

Water-Data Report 2006

10156000 SNAKE CREEK NEAR CHARLESTON, UT

Jordan Basin
Provo Subbasin

LOCATION.--Lat 40°29'07", long 111°27'59" referenced to North American Datum of 1927, in NE ¼ NW ¼ SW ¼ sec.11, T.4 S., R.4 E., Wasatch County, UT, Hydrologic Unit 16020203, on right bank 700 ft upstream from mouth and 1.5 mi northeast of Charleston.

DRAINAGE AREA.--31.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1938 to October 1950, May 1993 to current year. Monthly discharge only, September 1938 to September 1945, published in WSP 1413.

GAGE.--Water-stage recorder. Elevation of gage is 5,435 ft above NGVD of 1929, from topographic map. Prior to 1993 at different datum.

REMARKS.--Records fair. Some diversions above station for irrigation. Gage is affected by backwater.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146 ft³/s, Jun 14, 1995, gage height, 2.46 ft, maximum gage height, 3.63 ft, Mar 23, 1996; minimum, 16 ft³/s, Aug 25, 28, 29, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 120 ft³/s, Jun 9, gage height, 3.44 ft; minimum daily discharge, 36 ft³/s, Aug 22.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	52	54	53	58	48	56	57	73	72	51	51	46
2	47	52	61	56	48	52	52	72	62	51	52	45
3	45	48	55	63	47	55	50	63	67	55	52	50
4	47	48	53	54	47	53	51	58	71	48	56	48
5	44	47	50	52	47	51	53	67	76	52	53	39
6	42	45	e50	51	47	50	55	69	81	52	52	41
7	45	47	e51	50	47	53	55	66	86	51	60	46
8	43	46	e52	50	47	50	55	69	94	53	53	45
9	42	46	e52	49	46	50	54	73	101	56	52	57
10	41	45	e53	49	44	48	54	72	95	59	45	77
11	40	44	e54	50	42	48	55	75	87	55	43	60
12	40	45	e54	49	42	48	58	73	83	51	41	43
13	39	48	e55	48	42	48	56	65	79	52	44	46
14	39	54	e56	49	43	49	57	70	77	49	38	51
15	42	55	58	49	42	48	57	72	82	53	37	65
16	42	55	57	49	42	47	53	71	83	58	38	66
17	42	54	53	48	42	48	56	74	75	48	38	54
18	44	54	53	49	41	49	55	88	72	45	38	51
19	46	54	52	48	42	50	54	84	65	48	39	50
20	47	54	52	49	42	50	54	83	73	48	41	53
21	46	54	51	49	42	51	52	82	71	49	41	52
22	48	55	51	48	42	51	50	83	69	48	36	52
23	48	56	53	47	42	51	53	88	71	47	37	48
24	49	57	47	45	42	51	54	89	63	50	41	48
25	51	56	45	46	42	52	55	93	52	52	43	49
26	48	55	45	48	43	55	56	90	51	49	39	48
27	46	54	46	47	45	52	60	87	50	47	39	46
28	52	53	47	47	61	52	56	96	49	47	48	46
29	50	53	48	47	---	64	56	78	49	48	41	46
30	50	53	48	47	---	58	63	73	51	52	38	47
31	51	---	54	47	---	57	---	72	---	52	45	---
Total	1,408	1,541	1,609	1,538	1,247	1,597	1,646	2,368	2,157	1,576	1,371	1,515
Mean	45.4	51.4	51.9	49.6	44.5	51.5	54.9	76.4	71.9	50.8	44.2	50.5
Max	52	57	61	63	61	64	63	96	101	59	60	77
Min	39	44	45	45	41	47	50	58	49	45	36	39
Ac-ft	2,790	3,060	3,190	3,050	2,470	3,170	3,260	4,700	4,280	3,130	2,720	3,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-50, 1994-06, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	46.3	47.8	43.8	42.5	41.7	44.7	44.6	52.3	57.1	43.7	39.5	41.1
Max	65.0	62.9	55.7	51.7	55.0	52.1	57.8	87.5	86.8	59.4	57.5	62.3
(WY)	(1999)	(1946)	(1999)	(1999)	(1945)	(1945)	(1945)	(1943)	(1995)	(1995)	(1998)	(1998)
Min	32.4	33.8	35.5	33.3	31.0	36.2	32.7	31.4	30.0	26.3	20.5	25.8
(WY)	(2004)	(1940)	(2003)	(2004)	(2004)	(1940)	(2002)	(2002)	(2003)	(1994)	(2002)	(2003)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1939-50, 1994-06	
Annual total	18,419		19,573			
Annual mean	50.5		53.6		45.3	
Highest annual mean					55.2	1999
Lowest annual mean					34.6	2004
Highest daily mean	101	Jun 22	101	Jun 9	113	Jun 30, 1995
Lowest daily mean	35	Apr 15	36	Aug 22	17	Aug 25, 2002
Annual seven-day minimum	37	Apr 21	38	Aug 14	19	Aug 19, 2002
Annual runoff (ac-ft)	36,530		38,820		32,850	
10 percent exceeds	65		72		58	
50 percent exceeds	47		51		44	
90 percent exceeds	39		42		34	

