

Water-Data Report 2013

13108150 SALMON FALLS CREEK NEAR HAGERMAN, ID

Upper Snake Basin
Salmon Falls Subbasin

LOCATION.--Lat 42°41'47", long 114°51'19" referenced to North American Datum of 1983, in SW ¼ SE ¼ SE ¼ sec.30, T.8 S., R.14 E., Twin Falls County, ID, Hydrologic Unit 17040213, Thousand Springs quad., on left bank 25 ft upstream from U.S. Highway 30, at mile 1.9, and 8.5 mi south of Hagerman.

DRAINAGE AREA.--2,180 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1970 to current year.

REVISED RECORDS.--WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,891.06 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records fair except for period of Aug. 13 to Sept. 30, which are good. Station equipment includes satellite telemetry and crest stage gage. Flow completely regulated by Salmon River Canal Co. reservoir 44 mi upstream (see station 13106500). Flow below the dam is derived from leakage past the dam and return flow from adjacent land. Several diversions, by pumping from the left bank below the dam, are used for irrigation. Flow past gage is partially regulated during irrigation season by small diversion dam 0.9 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,500 ft³/s May 16, 1984, gage height, 18.14 ft, on basis of contracted opening measurement of peak flow, result of roadfill collapse approximately 13 mi upstream, (Salmon River Canal Co. reservoir spilled into Salmon Falls Creek May 11 to June 29, 1984 and Apr. 22-30, 1985, the only times since construction of the dam in 1910).

Maximum discharge excluding 1984, 3,390 ft³/s Jan. 12, 1979, gage height, 9.60 ft; minimum, 5.8 ft³/s July 9, 1977, gage height, 2.51 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 280 ft³/s, Oct. 24, gage height, 6.09 ft; minimum, 13 ft³/s, June 19, gage height, 3.84 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	175	162	153	135	134	117	89	169	89	45	75	103
2	177	161	153	132	135	116	88	146	76	41	50	57
3	174	161	151	128	135	117	80	125	70	42	46	40
4	197	159	154	124	129	116	69	130	64	41	41	57
5	206	159	158	126	119	116	83	136	51	96	44	74
6	216	159	153	129	119	118	64	145	42	52	45	92
7	236	161	151	131	118	117	80	141	37	41	40	103
8	217	164	150	141	119	119	86	138	34	40	41	97
9	203	162	147	144	119	117	121	137	30	36	44	95
10	210	161	147	144	119	116	141	133	31	38	45	95
11	209	160	148	138	118	115	139	126	36	35	39	109
12	203	159	150	121	118	113	149	128	28	39	41	121
13	233	159	148	118	117	109	176	116	42	30	52	127
14	233	161	148	113	119	108	197	109	48	29	48	141
15	234	159	147	120	117	111	221	94	44	29	54	145
16	234	161	147	134	117	111	230	85	38	28	53	161
17	234	160	149	134	116	111	209	89	28	33	55	176
18	238	159	148	133	114	109	210	90	20	35	49	191
19	227	159	146	133	118	107	162	90	23	37	46	195
20	223	156	142	133	118	112	138	111	32	39	43	203
21	234	157	143	132	118	112	123	100	46	33	43	205
22	249	155	140	133	116	116	144	80	41	31	26	218
23	249	155	142	134	117	116	182	73	36	32	37	220
24	260	156	148	134	116	115	170	79	35	43	43	206
25	264	155	143	135	117	115	193	86	42	37	63	225
26	228	151	143	138	117	114	134	79	44	28	61	239
27	181	151	141	138	116	102	118	88	43	38	56	243
28	175	154	140	137	116	81	116	92	35	43	39	241
29	170	154	140	138	---	111	118	99	30	42	42	234
30	166	152	137	136	---	111	136	100	41	42	39	251
31	164	---	132	135	---	87	---	91	---	43	114	---
Total	6,619	4,742	4,539	4,101	3,351	3,455	4,166	3,405	1,256	1,218	1,514	4,664
Mean	214	158	146	132	120	111	139	110	41.9	39.3	48.8	155
Max	264	164	158	144	135	119	230	169	89	96	114	251
Min	164	151	132	113	114	81	64	73	20	28	26	40
Ac-ft	13,130	9,410	9,000	8,130	6,650	6,850	8,260	6,750	2,490	2,420	3,000	9,250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	234	186	165	157	147	139	162	168	125	64.2	93.3	179
Max	314	244	202	233	203	243	334	1,272	834	130	178	271
(WY)	(1973)	(1973)	(1974)	(1972)	(1972)	(1972)	(1985)	(1984)	(1984)	(1997)	(1997)	(1986)
Min	178	141	134	117	114	99.3	89.7	50.6	36.5	28.4	41.3	89.7
(WY)	(1993)	(2009)	(2009)	(1993)	(2005)	(2010)	(1977)	(1992)	(1992)	(1977)	(2004)	(2003)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1970 - 2013	
Annual total	45,661		43,030			
Annual mean	125		118		151	
Highest annual mean					314	1984
Lowest annual mean					106	2004
Highest daily mean	264	Oct 25	264	Oct 25	3,440	May 16, 1984
Lowest daily mean	29	Aug 4	20	Jun 18	13	Jul 10, 1977
Annual seven-day minimum	34	Jul 29	32	Jul 13	16	Jul 14, 1977
Annual runoff (ac-ft)	90,570		85,350		109,700	
10 percent exceeds	176		203		231	
50 percent exceeds	138		118		148	
90 percent exceeds	44		39		61	

