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Water-Data Report 2006

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

Jordan Basin  
Utah Lake Subbasin

LOCATION.--Lat 39°43'02", long 111°43'58" referenced to North American Datum of 1927, in SE ¼ SW ¼ NW ¼ sec.5, T.13 S., R.2 E., Juab County, UT, 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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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 except for estimated daily discharges, which are fair. Flow at gage is extensively regulated by Nephi City at powerplant diversion dam 200 ft above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 318 ft<sup>3</sup>/s, May 22, 2005, gage height, 6.50 ft; minimum daily discharge, 2.0 ft<sup>3</sup>/s, Dec 25-29, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 283 ft<sup>3</sup>/s, Apr 15, gage height, 6.24 ft; minimum daily discharge, 3.0 ft<sup>3</sup>/s, Feb 22, 24, 25, 26, 27.

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

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**  
[*e*, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	6.2	4.1	4.1	3.6	3.3	3.1	16	181	48	22	7.2	6.3
<b>2</b>	6.2	4.1	4.1	3.5	3.3	3.1	16	193	57	19	7.1	6.3
<b>3</b>	5.2	4.1	4.1	3.7	3.3	3.1	23	199	64	16	7.1	6.3
<b>4</b>	3.7	4.1	4.0	3.5	3.3	3.1	35	195	66	16	7.1	6.2
<b>5</b>	3.7	4.1	3.9	3.5	3.3	3.1	49	175	74	15	7.1	6.2
<b>6</b>	3.8	4.1	3.9	3.5	3.3	3.1	41	141	77	13	6.9	6.4
<b>7</b>	3.3	8.7	3.9	3.5	3.3	3.1	38	127	76	13	6.9	6.4
<b>8</b>	3.5	11	3.9	3.3	3.3	3.3	51	134	70	12	6.6	6.4
<b>9</b>	3.3	11	3.9	3.3	3.3	3.1	72	147	69	11	6.5	6.4
<b>10</b>	3.3	11	4.1	3.3	3.3	3.1	80	139	64	11	7.0	6.3
<b>11</b>	3.7	11	4.1	3.3	3.3	3.1	75	126	57	9.9	7.1	6.3
<b>12</b>	3.3	12	4.1	3.3	3.3	3.1	89	116	50	9.9	7.1	6.3
<b>13</b>	3.1	11	4.1	3.3	3.3	3.1	137	115	47	10	7.1	6.7
<b>14</b>	4.2	7.9	4.1	3.3	3.3	12	153	127	45	10	7.1	6.2
<b>15</b>	3.1	4.8	4.1	3.3	3.3	11	231	149	43	8.5	7.1	6.2
<b>16</b>	4.8	4.1	4.1	3.3	3.3	4.4	193	139	39	8.7	7.4	6.4
<b>17</b>	4.2	4.1	4.1	3.3	3.3	3.7	180	140	36	8.5	7.2	6.8
<b>18</b>	7.4	3.9	4.1	3.3	3.3	3.7	118	149	36	8.0	7.1	e6.5
<b>19</b>	6.2	3.9	3.9	3.3	3.3	3.7	86	163	37	7.8	7.1	e6.4
<b>20</b>	3.5	3.9	3.7	3.3	3.3	3.6	79	181	41	7.8	7.1	e6.4
<b>21</b>	3.5	3.9	3.3	3.3	3.1	3.6	90	160	39	7.6	7.1	e6.4
<b>22</b>	4.9	3.9	3.1	3.3	3.0	3.6	127	137	37	7.4	7.1	6.7
<b>23</b>	9.0	3.9	3.1	3.3	3.1	3.6	172	109	34	7.5	7.1	6.7
<b>24</b>	8.9	3.9	3.1	3.3	3.0	3.6	162	95	31	7.6	7.2	6.6
<b>25</b>	6.6	3.9	3.1	3.3	3.0	3.9	133	98	30	7.1	7.0	6.7
<b>26</b>	9.4	3.9	3.2	3.3	3.0	5.7	157	103	27	6.8	6.4	6.9
<b>27</b>	6.8	3.9	3.3	3.3	3.0	4.8	196	100	32	6.8	6.3	6.8
<b>28</b>	7.1	4.1	3.3	3.3	3.2	8.8	217	83	30	6.9	6.4	6.9
<b>29</b>	9.1	4.1	3.3	3.3	---	20	200	63	23	7.0	6.3	7.1
<b>30</b>	11	4.5	3.3	3.3	---	16	189	51	22	7.1	6.4	6.8
<b>31</b>	6.5	---	3.4	3.3	---	15	---	46	---	7.1	6.3	---
<b>Total</b>	168.5	172.9	115.8	104.0	90.4	171.2	3,405	4,081	1,401	316.0	214.5	195.0
<b>Mean</b>	5.44	5.76	3.74	3.35	3.23	5.52	114	132	46.7	10.2	6.92	6.50
<b>Max</b>	11	12	4.1	3.7	3.3	20	231	199	77	22	7.4	7.1
<b>Min</b>	3.1	3.9	3.1	3.3	3.0	3.1	16	46	22	6.8	6.3	6.2
<b>Ac-ft</b>	334	343	230	206	179	340	6,750	8,090	2,780	627	425	387

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2006, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	4.71	4.66	4.30	4.29	4.13	8.94	30.8	62.3	39.3	15.7	7.71	7.20
<b>Max</b>	6.73	6.94	6.81	7.35	5.55	28.8	114	164	95.2	47.5	10.8	10.4
(WY)	(1995)	(1995)	(2005)	(2005)	(2003)	(1997)	(2006)	(2005)	(2005)	(1995)	(2005)	(1999)
<b>Min</b>	2.80	3.23	2.30	2.94	3.23	3.46	6.27	8.74	7.01	5.94	4.56	4.66
(WY)	(1994)	(1994)	(1994)	(1994)	(2006)	(1994)	(2002)	(2002)	(2002)	(2000)	(2002)	(2001)

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

	<b>Calendar Year 2005</b>	<b>Water Year 2006</b>	<b>Water Years 1994 - 2006</b>
<b>Annual total</b>	11,881.0	10,435.3	
<b>Annual mean</b>	32.6	28.6	16.2
<b>Highest annual mean</b>			32.6
<b>Lowest annual mean</b>			5.99
<b>Highest daily mean</b>	277	May 24	277
<b>Lowest daily mean</b>	3.1	Oct 13	2.0
<b>Annual seven-day minimum</b>	3.2	Dec 21	2.1
<b>Annual runoff (ac-ft)</b>	23,570	20,700	11,740
<b>10 percent exceeds</b>	108	115	43
<b>50 percent exceeds</b>	8.6	6.5	6.1
<b>90 percent exceeds</b>	3.9	3.3	3.3

