10146000 SALT CREEK AT NEPHI, UT

LOCATION.--Lat 39°42'47", long 111°48'13", in SE$^1/_4$SW$^1/_4$NE$^1/_4$, 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 mi^2.

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 except for estimated daily discharges, which are fair. 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 ft^3/s, Aug 1, 1968, gage height, 6.43 ft from floodmarks; minimum, 1.1 ft^3/s, Dec 13, 1951 and Dec 11, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft^3/s, Jun 1, gage height, 1.85 ft; minimum daily discharge, 1.4 ft^3/s, Dec 26.

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	5.3	6.8	6.0	7.0	4.5	6.3	8.4	e12	e23	e5.2	6.0	3.6
2	4.9	6.3	6.1	6.8	4.8	5.7	7.8	e14	e21	e5.2	6.0	3.5
3	4.9	6.3	6.6	7.0	5.0	5.6	7.5	e12	e14	e5.3	5.7	3.5
4	4.9	6.1	6.6	7.0	5.4	5.9	7.3	e8.5	e11	e5.2	5.6	3.5
5	5.1	6.0	6.6	6.6	5.6	6.2	7.3	e7.5	e8.5	e5.0	5.5	3.5
6	5.4	6.0	6.6	6.9	5.9	6.3	7.3	e7.7	e8.7	e7.0	5.5	3.5
7	5.5	6.1	7.0	7.1	6.4	7.1	7.9	e12	e9.2	e10	5.5	4.0
8	5.5	6.1	6.4	7.4	6.7	7.1	8.5	e10	e9.3	e13	5.2	4.6
9	5.9	6.0	6.1	7.6	6.5	6.3	8.1	e8.5	e8.0	e12	4.9	4.7
10	6.5	6.0	6.3	7.4	6.2	6.4	7.6	e7.7	e7.0	e11	4.9	4.5
11	6.7	6.0	6.6	7.3	6.5	6.6	7.3	e7.5	e6.0	e9.0	5.1	4.5
12	7.0	6.0	6.6	7.3	6.6	6.6	7.3	e7.5	e6.0	e7.5	5.0	4.7
13	6.7	6.0	6.2	7.4	6.4	6.6	7.2	e7.5	e5.8	e7.5	4.9	4.9
14	6.6	6.0	6.5	6.8	6.4	6.6	7.3	e7.7	e5.8	e7.4	4.9	5.2
15	6.6	6.0	6.5	6.5	5.6	6.3	7.3	e8.2	e5.8	e7.6	4.9	5.2
16	6.6	6.0	3.7	5.3	6.0	6.4	7.6	e9.3	e5.7	7.3	4.9	5.4
17	6.6	6.2	4.2	4.8	6.1	7.0	7.5	e11	e5.6	7.3	4.9	5.7
18	6.5	6.2	6.1	5.2	6.2	6.6	7.6	e13	e5.6	7.4	4.9	5.7
19	6.3	6.0	6.3	4.3	6.3	6.3	7.6	15	e5.6	7.6	4.8	5.7
20	6.3	6.0	6.5	5.4	6.7	6.7	7.5	16	e5.6	7.3	4.5	5.5
21	6.3	6.1	6.6	6.7	6.6	7.1	7.3	16	e5.5	7.1	4.3	5.4
22	6.3	6.5	6.5	7.1	6.3	7.2	e7.4	14	e5.4	7.2	4.3	5.2
23	6.3	7.0	4.4	6.0	6.4	7.6	e7.5	e13	e5.4	7.0	4.3	5.2
24	6.0	6.7	2.4	5.1	6.5	7.8	e7.5	e11	e5.4	6.6	4.2	5.2
25	6.0	6.7	1.5	6.3	6.3	7.4	e7.5	e9.0	e5.4	6.6	4.2	5.2
26	6.0	6.6	1.4	6.8	5.9	5.5	e7.7	e7.5	e5.3	6.6	4.1	5.2
27	6.0	6.4	1.9	7.0	5.9	4.6	e7.8	e7.4	e5.2	6.6	4.1	5.2
28	6.2	5.2	2.7	6.6	6.1	4.2	e7.9	e7.6	e5.2	6.5	4.0	5.2
29	6.1	5.6	3.5	6.5	---	4.6	e7.8	e7.7	e5.2	6.3	3.8	5.4
30	6.1	5.9	6.4	4.5	---	7.1	e8.3	e7.7	e5.0	6.3	3.7	5.5
31	7.6	---	7.0	4.2	---	8.0	---	e14	---	6.1	3.7	---
TOTAL	188.7	184.8	167.8	197.9	169.8	199.7	228.6	317.5	230.2	227.7	148.3	144.1
MEAN	6.087	6.160	5.413	6.384	6.064	6.442	7.620	10.24	7.673	7.345	4.784	4.803
MAX	7.6	7.0	7.0	7.6	6.7	8.0	8.5	16	23	13	6.0	5.7
MIN	4.9	5.2	1.4	4.2	4.5	4.2	7.2	7.4	5.0	5.0	3.7	3.5
AC-FT	374	367	333	393	337	396	453	630	457	452	294	286

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-80, 1993-2002, BY WATER YEAR (WY)

MEAN	10.58	10.10	9.468	9.382	10.28	14.21	42.07	79.40	58.15	26.63	14.93	12.13
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	4.57	5.19	3.66	4.45	4.73	5.37	6.98	10.2	8.04	6.89	4.78	4.80
(WY)	1978	1978	1994	1994	1995	2001	1961	2002	2002	1994	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1951-80, 1993-2002	
ANNUAL TOTAL	3073.5		2405.1			
ANNUAL MEAN	8.421		6.589		24.97	
HIGHEST ANNUAL MEAN					66.1	1952
LOWEST ANNUAL MEAN					6.63	2002
HIGHEST DAILY MEAN	35	May 19	23	Jun 1	580	May 2 1952
LOWEST DAILY MEAN	1.4	Dec 26	1.4	Dec 26	1.4	Dec 26 2001
ANNUAL SEVEN-DAY MINIMUM	2.5	Dec 23	2.5	Dec 23	2.5	Dec 23 2001
ANNUAL RUNOFF (AC-FT)	6100		4770		18090	
10 PERCENT EXCEEDS	16		8.0		63	
50 PERCENT EXCEEDS	6.3		6.3		13	
90 PERCENT EXCEEDS	5.2		4.6		6.6	

e Estimated