

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

LOCATION.--Lat 39°43'02", long 111°43'58", in SE¹/4 SW¹/4 NW¹/4 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, 35 ft³/s, Jun 1, gage height, 5.18 ft; minimum daily discharge, 3.4 ft³/s, Mar 26, 27, 28.

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	4.2	6.2	5.5	6.0	5.0	5.8	6.9	7.5	23	4.6	5.5	3.5
2	4.7	6.1	6.2	5.8	5.0	5.3	6.2	13	21	4.9	5.5	3.6
3	4.6	5.9	6.5	5.9	4.9	5.3	6.2	8.0	10	5.0	5.4	3.6
4	4.6	5.9	6.6	5.9	5.1	5.4	6.2	6.2	7.8	5.0	5.4	3.6
5	4.7	5.7	6.4	5.2	5.1	5.6	6.2	6.3	7.5	4.6	5.3	3.5
6	5.0	5.7	6.5	5.9	5.3	5.7	6.7	7.6	7.9	5.0	5.1	3.8
7	4.8	6.0	6.6	5.9	5.5	6.6	7.9	11	8.3	8.7	4.7	4.6
8	4.9	5.8	5.6	6.0	5.5	5.8	7.5	9.4	8.5	12	4.4	5.3
9	5.7	5.6	5.9	6.2	5.3	5.2	6.5	7.5	7.5	11	4.3	4.7
10	5.7	5.6	6.4	6.0	5.1	5.4	6.1	7.0	6.1	8.8	4.4	4.5
11	5.9	5.6	6.6	5.8	5.3	5.5	5.9	6.5	5.7	7.0	4.4	4.9
12	6.0	5.4	6.3	5.8	5.4	5.4	5.9	6.5	5.7	7.0	4.5	5.1
13	5.8	5.2	5.8	5.7	5.3	5.5	5.9	6.5	5.4	7.2	4.9	6.5
14	5.7	5.6	6.6	5.0	4.6	5.6	5.9	6.5	5.4	7.2	5.0	5.8
15	5.7	5.7	6.4	5.0	4.8	5.2	5.9	8.0	5.4	7.1	4.9	5.5
16	5.7	5.7	4.2	4.6	5.4	5.4	5.9	10	5.4	7.4	4.9	6.5
17	5.6	5.7	5.4	4.4	5.2	5.6	5.9	10	5.3	7.4	4.9	7.0
18	5.7	5.7	6.0	4.9	5.3	5.4	5.8	12	5.2	7.5	4.7	6.7
19	5.6	5.8	6.1	4.5	5.2	5.3	5.9	14	5.2	7.4	4.5	6.3
20	5.5	5.7	6.1	5.2	6.1	5.7	5.9	14	5.2	7.2	4.4	5.9
21	5.4	5.7	6.0	5.5	5.8	6.0	5.9	15	5.2	6.9	4.2	5.7
22	5.5	6.9	6.1	5.8	5.9	6.2	6.1	11	5.0	6.4	4.3	5.6
23	5.5	6.9	4.6	4.9	5.8	6.5	6.2	7.3	5.0	6.3	4.4	5.5
24	5.6	6.1	4.2	4.8	5.9	6.7	6.2	6.4	5.0	6.4	4.3	5.5
25	5.5	6.7	4.4	5.4	5.7	4.9	6.2	6.3	5.0	6.4	4.2	5.4
26	5.3	6.2	4.3	5.8	5.3	3.4	6.2	6.3	4.8	6.3	4.2	e5.3
27	5.4	6.0	4.5	5.7	5.5	3.4	6.4	6.5	4.7	6.0	3.9	e4.6
28	5.3	4.8	4.9	5.7	5.7	3.4	6.5	6.5	4.7	5.7	3.9	5.1
29	5.3	5.5	5.4	5.6	---	5.5	6.5	6.5	4.7	5.9	3.7	5.8
30	5.6	5.3	6.0	4.6	---	7.6	6.5	8.7	4.6	6.0	3.7	5.4
31	7.5	---	5.9	4.6	---	7.7	---	13	---	5.9	3.6	---
TOTAL	168.0	174.7	178.0	168.1	150.0	172.0	188.0	271.0	210.2	210.2	141.5	154.8
MEAN	5.419	5.823	5.742	5.423	5.357	5.548	6.267	8.742	7.007	6.781	4.565	5.160
MAX	7.5	6.9	6.6	6.2	6.1	7.7	7.9	15	23	12	5.5	7.0
MIN	4.2	4.8	4.2	4.4	4.6	3.4	5.8	6.2	4.6	4.6	3.6	3.5
AC-FT	333	347	353	333	298	341	373	538	417	417	281	307

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

MEAN	4.762	4.617	4.039	3.741	3.896	10.12	24.95	51.25	37.61	15.94	7.719	7.618
MAX	6.73	6.94	6.03	5.42	5.36	28.8	60.6	102	88.6	47.5	10.2	10.4
(WY)	1995	1995	1995	2002	2002	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 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1994 - 2002

ANNUAL TOTAL	2573.1	2186.5										
ANNUAL MEAN	7.050	5.990										
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	35	May 19	23	Jun 1								
LOWEST DAILY MEAN	3.2	Jan 19	3.4	Mar 26								
ANNUAL SEVEN-DAY MINIMUM	3.2	Jan 19	3.6	Aug 30								
ANNUAL RUNOFF (AC-FT)	5100		4340						10670			
10 PERCENT EXCEEDS	13		7.4						41			
50 PERCENT EXCEEDS	5.6		5.7						5.9			
90 PERCENT EXCEEDS	3.4		4.6						3.3			

e Estimated