



Water-Data Report 2008

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR

Lower Columbia Basin
Lower Columbia-Sandy Subbasin

LOCATION.--Lat 45°26'41", long 122°06'30" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.31, T.1 S., R.6 E., Clackamas County, OR, Hydrologic Unit 17080001, Mount Hood National Forest, on right bank, 6.2 mi northeast of Bull Run and at mile 0.6.

DRAINAGE AREA.--15.40 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR OR-91-1: 1989.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 990 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--34 years (water years 1975-2008), 111 ft³/s, 97.54 in/yr, 80,090 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,630 ft³/s Feb. 7, 1996, gage height, 9.54 ft, from rating curve extended above 1,800 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 5.4 ft³/s Oct. 13, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 23	2300	*1,430	*7.04

Minimum discharge, 18 ft³/s, Sept. 17-21.

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	91	33	81	95	60	260	72	238	207	101	34	32
2	73	31	166	91	56	213	67	203	184	91	42	29
3	191	28	881	122	52	169	64	203	277	84	31	28
4	224	27	793	154	47	144	66	207	352	77	28	26
5	130	25	431	155	48	120	84	219	273	70	27	26
6	86	24	337	130	55	104	126	237	382	67	26	25
7	78	23	245	108	85	92	166	212	453	61	25	24
8	96	22	174	120	134	101	162	191	321	57	25	23
9	73	25	128	183	290	108	149	168	254	55	25	22
10	62	77	100	426	260	110	186	160	403	53	25	22
11	58	48	81	728	242	224	184	210	469	48	23	21
12	48	97	69	578	194	207	192	207	311	45	23	21
13	41	166	60	469	194	346	251	191	237	43	22	20
14	36	107	53	300	161	400	261	331	204	42	22	20
15	33	93	60	239	133	294	212	383	179	40	21	19
16	35	190	52	179	115	227	179	450	162	38	21	19
17	57	579	58	141	102	194	162	494	153	37	21	19
18	122	420	88	113	95	499	149	463	136	35	21	18
19	305	282	180	97	90	426	131	391	126	34	23	18
20	464	206	251	85	88	283	112	405	127	33	106	18
21	440	151	160	72	93	217	101	484	136	32	205	22
22	233	114	157	63	95	172	98	425	132	31	116	28
23	155	89	530	57	97	179	112	338	117	31	76	21
24	113	74	671	53	99	237	136	290	105	30	59	21
25	93	63	299	48	138	187	143	282	101	29	54	56
26	73	57	196	53	152	159	135	283	100	28	45	32
27	61	73	143	58	141	134	147	267	95	28	43	26
28	52	63	131	50	136	115	215	247	109	28	40	24
29	46	103	158	47	148	100	352	264	117	27	36	22
30	41	98	159	45	---	88	299	234	111	33	33	21
31	37	---	117	61	---	78	---	218	---	28	32	---
Total	3,647	3,388	7,009	5,120	3,600	6,187	4,713	8,895	6,333	1,436	1,330	723
Mean	118	113	226	165	124	200	157	287	211	46.3	42.9	24.1
Max	464	579	881	728	290	499	352	494	469	101	205	56
Min	33	22	52	45	47	78	64	160	95	27	21	18
Ac-ft	7,230	6,720	13,900	10,160	7,140	12,270	9,350	17,640	12,560	2,850	2,640	1,430
Cfsm	7.64	7.33	14.7	10.7	8.06	13.0	10.2	18.6	13.7	3.01	2.79	1.56
In.	8.81	8.18	16.93	12.37	8.70	14.95	11.38	21.49	15.30	3.47	3.21	1.75

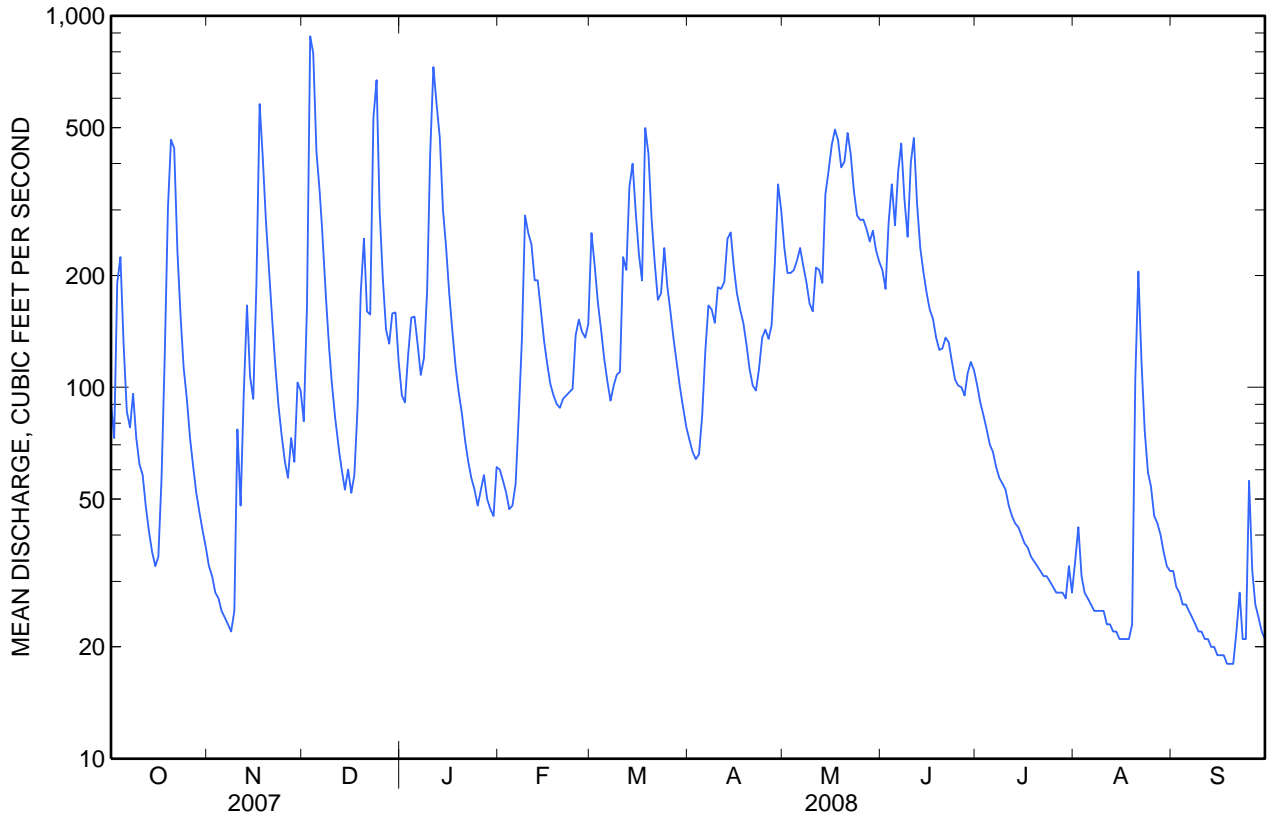
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	61.3	166	198	186	173	148	140	105	73.4	30.9	21.3	28.7
Max	146	376	413	322	353	275	215	287	211	91.2	53.2	93.4
(WY)	(1997)	(2007)	(1997)	(2006)	(1996)	(1997)	(1976)	(2008)	(2008)	(1983)	(1978)	(1977)
Min	8.31	23.3	50.4	56.5	54.7	53.8	61.4	43.5	15.4	14.3	10.1	9.03
(WY)	(1988)	(1994)	(1977)	(2001)	(1977)	(1992)	(2004)	(2007)	(1992)	(2003)	(2003)	(1994)

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1975 - 2008	
Annual total	38,683.8		52,381			
Annual mean	106		143		111	
Highest annual mean					171	1997
Lowest annual mean					74.9	2001
Highest daily mean	1,110	Jan 3	881	Dec 3	2,880	Nov 25, 1999
Lowest daily mean	9.3	Sep 27	18	Sep 18	5.6	Oct 11, 1994
Annual seven-day minimum	9.5	Sep 10	19	Sep 14	5.7	Oct 7, 1994
Annual runoff (ac-ft)	76,730		103,900		80,090	
Annual runoff (cfsm)	6.88		9.29		7.18	
Annual runoff (inches)	93.44		126.53		97.54	
10 percent exceeds	236		307		237	
50 percent exceeds	60		101		72	
90 percent exceeds	11		25		15	



14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to current year.
pH: November 1980 to September 1981, June 1990 to September 1992.
WATER TEMPERATURE: October 1978 to current year.
TURBIDITY: June 1990 to September 1994.
SUSPENDED SEDIMENT DISCHARGE: October 1978 to September 1986.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--

SPECIFIC CONDUCTANCE: Records good.
WATER TEMPERATURE: Records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 56 microsiemens Oct. 31, 1988; minimum, 9 microsiemens Jan. 4, 1983.
pH: Maximum recorded, 8.0 units Aug. 17, Oct. 2, 1990, but may have been higher in water years 1990, 1992 during periods of missing record; minimum recorded, 6.4 units Dec. 6, 1991, but may have been lower during periods of missing record.
WATER TEMPERATURE: Maximum, 18.0°C June 23, 24, July 18, 19, 1992; minimum, 0.0°C on many days during winter periods.
TURBIDITY: Maximum recorded, 16 NTU Oct. 16, 1993; minimum recorded, 0.08 NTU Sept. 2, 1994.
SEDIMENT CONCENTRATION: Maximum daily, 212 mg/L Nov. 7, 1985; minimum, 0 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 794 tons Nov. 7, 1985; minimum, 0 ton on many days.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 43 microsiemens Aug. 16-18; minimum, 14 microsiemens Dec. 3, 23.
WATER TEMPERATURE: Maximum, 15.0°C Aug. 16; minimum, 0.5°C Jan. 22, 24, 25, 27.

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	29	26	27	26	26	26	22	22	22	23	22	22
2	26	25	26	27	26	27	23	17	21	23	22	23
3	25	21	23	27	27	27	17	14	16	22	21	22
4	21	20	20	28	27	28	16	15	16	21	20	21
5	21	20	21	28	28	28	18	16	17	21	20	21
6	23	21	22	28	28	28	18	17	17	21	21	21
7	24	23	23	29	28	29	19	17	18	22	21	21
8	23	22	23	29	29	29	20	19	19	22	20	21
9	24	23	23	30	29	29	20	20	20	21	20	20
10	24	24	24	29	25	27	21	20	21	21	17	18
11	25	24	24	26	25	25	22	21	22	17	16	16
12	26	25	25	26	21	25	23	22	22	17	16	17
13	26	26	26	21	20	21	23	22	23	18	16	17
14	27	26	26	22	21	21	23	22	23	18	18	18
15	27	27	27	22	22	22	23	22	22	19	18	19
16	28	27	27	25	19	22	23	22	22	20	19	19
17	27	26	26	20	16	18	23	22	22	21	20	20
18	26	23	24	18	17	18	22	21	21	22	21	21
19	24	19	20	19	18	19	21	17	20	22	22	22
20	20	17	18	20	19	20	19	17	18	23	22	22
21	18	17	18	21	20	20	20	19	19	23	23	23
22	20	18	19	22	21	21	19	18	19	24	23	24
23	21	20	20	22	21	22	19	14	17	24	24	24
24	22	21	21	23	22	22	18	15	17	25	24	25
25	22	22	22	23	23	23	19	17	18	25	25	25
26	23	22	23	24	23	23	20	19	19	25	23	24
27	24	23	23	23	23	23	20	20	20	25	23	24
28	24	24	24	23	23	23	21	20	21	25	24	25
29	25	24	25	23	22	22	21	20	20	25	25	25
30	26	25	25	22	21	22	21	20	21	26	25	25
31	26	25	26	---	---	---	22	21	21	26	24	25
Month	29	17	23	30	16	24	23	14	20	26	16	22

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	25	25	25	21	19	20	24	24	24	21	20	20
2	25	25	25	20	20	20	25	24	25	21	20	21
3	26	25	26	21	20	21	25	25	25	21	21	21
4	26	26	26	22	21	21	25	25	25	21	20	20
5	27	26	26	22	21	22	25	24	24	21	20	20
6	27	26	26	23	22	22	24	21	23	20	19	20
7	26	24	25	23	22	23	22	21	21	20	20	20
8	25	22	24	23	22	23	22	21	21	21	20	20
9	22	20	20	23	22	22	22	21	22	21	20	21
10	20	20	20	23	22	22	22	20	21	21	20	21
11	21	20	20	22	19	20	21	20	21	21	20	20
12	21	20	21	20	20	20	21	20	21	20	20	20
13	21	20	21	20	18	19	20	19	19	21	20	20
14	21	21	21	18	18	18	19	19	19	20	18	19
15	22	21	22	19	18	19	21	19	19	18	17	18
16	23	22	22	20	19	20	21	21	21	18	16	17
17	23	22	23	21	20	20	22	21	22	17	16	17
18	23	23	23	20	17	18	22	22	22	17	16	17
19	23	23	23	19	17	18	22	22	22	17	17	17
20	25	23	24	20	19	19	23	22	23	17	16	17
21	25	24	24	20	19	20	23	23	23	17	16	17
22	25	24	24	21	20	20	24	23	23	18	16	17
23	24	24	24	21	19	21	23	23	23	18	18	18
24	24	23	24	20	19	19	23	22	23	19	18	18
25	24	22	23	20	20	20	22	22	22	19	18	18
26	22	22	22	21	20	20	22	22	22	19	18	18
27	22	21	22	22	21	21	23	21	22	19	18	18
28	22	22	22	22	22	22	22	20	21	19	19	19
29	22	21	22	23	22	22	20	19	19	19	18	18
30	---	---	---	23	23	23	20	19	19	19	18	19
31	---	---	---	24	23	24	---	---	---	19	18	19
Month	27	20	23	24	17	21	25	19	22	21	16	19

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	20	19	19	23	22	22	38	35	37	34	33	34
2	20	19	20	24	23	23	35	33	34	35	34	35
3	20	17	19	25	23	24	37	35	36	36	35	36
4	18	17	17	25	24	25	38	37	38	37	36	36
5	19	18	18	27	25	26	39	38	38	37	36	37
6	18	16	17	27	26	26	40	39	39	38	37	38
7	18	16	17	28	27	27	40	39	40	38	38	38
8	18	18	18	28	28	28	40	39	39	38	38	38
9	19	18	19	28	27	28	40	39	39	39	38	39
10	19	16	18	28	27	28	40	39	39	39	38	39
11	18	16	17	29	28	28	41	40	40	39	39	39
12	19	18	18	30	29	29	41	40	41	40	39	40
13	19	19	19	30	30	30	41	41	41	40	39	40
14	20	19	19	31	30	30	42	41	42	40	40	40
15	20	19	20	31	30	31	42	41	42	41	40	40
16	20	20	20	32	31	31	43	42	42	41	40	41
17	21	20	20	32	31	32	43	42	43	42	41	41
18	21	20	21	33	32	32	43	42	42	42	40	41
19	21	21	21	33	32	33	42	40	41	42	41	41
20	21	21	21	34	33	34	40	27	33	42	41	42
21	21	20	21	35	34	34	27	22	24	42	39	41
22	21	20	21	35	34	35	26	23	24	39	38	38
23	22	21	21	35	34	35	28	26	27	39	38	39
24	23	22	22	36	35	36	29	27	28	40	38	39
25	23	22	22	36	35	36	30	29	29	38	32	33
26	23	22	22	37	36	36	31	30	30	35	33	34
27	23	23	23	37	36	37	32	31	31	36	35	36
28	23	22	22	38	37	37	33	32	32	37	36	37
29	22	21	22	38	37	38	34	33	33	38	37	37
30	22	22	22	38	35	37	34	33	33	38	38	38
31	---	---	---	38	36	37	34	33	34	---	---	---
Month	23	16	20	38	22	31	43	22	36	42	32	38

	Max	Min	Mean
Year	43	14	25

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	9.5	9.1	9.3	6.2	5.9	6.1	4.3	3.9	4.0	3.6	3.5	3.6
2	9.5	9.3	9.4	5.9	5.0	5.3	4.2	3.9	4.0	3.9	3.6	3.8
3	9.5	8.5	9.1	5.2	4.7	5.0	5.5	4.0	4.8	4.2	3.9	4.1
4	8.7	8.3	8.5	5.7	5.2	5.5	6.2	5.5	5.9	4.6	4.1	4.3
5	8.5	7.7	8.1	5.8	5.7	5.7	6.4	6.0	6.1	4.4	3.9	4.1
6	8.3	7.5	7.9	5.8	5.5	5.6	6.2	5.7	6.0	4.1	3.3	3.8
7	9.1	8.3	8.7	5.8	5.3	5.6	5.7	5.3	5.6	3.5	2.8	3.1
8	9.5	8.7	9.1	6.2	5.7	5.9	5.3	4.5	5.0	3.3	2.7	2.8
9	9.5	9.1	9.3	6.9	6.0	6.4	4.5	4.0	4.2	4.0	2.8	3.5
10	9.5	9.1	9.3	7.2	6.5	7.0	4.5	3.9	4.3	4.0	2.9	3.5
11	9.1	8.5	8.8	6.9	6.3	6.6	4.0	3.4	3.8	4.3	3.2	3.7
12	9.1	8.7	8.9	7.2	6.2	6.6	4.4	3.9	4.1	4.5	4.1	4.3
13	8.9	8.5	8.7	7.2	6.0	6.8	4.6	4.1	4.3	4.5	4.1	4.3
14	8.7	8.3	8.5	6.7	5.7	6.1	4.6	4.1	4.3	4.5	3.5	4.1
15	9.1	8.7	8.9	7.6	6.7	7.3	4.7	4.4	4.6	3.8	3.5	3.6
16	9.1	8.1	8.6	8.0	7.6	7.8	4.6	4.1	4.3	3.5	2.9	3.2
17	8.1	7.7	7.9	8.6	8.0	8.3	4.4	4.2	4.3	3.7	2.9	3.3
18	8.5	7.5	7.9	8.2	6.2	7.3	4.9	4.2	4.5	3.7	3.2	3.5
19	8.9	8.1	8.6	6.3	6.0	6.1	5.1	4.4	4.9	3.5	2.9	3.2
20	8.1	7.5	7.7	6.2	5.7	6.0	4.4	3.3	3.8	3.5	2.6	3.1
21	8.3	7.7	8.0	5.7	5.2	5.6	4.6	4.1	4.2	2.6	0.7	1.5
22	8.3	7.7	8.1	5.2	4.5	4.7	4.4	4.1	4.2	1.0	0.5	0.7
23	8.9	8.1	8.4	4.5	4.0	4.3	4.7	3.5	4.4	0.9	0.6	0.8
24	8.7	8.3	8.5	4.8	4.0	4.5	4.6	3.5	4.1	0.9	0.5	0.6
25	8.3	7.0	7.5	4.8	3.9	4.3	4.6	3.9	4.5	1.0	0.5	0.7
26	7.0	6.1	6.3	4.3	3.7	3.9	3.9	3.2	3.4	1.9	1.0	1.5
27	6.8	6.1	6.4	4.7	4.3	4.5	3.5	2.8	3.2	1.4	0.5	1.0
28	6.8	6.2	6.5	4.7	3.7	4.3	3.5	3.0	3.3	1.7	1.2	1.4
29	7.1	6.4	6.8	4.3	3.3	3.8	4.1	3.3	3.7	1.7	0.8	1.4
30	7.1	6.6	7.0	4.5	3.4	4.1	3.8	3.0	3.4	1.7	1.0	1.3
31	6.6	5.6	6.0	---	---	---	3.6	3.2	3.5	1.7	1.3	1.6
Month	9.5	5.6	8.2	8.6	3.3	5.7	6.4	2.8	4.3	4.6	0.5	2.8

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	2.3	1.7	2.0	4.3	3.4	3.6	3.6	2.6	3.1	5.4	3.6	4.3
2	1.7	0.8	1.3	4.1	3.5	3.7	3.9	2.8	3.3	5.9	4.0	4.8
3	2.2	1.4	1.9	4.0	3.5	3.8	4.2	3.0	3.5	5.0	4.2	4.5
4	2.5	2.2	2.4	4.1	3.7	3.9	3.9	3.4	3.6	6.4	3.7	4.8
5	2.3	2.2	2.3	4.0	3.2	3.6	3.7	3.0	3.4	6.6	3.9	5.1
6	2.6	1.6	2.3	4.3	3.2	3.8	3.9	3.4	3.6	5.0	4.1	4.5
7	2.2	1.6	1.9	4.3	3.5	4.0	3.6	3.0	3.3	4.5	4.2	4.4
8	2.8	2.2	2.5	4.6	3.8	4.3	4.0	3.0	3.5	4.9	3.9	4.4
9	2.6	1.7	2.2	4.5	3.5	3.9	4.4	3.6	3.9	6.2	4.0	4.9
10	3.4	2.6	3.1	4.8	4.0	4.4	4.2	3.7	3.9	5.4	4.4	4.9
11	3.8	3.2	3.5	4.8	3.8	4.1	5.4	3.4	4.2	5.0	4.2	4.6
12	4.1	3.5	3.8	4.6	3.7	4.1	5.9	3.7	4.6	5.4	4.0	4.5
13	4.0	3.5	3.7	4.3	3.4	3.9	5.4	3.6	4.4	4.9	4.2	4.5
14	3.8	3.5	3.7	4.1	3.4	3.8	4.4	3.4	3.8	5.0	4.2	4.6
15	4.1	3.5	3.8	3.8	3.2	3.5	3.6	3.1	3.3	7.0	3.9	5.0
16	4.0	3.7	3.9	4.3	3.5	3.9	4.2	3.1	3.7	6.6	4.0	5.0
17	3.8	3.4	3.6	4.3	3.5	3.9	4.7	3.9	4.2	6.8	4.0	5.1
18	3.7	3.4	3.5	4.1	3.1	3.7	4.4	3.4	3.9	6.8	4.0	5.1
19	4.0	3.2	3.5	4.2	3.4	3.8	3.6	2.8	3.2	6.6	4.2	5.2
20	4.1	3.8	4.0	4.0	3.4	3.8	3.7	2.6	3.1	5.2	4.4	4.8
21	4.0	3.5	3.7	4.0	3.1	3.5	3.7	2.6	3.2	4.5	4.2	4.4
22	4.1	3.7	3.9	4.5	3.1	3.7	3.9	3.1	3.5	4.4	4.0	4.2
23	4.0	3.5	3.8	4.4	3.7	4.0	4.5	3.4	3.9	4.7	4.2	4.4
24	4.5	3.8	4.2	4.2	3.1	3.6	4.0	3.6	3.8	6.2	4.0	5.0
25	4.3	3.7	4.1	4.2	3.1	3.6	5.2	3.4	4.2	5.4	4.7	5.0
26	4.1	3.4	3.8	3.9	2.4	3.3	5.9	3.6	4.6	5.2	4.7	4.9
27	4.5	3.7	4.0	3.1	2.2	2.7	5.9	4.0	4.9	5.5	4.7	5.1
28	4.3	3.7	3.9	3.1	2.5	2.8	5.0	4.2	4.5	5.4	4.9	5.1
29	4.6	3.8	4.2	3.0	2.4	2.6	4.2	3.4	3.7	5.6	4.8	5.2
30	---	---	---	3.3	2.4	2.8	4.0	3.3	3.6	7.4	4.8	5.9
31	---	---	---	3.6	2.8	3.1	---	---	---	7.4	5.1	6.1
Month	4.6	0.8	3.3	4.8	2.2	3.7	5.9	2.6	3.8	7.4	3.6	4.8

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	6.5	5.5	5.7	10.9	9.3	10.1	11.6	11.2	11.4	10.0	9.4	9.7
2	7.0	5.1	5.9	10.9	9.3	10.1	11.2	10.5	10.7	9.6	8.8	9.3
3	6.5	5.0	5.7	11.4	9.7	10.5	11.2	9.9	10.5	9.6	8.8	9.3
4	5.3	4.8	5.0	10.9	9.9	10.2	12.1	10.5	11.3	10.0	9.2	9.5
5	5.5	4.6	5.0	9.9	9.3	9.6	13.0	11.6	12.3	10.2	9.4	9.9
6	5.3	4.8	5.0	10.3	9.1	9.6	12.8	12.3	12.6	10.6	9.8	10.2
7	5.1	4.6	4.8	11.6	9.3	10.4	13.0	11.8	12.6	11.0	10.2	10.6
8	7.4	4.8	5.8	12.3	10.1	11.2	13.0	12.5	12.7	11.3	10.4	10.8
9	6.2	5.5	5.8	13.0	10.9	12.0	12.5	11.8	12.2	11.1	10.6	10.8
10	5.6	4.6	5.0	12.5	11.2	11.9	12.0	11.4	11.7	10.8	10.0	10.3
11	5.1	4.6	4.8	12.1	10.3	11.4	12.8	11.6	12.1	10.6	9.6	10.2
12	7.2	4.8	5.8	12.8	10.5	11.7	13.0	12.0	12.6	10.6	10.0	10.3
13	8.2	5.1	6.5	13.2	11.6	12.5	13.2	12.3	12.8	10.6	9.8	10.2
14	8.0	5.5	6.6	13.2	12.1	12.8	14.2	12.5	13.4	10.6	9.8	10.2
15	8.4	5.6	6.8	13.7	12.3	13.0	14.7	13.5	14.1	11.0	10.0	10.5
16	8.8	5.6	7.1	13.5	12.3	12.9	15.0	14.0	14.5	11.5	10.6	11.0
17	7.6	6.2	6.8	13.0	11.6	12.4	14.7	14.5	14.7	11.7	10.8	11.3
18	7.8	6.0	6.8	12.3	11.4	11.9	14.5	13.0	13.7	11.3	10.8	11.0
19	8.8	6.0	7.3	12.3	11.2	11.7	13.0	12.5	12.8	10.8	10.0	10.3
20	9.0	6.7	7.8	12.5	10.9	11.9	12.8	12.3	12.6	10.2	10.0	10.2
21	8.4	7.0	7.7	12.8	11.6	12.3	12.5	11.4	11.9	10.2	9.8	10
22	7.8	6.9	7.2	12.5	10.7	11.5	12.0	10.5	11.2	10.0	9.2	9.7
23	7.8	6.2	7.0	10.9	10.3	10.6	12.3	10.7	11.4	9.2	8.4	8.7
24	9.0	6.2	7.5	11.6	9.7	10.6	12.1	11.2	11.8	9.4	8.6	8.9
25	9.6	7.0	8.3	12.3	10.9	11.7	12.1	11.4	11.6	10.0	9.2	9.7
26	9.1	7.4	8.3	12.3	11.2	11.9	11.4	10.7	11.1	9.8	9.2	9.5
27	10.5	7.3	8.8	12.1	11.4	11.9	11.2	10.5	10.8	9.4	9.0	9.2
28	11.8	8.7	10.2	12.1	10.5	11.4	11.6	10.3	10.8	9.6	8.8	9.2
29	10.9	9.1	10.1	11.8	11.2	11.4	11.7	10.9	11.4	10.0	9.2	9.6
30	11.4	8.9	10.1	11.6	10.7	11.1	11.7	10.4	11.0	10.6	10.0	10.3
31	---	---	---	11.6	10.3	11.1	10.4	9.8	10.1	---	---	---
Month	11.8	4.6	6.8	13.7	9.1	11.4	15.0	9.8	12.1	11.7	8.4	10.0

	Max	Min	Mean
Year	15.0	0.5	6.4