

403835112171801 MILL SPRING NEAR ERDA, UT

LOCATION.--Lat 40°38'35", long 112°17'18, in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T. 2 S., R. 4 W., Tooele County, Hydrologic Unit 16020304.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,300 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16.0 ft<sup>3</sup>/s, Jul 17, 2002; minimum daily discharge, 0.67 ft<sup>3</sup>/s, Oct 14, 2001.EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 14 ft<sup>3</sup>/s, on several days in Jan, Feb, and Mar; minimum daily discharge, 2.6 ft<sup>3</sup>/s, Jul 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	8.9	12	12	13	14	14	5.8	7.1	6.5	6.1	5.4	5.1
2	11	12	12	13	14	13	7.1	7.1	6.6	6.7	5.9	5.4
3	12	12	12	14	14	13	8.4	7.1	6.9	6.3	2.9	6.1
4	12	12	12	14	14	13	7.4	7.6	6.8	6.1	4.2	6.5
5	12	12	12	13	14	13	7.0	7.5	6.8	6.2	5.2	6.7
6	12	12	12	13	13	13	6.9	6.9	6.9	2.6	5.4	6.8
7	7.2	12	12	14	14	13	7.0	6.9	6.3	4.6	5.0	3.6
8	9.0	12	12	14	14	13	7.2	6.9	6.0	5.8	5.0	6.6
9	11	12	12	14	14	13	7.0	7.0	6.1	5.9	5.6	8.3
10	11	12	12	14	13	13	6.7	6.9	6.1	5.7	3.1	7.4
11	11	12	12	14	13	13	7.1	6.8	6.0	5.6	6.2	6.5
12	11	12	13	14	13	13	7.1	6.9	5.9	5.8	5.7	6.4
13	11	13	13	14	13	13	7.1	6.9	6.0	3.6	5.4	6.2
14	8.3	13	13	14	13	13	7.0	6.8	6.0	5.4	5.7	3.8
15	9.9	13	13	14	13	13	6.9	6.7	3.3	7.0	6.4	6.9
16	12	13	13	14	13	13	6.9	6.8	4.7	7.1	6.2	7.5
17	12	13	e13	14	13	13	6.9	6.9	5.9	6.6	3.4	7.9
18	12	13	e13	14	13	14	7.2	6.7	6.0	6.4	4.3	8.3
19	12	13	e13	14	14	14	7.1	6.7	6.0	6.7	e6.0	8.9
20	12	13	e13	14	14	14	7.0	6.8	6.2	4.8	e6.0	8.3
21	8.1	13	e13	14	14	14	7.2	6.6	5.8	4.9	e5.9	3.7
22	6.1	13	e13	14	14	13	7.2	6.6	3.2	6.4	e5.9	4.0
23	6.1	13	e13	14	14	10	7.1	6.4	4.2	6.2	e5.8	5.9
24	6.4	13	e13	14	14	7.8	7.1	6.2	6.0	6.6	e3.8	6.6
25	10	12	e13	14	14	7.6	7.1	6.2	6.3	6.5	e6.0	7.3
26	12	12	e13	14	14	7.4	7.1	6.3	6.2	6.4	5.6	8.5
27	12	12	e13	14	14	7.0	7.0	6.4	6.2	3.2	5.6	7.5
28	12	12	e13	14	14	6.0	7.1	6.5	6.2	4.9	5.7	3.0
29	12	12	e13	14	14	5.0	7.2	6.7	3.3	5.3	6.7	5.3
30	12	12	e13	14	---	5.7	7.1	6.5	4.4	5.6	7.2	8.5
31	12	---	13	14	---	5.6	---	6.4	---	5.4	4.1	---
MEAN	10.5	12.4	12.6	13.9	13.7	11.4	7.07	6.77	5.76	5.69	5.33	6.45
MAX	12	13	13	14	14	14	8.4	7.6	6.9	7.1	7.2	8.9
MIN	6.1	12	12	13	13	5.0	5.8	6.2	3.2	2.6	2.9	3.0
CAL YR	2003	MEAN 9.44	MAX 13	MIN 2.7								
WTR YR	2004	MEAN 9.29	MAX 14	MIN 2.6								

e Estimated

GREAT BASIN  
GREAT SALT LAKE BASIN

410401112134801 GSL FARMINGTON BAY OUTFLOW AT CAUSEWAY BRIDGE

LOCATION.--Lat 41°04'01", long 112°13'48, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 4 N., R. 3 W., Davis County, Hydrologic Unit 16020310, near west end of Antelope Island State Park causeway, about 9 miles west-southwest of Syracuse .

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft<sup>3</sup>/s, May 10, 2004; minimum daily discharge, -93 ft<sup>3</sup>/s, May 11, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,740 ft<sup>3</sup>/s, May 10; minimum daily discharge, -93 ft<sup>3</sup>/s, May 11.

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	141	e164	416	655	408	995	90	691	855	338	e210	141
2	161	e157	521	613	391	1,040	369	663	712	318	e238	66
3	e199	e171	550	787	392	1,150	391	609	784	411	172	38
4	e207	e216	433	805	378	1,180	237	638	665	390	223	95
5	e138	e176	544	829	365	1,170	93	595	753	357	218	222
6	e211	e183	560	831	370	1,180	193	645	658	463	e184	183
7	e285	e173	693	e755	362	1,230	50	551	390	298	e135	142
8	e245	e236	327	680	378	1,200	186	268	325	320	e86	206
9	e260	e304	636	670	349	1,150	29	-49	609	416	38	148
10	53	e377	741	668	333	1,440	753	295	497	415	55	168
11	e158	e313	524	697	351	1,370	351	-93	802	337	33	181
12	e117	e275	523	704	359	1,230	527	-77	809	344	47	134
13	e76	413	666	716	365	1,250	703	364	695	367	93	64
14	e204	397	564	663	366	1,100	79	529	707	375	24	56
15	e167	515	332	639	377	972	374	387	562	248	-47	138
16	e201	e506	691	621	378	970	110	267	291	323	11	102
17	e153	e482	487	600	376	1,040	277	167	586	356	83	148
18	e174	e458	461	595	343	1,100	436	374	719	243	37	232
19	e173	e434	429	592	359	912	517	2.8	524	276	-0.85	82
20	e175	e410	433	609	386	794	e570	446	487	314	83	77
21	e168	370	451	578	353	798	e544	232	533	e260	110	52
22	e141	119	585	554	344	721	e421	304	657	-19	123	114
23	e67	e485	633	546	344	640	576	70	521	42	98	178
24	e141	440	549	539	339	627	603	e667	480	110	241	127
25	59	396	615	473	424	697	529	822	526	e80	155	115
26	e169	261	438	534	524	440	595	647	570	50	68	129
27	262	515	525	504	773	400	700	747	530	141	78	90
28	e255	591	589	496	902	318	97	489	594	164	131	133
29	108	525	658	469	946	590	384	341	559	156	141	120
30	-6.5	378	685	448	---	707	253	878	524	57	123	100
31	112	---	605	421	---	869	---	826	---	145	155	---
MEAN	160	348	544	622	425	945	368	429	597	261	108	126
WTR YR	2004	MEAN	412									

e Estimated

411316112132201 NORTH FORK WEBER RIVER NEAR WEST WARREN, UT

LOCATION.--Lat 41°13'16", long 112°13'22", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 31, T. 6 N., R. 3 W., Weber County, Hydrologic Unit 16020102, on right bank 2 miles south of S.R. 39, 3.5 miles west of West Warren.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--March 2004 to September 2004.

GAGE.--Water-stage recorder. Elevation of gage is 4,192 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Flow extensively regulated by Ogden Bay Waterfowl Management Area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68 ft<sup>3</sup>/s, Mar 27, 2004, gage height, 5.85 ft; minimum daily discharge, 17 ft<sup>3</sup>/s, Aug 18, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68 ft<sup>3</sup>/s, Mar 27, gage height, 5.85 ft; minimum daily discharge, 17 ft<sup>3</sup>/s, Aug 18.

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	---	---	---	---	---	---	43	27	63	34	20	33
2	---	---	---	---	---	---	36	29	63	34	20	33
3	---	---	---	---	---	---	33	30	61	33	20	37
4	---	---	---	---	---	---	33	30	59	30	20	39
5	---	---	---	---	---	---	34	32	56	25	21	44
6	---	---	---	---	---	---	33	31	53	24	20	47
7	---	---	---	---	---	---	35	29	50	27	19	48
8	---	---	---	---	---	---	37	28	45	28	18	52
9	---	---	---	---	---	---	45	26	39	28	18	50
10	---	---	---	---	---	---	49	28	38	26	18	44
11	---	---	---	---	---	---	47	28	36	25	19	40
12	---	---	---	---	---	---	44	30	45	25	21	39
13	---	---	---	---	---	---	36	34	49	23	22	37
14	---	---	---	---	---	---	32	39	50	18	22	40
15	---	---	---	---	---	---	28	41	54	19	21	43
16	---	---	---	---	---	---	23	41	52	20	20	46
17	---	---	---	---	---	---	22	41	49	21	19	48
18	---	---	---	---	---	---	22	42	48	23	17	47
19	---	---	---	---	---	---	22	43	48	25	20	47
20	---	---	---	---	---	---	23	43	47	27	24	46
21	---	---	---	---	---	---	24	42	46	31	24	46
22	---	---	---	---	---	e50	26	42	46	33	25	50
23	---	---	---	---	---	53	25	41	43	35	25	54
24	---	---	---	---	---	58	26	40	29	33	25	55
25	---	---	---	---	---	63	26	40	22	30	28	54
26	---	---	---	---	---	64	24	41	29	28	30	51
27	---	---	---	---	---	64	23	42	32	26	30	50
28	---	---	---	---	---	65	23	44	33	23	29	49
29	---	---	---	---	---	61	23	49	33	22	31	49
30	---	---	---	---	---	54	26	58	33	21	33	47
31	---	---	---	---	---	49	---	65	---	20	34	---
TOTAL	---	---	---	---	---	---	923	1,176	1,351	817	713	1,365
MEAN	---	---	---	---	---	---	30.8	37.9	45.0	26.4	23.0	45.5
MAX	---	---	---	---	---	---	49	65	63	35	34	55
MIN	---	---	---	---	---	---	22	26	22	18	17	33

e Estimated

HYDROLOGIC DATA AT UNION PACIFIC RAILROAD CAUSEWAY  
GREAT SALT LAKE

STATION NUMBER	STATION NAME	DATE	(CFS) DISCHARGE SO. TO NO.	(CFS) DISCHARGE NO. TO SO.
10010020	GSL UPR CAUSEWAY BREACH AT LAKESIDE, UT	11/19/03	326	0
		01/29/04	621	0
		04/08/04	1050	0
		06/02/04	679	0
		08/20/04	141	0
		09/16/04	79	0
10010030	GSL UPR N CAUSEWAY, WEST CULVERT	11/19/03	e25	38
		02/12/04	13	149
		04/08/04	132	0
		06/02/04	0	259
		08/20/04	28	174
		09/16/04	45	132
10010040	GSL UPR N CAUSEWAY, EAST CULVERT	11/19/03	79	0
		04/18/04	307	43
		06/02/04	54	105
		08/20/04	117	117
		09/16/04	134	32

e Estimated

DISCHARGE MEASUREMENTS AT SELECTED SPRINGS AND TUNNELS, WATER YEAR 2004

Station number	Local Number	Name	Date	Discharge (gallons per minute)
TOOELE COUNTY				
403636112152401	(C- 2- 4)26ddd-S1	Rose Spring	10-28-2003	62.4
			01-29-2004	80.4
			04-22-2004	71.2
			07-27-2004	121.
403457112113401	(C- 3- 3) 4ccb	Pass Canyon Tunnel	09-22-2004	62.4
			10-27-2003	80.1
			04-22-2004	29.6
403309112115501	(C- 3- 3)17ddc	Bingham West Dip Tunnel	08-19-2004	12.1
			10-27-2003	104.
			03-18-2004	110.
			05-13-2004	149.
403109112153003	(C- 3- 4)35aac- 3	Middle Canyon Weir Box	07-28-2004	141.
			10-27-2003	248.
			01-29-2004	197.
			03-29-2004	114.

HYDROLOGIC-DISCHARGE DATA FOR OQUIRRH MOUNTAINS, TOOELE COUNTY, UTAH,  
SURFACE- AND GROUND-WATER MONITORING PROGRAM

MONTHLY MEAN DISCHARGES AT SELECTED SPRINGS, TUNNELS, AND MINE WORKINGS, WATER YEAR 2004

Station number	Local Number	Name	Date	Discharge (gallons per minute)
MONTHLY MEAN DISCHARGE SALT LAKE COUNTY				
403139112054601	(C- 3- 2)29cbd- 1	Bingham Tunnel reported by Kennecott Utah Copper	10-31-2003	863.
			11-30-2003	820.
			12-31-2003	897.
			01-31-2004	1060.
			02-29-2004	954.
			03-31-2004	936.
			04-30-2004	1220.
			05-31-2004	911.
			06-30-2004	965.
403140112054601	(C- 3- 2)29cbd- 2	Lark Shaft reported by Kennecott Utah Copper	10-31-2003	967.
			11-30-2003	892.
			12-31-2003	888.
			01-31-2004	918.
			02-29-2004	976.
			03-31-2004	96.
			04-30-2004	694.
			05-31-2004	839.
			06-30-2004	796.
403225112085701	(C- 3- 3)23cdc- 1	North Ore Shoot reported by Kennecott Utah Copper	10-31-2003	963.
			11-30-2003	1480.
			12-31-2003	1200.
			01-31-2004	886.
			02-29-2004	889.
			03-31-2004	903.
			04-30-2004	898.
			05-31-2004	928.
			06-30-2004	898.
402923112072301	(C- 4- 3)12aac	Butterfield Tunnel reported by Kennecott Utah Copper	10-31-2003	125.
			11-30-2003	124.
			12-31-2003	131.
			01-31-2004	118.
			02-29-2004	130.
			03-31-2004	131.
			04-30-2004	129.
			05-31-2004	122.
			06-30-2004	117.
07-31-2004	103.			
			08-31-2004	94.

MONTHLY MEAN DISCHARGES AT SELECTED SPRINGS, TUNNELS, AND MINE WORKINGS, WATER YEAR 2004

Station number	Local Number	Name	Date	Discharge (gallons per minute)
MONTHLY MEAN DISCHARGE TOOELE COUNTY				
403151112112001	(C- 3- 3)28bcd- 2	Carr Fork Service Shaft reported by Kennecott Utah Copper	10-31-2003	2040.
			11-30-2003	1600.
			12-31-2003	2000.
			01-31-2004	581.
			02-29-2004	1500.
			03-31-2004	1110.
			04-30-2004	498.
			05-31-2004	2150.
			06-30-2004	1920.
			07-31-2004	2150.
403119112154204	(C- 3- 4)35aba-S	Middle Canyon Springs (Combined flow of Big and Little Springs) reported by Tooele City	10-31-2003	0.
			11-30-2003	0.
			12-31-2003	0.
			01-31-2004	0.
			02-29-2004	0.
			03-31-2004	0.
			04-30-2004	0.
			05-31-2004	0.
			06-30-2004	0.
			07-31-2004	0.
402932112155401	(C- 4- 4)11baa-S1	Left Hand Fork Settlement Canyon reported by Tooele City	10-31-2003	421.
			11-30-2003	395.
			12-31-2003	e358.
			01-31-2004	340.
			02-29-2004	328.
			03-31-2004	277.
			04-30-2004	287.
			05-31-2004	286.
			06-30-2004	365.
			07-31-2004	413.
	08-31-2004	486.		
	09-30-2004	464.		

e Estimated

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2004

STREAM	TRIBUTARY TO	LOCATION	MEASUREMENTS			
			DATE	DISCHARGE (ft <sup>3</sup> /s)		
SEVIER LAKE BASIN						
Manti Creek	Sevier River	Lat 39°15'23", long 111°37'16" Sanpete County Upstream of diversion	02-03-04	3.24		
			08-17-04	11.70		
		Downstream of diversion	02-03-04	1.75		
			08-17-04	6.60		
		UINTA BASIN				
		Duchesne River at Bridgeland, Ut	Green River	Lat 40°09'43", long 110°13'59" Duchesne County Approx 10 miles east of Duchesne, Ut at the Bridgeland Bridge.	06-21-2004	62.2
06-22-2004	145					
06-23-2004	149					
06-30-2004	173					
07-07-2004	27.5					
07-13-2004	43.0					