2	1.6	1.7	1.7	1.6	1.6	5.2	3.5	1.4			
8	1.2	1.6	1.7	1.8	1.5	1.6	5.3	3.5	1.4			
9	1.2	1.6	1.7	1.8	1.5	1.5	5.4	3.5	1.4			
10	1.2	1.6	1.8	1.7	1.5	2.4	5.4	4.0	1.2			
11	1.2	1.6	1.9	1.7	1.6	3.1	5.3	4.2	1.2			
12	1.2	1.6	1.9	1.7	1.6	3.4	5.3	4.1	1.2			
13	1.3	1.6	1.9	1.8	1.6	3.7	5.2	4.0	1.2			
14	.3	1.7	1.9	1.7	1.6	3.7	5.0	3.9	1.2			
15	.7	1.7	1.8	1.6	1.6	3.7	5.0	3.8	1.2			
16	.7	1.7	1.8	1.6	1.6	3.9	5.0	3.7	1.1			
17	.7	1.7	1.8	1.6	1.6	3.8	5.1	3.6	1.4			
18	.7	1.9	1.8	1.8	1.6	3.8	5.1	3.3	1.3			
19	.7	1.9	1.8	1.9	1.8	3.7	5.2	3.3	1.2			
20	1.4	1.9	1.7	1.9	1.8	3.7	5.2	3.3	1.2			
21	1.4	1.8	1.6	1.9	1.8	3.6	5.2	3.3	1.2			
22	1.4	1.9	1.6	1.9	1.6	3.6	5.2	3.2	1.2			
23	1.4	1.9	1.6	1.9	1.5	3.5	5.2	3.1	.9			
24	1.4	1.9	1.5	1.9	1.5	3.5	5.1	3.1	.8			
25	1.4	1.9	1.5	1.9	1.6	3.6	5.1	3.1	.7			
26	1.3	1.9	1.5	1.9	1.5	3.7	5.0	3.0	.7			
27	1.3	1.9	1.5	1.9	1.5	3.8	4.8	2.9	0			
28	1.3	1.9	1.5	1.9	1.5	3.8	4.8	2.0	0			
29	1.2	1.9	1.5	1.8	----------	4.3	4.9	1.9	0			
30	1.2	1.9	1.5	1.6	----------	4.6	4.8	1.7	0			
31	1.2	----------	1.5	1.6	----------	4.8	----------	1.5	----------			----------
Total	35.6	52.2	53.2	53.9	44.6	95.4	152.9	101.1	32.1	0	0	0
Mean	1.15	1.74	1.72	1.74	1.59	3.08	5.10	3.26	1.07	0	0	0
Ac-ft	71	104	106	107	88	189	303	201	64	0	0	0

Calendar year 1965: Max 21 Min 0 Mean 4.07 Ac-ft 2,950
Water year 1965-66: Max 5.4 Min 0 Mean 1.70 Ac-ft 1,230

Table 55.--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 1964, February 1965 to March 1966, May to September 1966.

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

Extremes.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.8	1.1	1.0	1.4	1.1		3.5	0.3			
2	.9	.8	1.0	.8	1.0	1.3		3.5	.2			
3	1.0	.8	1.0	1.6	.8	.8		3.0	.4			
4	.8	.8	1.0	.8	.8	.6		2.0	.4			
5	.6	.8	1.0	.9	.8	1.1		2.0	.9			
6	.6	.7	1.1	.8	1.0	1.1		2.5	.8			
7	.5	.7	1.1	.8	1.2	1.2		2.5	.3			
8	.6	.6	1.1	.8	.8	1.3		2.5	.4			
9	1.3	.6	1.2	.8	.8	1.3		2.5	0			
10	1.3	.6	1.9	.8	1.1	2.0		3.0	0			
11	1.2	.6	2.0	.8	.7	2.0		3.0	.5			
12	1.4	.6	1.6	.9	1.2	2.0		3.5	.8			
13	1.1	.6	1.9	.9	1.0	2.5		3.6	.6			
14	0	.7	1.5	1.1	1.1	2.5		3.9	.2			
15	.2	.8	.9	1.1	1.0	2.5		4.2	0			
16	1.3	1.0	.7	.8	.8	3.0		3.9	0			
17	1.0	1.5	.5	.6	1.1	3.0		3.0	.2			
18	.5	1.9	.8	.8	1.1	3.0		2.2	0			
19	.3	1.9	1.0	1.4	1.2	3.0		1.5	.1			
20	.2	2.2	.9	2.2	1.1	3.0		1.5	.3			
21	.7	1.8	2.4	1.3	1.0	2.6		1.3	0			
22	.9	1.5	3.0	2.0	.9	2.2		1.6	0			
23	.8	1.4	2.8	2.0	.9	2.0		2.0	0			
24	1.1	1.3	2.0	2.0	.9	1.9		2.6	0			
25	.8	1.4	1.5	2.0	.9	1.9		2.4	0			
26	.7	1.6	1.0	2.5	.9	2.0		1.9	0			
27	.7	1.5	1.0	2.5	.8	2.0		1.4	0			
28	.8	1.3	.9	3.0	.9	2.0		.9	0			
29	.8	1.4	1.3	2.6	----------	2.5		.6	0			
30	.9	1.1	1.6	2.0	----------	3.0		1.4	0			
31	.8	----------	1.2	1.8	----------	3.5	----------	.5	----------			----------
Total	24.8	33.3	42.0	43.4	27.2	63.9	—	73.9	6.4	0	0	0
Mean	0.80	1.11	1.35	1.40	0.97	2.06	—	2.38	0.21	0	0	0
Ac-ft	49	66	83	86	54	127	—	147	13	0	0	0

Calendar year 1965 : Max - Min - Mean - Ac-ft -
Water year 1965-66 : Max - Min - Mean - Ac-ft -

Note.--No gage-height record Nov. 11-17, Mar. 9-20, 26-31, May 1-12; discharge estimated. No record or estimates for April.

Table 56.--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.--18.5 sq mi.

Records available.--October 1963 to September 1966.

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

Extremes.--1963-66: Maximum daily discharge, 74 cfs May 23, 1964; minimum daily 0.4 cfs several days in 1964 and 1966.

Remarks.--Records good. Water is diverted 2.9 miles upstream from the gage to the City Creek treatment plant. (See table 57.) 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	1.5	1.6	1.4	1.8	1.6	2.8	11	2.2	2.2	1.0	0.6
2	1.8	1.5	1.8	1.5	1.5	1.8	2.6	13	2.8	1.5	1.5	.7
3	1.8	2.5	1.8	1.4	1.6	1.5	2.8	9.7	2.1	1.0	.8	.6
4	1.5	2.0	1.5	1.6	1.8	1.5	2.8	5.6	1.8	1.2	.6	.5
5	1.5	2.0	1.5	1.6	1.8	1.4	3.0	4.0	1.8	1.2	.8	.5
6	1.6	1.5	1.5	1.6	1.6	1.5	2.6	10	2.1	1.2	.6	.5
7	1.5	1.5	1.5	2.1	1.5	1.8	2.8	12	2.4	.9	.4	.5
8	1.9	1.5	1.6	1.6	1.4	1.8	2.6	14	1.9	1.2	.4	.5
9	1.8	1.5	1.5	1.6	1.4	1.9	2.4	22	1.8	.9	.5	.5
10	1.5	1.5	1.6	1.5	1.8	1.9	4.6	24	1.7	.9	.5	.5
11	1.5	1.5	1.5	1.5	1.6	1.9	5.8	27	1.5	1.4	.4	.5
12	1.5	1.5	1.4	1.5	1.6	1.9	6.0	28	1.4	1.2	.4	.5
13	1.5	1.5	1.5	1.5	1.4	2.1	4.6	28	1.5	1.2	.6	.6
14	1.5	1.5	1.5	1.6	1.5	2.6	3.0	26	1.3	1.4	.6	.9
15	1.6	2.5	1.4	1.5	1.5	2.6	3.0	24	1.7	1.4	.6	.8
16	1.8	2.5	1.5	1.2	2.0	2.6	2.8	23	1.7	1.4	.5	.7
17	1.5	3.0	1.5	1.5	1.5	2.4	3.2	23	1.5	1.8	.6	.7
18	1.6	2.2	1.5	1.4	1.5	2.6	5.0	17	1.3	1.4	.4	.8
19	1.6	3.2	1.1	1.4	1.5	2.4	7.1	14	1.3	1.3	.4	1.0
20	1.8	2.1	.9	1.4	1.5	2.2	11	15	1.2	.7	.5	1.2
21	1.8	1.8	1.2	2.0	1.5	2.6	12	18	1.4	1.2	.4	.9
22	1.8	1.9	1.5	1.5	1.4	2.1	11	18	1.3	1.0	.4	.8
23	1.9	1.9	1.5	1.0	1.5	1.9	12	18	1.3	.9	.7	.8
24	1.9	2.2	1.4	1.5	1.5	2.4	10	17	1.5	.5	.6	.9
25	2.1	2.1	1.5	1.5	1.5	2.8	11	15	1.3	.5	.8	.8
26	2.0	2.1	1.5	1.5	1.5	2.5	10	12	1.0	.7	.6	.8
27	2.5	1.8	1.2	2.0	1.5	2.5	10	11	1.4	.7	.6	.8
28	2.5	1.6	1.4	1.5	1.5	2.4	10	9.9	1.2	1.0	.5	.9
29	2.0	2.1	1.6	1.5	----------	2.4	9.0	9.3	1.4	.5	.5	.8
30	1.5	1.9	1.5	1.4	----------	2.6	10	9.0	2.1	.4	.4	.7
31	1.5	----------	1.5	1.4	----------	2.8	----------	6.2	----------	1.2	.4	----------
Total	54.1	57.9	45.5	47.2	43.7	67.0	185.5	493.7	48.9	34.0	18.0	21.3
Mean	1.75	1.93	1.47	1.52	1.56	2.16	6.18	15.9	1.63	1.10	0.58	0.71
Ac-ft	107	115	90	94	87	133	368	979	97	67	36	42

Calendar year 1965: Max 64 Min 0.8 Mean 8.60 Ac-ft 6,220
Water year 1965-66: Max 28 Min 0.4 Mean 3.06 Ac-ft 2,220

Note.--No gage-height record Oct. 26 to Nov. 17, Jan. 21-29, Feb. 14-20, Apr. 26 to May 1, and Sept. 1-8; discharge estimated.

Table 57.--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 1966. Records for previous years in the files of the Salt Lake City Water Department.

Extremes.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.8	8.5	7.9	7.6	6.3	6.5	16	13	23	13	9.4	7.8
2	9.8	8.5	7.7	7.6	6.2	6.4	16	13	22	13	9.3	7.8
3	9.6	8.3	7.7	7.6	6.2	6.0	16	18	21	13	9.4	7.4
4	9.8	8.3	7.7	7.4	6.2	6.0	15	24	21	13	9.3	7.3
5	9.6	8.2	7.7	7.4	6.2	6.0	15	24	20	12	9.0	7.3
6	9.4	8.4	7.7	7.4	6.5	6.0	14	22	20	12	9.0	7.3
7	9.4	8.2	7.9	7.3	6.3	6.4	15	22	20	12	8.8	7.3
8	9.3	8.0	7.9	7.4	6.3	6.6	16	18	19	12	8.6	7.0
9	9.4	8.2	8.0	7.6	6.3	6.8	16	15	18	12	8.6	7.0
10	9.3	8.2	8.2	7.4	6.2	7.6	16	10	18	12	8.6	7.1
11	9.4	8.2	8.0	7.4	6.2	7.6	14	10	18	12	8.5	7.1
12	9.3	8.2	8.0	7.3	6.4	7.7	14	12	17	11	8.5	6.8
13	9.3	8.2	8.0	7.3	6.2	8.7	16	11	17	11	8.2	6.8
14	9.1	8.4	8.2	7.4	6.4	9.5	16	10	17	11	8.2	7.6
15	9.6	8.7	7.9	7.4	6.2	11	17	11	16	11	8.2	7.3
16	9.3	8.2	7.9	7.3	6.2	11	18	10	16	11	8.1	7.1
17	9.1	8.2	7.7	7.2	6.2	9.9	19	10	16	11	8.1	6.8
18	9.3	8.4	7.7	7.2	6.2	9.3	19	18	16	11	8.1	7.0
19	9.1	8.4	7.8	7.2	6.2	9.0	13	19	15	11	7.9	6.8
20	9.3	8.2	7.8	7.1	6.2	9.0	12	16	15	10	7.9	6.8
21	9.0	8.2	7.6	7.1	6.2	9.1	13	14	15	10	8.1	6.6
22	8.8	8.2	7.6	7.1	6.2	9.0	15	14	15	10	7.9	6.6
23	8.8	8.0	7.6	7.1	6.3	8.7	12	14	15	10	7.9	6.6
24	8.8	8.0	7.6	7.1	6.3	8.7	12	14	15	10	7.8	6.6
25	8.8	8.0	7.8	7.0	6.3	9.3	12	17	14	9.9	7.6	6.6
26	9.0	8.1	7.6	6.4	6.3	10	12	17	14	9.9	7.6	6.8
27	8.7	8.1	7.6	6.4	6.2	12	12	18	14	9.6	7.6	6.8
28	8.8	7.9	7.6	6.4	6.2	14	12	17	14	9.6	7.6	6.8
29	8.6	7.9	7.9	6.4	----------	14	12	17	13	9.4	7.4	6.7
30	8.5	7.9	7.9	6.4	----------	15	12	17	13	9.4	7.6	6.5
31	8.5	----------	7.8	6.4	----------	15	----------	22	----------	9.7	7.6	----------
Total	284.5	246.2	242.0	221.3	175.1	281.8	437	487	507	341.5	256.4	210.0
Mean	9.18	8.21	7.81	7.14	6.25	9.09	14.6	15.7	16.9	11.0	8.27	7.00
Ac-ft	564	488	480	439	347	559	867	966	1,010	677	509	417

Calendar year 1965 : Max 26 Min 2.5 Mean 11.5 Ac-ft 8,300
Water year 1965-66 : Max 24 Min 6.0 Mean 10.1 Ac-ft 7,320

Table 58.--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 1966. 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, 1963-66: 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 56) and the diversion to the City Creek treatment plant (1724 A, table 57), 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	10	9.5	9.0	8.1	8.1	19	24	25	15	10	8.4
2	12	10	9.5	9.1	7.7	8.2	19	26	25	14	11	8.5
3	11	11	9.5	9.0	7.8	7.5	19	28	23	14	10	8.0
4	11	10	9.2	9.0	8.0	7.5	18	30	23	14	9.9	7.8
5	11	10	9.2	9.0	8.0	7.4	18	28	22	13	9.8	7.8
6	11	9.9	9.2	9.0	8.1	7.5	17	32	22	13	9.6	7.8
7	11	9.7	9.4	9.4	7.8	8.2	18	34	22	13	9.2	7.8
8	11	9.5	9.5	9.0	7.7	8.4	19	32	21	13	9.0	7.5
9	11	9.7	9.5	9.2	7.7	8.7	18	37	20	13	9.1	7.5
10	11	9.7	9.8	8.9	8.0	9.5	21	34	20	13	9.1	7.6
11	11	9.7	9.5	8.9	7.8	9.5	20	37	20	13	8.9	7.6
12	11	9.7	9.4	8.8	8.0	9.6	20	40	18	12	8.9	7.3
13	11	9.7	9.5	8.8	7.6	11	21	39	18	12	8.8	7.4
14	11	9.9	9.7	9.0	7.9	12	19	36	18	12	8.8	8.5
15	11	11	9.3	8.9	7.7	14	20	35	18	12	8.8	8.1
16	11	11	9.4	8.5	8.2	14	21	33	18	12	8.6	7.8
17	11	11	9.2	8.7	7.7	12	22	33	18	13	8.7	7.5
18	11	11	9.2	8.6	7.7	12	24	35	17	12	8.5	7.8
19	11	12	8.9	8.6	7.7	11	20	33	16	12	8.3	7.8
20	11	10	8.7	8.5	7.7	11	23	31	16	11	8.4	8.0
21	11	10	8.8	9.1	7.7	12	25	32	16	11	8.5	7.5
22	11	10	9.1	8.6	7.6	11	26	32	16	11	8.3	7.4
23	11	9.9	9.1	8.1	7.8	11	24	32	16	11	8.6	7.4
24	11	10	9.0	8.6	7.8	11	22	31	16	10	8.4	7.5
25	11	10	9.3	8.5	7.8	12	23	32	15	10	8.4	7.4
26	11	10	9.1	7.9	7.8	12	22	29	15	11	8.2	7.6
27	11	9.9	8.8	8.4	7.7	14	22	29	15	10	8.2	7.6
28	11	9.5	9.0	7.9	7.7	16	22	27	15	11	8.1	7.7
29	11	10	9.5	7.9	----------	16	21	26	14	9.9	7.9	7.5
30	10	9.8	9.4	7.8	----------	18	22	26	15	9.8	8.0	7.2
31	10	----------	9.3	7.8	----------	18	----------	28	----------	11	8.0	----------
Total	341	303.6	287.5	268.5	218.8	348.1	625	981	553	371.7	274.0	231.3
Mean	11.0	10.1	9.27	8.66	7.81	11.2	20.8	31.6	18.4	12.0	8.84	7.71
Ac-ft	676	602	570	533	434	690	1,240	1,950	1,100	737	543	459

Calendar year 1965 : Max 84 Min 7.4 Mean 20.1 Ac-ft 14,520
Water year 1965-66 : Max 40 Min 7.2 Mean 13.2 Ac-ft 9,530

Table 59.--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 1966.

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

Extremes.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	188	147	145	156	167	186	152	138	165	160	165	154
2	187	142	145	147	161	206	153	140	168	159	170	200
3	181	145	146	148	160	193	152	142	170	148	171	184
4	174	149	146	156	163	186	154	148	173	152	165	167
5	160	149	146	159	161	182	150	160	166	158	166	158
6	160	149	146	156	162	184	142	156	180	155	171	133
7	160	150	146	154	179	187	138	157	192	152	162	132
8	158	149	146	153	179	190	134	163	196	142	158	155
9	156	149	146	153	174	195	126	189	203	144	162	154
10	154	147	158	152	180	201	143	233	192	147	159	159
11	154	145	190	159	178	200	150	229	182	159	153	160
12	154	147	157	156	173	203	125	191	170	155	140	163
13	155	150	182	154	171	204	145	194	175	146	129	161
14	156	149	157	155	172	200	142	180	175	146	124	187
15	170	161	149	150	174	163	135	167	160	148	138	148
16	174	165	146	146	170	152	133	146	148	146	141	171
17	164	186	144	143	172	150	128	127	155	134	145	178
18	159	177	142	142	181	176	204	160	156	144	150	175
19	156	170	139	140	191	179	191	163	150	146	153	174
20	152	183	142	136	200	182	167	162	154	148	156	176
21	152	162	145	134	197	200	160	166	152	149	159	168
22	152	157	146	134	195	177	160	186	148	147	162	164
23	152	157	148	135	200	169	160	198	149	150	164	159
24	151	154	146	136	200	172	155	201	151	152	163	162
25	150	158	141	136	201	160	155	189	146	148	160	175
26	150	163	142	136	209	161	150	179	144	178	153	176
27	150	154	146	136	207	160	150	168	156	172	151	175
28	154	150	146	138	194	170	146	175	154	168	151	175
29	153	149	146	138	----------	168	142	172	155	164	157	165
30	152	146	182	142	----------	156	138	177	160	159	154	163
31	151	----------	163	150	----------	142	----------	171	----------	159	146	----------
Total	4,939	4,659	4,669	4,530	5,071	5,554	4,480	5,327	4,945	4,735	4,798	4,971
Mean	159	155	151	146	181	179	149	172	165	153	155	166
Ac-ft	9,800	9,240	9,260	8,990	10,060	11,020	8,890	10,570	9,810	9,390	9,520	9,860

Calendar year 1965: Max 348 Min 120 Mean 177 Ac-ft 128,100
Water year 1965-66: Max 233 Min 124 Mean 161 Ac-ft 116,400

Table 60.--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 1966.

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

Extremes.--1963-66: Maximum daily discharge, 438 cfs June 27, 1965; no flow Jan. 15-19, 1964, result of freezeup.

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

Discharge, in cubic feet per second, water year October 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	8.0	11	12	5.6	106	4.3	15	58	6.1	5.2	49
2	12	7.8	11	11	5.6	110	5.0	11	28	9.9	3.9	8.3
3	11	8.0	11	9.1	5.2	124	7.0	11	4.5	9.1	3.7	4.8
4	9.8	9.5	11	9.1	5.6	157	7.2	12	3.6	12	3.2	3.7
5	9.0	11	12	9.1	5.9	161	7.0	14	3.9	17	3.0	15
6	8.7	11	13	9.1	6.1	162	6.1	15	5.2	15	2.5	38
7	8.7	11	12	10	7.2	172	5.4	17	4.6	12	2.8	6.4
8	8.3	11	11	11	6.5	196	4.5	18	7.0	9.1	7.0	2.5
9	7.8	11	11	11	6.0	248	4.3	15	10	14	7.5	2.4
10	8.0	11	12	11	6.0	292	4.8	55	12	13	8.3	2.6
11	8.3	12	13	9.9	6.0	271	4.6	57	11	13	11	2.4
12	11	13	13	8.3	6.5	255	4.8	120	10	11	12	1.6
13	13	18	15	7.8	6.5	253	4.6	190	14	12	21	1.1
14	13	11	15	9.5	6.7	257	4.6	137	13	16	23	1.4
15	15	9.9	16	12	6.7	291	4.6	75	9.1	14	24	2.2
16	16	8.7	15	11	6.1	264	4.5	90	8.3	10	24	2.0
17	17	9.9	15	10	7.0	172	4.5	105	11	15	25	1.4
18	18	13	14	9.0	7.8	133	5.0	83	14	14	29	1.8
19	16	12	14	8.0	9.5	123	8.0	52	13	10	30	1.2
20	15	11	14	7.0	11	124	14	26	12	8.3	28	.8
21	14	12	13	6.0	12	117	15	17	9.9	5.6	16	4.1
22	12	12	12	5.9	11	119	13	8.0	7.2	5.2	11	9.9
23	11	13	11	5.9	9.5	115	12	28	7.5	5.0	13	10
24	12	11	11	5.4	8.7	112	11	96	9.1	5.0	10	14
25	11	9.9	11	5.2	8.3	117	11	102	6.7	4.6	11	18
26	9.5	9.1	9.5	5.4	8.3	117	8.0	24	6.1	6.4	36	22
27	8.7	8.7	10	5.2	8.0	120	9.1	24	5.2	7.0	45	25
28	8.0	8.3	11	5.0	35	123	9.1	22	4.8	6.1	38	15
29	8.0	8.7	11	4.8	----------	112	7.8	22	5.2	4.8	37	8.3
30	8.0	9.1	11	5.0	----------	5.2	12	22	4.3	6.4	24	6.7
31	8.0	----------	13	5.6	----------	4.1	----------	44	----------	5.9	48	----------
Total	346.8	319.6	382.5	254.3	234.3	4,932.3	222.8	1,527.0	318.2	302.5	563.1	281.6
Mean	11.2	10.7	12.3	8.20	8.37	159	7.43	49.3	10.6	9.76	18.2	9.39
Ac-ft	688	634	759	504	465	9,780	442	3,030	631	600	1,120	559

Calendar year 1965: Max 438 Min 1.3 Mean 57.0 Ac-ft 41,280
Water year 1965-66: Max 292 Min 0.8 Mean 26.5 Ac-ft 19,210

Table 61.--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 1966.

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

Extremes.--1963-66: 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 1965 to September 1966

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	128	95	65	115	84	68	56	85	87	84	74	123
2	124	74	74	112	101	56	62	73	78	107	77	118
3	116	73	86	103	99	47	52	66	70	95	90	124
4	107	67	82	70	68	50	46	62	78	110	100	117
5	111	70	84	66	66	68	42	52	88	110	93	119
6	109	66	83	71	71	72	40	44	95	103	90	109
7	86	68	83	79	82	95	70	68	100	97	99	120
8	99	76	78	90	99	139	73	68	84	99	100	114
9	114	80	78	92	90	146	54	80	84	100	85	100
10	102	85	86	93	78	120	54	107	97	100	78	77
11	84	78	106	95	64	61	59	92	100	101	82	92
12	79	80	99	92	61	52	41	94	93	90	70	98
13	82	90	121	78	58	48	60	107	101	79	60	116
14	87	84	119	72	60	53	60	99	107	98	76	125
15	106	95	87	71	54	50	58	99	90	100	96	141
16	148	67	78	82	42	54	60	86	66	82	110	122
17	120	95	83	82	38	64	78	72	60	84	86	128
18	71	122	84	74	61	71	130	64	60	71	104	124
19	76	96	84	72	118	73	151	66	67	61	110	127
20	72	98	84	72	139	67	154	65	95	67	100	110
21	76	101	86	71	138	68	127	48	58	58	100	78
22	70	95	80	64	122	71	117	55	53	60	110	84
23	61	85	80	53	106	65	118	84	59	59	121	90
24	58	76	78	47	101	64	118	85	74	56	114	93
25	58	77	83	54	95	62	115	90	66	107	110	72
26	62	80	76	50	85	64	88	100	72	117	86	92
27	118	78	72	58	76	65	109	100	77	82	96	109
28	113	74	72	66	68	62	100	100	74	66	106	122
29	111	74	78	73	----------	59	107	88	70	54	108	135
30	104	62	125	77	----------	59	95	109	88	73	104	117
31	98	----------	124	77	----------	58	----------	77	----------	60	102	----------
Total	2,950	2,461	2,698	2,371	2,324	2,151	2,494	2,485	2,391	2,630	2,937	3,296
Mean	95.2	82.0	87.0	76.5	83.0	69.4	83.1	80.2	79.7	84.8	94.7	109.9
Ac-ft	5,850	4,880	5,350	4,700	4,610	4,270	4,950	4,930	4,740	5,220	5,830	6,540

Calendar year 1965 : Max 226 Min 53 Mean 90.9 Ac-ft 65,770
Water year 1965-66 : Max 154 Min 38 Mean 85.4 Ac-ft 61,870