

Water-Data Report 2008

10171000 JORDAN RIVER AT SALT LAKE CITY, UT

Jordan Basin
Jordan Subbasin

LOCATION.--Lat 40°44'01", long 111°55'21" referenced to North American Datum of 1927, in SW ¼ SE ¼ NW ¼ sec.14, T.1 S., R.1 W., Salt Lake County, UT, Hydrologic Unit 16020204, on right bank at 1700 South Street and about 1000 West in Salt Lake City. The gage is located 4,000 ft downstream from diversion structure at head of Surplus Canal and 1.7 mi downstream from Mill Creek.

DRAINAGE AREA.--3,438 mi² of which 255 mi² probably is noncontributing, includes 255 mi² closed basin in Cedar Valley.

SURFACE-WATER 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, except for July 3-September 8, which are fair because of backwater at gage site. Flow has been 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 are present above station for irrigation, industrial, and municipal water supplies. For records of Surplus Canal see station 10170500. For records of combined flow, see station 10170490.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 449 ft³/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 ft³/s, Jun 1, 1984; minimum daily, 89 ft³/s, Jun 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 175 ft³/s, Aug 31, gage height, 2.98 ft; minimum daily discharge, 39 ft³/s, Feb 6.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	123	120	122	122	133	43	106	111	67	110	141	150
2	121	119	121	122	133	46	105	111	68	113	139	132
3	131	116	118	121	134	43	104	110	71	114	138	129
4	133	116	118	128	98	41	103	109	63	111	141	127
5	135	115	120	122	45	40	115	109	46	110	137	127
6	149	115	119	98	39	40	127	109	57	110	136	126
7	141	116	117	117	48	40	121	112	78	112	135	125
8	137	115	94	125	48	40	108	107	76	110	133	126
9	136	115	98	125	48	40	106	102	73	109	131	125
10	135	111	107	124	48	40	106	101	73	108	128	130
11	134	109	114	124	48	40	105	99	74	108	127	131
12	134	108	123	124	48	44	105	94	77	109	125	129
13	135	106	123	124	49	47	105	81	73	110	122	128
14	134	105	123	122	50	48	106	79	73	111	121	126
15	134	105	123	121	50	46	107	79	73	112	120	126
16	134	105	123	121	49	47	108	79	91	110	119	125
17	140	106	124	120	48	46	106	80	105	111	118	125
18	140	105	123	120	48	44	105	83	102	112	119	125
19	128	111	128	121	49	44	106	76	102	113	117	128
20	127	116	130	121	48	46	107	77	102	115	117	133
21	127	116	133	123	49	45	107	77	102	113	117	132
22	124	117	128	122	49	45	106	60	103	125	118	135
23	123	116	125	121	50	44	107	54	97	e123	119	135
24	123	118	125	121	53	44	124	50	111	120	120	135
25	123	117	125	121	53	84	114	70	111	119	121	135
26	123	118	124	123	46	122	109	85	93	120	120	134
27	122	118	125	120	43	124	109	54	81	122	118	134
28	122	119	123	110	42	124	109	66	96	127	118	134
29	122	118	124	119	41	125	110	88	110	141	118	134
30	122	117	124	133	---	126	111	86	110	142	117	133
31	121	---	122	133	---	120	---	74	---	141	125	---
Total	4,033	3,408	3,746	3,768	1,687	1,868	3,267	2,672	2,558	3,611	3,875	3,914
Mean	130	114	121	122	58.2	60.3	109	86.2	85.3	116	125	130
Max	149	120	133	133	134	126	127	112	111	142	141	150
Min	121	105	94	98	39	40	103	50	46	108	117	125
Ac-ft	8,000	6,760	7,430	7,470	3,350	3,710	6,480	5,300	5,070	7,160	7,690	7,760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944-2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	155	143	142	144	141	131	118	111	140	153	149	157
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	37.3	31.3	25.5	56.0	68.3	68.3	63.5
(WY)	(1964)	(1964)	(1993)	(1993)	(2000)	(2006)	(1986)	(1964)	(1995)	(1961)	(1963)	(1963)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1944-2008	
Annual total	43,533		38,407			
Annual mean	119		105		140	
Highest annual mean					223	1985
Lowest annual mean					92.3	1964
Highest daily mean	167	Jul 2	150	Sep 1	337	Jun 25, 1952
Lowest daily mean	33	Feb 18	39	Feb 6	0.00	May 10, 1952
Annual seven-day minimum	36	Feb 14	40	Mar 5	0.00	May 14, 1964
Annual runoff (ac-ft)	86,350		76,180		101,600	
10 percent exceeds	148		133		190	
50 percent exceeds	125		116		140	
90 percent exceeds	41		48		90	

