

JORDAN RIVER BASIN

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10145400 SALT CREEK BELOW NEPHI POWERPLANT DIVERSION, NEAR NEPHI, UT

LOCATION.--Lat 39°43'02", long 111°43'58", in SE^{1/4}SW^{1/4}NW^{1/4} sec. 5, T. 13 S., R. 2 E., Juab County, Hydrologic Unit 16020201, on right bank 5.6 mi east of Nephi, 0.2 mi below confluence with Hopp Creek, 200 ft downstream from Nephi powerplant diversion dam, and 115 ft below mouth of Bradley's Canyon.

DRAINAGE AREA.--60.0 mi².

PERIOD OF RECORD.--September 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,750 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Flow at gage is extensively regulated by Nephi City at powerplant diversion dam 200 ft above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 263 ft³/s, May 1, 1998, gage height, 6.34 ft; minimum daily discharge, 2.0 ft³/s, Dec 25-29, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66 ft³/s, May 29, gage height, 5.53 ft; minimum daily discharge, 3.0 ft³/s, Nov. 22, 23, Dec. 17, gage height, 4.55 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.8	3.2	5.7	5.6	6.5	6.2	6.5	48	9.3	7.3	6.2
2	3.6	5.0	3.2	5.1	6.0	6.1	6.2	6.5	39	9.3	7.8	6.3
3	4.1	5.4	3.2	5.7	5.8	6.2	6.2	6.5	28	8.9	8.3	5.8
4	4.0	5.6	3.2	5.7	5.7	6.5	6.2	6.7	22	8.6	7.8	5.6
5	3.8	5.7	3.2	5.5	4.8	6.2	6.2	6.8	18	8.6	7.2	5.8
6	3.6	5.7	3.2	5.5	4.8	6.2	6.2	6.8	16	8.6	6.7	5.8
7	3.6	5.7	3.2	5.1	4.7	6.2	6.2	6.8	15	9.6	6.2	6.0
8	3.6	6.0	3.2	4.8	4.8	6.2	6.2	6.8	13	9.2	6.3	6.0
9	3.6	8.2	3.2	5.0	5.4	6.2	6.2	6.8	12	9.1	6.2	6.3
10	3.6	6.6	3.2	5.4	5.4	5.3	6.2	6.8	11	9.0	5.8	6.6
11	3.6	6.8	3.2	5.3	5.7	3.7	6.2	6.8	10	9.1	5.7	6.3
12	3.6	5.4	3.2	5.2	5.6	3.6	6.2	6.9	11	9.1	4.7	6.0
13	3.6	3.6	3.2	5.3	5.9	3.5	6.9	8.2	9.4	9.1	5.5	5.9
14	3.6	3.6	3.2	5.2	6.5	3.5	6.2	12	8.2	8.4	6.0	5.8
15	3.6	3.5	3.1	5.2	6.3	3.5	6.1	18	7.7	8.4	6.4	5.7
16	3.6	3.3	3.1	5.0	6.3	3.6	6.1	27	7.9	8.3	6.2	5.4
17	3.6	3.3	3.0	5.2	6.3	3.6	6.0	35	8.8	8.2	6.1	5.3
18	3.6	3.2	3.2	5.0	6.2	3.6	7.1	47	8.6	8.3	5.9	5.5
19	3.6	3.2	3.2	5.0	6.2	3.5	6.2	46	10	8.0	5.8	5.6
20	3.6	3.1	3.2	5.2	6.2	3.6	6.7	34	13	7.4	5.7	5.5
21	3.6	3.1	3.2	5.2	4.5	3.6	6.1	32	11	7.3	6.1	5.3
22	3.6	3.0	3.2	5.2	3.2	3.6	6.1	36	8.6	7.2	8.0	5.3
23	3.6	3.0	3.3	5.2	3.2	3.6	6.2	42	9.4	8.1	7.6	5.3
24	3.6	3.1	4.4	5.2	4.7	3.6	6.2	44	14	7.9	6.9	5.3
25	3.6	3.2	5.3	5.2	6.5	3.6	6.3	46	11	7.8	6.7	5.3
26	3.6	3.2	5.3	5.4	6.5	5.0	6.7	50	9.7	7.7	6.4	5.3
27	3.6	3.2	5.7	5.4	6.3	3.6	6.5	49	11	7.5	6.5	5.2
28	3.6	3.2	5.6	5.6	6.3	3.6	6.6	54	11	7.4	6.2	5.0
29	3.6	3.2	5.7	5.5	---	3.6	6.5	59	11	7.4	6.1	4.9
30	3.6	3.2	5.6	5.5	---	3.4	6.5	60	11	7.1	6.8	4.7
31	3.6	---	5.7	5.5	---	5.1	---	55	---	7.0	6.2	---
TOTAL	113.4	128.1	116.6	164.0	155.4	139.6	189.4	834.9	424.3	256.9	201.1	169.0
MEAN	3.66	4.27	3.76	5.29	5.55	4.50	6.31	26.9	14.1	8.29	6.49	5.63
MAX	4.3	8.2	5.7	5.7	6.5	6.5	7.1	60	48	9.6	8.3	6.6
MIN	3.6	3.0	3.0	4.8	3.2	3.4	6.0	6.5	7.7	7.0	4.7	4.7
AC-FT	225	254	231	325	308	277	376	1,660	842	510	399	335

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

MEAN	4.65	4.58	4.01	3.90	4.06	9.55	23.1	48.8	35.3	15.2	7.60	7.42
MAX	6.73	6.94	6.03	5.42	5.55	28.8	60.6	102	88.6	47.5	10.2	10.4
(WY)	(1995)	(1995)	(1995)	(2002)	(2003)	(1997)	(1997)	(1998)	(1995)	(1995)	(1998)	(1999)
MIN	2.80	3.23	2.30	2.94	3.36	3.46	6.27	8.74	7.01	5.94	4.56	4.66
(WY)	(1994)	(1994)	(1994)	(1994)	(2001)	(1994)	(2002)	(2002)	(2002)	(2000)	(2002)	(2001)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1994 - 2003

ANNUAL TOTAL	2,023.9		2,892.7									
ANNUAL MEAN	5.54		7.93									
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	23	Jun 1		60	May 30		208	May 1, 1998				
LOWEST DAILY MEAN	3.0	Nov 22		3.0	Nov 22		2.0	Dec 26, 1993				
ANNUAL SEVEN-DAY MINIMUM	3.1	Nov 18		3.1	Nov 18		2.1	Dec 22, 1993				
ANNUAL RUNOFF (AC-FT)	4,010		5,740				10,180					
10 PERCENT EXCEEDS	7.4		11				37					
50 PERCENT EXCEEDS	5.4		5.8				5.9					
90 PERCENT EXCEEDS	3.3		3.2				3.3					

JORDAN RIVER BASIN

10145400 SALT CREEK BELOW NEPHI POWERPLANT DIVERSION, NEAR NEPHI, UT—Continued

