

JORDAN RIVER BASIN

1

10146000 SALT CREEK AT NEPHI, UT

LOCATION.--Lat 39°42'47", long 111°48'13", in SE¹/₄SW¹/₄NE¹/₄, sec. 3, T. 13 S., R. 1 E., Juab County, Hydrologic Unit 16020201, on right bank 1.7 mi east of Nephi.

DRAINAGE AREA.--95.6 mi².

PERIOD OF RECORD.--December 1950 to September 1980, August 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,280.00 ft above NGVD of 1929. December 2, 1950 to November 7, 1952, at a site 0.5 mi downstream at datum 31.96 ft lower. November 7, 1952 to November 10, 1971, at a site 0.5 mi downstream at datum 30.53 ft lower.

REMARKS.--Records good. Flow regulated by Nephi City powerplant diversion dam about 5.0 mi above gage since December 1984.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 832 ft³/s, Aug 1, 1968, gage height, 6.43 ft from floodmarks; minimum, 1.1 ft³/s, Dec 13, 1951 and Dec 11, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft³/s, May 6, 7, gage height, 1.99 ft; minimum daily discharge, 1.5 ft³/s, Jan 6.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	6.3	6.6	6.5	4.9	5.0	15	18	19	11	8.0	6.4
2	4.6	6.3	6.6	7.0	6.6	5.1	16	20	20	11	8.0	6.3
3	4.2	6.5	6.6	7.2	7.7	5.0	19	24	24	11	8.0	6.2
4	4.2	6.6	6.6	5.5	8.0	4.9	20	32	28	11	8.0	6.0
5	4.2	6.6	6.6	2.7	8.0	4.9	20	38	29	10	8.2	6.0
6	4.0	6.6	6.6	1.5	7.8	5.0	23	42	31	10	8.4	6.0
7	3.9	6.5	6.6	2.3	7.6	5.0	29	41	30	9.7	8.2	5.9
8	4.0	6.3	6.7	3.3	7.7	5.1	29	39	30	9.5	8.0	5.7
9	4.6	6.4	6.6	3.9	7.3	5.3	24	41	29	9.4	7.8	5.7
10	5.1	6.3	6.6	6.2	5.8	5.4	23	39	28	9.2	7.6	5.5
11	5.2	6.3	6.6	7.4	5.6	5.3	21	39	23	9.0	7.5	5.3
12	5.5	6.4	6.6	7.6	4.3	5.3	19	35	19	9.0	7.3	5.3
13	5.5	6.8	6.6	7.6	3.7	5.3	19	31	17	9.0	7.3	5.5
14	5.5	6.9	6.8	7.0	3.9	5.3	19	28	16	8.9	7.5	5.5
15	5.5	6.6	6.7	7.2	4.8	5.4	19	26	18	9.0	7.6	5.5
16	5.5	6.7	4.5	7.4	6.0	5.2	18	25	19	9.1	7.7	5.5
17	5.7	6.9	4.3	7.6	7.4	5.2	18	27	19	9.1	8.0	5.5
18	5.7	6.9	4.5	7.0	7.6	5.1	22	32	19	9.1	8.2	5.4
19	5.6	6.6	6.2	8.2	5.9	5.2	18	34	18	9.1	8.4	5.3
20	5.7	6.6	7.0	8.4	5.2	6.2	16	33	17	8.8	8.1	5.5
21	5.7	6.6	7.8	8.0	4.9	8.7	15	30	16	8.4	8.0	5.9
22	5.7	6.6	7.6	7.4	4.9	18	15	30	15	8.4	8.0	6.0
23	5.8	4.7	7.3	6.2	4.9	22	14	27	15	8.4	7.8	6.2
24	6.0	4.7	7.3	7.6	4.9	27	14	26	14	8.4	7.6	6.3
25	6.0	5.6	7.8	8.0	4.9	27	14	23	13	8.4	7.6	6.0
26	6.0	6.2	8.4	7.9	5.4	28	14	21	14	8.4	7.5	6.3
27	6.0	6.2	7.4	7.6	5.2	22	16	21	13	8.4	7.2	6.5
28	6.0	6.1	6.2	7.7	5.1	18	19	25	13	8.4	7.0	5.9
29	6.0	6.4	4.7	6.4	5.1	14	20	27	12	8.4	7.0	5.7
30	6.2	6.6	5.6	5.5	---	13	19	24	12	8.0	6.6	5.9
31	6.3	---	6.1	5.2	---	13	---	21	---	7.8	6.6	---
TOTAL	165.1	190.8	202.1	199.0	171.1	314.9	567	919	590	283.3	238.7	174.7
MEAN	5.33	6.36	6.52	6.42	5.90	10.2	18.9	29.6	19.7	9.14	7.70	5.82
MAX	6.3	6.9	8.4	8.4	8.0	28	29	42	31	11	8.4	6.5
MIN	3.9	4.7	4.3	1.5	3.7	4.9	14	18	12	7.8	6.6	5.3
AC-FT	327	378	401	395	339	625	1,120	1,820	1,170	562	473	347

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952-80, 1994-2004, BY WATER YEAR (WY)

MEAN	10.3	9.86	9.25	9.23	10.1	13.9	40.6	76.8	56.2	25.8	14.6	11.8
MAX	26.0	19.7	16.4	17.0	18.6	30.9	172	276	132	70.8	50.9	32.9
(WY)	(1953)	(1953)	(1953)	(1970)	(1971)	(1997)	(1952)	(1952)	(1952)	(1952)	(1952)	(1952)
MIN	4.04	4.45	3.56	4.45	4.73	5.37	6.72	10.2	7.67	6.89	4.78	4.80
(WY)	(2003)	(2003)	(2003)	(1994)	(1995)	(2001)	(2003)	(2002)	(2002)	(1994)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR				FOR 2004 WATER YEAR				WATER YEARS 1952-80, 1994-2004			
	ANNUAL TOTAL	3,253.5	4,015.7									
ANNUAL MEAN		8.91	11.0							24.2		
HIGHEST ANNUAL MEAN										66.1		
LOWEST ANNUAL MEAN										6.59		
HIGHEST DAILY MEAN		52	May 30							580	May 2, 1952	
LOWEST DAILY MEAN		3.9	Feb 8							1.4	Dec 26, 2001	
ANNUAL SEVEN-DAY MINIMUM		4.2	Oct 2							2.5	Dec 23, 2001	
ANNUAL RUNOFF (AC-FT)		6,450			7,970					17,530		
10 PERCENT EXCEEDS		12			24					61		
50 PERCENT EXCEEDS		6.6			7.4					12		
90 PERCENT EXCEEDS		5.4			5.1					6.3		