

## 10171000 JORDAN RIVER AT SALT LAKE CITY, UT

LOCATION.--Lat 40°44'01", long 111°55'21", in SW<sup>1</sup>/SE<sup>1</sup>/NW<sup>1</sup>/4 sec. 14, T. 1 S., R. 1 W., Salt Lake County, Hydrologic Unit 16020204, on right bank at 1700 South Street and about 1000 West, Salt Lake City, 4,000 ft downstream from diversion structure at head of Surplus Canal, and 1.7 mi downstream from Mill Creek.

DRAINAGE AREA.--3,438 mi<sup>2</sup> includes 255 mi<sup>2</sup> closed basin in Cedar Valley.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1942 to current year.

REVISED RECORDS.--WDR UT-88-1: 1987 (combined flow).

GAGE.--Water-stage recorder. Datum of gage is 4,220.08 ft above NGVD of 1929. Prior to July 1, 1976 at site 3,200 ft upstream at same datum.

REMARKS.--Records good. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 4,000 ft upstream. Flow affected by regulation at Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies. For records of Surplus Canal see station 10170500. For records of combined flow, see following page.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 449 ft<sup>3</sup>/s, Aug 20, 1986, gage height, 4.41 ft, maximum gage height, 5.75 ft Jun 26, 1952; no flow, May 10, 24, 1952, May 21, 22, 1962, Sep 21, 1963, May 14 to Jun 1, 1964, and Sep 6, 7, 1965 entire flow diverted to Surplus Canal. Maximum daily combined discharge (Jordan River and Surplus Canal), 4,510 ft<sup>3</sup>/s, Jun 1, 1984; minimum daily, 89 ft<sup>3</sup>/s, Jun 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 166 ft<sup>3</sup>/s, Oct 18, gage height, 2.30 ft; minimum daily discharge, 12 ft<sup>3</sup>/s, Feb 23-28, Mar 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	97	94	108	102	12	110	107	114	109	112	118
2	116	102	99	107	101	27	109	107	114	109	112	119
3	120	108	82	107	101	65	109	107	114	112	112	119
4	122	107	68	107	101	83	109	108	114	114	112	118
5	123	107	72	106	97	94	109	107	114	117	113	119
6	124	106	92	107	93	94	111	109	114	119	113	120
7	124	110	101	108	93	95	112	111	114	116	113	116
8	125	107	94	107	94	98	111	112	114	119	113	109
9	127	105	93	107	93	98	110	111	114	116	113	110
10	146	104	92	107	93	97	111	109	114	118	113	124
11	142	103	100	108	94	97	109	109	114	117	114	118
12	141	104	103	107	94	96	109	104	114	116	114	119
13	139	103	103	107	95	98	110	103	113	114	114	118
14	137	102	103	107	98	86	111	103	112	109	114	118
15	129	102	103	104	98	89	115	105	112	109	114	117
16	123	100	102	102	49	100	94	105	112	111	115	126
17	121	100	104	102	15	108	71	105	112	110	115	130
18	147	101	107	102	15	106	44	105	111	112	116	127
19	152	99	107	102	15	105	71	87	111	114	116	123
20	131	100	107	102	14	105	92	94	111	110	117	134
21	121	100	107	102	14	104	89	114	111	109	117	138
22	119	75	107	103	13	103	87	114	112	110	117	137
23	118	77	107	102	12	104	96	114	112	110	118	137
24	115	88	107	102	12	86	104	114	111	111	118	136
25	115	85	106	102	12	83	104	114	111	111	118	135
26	115	85	106	102	12	93	106	115	111	111	119	135
27	114	81	107	102	12	101	102	115	112	111	118	134
28	115	83	107	103	12	99	103	114	111	111	118	131
29	114	94	107	102	---	99	106	114	111	111	118	127
30	114	95	107	101	---	101	106	114	110	112	118	125
31	118	---	107	101	---	107	---	114	---	112	118	---
TOTAL	3879	2930	3101	3236	1654	2833	3030	3364	3374	3490	3572	3737
MEAN	125.1	97.67	100.0	104.4	59.07	91.39	101.0	108.5	112.5	112.6	115.2	124.6
MAX	152	110	107	108	102	108	115	115	114	119	119	138
MIN	112	75	68	101	12	12	44	87	110	109	112	109
AC-FT	7690	5810	6150	6420	3280	5620	6010	6670	6690	6920	7090	7410

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

MEAN	157.4	145.4	144.1	145.3	146.6	136.4	120.9	112.9	142.3	154.7	151.4	159.2
MAX	253	223	230	292	274	258	251	210	258	253	242	245
(WY)	1985	1986	1986	1985	1985	1952	1952	1989	1991	1984	1983	1985
MIN	78.7	64.9	75.2	54.2	27.4	58.3	31.3	25.5	56.0	68.3	68.3	63.5
(WY)	1964	1964	1993	1993	2000	1962	1986	1964	1995	1961	1963	1963

## SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1944 - 2002

ANNUAL TOTAL	43039	38200	143.0
ANNUAL MEAN	117.9	104.7	223
HIGHEST ANNUAL MEAN			1985
LOWEST ANNUAL MEAN			92.3
HIGHEST DAILY MEAN	152	Oct 19	337
LOWEST DAILY MEAN	45	Jun 13	Jun 25 1952
ANNUAL SEVEN-DAY MINIMUM	81	Feb 16	0.00 May 10 1952
ANNUAL RUNOFF (AC-FT)	85370	75770	0.00 May 14 1964
10 PERCENT EXCEEDS	139	119	194
50 PERCENT EXCEEDS	118	109	143
90 PERCENT EXCEEDS	95	89	93