

Figure 19. Location of surface-water and water-quality stations in the Columbia River between Bonneville Dam and confluence with the Willamette River and the Sandy River Basin.

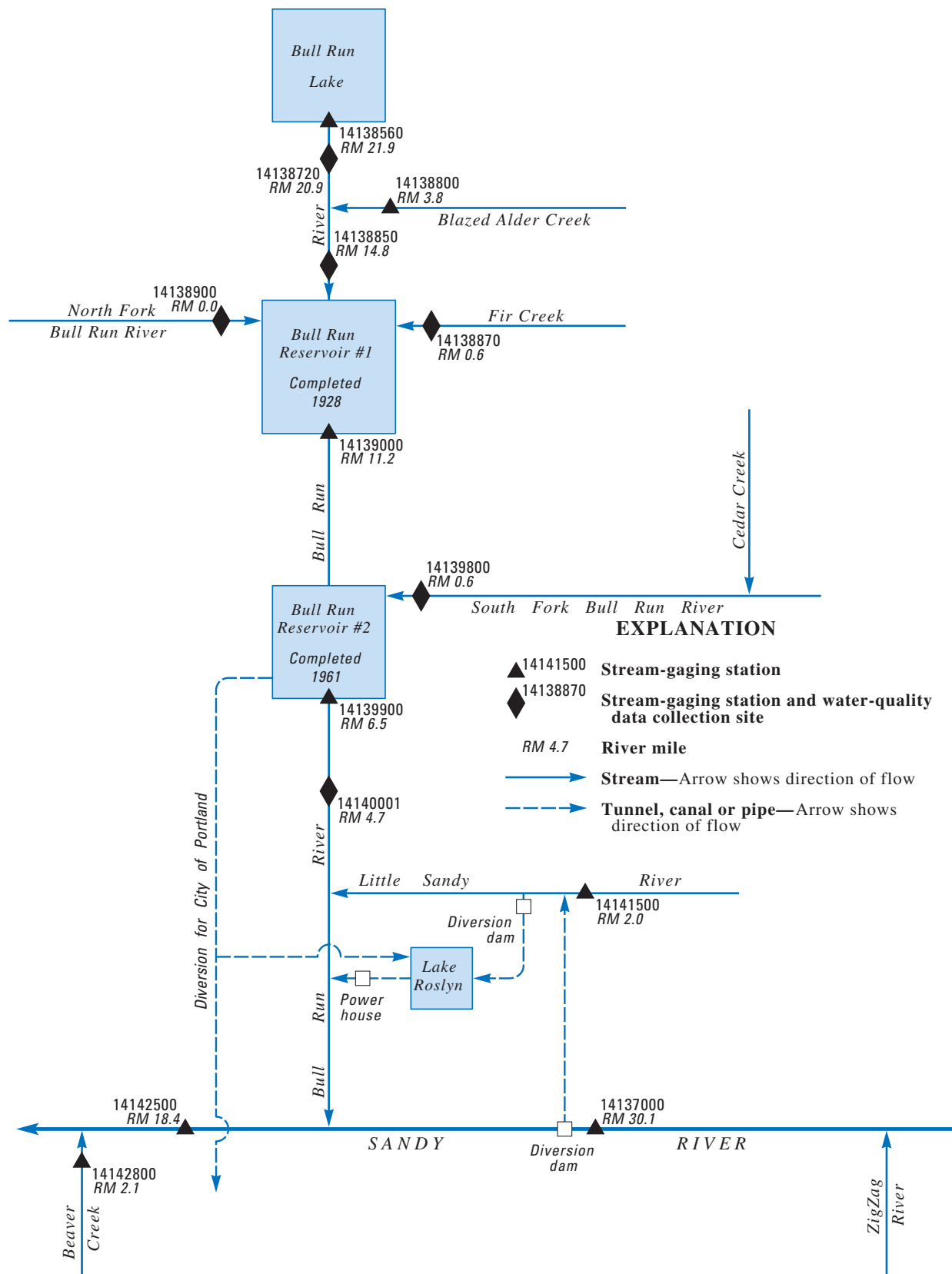


Figure 20. Schematic diagram showing gaging stations and diversions in the Sandy River Basin.

SANDY RIVER BASIN

14139000 BULL RUN RESERVOIR NUMBER ONE NEAR BULL RUN, OR

LOCATION.--Lat 45°28'58", long 122°04'56", in NW ¼ SW ¼ sec.16, T.1 S., R.6 E., Multnomah County, Hydrologic Unit 17080001, in Mount Hood National Forest, in control house of Bear Creek Dam on Bull Run River, 8.2 mi northeast of Bull Run, and at mile 11.2.

DRAINAGE AREA.--74.6 mi².

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1937, published as Bull Run Reservoir. October 1937 to September 1967, published as Lake Ben Morrow. Prior to October 1975, monthend contents only.

REVISED RECORDS.--WSP 814: 1935(M), WSP 1935: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Portland Water Bureau). Prior to Oct. 9, 1930, Oct. 1, 1962 to Dec. 31, 1975, nonrecording gage. Oct. 9, 1930 to Sept. 30, 1962, water-stage recorder at present site and datum.

REMARKS.--Lake is formed by concrete dam completed in March 1929 for water supply of city of Portland. Storage began about Apr. 29, 1929; first filling occurred May 15, 1929. Capacity, 26,930 acre-ft at crest of spillway, elevation, 1,036.0 ft; capacity increased in October 1954 to 30,140 acre-ft at elevation 1,044.0 ft by installation of three gates 40 ft wide and 8 ft high. No dead storage. Water is used for power generation by Portland General Electric Co. and municipal supply for city of Portland.

COOPERATION.--Capacity table furnished by Portland Water Bureau.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 31,600 acre-ft Mar. 31, 1931, elevation, 1,047.40 ft; minimum contents observed, 169 acre-ft Jan. 10, 1960, elevation, 887.5 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 30,800 acre-ft June 13, elevation, 1,045.47 ft; minimum contents, 12,300 acre-ft Sept. 18, elevation, 989.86 ft.

Capacity Table (elevation, in feet and contents, in acre-feet)

870	0	970	8,050
890	213	990	12,370
910	1,130	1,010	17,950
930	2,680	1,030	24,680
950	4,900	1,048	31,860

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,032.70	1,035.32	1,034.98	1,033.66	1,035.00	1,034.45	1,042.60	1,039.92	1,044.87	1,044.80	1,032.41	998.41
2	1,031.31	1,035.48	1,034.92	1,033.42	1,035.07	1,034.45	1,040.38	1,040.19	1,044.45	1,044.81	1,031.35	996.85
3	1,029.26	1,035.17	1,034.93	1,032.69	1,034.96	1,034.40	1,039.61	1,040.26	1,042.49	1,044.71	1,030.33	996.03
4	1,027.51	1,035.55	1,035.39	1,032.09	1,035.37	1,034.21	1,040.01	1,040.34	1,041.51	1,044.44	1,028.87	995.04
5	1,026.46	1,035.23	1,034.99	1,031.43	1,035.42	1,034.02	1,039.92	1,040.28	1,043.26	1,044.18	1,027.60	995.47
6	1,025.55	1,035.20	1,034.97	1,030.97	1,035.03	1,033.76	1,039.57	1,040.16	1,043.95	1,044.01	1,026.44	995.88
7	1,024.28	1,034.77	1,034.67	1,030.56	1,035.16	1,033.17	1,039.53	1,040.16	1,044.73	1,043.89	1,025.24	995.15
8	1,023.36	1,034.46	1,034.70	1,030.17	1,035.02	1,032.91	1,039.45	1,039.91	1,043.85	1,043.75	1,024.07	995.20
9	1,024.04	1,033.11	1,035.71	1,029.15	1,035.27	1,032.31	1,039.82	1,040.45	1,043.93	1,044.09	1,022.73	995.68
10	1,023.98	1,031.29	1,037.21	1,028.17	1,035.17	1,031.81	1,039.88	1,041.30	1,044.30	1,044.42	1,021.61	995.39
11	1,023.27	1,029.64	1,037.40	1,026.99	1,035.33	1,031.57	1,040.43	1,039.96	1,044.66	1,044.71	1,020.35	995.95
12	1,022.50	1,027.59	1,036.23	1,026.17	1,035.64	1,031.27	1,040.15	1,040.49	1,045.00	1,044.72	1,019.35	995.69
13	1,021.43	1,025.65	1,034.71	1,025.76	1,035.17	1,030.27	1,040.02	1,039.72	1,044.81	1,044.68	1,017.84	995.14
14	1,020.25	1,023.29	1,035.52	1,025.05	1,034.99	1,029.57	1,040.12	1,039.53	1,044.72	1,044.61	1,016.73	995.57
15	1,018.21	1,020.91	1,034.90	1,024.15	1,035.16	1,028.86	1,040.27	1,039.69	1,044.81	1,044.39	1,015.29	994.64
16	1,016.44	1,017.94	1,034.87	1,022.91	1,035.25	1,028.33	1,040.68	1,039.87	1,044.21	1,044.09	1,014.07	993.42
17	1,015.65	1,015.63	1,035.02	1,026.43	1,035.19	1,027.11	1,040.59	1,039.87	1,044.41	1,043.85	1,012.83	992.13
18	1,018.67	1,014.92	1,035.03	1,037.82	1,035.15	1,026.96	1,040.08	1,040.81	1,044.61	1,043.35	1,011.64	989.92
19	1,022.45	1,014.34	1,034.86	1,035.84	1,035.16	1,027.45	1,040.14	1,042.02	1,044.88	1,042.56	1,010.38	990.38
20	1,024.05	1,013.46	1,034.79	1,035.92	1,035.22	1,027.29	1,040.10	1,040.83	1,044.61	1,041.99	1,008.82	990.81
21	1,027.18	1,012.72	1,034.81	1,034.85	1,035.14	1,026.93	1,040.07	1,040.34	1,044.52	1,041.19	1,007.57	991.24
22	1,030.51	1,011.58	1,034.87	1,034.56	1,035.22	1,026.67	1,040.06	1,040.28	1,044.40	1,040.62	1,007.14	991.66
23	1,034.21	1,010.96	1,034.95	1,034.28	1,035.12	1,026.78	1,040.42	1,040.65	1,044.79	1,040.06	1,006.22	992.07
24	1,035.12	1,016.06	1,034.88	1,034.58	1,035.34	1,025.95	1,040.10	1,041.55	1,044.89	1,039.51	1,005.26	992.47
25	1,034.76	1,026.10	1,034.29	1,035.17	1,035.05	1,025.35	1,040.46	1,041.99	1,044.61	1,038.95	1,004.31	992.88
26	1,035.53	1,030.23	1,035.01	1,035.00	1,034.76	1,029.49	1,040.02	1,042.72	1,044.90	1,038.24	1,003.35	992.06
27	1,035.66	1,033.67	1,034.79	1,035.14	1,034.65	1,042.92	1,040.18	1,043.32	1,045.00	1,037.22	1,002.36	991.32
28	1,035.17	1,034.26	1,034.50	1,034.93	1,034.39	1,043.62	1,040.02	1,043.78	1,045.10	1,036.24	1,001.39	990.13
29	1,034.91	1,035.40	1,034.47	1,035.53	---	1,043.50	1,040.02	1,044.08	1,044.83	1,035.16	1,000.50	990.54
30	1,035.44	1,035.72	1,033.85	1,035.30	---	1,043.93	1,039.95	1,044.27	1,044.93	1,034.09	999.58	992.77
31	1,035.04	---	1,033.62	1,035.08	---	1,043.13	---	1,044.57	---	1,033.29	998.62	---
MAX	1,035.66	1,035.72	1,037.40	1,037.82	1,035.64	1,043.93	1,042.60	1,044.57	1,045.10	1,044.81	1,032.41	998.41
MIN	1,015.65	1,010.96	1,033.62	1,022.91	1,034.39	1,025.35	1,039.45	1,039.53	1,041.51	1,033.29	998.62	989.92
(†)	26,600	26,800	26,000	26,600	26,300	29,800	28,500	30,400	30,500	25,900	14,600	13,100
(‡)	+300	+200	-800	+600	-300	+3,500	-1,300	+1,900	+100	-4,600	-11,300	-1,500

CAL YR2004 MAX 1,045.47 MIN 1,010.96 AC-FT‡ -600
WTR YR2005 MAX 1,045.10 MIN 989.92 AC-FT‡ -13,200

† Contents, in acre-feet, at 2400, on last day of month.

‡ Change in contents, in acre-feet.

SANDY RIVER BASIN

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR

LOCATION.--Lat 45°26'41", long 122°06'30", in NE 1/4 NE 1/4 sec.31, T.1 S., R.6 E., Clackamas County, Hydrologic Unit 17080001, in Mount Hood National Forest, on right bank 6.2 mi northeast of Bull Run and at mile 0.6.

DRAINAGE AREA.--15.4 mi².

WATER-DISCHARGE 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 fair. No regulation or diversion upstream from station.

AVERAGE DISCHARGE.--31 years (water years 1975-2005), 109 ft³/s, 96.45 in/yr, 79,200 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 maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 18	0630	*711	*6.13				

Minimum discharge, 9.5 ft³/s, Sept. 24, 27-29, gage height, 2.41 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	177	179	52	74	34	220	60	81	40	16	11
2	25	278	137	50	66	30	198	66	115	37	16	11
3	24	260	110	45	59	29	180	55	97	35	15	11
4	22	183	93	42	72	27	185	59	84	33	15	11
5	21	135	86	39	80	26	159	59	81	30	15	11
6	41	104	78	37	73	25	136	54	79	40	14	10
7	32	83	100	37	76	24	157	56	85	35	14	10
8	41	70	230	35	70	23	177	57	86	31	14	10
9	83	60	258	32	63	22	137	93	74	45	14	11
10	63	53	363	30	59	22	110	180	67	38	14	17
11	52	46	427	28	55	21	151	182	67	37	13	15
12	46	41	282	30	69	20	131	144	75	35	13	12
13	40	38	192	35	94	20	113	113	69	32	13	11
14	35	34	179	30	81	19	115	101	64	30	13	11
15	32	36	140	28	72	19	110	100	58	29	12	11
16	31	40	113	33	65	20	189	124	62	27	12	11
17	54	32	93	104	59	26	220	134	114	26	13	11
18	163	48	78	526	54	21	211	211	97	25	13	11
19	177	51	70	273	50	36	176	267	89	23	12	10
20	123	43	62	193	46	35	142	216	81	23	12	10
21	157	39	60	149	42	33	115	181	69	22	12	10
22	163	38	66	113	39	27	97	164	62	22	12	10
23	186	43	60	92	36	25	98	128	56	21	12	10
24	176	194	55	78	34	24	90	105	50	20	12	9.8
25	138	285	54	68	32	24	107	87	46	19	11	9.8
26	116	202	59	61	31	105	94	74	42	19	11	9.8
27	104	142	52	61	30	488	84	64	50	18	11	9.7
28	85	108	47	55	33	510	74	56	56	18	11	9.6
29	98	87	52	98	---	408	68	51	48	17	13	9.6
30	174	88	54	97	---	274	67	48	43	17	14	46
31	205	---	51	84	---	202	---	49	---	16	12	---
TOTAL	2,734	3,038	3,880	2,635	1,614	2,619	4,111	3,338	2,147	860	404	360.3
MEAN	88.2	101	125	85.0	57.6	84.5	137	108	71.6	27.7	13.0	12.0
MAX	205	285	427	526	94	510	220	267	115	45	16	46
MIN	21	32	47	28	30	19	67	48	42	16	11	9.6
AC-FT	5,420	6,030	7,700	5,230	3,200	5,190	8,150	6,620	4,260	1,710	801	715
CFSM	5.73	6.58	8.13	5.52	3.74	5.49	8.90	6.99	4.65	1.80	0.85	0.78
IN.	6.60	7.34	9.37	6.37	3.90	6.33	9.93	8.06	5.19	2.08	0.98	0.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2005, BY WATER YEAR (WY)

	61.0	160	196	182	174	146	141	102	70.6	31.3	21.2	29.9
MEAN	61.0	160	196	182	174	146	141	102	70.6	31.3	21.2	29.9
MAX	146	313	413	321	353	275	215	163	180	91.2	53.2	93.4
(WY)	(1997)	(1996)	(1997)	(1997)	(1996)	(1997)	(1976)	(1999)	(1981)	(1983)	(1978)	(1977)
MIN	8.31	23.3	50.4	56.5	54.7	53.8	61.4	47.1	15.4	14.3	10.1	9.03
(WY)	(1988)	(1994)	(1977)	(2001)	(1977)	(1992)	(2004)	(1992)	(1992)	(2003)	(2003)	(1994)

SANDY RIVER BASIN

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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1975 - 2005	
ANNUAL TOTAL	36,441		27,740.3		109	
ANNUAL MEAN	99.6		76.0		171	
HIGHEST ANNUAL MEAN					1997	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	1,660	Jan 29	526	Jan 18	2,880	Nov 25, 1999
LOWEST DAILY MEAN	11	Aug 18	9.6	Sep 28	5.6	Oct 11, 1994
ANNUAL SEVEN-DAY MINIMUM	11	Aug 15	9.8	Sep 23	5.7	Oct 7, 1994
ANNUAL RUNOFF (AC-FT)	72,280		55,020		79,200	
ANNUAL RUNOFF (CFSM)	6.47		4.94		7.10	
ANNUAL RUNOFF (INCHES)	88.03		67.01		96.45	
10 PERCENT EXCEEDS	206		179		231	
50 PERCENT EXCEEDS	66		52		72	
90 PERCENT EXCEEDS	16		12		15	

SANDY RIVER BASIN

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



2005 Water Year
SANDY RIVER BASIN

14139800 SOUTH FORK BULL RUN RIVER NEAR BULL RUN, OR

Latitude: 45° 26' 41"

Longitude: 122° 06' 30"

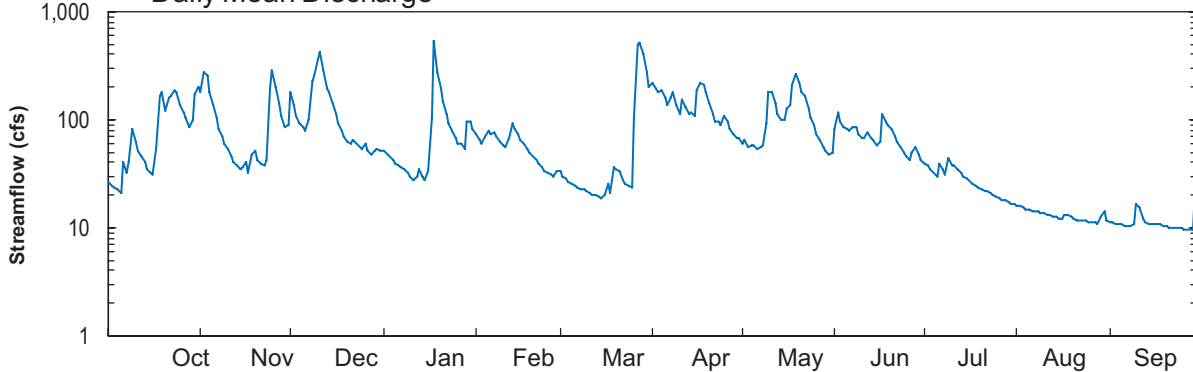
Hydrologic Unit Code: 17080001

Clackamas County

Datum: 990.00 feet

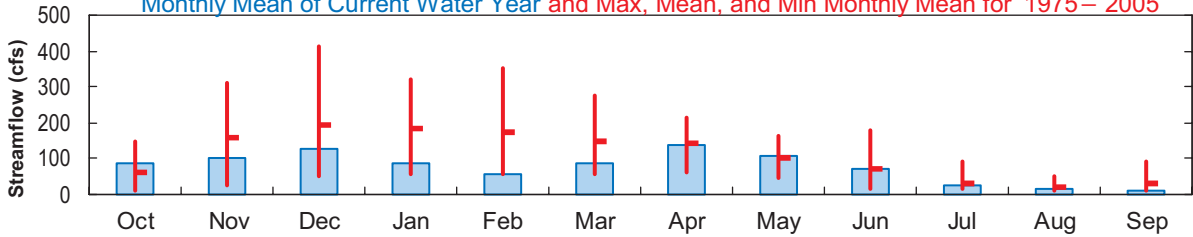
Drainage Area: 15.4 mi²

Daily Mean Discharge

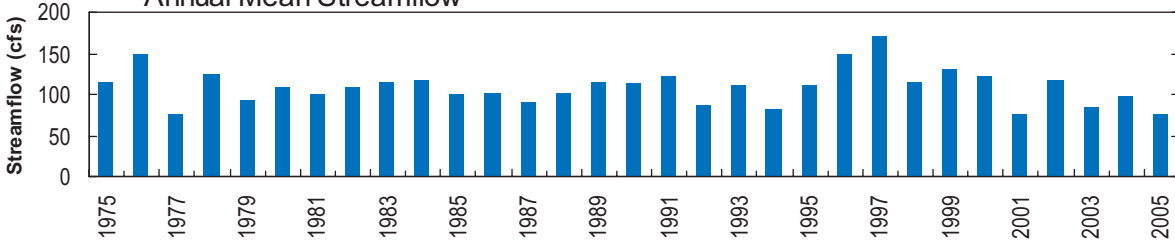


Monthly Statistics

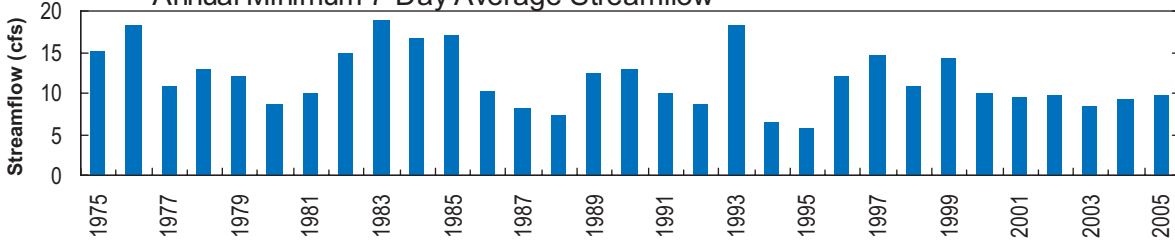
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1975–2005



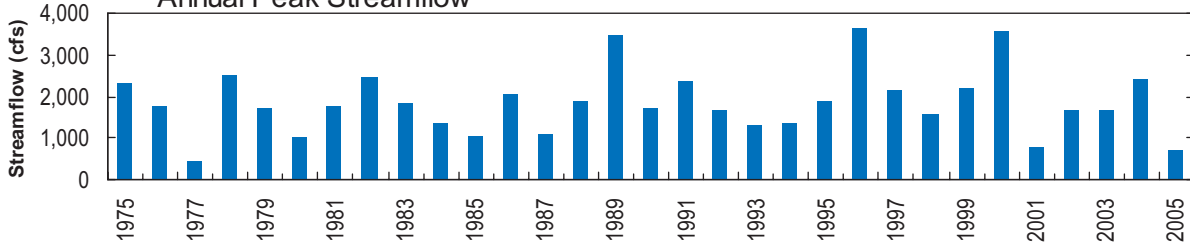
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



SANDY RIVER BASIN

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 except those for the periods Nov. 3 to Dec. 17, July 21 to Aug. 26, which are fair.
 WATER TEMPERATURE: Records excellent.

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 year 1990, 1992 during period of missing record; minimum recorded, 6.4 units Dec. 6, 1991, but may have been lower during period 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 tons on many days.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 42 microsiemens several days in August and September; minimum, 14 microsiemens Dec. 11.
 WATER TEMPERATURE: Maximum, 15.7°C July 28-31, Aug. 6; minimum, 1.5°C Jan. 5, 15.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	32	29	29	21	20	20	22	19	20	25	25	25
2	31	29	30	21	18	19	22	20	20	26	25	25
3	31	30	31	20	18	19	23	20	21	26	26	26
4	31	31	31	22	19	20	23	21	21	26	26	26
5	31	31	31	23	20	21	24	21	22	27	26	27
6	32	29	30	24	21	22	24	22	22	27	27	27
7	30	29	30	24	22	23	23	20	21	27	27	27
8	31	28	30	25	23	24	20	16	18	28	27	27
9	28	25	26	26	23	24	18	16	17	28	27	28
10	26	25	26	26	24	25	20	15	16	28	28	28
11	26	26	26	27	25	25	17	14	15	29	28	29
12	27	26	27	28	25	26	18	16	17	29	28	29
13	27	27	27	29	26	27	20	17	18	28	28	28
14	28	27	28	29	26	27	21	18	19	29	28	28
15	29	28	28	29	27	27	21	19	20	29	28	29
16	29	28	29	28	25	26	22	20	21	29	28	28
17	29	26	28	28	26	27	22	20	22	28	19	26
18	26	22	24	29	25	26	23	22	23	19	15	16
19	22	21	22	27	24	25	24	23	23	18	17	17
20	22	22	22	27	25	25	24	23	24	19	18	19
21	23	21	22	27	25	26	24	24	24	20	19	20
22	22	21	22	27	25	26	24	24	24	21	20	21
23	22	21	21	28	25	26	24	24	24	22	21	22
24	21	21	21	26	19	21	25	24	24	23	22	22
25	22	21	21	20	17	18	25	25	25	23	23	23
26	23	22	22	21	18	19	25	24	24	24	23	23
27	24	22	23	21	19	20	25	25	25	24	24	24
28	25	23	23	22	20	21	26	25	25	25	24	24
29	24	22	23	23	21	22	25	25	25	24	22	23
30	24	20	22	24	21	22	25	25	25	22	22	22
31	22	20	20	---	---	---	25	25	25	23	22	22
MONTH	32	20	26	29	17	23	26	14	22	29	15	25

SANDY RIVER BASIN

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	23	23	23	29	28	28	21	19	20	26	25	25
2	24	23	24	29	28	28	20	19	20	26	25	26
3	24	24	24	29	29	29	22	20	20	26	26	26
4	25	23	24	30	29	29	20	20	20	27	26	26
5	23	23	23	30	29	30	21	20	20	27	26	26
6	24	23	23	30	30	30	21	21	21	27	26	26
7	24	23	23	31	30	30	23	19	21	26	25	26
8	24	23	24	31	31	31	21	19	20	26	25	26
9	24	24	24	31	31	31	23	21	22	25	23	24
10	25	24	24	32	31	31	23	21	21	23	21	22
11	25	24	25	32	31	32	22	20	21	22	21	21
12	25	23	25	33	32	32	25	21	22	23	22	22
13	23	22	23	33	32	32	26	22	23	23	22	23
14	23	23	23	33	32	32	26	22	25	24	23	24
15	24	23	23	33	32	33	26	23	25	24	23	23
16	24	24	24	33	32	33	25	19	21	24	22	23
17	25	24	24	32	30	31	21	19	20	23	22	22
18	25	24	25	32	31	32	22	20	21	22	20	21
19	26	25	25	32	28	31	23	21	22	20	19	20
20	26	25	26	29	28	28	25	21	23	21	20	21
21	27	26	26	29	28	29	25	23	24	21	21	21
22	27	27	27	30	29	29	25	24	25	21	20	21
23	27	27	27	30	29	30	25	22	23	22	21	21
24	28	27	28	30	29	30	27	23	24	23	22	22
25	28	28	28	31	30	30	27	22	24	23	23	23
26	28	28	28	30	20	27	26	23	24	24	23	24
27	29	28	28	20	16	17	27	23	25	25	24	25
28	29	28	28	18	16	17	26	23	24	26	25	26
29	---	---	---	19	17	18	25	24	25	27	26	26
30	---	---	---	20	19	19	25	24	25	28	26	27
31	---	---	---	21	20	20	---	---	---	28	26	27
MONTH	29	22	25	33	16	28	27	19	22	28	19	24
	JUNE			JULY			AUGUST			SEPTEMBER		
1	26	24	25	30	29	29	39	34	35	40	40	40
2	24	23	23	30	29	30	37	35	35	41	39	40
3	24	23	23	31	30	30	36	35	35	41	40	40
4	24	23	24	31	30	31	38	35	36	41	40	41
5	25	24	24	31	30	30	37	36	36	41	40	40
6	25	24	25	31	29	30	39	36	37	42	40	41
7	25	24	24	30	29	29	37	36	36	41	40	41
8	25	24	24	31	30	30	37	35	36	42	40	41
9	25	24	25	30	28	29	38	36	37	41	40	40
10	26	25	25	30	29	29	38	37	38	41	39	39
11	26	25	25	30	29	30	38	37	37	39	38	38
12	26	24	25	30	29	30	40	38	38	39	38	39
13	26	25	25	30	30	30	41	38	39	41	39	39
14	26	25	26	31	30	30	41	39	40	40	39	40
15	27	25	26	32	31	31	41	39	40	41	39	40
16	27	25	26	33	31	32	40	39	40	40	39	40
17	25	23	23	32	30	31	40	39	40	40	39	40
18	24	24	24	32	31	31	40	39	40	40	40	40
19	26	24	24	33	31	31	41	39	40	40	39	40
20	26	24	25	33	31	32	42	39	40	40	39	39
21	26	25	26	34	32	32	41	39	40	41	39	40
22	27	26	26	34	32	33	42	39	40	40	39	40
23	27	26	27	34	32	33	42	38	40	42	39	40
24	30	27	27	35	33	33	41	39	40	42	39	40
25	30	28	28	35	33	33	41	38	40	41	39	39
26	29	28	29	37	34	34	41	38	40	42	40	40
27	31	28	28	36	34	35	40	39	40	42	39	41
28	30	27	28	37	34	35	40	39	40	41	40	40
29	29	28	29	35	34	34	40	39	40	41	40	41
30	29	29	29	39	34	35	39	38	39	41	31	37
31	---	---	---	35	34	35	40	39	40	---	---	---
MONTH	31	23	26	39	28	32	42	34	39	42	31	40
YEAR	42	14	28									

SANDY RIVER BASIN

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

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.8	10.2	10.4	7.8	6.7	7.2	5.7	5.0	5.4	4.4	4.2	4.3
2	10.4	9.8	10.0	8.4	7.6	8.1	5.3	4.8	5.0	4.2	3.4	3.7
3	10.2	9.8	10.0	7.6	6.9	7.4	5.3	5.0	5.2	3.4	2.8	3.0
4	10.2	9.8	10.0	6.9	6.2	6.5	5.5	4.8	5.1	2.8	1.9	2.3
5	10.2	9.6	10	6.7	6.0	6.3	5.5	4.8	5.1	2.2	1.5	1.8
6	11.0	10.2	10.7	6.7	6.0	6.4	5.0	4.5	4.7	3.1	2.2	2.8
7	11.0	10.4	10.7	7.4	6.5	7.0	5.3	4.8	5.1	3.4	3.0	3.2
8	10.8	10.4	10.6	7.3	6.5	6.8	5.8	5.3	5.7	3.3	3.0	3.1
9	10.4	10.0	10.3	7.3	6.7	7.1	6.9	5.8	6.3	3.4	3.1	3.3
10	10.2	9.8	10	7.8	7.3	7.5	7.3	6.9	7.1	3.3	2.5	2.9
11	9.8	9.0	9.3	7.6	7.4	7.5	7.4	6.9	7.2	2.5	1.8	2.1
12	9.6	9.0	9.3	7.4	6.7	7.0	6.9	6.0	6.3	3.0	2.2	2.6
13	9.8	9.4	9.6	7.4	7.1	7.3	6.9	6.0	6.4	3.3	3.0	3.1
14	10.0	9.6	9.8	7.4	7.1	7.3	7.3	6.9	7.2	3.0	1.8	2.5
15	10.4	9.8	10.1	7.6	7.3	7.5	7.1	6.0	6.5	1.8	1.5	1.7
16	10.6	10.2	10.4	7.6	7.4	7.6	6.0	5.5	5.8	3.0	1.8	2.4
17	10.4	9.4	10.2	7.6	7.1	7.2	6.5	6.0	6.3	3.6	3.0	3.2
18	9.4	9.2	9.2	7.3	6.7	7.0	6.5	6.2	6.3	5.2	3.4	4.5
19	9.4	9.0	9.2	6.7	6.0	6.5	6.5	6.4	6.4	5.7	5.2	5.4
20	9.4	9.0	9.2	6.0	5.0	5.4	6.4	5.7	6.0	6.0	5.3	5.7
21	9.4	8.8	9.1	5.0	4.5	4.6	5.7	5.2	5.4	6.0	5.5	5.7
22	9.0	8.6	8.7	5.7	4.7	5.2	5.7	5.2	5.4	6.4	5.5	5.9
23	8.8	8.0	8.5	6.5	5.7	6.1	5.2	4.4	4.7	6.5	6.0	6.3
24	8.4	7.8	8.1	7.8	6.5	7.4	4.4	4.0	4.2	6.2	5.5	5.7
25	7.8	6.9	7.5	7.8	7.1	7.5	5.2	4.2	4.8	6.2	5.3	5.8
26	8.0	7.6	7.9	7.1	6.2	6.7	5.5	5.2	5.3	6.9	6.2	6.5
27	7.6	7.3	7.5	6.2	5.5	5.7	5.2	4.8	5.0	6.9	6.2	6.6
28	7.8	7.4	7.6	5.5	5.0	5.3	5.0	4.5	4.7	6.4	6.0	6.2
29	8.2	7.8	8.0	5.0	4.4	4.6	5.3	5.0	5.1	6.4	5.8	6.0
30	8.2	7.4	7.9	5.0	4.2	4.6	5.2	4.7	4.9	5.8	5.7	5.8
31	7.4	6.9	7.3	---	---	---	4.7	4.2	4.5	6.0	5.5	5.7
MONTH	11.0	6.9	9.3	8.4	4.2	6.6	7.4	4.0	5.6	6.9	1.5	4.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	4.5	4.8	5.9	5.3	5.6	6.3	5.7	6.0	8.8	8.0	8.5
2	4.7	4.2	4.5	6.4	5.7	6.0	6.4	5.4	5.9	9.0	8.4	8.7
3	4.8	4.2	4.5	5.8	5.0	5.4	6.1	5.7	5.9	9.8	8.0	8.9
4	5.3	4.8	5.1	5.9	5.0	5.5	5.7	5.1	5.4	9.8	9.2	9.5
5	5.3	4.5	5.0	5.9	5.3	5.7	6.6	5.1	5.8	9.4	9.0	9.2
6	4.5	4.0	4.3	5.5	5.0	5.3	7.5	6.1	6.8	9.4	9.0	9.2
7	4.4	3.7	4.0	6.5	5.5	6.0	7.3	5.9	6.6	9.2	8.6	8.9
8	4.0	3.6	3.7	6.4	5.9	6.2	6.6	5.2	5.8	9.6	8.8	9.1
9	3.9	3.6	3.7	6.6	6.1	6.3	6.3	5.7	6.1	9.2	8.2	8.6
10	3.7	3.4	3.6	6.8	6.1	6.4	6.8	5.6	6.2	8.2	7.6	7.8
11	4.0	3.4	3.7	7.0	6.4	6.7	6.8	5.7	6.3	8.0	7.6	7.7
12	4.5	3.7	4.2	7.3	6.8	7.0	5.7	5.1	5.4	9.4	7.6	8.3
13	4.5	3.9	4.2	6.8	5.9	6.2	5.6	4.5	5.0	9.2	8.0	8.7
14	3.9	3.6	3.9	5.9	5.2	5.5	5.6	4.2	4.8	10.0	8.8	9.3
15	3.6	2.8	3.1	5.4	4.7	5.1	6.0	4.6	5.3	9.6	9.2	9.5
16	3.1	2.8	3.0	5.8	5.1	5.4	6.3	6.0	6.1	9.2	8.4	8.8
17	3.1	2.8	3.0	5.7	5.1	5.3	6.0	5.1	5.7	8.6	7.8	8.2
18	3.7	3.0	3.3	5.4	4.9	5.2	6.3	5.0	5.5	9.0	8.0	8.4
19	4.2	3.4	3.8	6.1	5.4	5.7	7.2	5.1	6.1	8.4	7.8	8.2
20	4.5	4.0	4.2	6.4	5.9	6.2	7.4	5.6	6.5	8.4	7.6	7.9
21	4.5	3.7	4.0	5.9	5.2	5.6	8.0	6.5	7.2	8.2	7.4	7.8
22	3.9	3.4	3.7	5.6	5.1	5.3	8.4	6.9	7.7	8.6	7.4	8.0
23	4.0	3.4	3.7	5.6	5.2	5.3	8.2	7.4	7.7	9.4	7.2	8.3
24	4.2	3.6	3.9	5.4	4.9	5.2	7.6	6.7	7.2	10.0	7.6	8.7
25	4.0	3.6	3.9	5.7	4.9	5.3	7.6	7.2	7.4	10.9	8.0	9.4
26	4.0	3.6	3.8	6.1	5.4	5.6	9.0	6.7	7.8	12.0	9.4	10.6
27	4.8	3.9	4.3	6.4	6.1	6.3	9.6	7.4	8.5	12.9	10.4	11.7
28	5.7	4.8	5.3	6.1	5.2	5.5	9.4	8.6	8.9	12.7	11.5	12.1
29	---	---	---	5.7	5.2	5.3	8.8	8.0	8.3	12.0	10.3	11.0
30	---	---	---	5.7	4.9	5.3	9.2	7.8	8.4	10.8	9.9	10.2
31	---	---	---	6.6	4.9	5.8	---	---	---	10.3	9.5	9.9
MONTH	5.7	2.8	4.0	7.3	4.7	5.7	9.6	4.2	6.5	12.9	7.2	9.1

SANDY RIVER BASIN

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

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	9.1	9.4	13.0	11.9	12.5	15.2	14.4	14.9	13.2	12.0	12.7
2	9.3	8.7	8.9	12.6	11.2	11.8	14.7	13.4	14.2	13.1	12.4	12.8
3	9.3	8.5	8.8	12.1	10.3	11.3	14.9	13.1	14.0	13.1	12.4	12.8
4	9.3	7.9	8.6	13.0	11.0	12.1	15.2	13.4	14.3	12.7	12.2	12.6
5	9.1	8.1	8.5	13.5	11.9	12.7	15.5	13.9	14.8	12.4	11.5	12.0
6	8.5	7.7	8.2	13.0	12.1	12.7	15.7	14.1	15.0	12.2	11.3	11.8
7	8.5	7.7	8.1	12.6	11.6	12.1	15.2	13.9	14.7	12.4	11.5	12.0
8	10.1	8.1	9.0	12.3	11.6	11.9	15.5	14.1	14.8	12.4	11.5	12.1
9	10.5	8.3	9.4	11.6	11.2	11.5	15.2	13.9	14.6	12.2	11.7	12.0
10	10.1	9.1	9.4	11.6	11.2	11.4	14.7	13.6	14.1	11.7	10.8	11.4
11	9.3	8.9	9.1	11.9	11.4	11.6	14.4	13.4	13.9	10.8	10.2	10.6
12	9.5	8.3	8.9	12.1	11.4	11.8	14.4	12.9	13.7	10.8	10.2	10.5
13	9.9	8.9	9.3	11.9	11.6	11.7	14.9	13.4	14.1	10.8	10.0	10.4
14	9.5	8.9	9.1	13.0	11.0	12.0	14.9	13.4	14.3	10.6	10.0	10.4
15	10.3	8.3	9.3	14.0	12.3	13.1	14.9	13.6	14.3	11.1	10.6	10.8
16	10.1	9.7	9.9	13.8	13.0	13.4	14.7	13.9	14.3	10.6	10.2	10.5
17	9.7	8.9	9.3	14.3	12.3	13.3	14.1	13.6	13.9	10.6	10.2	10.5
18	9.5	8.7	9.1	14.8	13.0	14.0	14.1	12.9	13.6	10.2	9.4	9.9
19	10.5	8.3	9.4	14.6	13.3	14.0	14.7	13.1	13.9	10.0	9.2	9.7
20	12.1	9.3	10.6	14.3	12.8	13.7	14.7	13.4	14.1	10.0	9.6	9.8
21	11.4	10.5	10.9	14.3	12.8	13.6	14.9	13.6	14.3	9.8	9.0	9.5
22	10.8	10.1	10.3	14.3	13.8	14.0	14.4	13.9	14.2	9.6	8.8	9.2
23	11.6	9.7	10.6	14.6	13.0	13.8	14.1	13.1	13.5	9.4	8.8	9.0
24	11.6	10.3	11.1	14.3	13.0	13.7	13.4	12.2	12.8	8.8	8.0	8.4
25	11.6	11.0	11.2	14.3	12.8	13.6	13.4	12.0	12.8	8.6	7.8	8.2
26	11.0	10.3	10.6	15.1	13.0	14.1	13.6	12.4	13.1	8.6	7.8	8.3
27	10.5	10.1	10.3	15.4	13.5	14.5	13.6	12.7	13.2	8.8	8.2	8.5
28	10.5	10.1	10.2	15.7	14.4	15.1	13.6	12.4	13.1	8.8	8.0	8.4
29	11.9	9.9	10.8	15.7	14.4	15.1	13.4	12.7	13.0	9.4	8.4	8.8
30	13.0	11.0	12.0	15.7	14.1	15.1	13.1	12.4	12.8	10.6	9.4	9.9
31	---	---	---	15.7	14.1	15.0	12.9	12.0	12.6	---	---	---
MONTH	13.0	7.7	9.7	15.7	10.3	13.1	15.7	12.0	13.9	13.2	7.8	10.4
YEAR	15.7	1.5	8.2									

SANDY RIVER BASIN

14139900 BULL RUN RESERVOIR NUMBER TWO NEAR BULL RUN, OR

LOCATION.--Lat 45°26'52", long 122°08'52", on line between secs.25 and 26, T.1 S., R.5 E., Clackamas County, Hydrologic Unit 17080001, in Mount Hood National Forest, on headworks dam on Bull Run River, 4.1 mi northeast of Bull Run, and at mile 6.5.

DRAINAGE AREA.--102 mi².

PERIOD OF RECORD.--December 1961 to current year. Prior to October 1975, monthend contents only.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Portland Water Bureau). Prior to Dec. 31, 1975, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by earth and rockfill dam with concrete spillway built by Portland Water Bureau. Storage began about Dec. 20, 1961; first filling occurred Dec. 24, 1961. Capacity, 20,990 acre-ft at crest of spillway, elevation, 860.0 ft. Dead storage negligible. Water is used as municipal supply for city of Portland and for power generation by Portland General Electric Co.

COOPERATION.--Capacity table furnished by Portland Water Bureau.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 23,660 acre-ft Dec. 22, 1964, elevation, 866.00 ft; no contents at times during low-flow periods.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 21,640 acre-ft Dec. 11, elevation, 861.45 ft; minimum contents, 14,000 acre-ft Sept. 30, elevation, 842.07 ft.

Capacity Table (elevation, in feet and contents, in acre-feet)

752	0	830	10,000
770	234	850	16,800
790	1,860	870	25,500
810	5,070		

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	858.91	860.50	859.47	859.05	859.52	859.46	859.74	859.67	859.93	859.31	859.66	856.88
2	858.86	861.06	859.46	859.01	859.57	859.27	860.00	859.51	859.83	859.18	859.70	857.15
3	859.34	860.64	859.70	859.36	859.87	859.05	858.97	859.36	860.66	859.14	859.49	856.95
4	859.45	859.44	859.18	859.56	859.82	859.01	859.62	859.36	859.67	859.22	859.63	856.85
5	858.95	859.45	859.22	859.56	859.39	858.95	859.80	859.39	858.89	859.21	859.69	855.91
6	859.05	859.03	859.10	859.54	859.67	858.90	859.49	859.32	859.05	859.46	859.69	854.92
7	859.15	859.03	859.79	859.50	859.39	859.07	859.92	859.13	859.28	859.52	859.70	854.54
8	859.61	858.68	860.59	859.35	859.47	858.87	859.82	859.34	860.34	859.69	859.67	853.65
9	859.47	858.93	859.51	859.51	859.37	858.99	859.41	859.86	859.52	859.84	859.76	852.71
10	859.36	859.12	860.85	859.55	859.64	858.98	859.64	859.34	859.50	859.87	859.68	852.50
11	859.38	858.96	861.06	859.74	859.58	858.76	859.87	859.51	859.61	859.78	859.74	851.66
12	859.27	858.94	860.71	859.76	859.66	858.55	859.40	858.69	859.81	859.76	859.62	851.19
13	859.05	858.76	859.59	859.55	859.43	858.84	859.64	859.61	859.89	859.74	859.86	850.87
14	858.81	858.78	859.08	859.38	859.61	858.83	859.36	859.36	859.34	859.75	859.74	849.86
15	859.14	858.91	859.44	859.21	859.51	858.80	859.16	858.82	859.29	859.80	859.73	849.73
16	859.28	859.37	859.36	859.54	859.43	858.78	859.59	859.41	859.89	859.84	859.53	849.86
17	859.42	859.46	859.19	859.90	859.48	859.42	859.79	859.89	859.58	859.72	859.63	850.10
18	859.72	859.56	859.44	861.20	859.66	859.11	859.74	859.74	859.90	859.65	859.70	850.91
19	859.69	859.62	859.64	860.06	859.72	858.73	859.71	859.47	859.71	859.78	859.69	849.99
20	859.71	859.73	859.28	859.58	859.68	858.77	859.40	859.69	859.76	859.62	859.76	849.01
21	859.62	859.61	859.10	859.42	859.66	858.88	859.67	859.68	859.62	859.74	859.71	848.00
22	859.75	859.65	859.10	858.56	859.54	858.81	859.72	859.80	859.91	859.78	859.11	846.96
23	859.68	859.63	859.11	859.18	859.57	858.44	859.60	858.78	859.70	859.82	858.87	845.93
24	860.50	859.55	859.25	859.82	859.27	858.76	859.45	858.86	859.64	859.78	858.50	844.88
25	859.72	859.38	859.85	859.66	859.38	858.88	859.68	859.65	859.87	859.71	858.16	843.82
26	859.49	859.70	859.11	859.73	859.48	858.69	859.43	859.73	859.63	859.66	857.87	843.56
27	859.58	858.88	858.91	859.67	859.39	860.85	859.24	859.67	859.79	859.71	857.61	843.33
28	859.71	859.48	858.79	859.64	859.55	860.95	859.43	859.52	859.80	859.60	857.42	843.47
29	859.81	859.21	858.72	859.68	---	860.28	859.61	859.49	859.77	859.70	857.32	842.52
30	860.47	859.55	859.21	859.55	---	859.92	859.66	859.61	859.42	859.79	857.36	842.09
31	860.18	---	859.22	859.58	---	859.80	---	859.83	---	859.69	857.41	---
MAX	860.50	861.06	861.06	861.20	859.87	860.95	860.00	859.89	860.66	859.87	859.86	857.15
MIN	858.81	858.68	858.72	858.56	859.27	858.44	858.97	858.69	858.89	859.14	857.32	842.09
(†)	21,080	20,800	20,660	20,820	20,800	20,910	20,850	20,930	20,740	20,860	19,860	14,010
(‡)	+690	-280	-140	+160	-20	+110	-60	+80	-190	+120	-1,000	-5,850
CAL YR2004	MAX 862.84	MIN 839.63	AC-FT‡	-130								
WTR YR2005	MAX 861.20	MIN 842.09	AC-FT‡	-6,380								

† Contents, in acre-feet, at 2400, on last day of month.

‡ Change in contents, in acre-feet.

SANDY RIVER BASIN

14140000 BULL RUN RIVER NEAR BULL RUN, OR

LOCATION.--Lat 45°26'15", long 122°10'42", in NE ¼ SW ¼ sec.34, T.1 S., R.5 E., Clackamas County, Hydrologic Unit 17080001, in Mount Hood National Forest, on left bank 1.8 mi downstream from Bull Run Reservoir Number Two, 2.7 mi northeast of Bull Run and at mile 4.7.

DRAINAGE AREA.--107 mi².

PERIOD OF DAILY RECORD.--December 2000 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Records fair except those for the period July 1 to Sept. 30, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 21.8°C July 10, 2002; minimum, 1.5°C Jan. 6, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum, 19.7°C July 14, 15, 17; minimum, 3.7°C Jan. 15.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.7	13.0	13.7	11.0	10.6	10.8	8.1	7.9	8.0	6.2	5.9	6.0
2	14.8	13.3	13.8	11.2	10.9	11.1	7.9	7.5	7.7	5.9	5.5	5.7
3	14.8	13.4	13.9	11.0	10.4	10.7	7.6	7.3	7.5	5.5	4.9	5.4
4	14.7	13.4	13.8	10.4	9.5	10.1	7.6	7.3	7.4	5.0	4.6	4.8
5	14.6	13.4	13.8	9.6	9.3	9.4	7.4	7.2	7.3	5.0	4.5	4.7
6	14.6	13.8	14.1	9.5	9.1	9.3	7.5	7.2	7.3	5.3	4.9	5.1
7	14.7	13.4	13.9	9.5	9.1	9.3	7.4	7.3	7.4	5.3	4.8	5.1
8	14.1	13.5	13.8	9.3	8.9	9.1	7.4	7.2	7.3	5.3	4.8	5.0
9	14.1	13.3	13.6	9.3	9.0	9.2	7.4	7.2	7.3	5.3	4.9	5.0
10	14.4	13.3	13.7	9.4	9.1	9.2	7.4	7.1	7.3	4.9	4.4	4.7
11	14.3	13.0	13.5	9.3	9.0	9.1	7.5	7.1	7.3	4.7	4.3	4.5
12	14.4	13.2	13.6	9.2	8.9	9.0	7.4	7.0	7.2	5.0	4.6	4.9
13	14.4	13.3	13.7	9.2	8.9	9.0	7.1	7.0	7.0	5.2	4.6	5.0
14	14.3	13.3	13.7	9.4	9.0	9.2	7.2	7.0	7.1	4.6	3.9	4.3
15	14.0	13.5	13.8	9.2	9.0	9.1	7.1	6.9	7.0	3.9	3.7	3.8
16	14.1	13.6	13.8	9.2	9.0	9.0	7.1	6.9	7.0	4.5	3.9	4.2
17	13.7	13.2	13.5	9.1	8.9	8.9	7.1	6.8	6.9	4.8	4.4	4.5
18	13.4	13.1	13.2	9.1	8.7	8.8	7.0	6.7	6.9	4.9	4.3	4.5
19	13.5	12.9	13.2	8.9	8.6	8.7	6.9	6.6	6.8	4.6	4.4	4.5
20	13.2	12.7	13.0	8.6	8.2	8.5	6.8	6.6	6.7	4.6	4.4	4.5
21	13.1	12.7	12.9	8.6	8.2	8.4	6.7	6.6	6.6	4.8	4.6	4.7
22	12.8	12.6	12.8	9.0	8.5	8.7	7.0	6.5	6.8	5.0	4.7	4.9
23	12.8	12.3	12.5	8.9	8.7	8.8	6.6	6.3	6.4	5.4	4.9	5.1
24	12.7	12.3	12.4	9.0	8.8	8.9	6.5	6.2	6.3	5.3	4.9	5.0
25	12.8	11.9	12.5	9.0	8.5	8.8	6.7	6.2	6.5	5.4	4.9	5.1
26	11.9	11.3	11.6	8.6	8.3	8.5	6.6	6.3	6.5	5.3	5.1	5.2
27	11.7	11.3	11.4	8.5	8.2	8.3	6.5	6.3	6.4	5.3	5.0	5.1
28	11.5	11.3	11.3	8.2	7.9	8.1	6.5	6.2	6.3	5.5	5.0	5.2
29	11.5	11.2	11.3	8.1	7.7	7.9	6.5	6.2	6.3	5.3	5.1	5.2
30	11.4	11.0	11.2	8.1	7.7	7.9	6.4	6.1	6.2	5.3	5.0	5.1
31	11.6	11.0	11.4	---	---	---	6.2	6.0	6.1	5.6	5.0	5.2
MONTH	14.8	11.0	13.0	11.2	7.7	9.1	8.1	6.0	6.9	6.2	3.7	4.9

SANDY RIVER BASIN

14140000 BULL RUN RIVER NEAR BULL RUN, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	5.3	5.0	5.1	6.6	5.4	5.9	6.7	6.6	6.6	9.2	7.6	8.1
2	5.4	5.0	5.2	6.3	5.4	5.8	6.8	6.6	6.7	8.9	8.0	8.3
3	5.7	5.0	5.3	6.6	5.1	5.6	6.7	6.5	6.6	10.7	7.8	8.8
4	5.4	5.1	5.2	6.4	5.3	5.8	6.7	6.4	6.5	10.0	8.2	8.8
5	5.3	5.0	5.1	6.5	5.3	5.7	7.1	6.5	6.7	8.8	8.2	8.5
6	5.3	5.0	5.2	6.8	5.2	5.7	7.1	6.6	6.8	8.9	8.4	8.5
7	5.4	4.9	5.1	6.9	5.6	6.0	6.7	6.6	6.6	9.3	8.3	8.7
8	5.3	4.9	5.0	6.9	5.5	6.0	7.0	6.6	6.7	9.9	8.4	8.9
9	5.4	4.9	5.1	7.0	5.5	6.0	6.9	6.6	6.7	9.0	8.4	8.6
10	5.5	4.8	5.1	7.1	5.6	6.1	7.1	6.6	6.8	8.7	8.4	8.5
11	5.6	4.9	5.2	7.1	5.6	6.1	7.2	6.7	6.8	8.8	8.5	8.7
12	5.4	5.0	5.2	7.3	5.6	6.2	7.0	6.7	6.8	9.4	8.7	9.0
13	5.1	4.8	5.0	7.2	5.5	6.0	7.2	6.2	6.8	9.8	8.8	9.2
14	5.2	4.6	4.9	7.1	5.4	6.0	7.3	6.7	6.9	9.7	9.0	9.2
15	5.1	4.5	4.7	6.9	5.4	6.0	7.2	6.8	7.0	9.4	9.1	9.2
16	5.1	4.5	4.7	6.2	5.8	6.0	7.1	6.9	7.0	9.7	9.1	9.3
17	5.2	4.4	4.7	7.1	5.8	6.3	7.1	6.9	7.0	9.7	9.0	9.3
18	5.4	4.6	4.9	6.7	5.8	6.2	7.3	6.9	7.0	9.7	9.2	9.4
19	5.4	4.6	4.9	6.8	6.1	6.4	7.5	6.8	7.1	9.8	9.4	9.5
20	5.5	4.9	5.1	6.6	6.1	6.4	7.5	6.9	7.1	9.8	9.5	9.6
21	5.7	4.8	5.1	7.1	6.0	6.4	7.8	6.9	7.3	9.8	9.5	9.6
22	5.7	4.7	5.1	7.2	6.0	6.6	8.0	7.0	7.4	10.1	9.5	9.7
23	6.0	4.8	5.2	7.3	6.6	6.9	7.3	7.2	7.2	10.4	9.5	9.8
24	6.1	5.0	5.4	7.3	6.5	6.9	7.5	7.1	7.3	11.7	9.4	10.2
25	6.0	4.8	5.3	7.4	6.5	6.9	7.6	7.2	7.4	12.8	9.3	10.6
26	6.0	4.8	5.2	7.1	6.7	6.9	8.1	7.2	7.5	13.4	9.8	11.1
27	6.3	5.0	5.5	7.4	6.8	7.1	8.5	7.3	7.7	13.5	10.1	11.3
28	6.2	5.6	5.8	7.1	7.0	7.1	8.2	7.5	7.8	12.3	10.2	11.0
29	---	---	---	7.0	6.7	6.9	7.8	7.6	7.7	10.6	10.2	10.4
30	---	---	---	6.9	6.6	6.7	9.3	7.7	8.2	11.7	10.1	10.6
31	---	---	---	7.2	6.7	6.9	---	---	---	10.6	10.1	10.3
MONTH	6.3	4.4	5.1	7.4	5.1	6.3	9.3	6.2	7.1	13.5	7.6	9.4
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.7	10.1	10.3	15.7	12.6	13.6	16.6	14.8	15.6	18.8	15.0	16.3
2	10.7	10.3	10.5	14.1	12.6	13.2	19.0	14.2	15.8	18.4	15.3	16.3
3	13.9	10.6	11.5	16.6	12.2	13.7	19.1	14.3	16.0	17.7	15.4	16.2
4	14.4	11.2	13.3	17.1	12.5	14.1	19.3	14.6	16.3	18.1	15.2	16.1
5	11.8	10.9	11.2	17.0	12.7	14.3	19.5	14.9	16.5	18.3	14.7	16.0
6	12.6	10.8	11.4	15.4	13.8	14.3	19.3	14.9	16.3	18.4	14.8	16.1
7	12.3	10.9	11.5	16.6	13.3	14.5	18.8	14.4	15.9	18.7	15.3	16.5
8	13.7	11.3	12.0	14.5	13.4	13.9	18.9	14.6	16.0	18.2	15.4	16.5
9	13.6	11.9	12.8	15.8	13.2	14.2	18.7	14.4	15.9	16.6	15.6	16.0
10	12.4	11.6	12.0	15.6	13.4	14.3	18.1	14.5	15.5	16.7	15.2	15.7
11	12.4	11.7	12.0	15.8	13.7	14.6	18.5	14.4	15.7	17.8	14.6	15.7
12	13.2	11.6	12.2	17.0	13.8	14.9	18.4	14.4	15.8	18.2	14.9	16.0
13	13.2	11.9	12.3	16.1	13.9	14.7	19.0	14.6	16.1	18.3	14.9	16.1
14	12.6	11.9	12.1	19.7	13.1	15.5	18.9	14.5	16.0	18.2	15.1	16.2
15	13.7	11.6	12.4	19.7	14.1	16.1	18.6	14.5	15.9	17.7	15.7	16.5
16	12.7	11.9	12.2	18.2	14.4	15.6	18.4	14.7	15.9	16.4	15.1	15.7
17	12.7	12.0	12.2	19.7	13.7	15.8	16.7	14.8	15.4	17.9	15.6	16.3
18	13.0	11.9	12.3	19.3	14.0	15.9	19.0	14.5	16.0	17.8	14.6	15.8
19	13.7	11.9	12.5	18.8	13.8	15.5	18.8	14.8	16.1	17.8	14.7	15.8
20	13.8	12.1	12.7	18.8	13.7	15.5	18.7	14.7	16.0	17.8	15.5	16.1
21	13.2	12.2	12.6	18.3	13.8	15.6	18.4	14.8	16.0	17.4	14.5	15.6
22	13.4	12.2	12.5	17.2	14.6	15.5	17.6	15.1	15.8	16.6	14.3	15.4
23	14.8	12.1	13.0	18.9	14.1	15.7	16.3	14.6	15.2	17.0	14.6	15.5
24	14.4	12.1	12.9	18.7	13.9	15.6	18.0	14.4	15.6	16.7	14.0	15.0
25	13.9	12.4	12.9	19.0	13.8	15.7	18.5	14.4	15.9	17.0	14.1	15.2
26	13.0	12.3	12.6	19.4	14.2	16.1	18.4	14.9	16.1	17.1	14.5	15.6
27	13.2	12.3	12.7	19.4	14.3	16.1	19.0	14.7	16.1	17.2	14.9	15.7
28	13.0	12.4	12.7	19.1	14.5	16.1	19.0	14.8	16.3	17.2	14.6	15.5
29	14.6	12.5	13.1	19.3	14.5	16.1	16.3	15.3	15.7	16.2	15.1	15.7
30	15.8	12.4	13.6	19.5	14.6	16.2	18.5	15.0	16.1	16.3	15.2	15.9
31	---	---	---	19.3	14.6	16.2	18.8	14.7	16.1	---	---	---
MONTH	15.8	10.1	12.3	19.7	12.2	15.1	19.5	14.2	15.9	18.8	14.0	15.9
YEAR	19.7	3.7	10.1									

SANDY RIVER BASIN

14140001 BULL RUN RIVER NEAR BULL RUN, OR

LOCATION.--Lat 45°26'15", long 122°10'42", in NE ¼ SW ¼ sec.34, T.1 S., R.5 E., Clackamas County, Hydrologic Unit 17080001, in Mount Hood National Forest, on left bank 1.8 mi downstream from Bull Run Reservoir Number Two, 2.7 mi northeast of Bull Run, and at mile 4.7.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--September 1907 to current year. Records for January 1895 to August 1907, published in WSP 370, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1288: 1910-11, 1913, 1920-23, 1926, 1929. WSP 1318: 1919(M). WSP 1568: 1952. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 567.90 ft above NGVD of 1929 (levels by Portland Water Bureau). Prior to July 27, 1909, nonrecording gage at site 1.5 mi upstream at different datum. July 27, 1909 to Sept. 30, 1959, water-stage recorder at site 2.5 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1915 by Bull Run Lake, capacity, 12,270 acre-ft, since 1929 by Bull Run Reservoir Number One (station 14139000), since 1958 by North Fork Reservoir, capacity, 1,030 acre-ft, and since 1961 by Bull Run Reservoir Number Two (station 14139900). All records given herein include flow diverted from Bull Run Reservoir Number Two for city of Portland, and that used by Portland General Electric Co. for power generation, which returns to Bull Run River downstream from station. Total diversion, 148,900 acre-ft of which 40,490 acre-ft were used for power generation and returned to Bull Run River.

COOPERATION.--Records of daily diversion furnished by Portland Water Bureau.

AVERAGE DISCHARGE.--98 years (water years 1908-2005), 772 ft³/s, 97.98 in/yr, 559,300 acre-ft/yr, adjusted for storage in Bull Run Reservoir Number One since 1929 and Bull Run Reservoir Number Two since 1961.

EXTREMES FOR PERIOD OF RECORD.--River only, maximum discharge, 24,800 ft³/s Dec. 22, 1964, gage height, 17.21 ft, from rating curve extended above 8,800 ft³/s on basis of computation of peak flow over dam; minimum discharge, 1.1 ft³/s Oct. 4, 1974.

Combined flow, maximum discharge, 25,100 ft³/s Dec. 22, 1964; minimum daily, 11 ft³/s Nov. 16, 1987.

EXTREMES FOR CURRENT YEAR.--River only, maximum discharge, 4,040 ft³/s Dec. 11, gage height, 9.19 ft; minimum discharge, 28 ft³/s July 8, 10-15, Aug. 30, 31, Sept. 3-5, 12-30.

Combined flow, maximum discharge, 4,300 ft³/s (of which approximately 118 ft³/s were diverted for Portland water supply) Dec. 11; minimum daily, 168 ft³/s (of which approximately 139 ft³/s were diverted for Portland water supply) July 10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	412	890	1,250	435	502	253	1,580	457	540	280	267	222
2	447	1,860	833	426	408	265	1,630	425	863	245	286	218
3	437	1,860	600	411	346	275	1,560	408	807	236	328	222
4	451	1,360	600	375	408	250	980	406	962	237	322	218
5	454	932	631	425	593	243	980	393	330	234	304	216
6	416	760	551	392	511	246	1,030	403	291	229	297	219
7	394	656	565	380	515	257	961	403	290	219	295	231
8	372	610	1,630	385	443	268	1,120	401	427	195	296	239
9	378	615	2,000	407	383	261	878	442	632	170	294	211
10	385	672	2,580	413	336	261	653	1,100	333	168	292	203
11	404	682	3,690	398	338	254	844	1,260	300	188	283	184
12	408	682	2,290	390	352	261	1,050	905	330	212	274	197
13	460	679	1,860	386	637	270	746	609	442	211	273	205
14	462	678	1,260	406	430	275	797	705	529	205	286	205
15	461	672	1,100	414	376	274	772	748	365	211	309	205
16	459	673	882	389	364	269	1,200	623	399	225	316	203
17	465	635	721	391	334	256	1,460	792	642	240	267	186
18	476	447	548	2,380	288	253	1,400	1,310	430	259	252	181
19	422	424	535	2,580	286	254	1,050	1,610	483	281	273	189
20	413	413	580	1,330	286	260	942	1,570	485	289	296	199
21	476	419	540	1,180	285	260	675	1,220	444	277	277	199
22	470	435	488	982	274	248	648	1,010	328	259	266	198
23	516	432	438	547	258	246	670	964	295	238	262	199
24	708	434	403	311	255	251	764	493	289	244	290	199
25	1,150	439	401	398	254	246	738	298	288	252	281	198
26	628	422	491	444	253	253	876	306	264	268	270	199
27	615	418	492	419	252	1,070	644	319	259	302	265	191
28	618	417	447	434	253	3,090	535	318	269	322	244	183
29	618	408	439	529	---	2,660	441	300	345	300	240	182
30	734	480	427	695	---	1,690	484	273	307	284	205	175
31	1,310	---	440	568	---	1,410	---	278	---	275	193	---
TOTAL	16,419	20,504	29,712	19,620	10,220	16,629	28,108	20,749	12,968	7,555	8,603	6,076
MEAN	530	683	958	633	365	536	937	669	432	244	278	203
MAX	1,310	1,860	3,690	2,580	637	3,090	1,630	1,610	962	322	328	239
MIN	372	408	401	311	252	243	441	273	259	168	193	175
AC-FT	32,570	40,670	58,930	38,920	20,270	32,980	55,750	41,160	25,720	14,990	17,060	12,050
MEAN†	546	682	943	645	359	595	914	702	431	171	77.6	79.2
CFSM†	5.10	6.37	8.82	6.03	3.36	5.56	8.54	6.56	4.03	1.60	0.72	0.74
IN.†	5.88	7.11	10.17	6.95	3.50	6.42	9.53	7.56	4.49	1.84	0.84	0.83
AC-FT†	33,560	40,580	58,000	39,670	19,950	36,600	54,390	43,160	25,640	10,500	4,770	4,710

CAL YR2004 TOTAL 255,764 MEAN 699 MAX 10,900 MIN 153 AC-FT 507,300 MEAN† 700 CFSM† 6.54 IN.† 88.79 AC-FT† 506,600
WTR YR2005 TOTAL 197,163 MEAN 540 MAX 3,690 MIN 168 AC-FT 391,100 MEAN† 513 CFSM† 4.80 IN.† 65.10 AC-FT† 371,400

SANDY RIVER BASIN

14140001 BULL RUN RIVER NEAR BULL RUN, OR—Continued

† Adjusted for change in contents in Bull Run Reservoir Number One and Bull Run Reservoir Number Two.



2005 Water Year
SANDY RIVER BASIN

14140001 BULL RUN RIVER NEAR BULL RUN, OR

Latitude: 45° 26' 15"

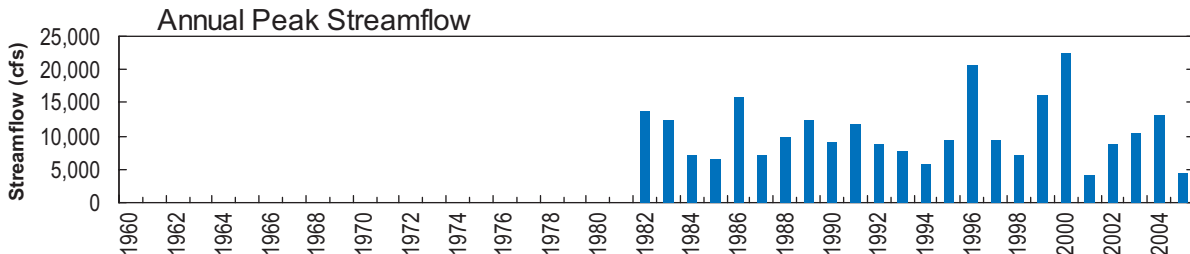
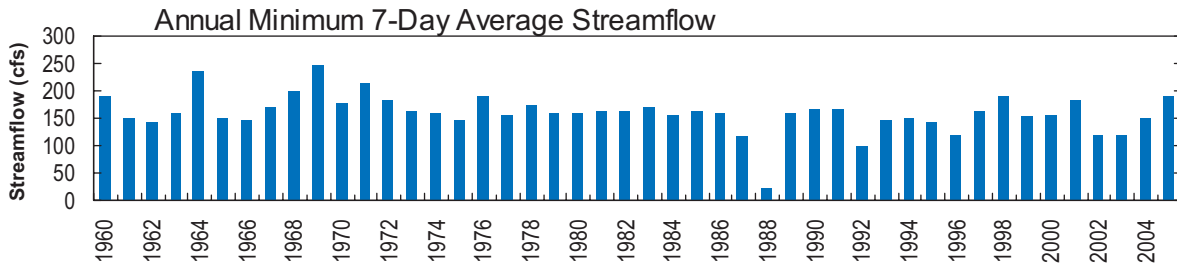
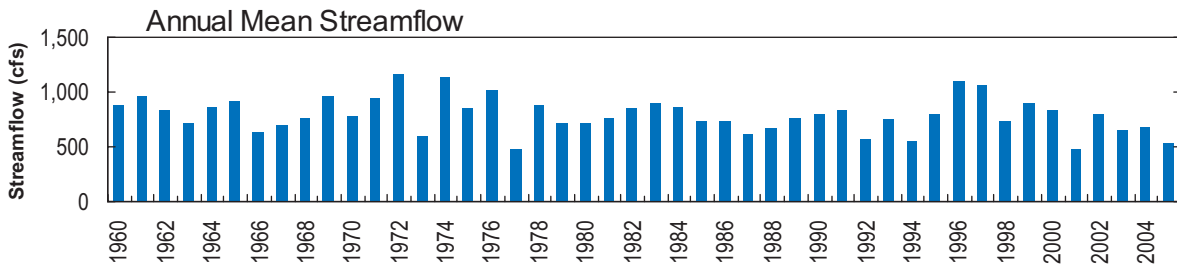
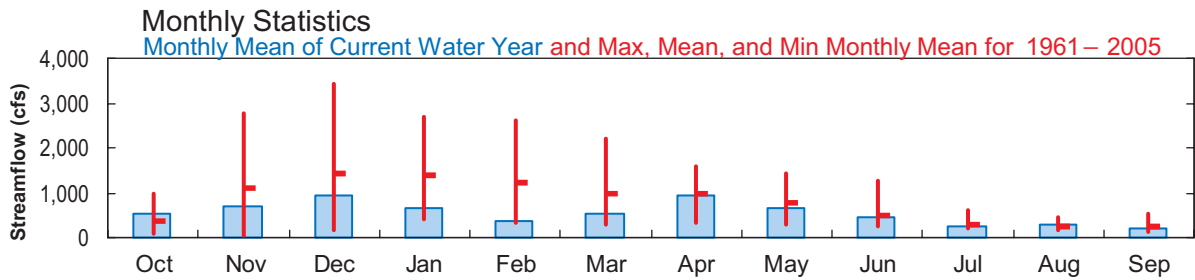
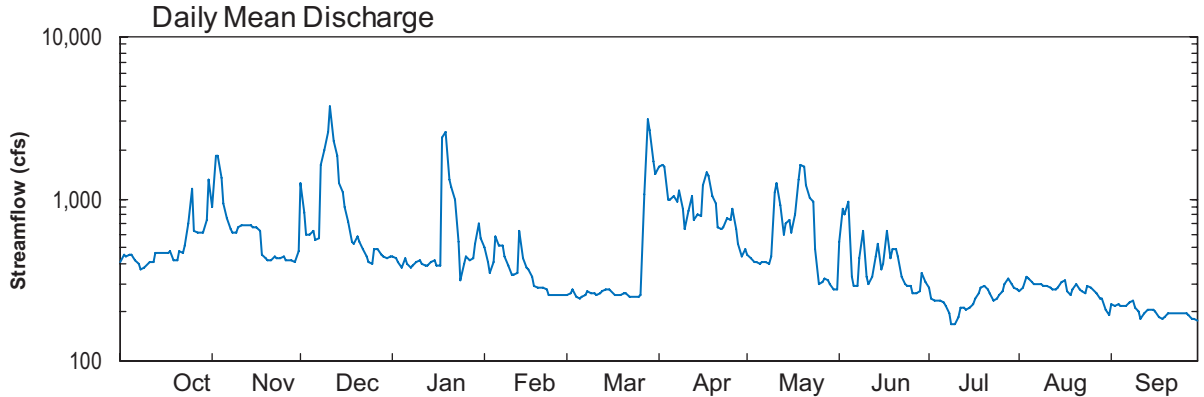
Longitude: 122° 10' 42"

Hydrologic Unit Code: 17080001

Multnomah County

Datum: 567.90 feet

Drainage Area: 107 mi²



SANDY RIVER BASIN

14141500 LITTLE SANDY RIVER NEAR BULL RUN, OR

LOCATION.--Lat 45°24'56", long 122°10'13", in NE ¼ NE ¼ sec.10, T.2 S., R.5 E., Clackamas County, Hydrologic Unit 17080001, in Mount Hood National Forest, on left bank 0.25 mi upstream from Portland General Electric Co. dam and tunnel from Sandy River, 3.0 mi east of Bull Run and at mile 1.95.

DRAINAGE AREA.--22.3 mi².

PERIOD OF RECORD.--May to July 1911, October 1911 to March 1912, June 1912 to April 1913, July 1919 to current year. Monthly discharge only for some periods in water years 1911-13, published in WSP 1318.

REVISED RECORDS.--WSP 1154: 1949. WSP 1248: Drainage area. WSP 1288: 1912, 1920-21(M), 1922-23, 1931, 1945. WSP 1318: 1920. WDR OR-82-2: 1972(P), 1974-76(P), 1978-81(P).

GAGE.--Water-stage recorder. Elevation of gage is 720 ft above NGVD of 1929, from topographic map. May 23, 1911 to Apr. 29, 1913, nonrecording gage at site 0.85 mi downstream at different datum. July 1, 1919 to Sept. 30, 1931, water-stage recorder at site 0.1 mi downstream at different datum. Oct 1, 1931 to Nov. 3, 1967, at site 0.1 mi downstream at datum 712 ft above NGVD of 1929. Nov. 4, 1967 to Aug. 8, 1971, water-stage recorder at site 0.1 mi downstream at datum 697.44 ft above NGVD of 1929 (Portland General Electric Co. bench mark).

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

AVERAGE DISCHARGE.--86 years (water years 1920-2005), 143 ft³/s, 87.06 in/yr, 103,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,320 ft³/s Nov. 20, 1921, gage height, 9.18 ft, site and datum then in use, from rating curve extended above 2,200 ft³/s; minimum discharge, 8.0 ft³/s Aug. 20, Sept. 16, 17, 1940.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 18	0430	*945	*4.58				

Minimum discharge, 12 ft³/s, Sept. 7-9, 20-30, gage height, 1.66 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	197	206	74	81	53	236	85	197	51	19	14
2	32	365	150	70	74	49	204	90	242	48	19	14
3	31	317	125	65	68	46	190	78	169	46	19	13
4	29	203	111	60	83	43	206	82	134	42	18	13
5	28	149	104	56	105	41	178	83	121	40	18	13
6	48	118	94	55	92	39	168	77	112	48	17	13
7	43	97	105	55	90	38	210	79	110	46	18	13
8	47	83	272	54	84	37	227	83	102	40	17	12
9	102	73	306	51	80	35	158	133	88	52	17	16
10	74	66	451	48	77	34	132	230	79	46	16	31
11	55	59	495	44	73	33	193	231	79	44	16	23
12	46	53	349	46	84	32	163	174	98	40	16	17
13	42	50	227	50	110	31	135	138	92	38	16	15
14	38	47	207	45	91	30	135	123	84	36	15	14
15	36	49	172	43	82	29	131	124	75	34	15	14
16	36	57	142	54	76	31	225	157	78	32	15	14
17	49	47	122	167	71	36	254	186	138	31	16	14
18	134	64	106	660	67	32	246	263	114	30	17	14
19	134	78	99	290	63	50	214	319	99	29	16	13
20	93	63	91	184	60	52	175	255	94	27	16	13
21	137	55	92	144	56	42	149	214	81	26	15	12
22	151	53	103	114	53	39	132	194	75	27	14	12
23	183	62	98	96	50	36	145	154	68	28	14	12
24	172	371	89	83	48	34	135	129	61	26	14	12
25	133	375	88	75	48	34	154	109	56	24	14	12
26	114	226	94	69	47	140	132	95	53	22	13	12
27	104	158	82	72	48	618	112	85	64	22	13	12
28	86	123	75	64	54	547	100	77	77	21	13	12
29	119	102	80	106	---	429	93	71	63	21	16	12
30	186	106	84	112	---	290	96	69	55	20	19	44
31	218	---	75	91	---	206	---	76	---	20	15	---
TOTAL	2,734	3,866	4,894	3,197	2,015	3,186	5,028	4,263	2,958	1,057	496	455
MEAN	88.2	129	158	103	72.0	103	168	138	98.6	34.1	16.0	15.2
MAX	218	375	495	660	110	618	254	319	242	52	19	44
MIN	28	47	75	43	47	29	93	69	53	20	13	12
AC-FT	5,420	7,670	9,710	6,340	4,000	6,320	9,970	8,460	5,870	2,100	984	902
CFSM	3.95	5.78	7.08	4.62	3.23	4.61	7.52	6.17	4.42	1.53	0.72	0.68
IN.	4.56	6.45	8.16	5.33	3.36	5.31	8.39	7.11	4.93	1.76	0.83	0.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2005, BY WATER YEAR (WY)

MEAN	85.3	206	244	236	208	186	193	161	101	39.1	23.2	37.5
MAX	271	588	585	589	452	407	325	328	268	121	96.1	184
(WY)	(1960)	(1956)	(1965)	(1953)	(1961)	(1932)	(1920)	(1945)	(1933)	(1983)	(1968)	(1927)
MIN	10.6	14.3	57.5	45.9	59.2	49.9	54.0	55.8	19.2	13.8	10.1	12.4
(WY)	(1988)	(1930)	(1977)	(1937)	(1977)	(1941)	(1941)	(1947)	(1992)	(1940)	(1940)	(1938)

SANDY RIVER BASIN

14141500 LITTLE SANDY RIVER NEAR BULL RUN, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1920 - 2005	
ANNUAL TOTAL	47,356		34,149		143	
ANNUAL MEAN	129		93.6		223	
HIGHEST ANNUAL MEAN					1974	
LOWEST ANNUAL MEAN					1944	
HIGHEST DAILY MEAN	1,440	Jan 29	660	Jan 18	3,500	Mar 31, 1931
LOWEST DAILY MEAN	12	Aug 19	12	Sep 8	8.0	Sep 16, 1940
ANNUAL SEVEN-DAY MINIMUM	13	Aug 15	12	Sep 21	9.0	Aug 16, 1940
ANNUAL RUNOFF (AC-FT)	93,930		67,730		103,500	
ANNUAL RUNOFF (CFSM)	5.80		4.20		6.41	
ANNUAL RUNOFF (INCHES)	79.00		56.97		87.06	
10 PERCENT EXCEEDS	275		205		300	
50 PERCENT EXCEEDS	94		71		96	
90 PERCENT EXCEEDS	21		15		18	

SANDY RIVER BASIN

14141500 LITTLE SANDY RIVER NEAR BULL RUN, OR—Continued



2005 Water Year
SANDY RIVER BASIN

14141500 LITTLE SANDY RIVER NEAR BULL RUN, OR

Latitude: 45° 24' 56"

Longitude: 122° 10' 13"

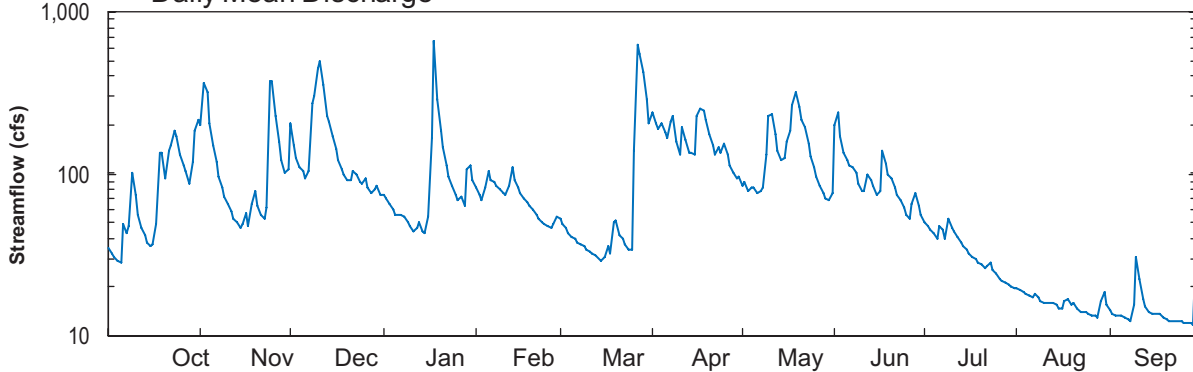
Hydrologic Unit Code: 17080001

Clackamas County

Datum: 720.00 feet

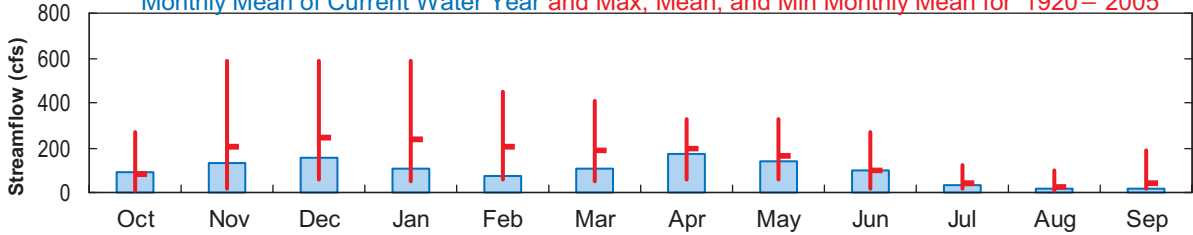
Drainage Area: 22.3 mi²

Daily Mean Discharge

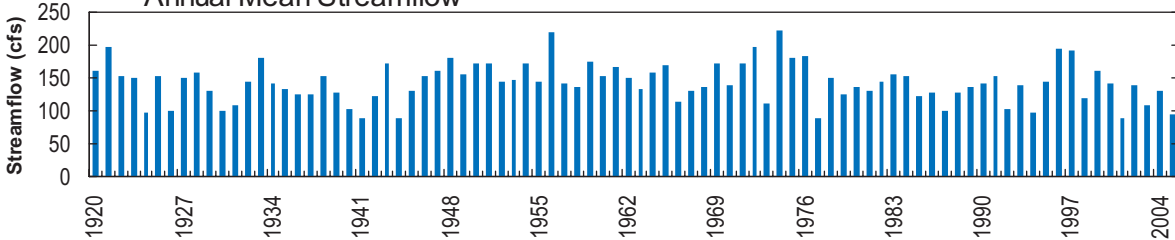


Monthly Statistics

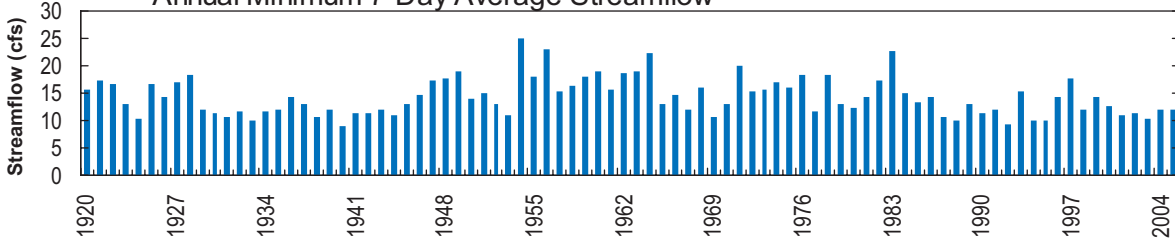
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1920–2005



Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow

