



Water-Data Report 2006

12113346 SPRINGBROOK CREEK NEAR ORILLIA, WA

Puget Sound Basin
Duwamish Subbasin

LOCATION.--Lat 47°25'53", long 122°13'35" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.31, T.23 N., R.5 E., King County, WA, Hydrologic Unit 17110013, on right bank 50 ft upstream from 84th Avenue South (East Valley Highway), 1.2 mi upstream from confluence with Mill Creek, and 1.0 mi southeast of Orillia.

DRAINAGE AREA.--8.44 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is NGVD of 1929 (City of Kent benchmark). U.S. Geological Survey satellite telemeter at station.

REMARKS.--Records poor. Natural flow affected by urbanization and construction of flood-control catchments.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--13 years (water years 1994-2006), 10.2 ft³/s, 16.48 in/yr, 7,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 450 ft³/s, Feb. 9, 1996, elevation, 19.55 ft; minimum discharge, 0.52 ft³/s, Sept. 30, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 154 ft³/s, Jan 30, elevation, 17.59 ft; minimum discharge, 1.4 ft³/s, Sep 28, 29.

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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	2.8	56	8.0	23	28	9.4	8.2	4.9	17	2.7	3.6	2.6
2	7.4	19	19	24	38	7.0	4.4	4.3	67	2.7	3.1	2.3
3	5.6	23	8.3	19	25	6.2	6.0	4.0	e30	3.0	3.1	2.3
4	2.6	19	5.6	16	33	5.5	5.1	3.8	e35	2.8	3.2	2.3
5	2.3	38	4.6	63	18	5.6	3.6	3.9	e7.0	3.1	3.1	2.3
6	5.8	23	4.1	50	14	5.2	3.1	3.6	e4.3	3.2	3.0	e2.4
7	9.8	12	3.7	56	12	5.6	3.2	4.3	3.5	3.1	3.2	2.4
8	3.3	7.2	3.3	26	17	13	8.7	4.7	3.2	3.0	3.0	2.4
9	2.8	5.6	3.2	59	12	8.9	5.6	3.7	4.3	2.9	3.2	2.6
10	2.6	5.0	3.1	98	10	8.9	3.5	3.7	3.3	3.1	3.4	2.4
11	7.4	13	3.1	84	9.7	6.4	3.1	3.7	3.1	3.2	3.3	2.4
12	3.8	9.8	3.0	49	8.7	5.0	3.1	3.6	4.8	3.3	3.4	2.5
13	5.2	53	2.9	46	17	4.6	6.1	3.6	15	3.9	3.2	3.1
14	3.7	18	2.7	43	11	4.8	25	3.5	4.1	3.9	3.2	40
15	13	6.8	2.6	24	8.7	5.0	15	3.6	3.6	3.2	3.2	10
16	3.6	5.1	2.5	34	8.2	5.4	10	3.5	7.9	3.0	3.2	10
17	2.8	e4.3	2.4	37	7.4	5.5	6.0	3.5	4.9	3.0	3.2	3.7
18	2.7	e3.8	2.2	20	7.1	21	4.2	3.4	3.1	3.1	3.2	25
19	4.2	3.4	4.3	17	6.9	6.6	3.9	3.8	2.9	3.1	3.1	26
20	2.9	3.2	6.2	32	6.8	5.3	3.6	4.2	2.9	3.1	3.1	20
21	2.5	3.1	15	21	6.7	4.8	20	4.9	2.8	3.1	3.0	28
22	2.4	3.1	25	15	6.7	4.9	5.3	9.6	2.9	3.1	3.0	28
23	5.8	3.0	30	13	8.8	4.7	4.0	10	2.8	3.1	3.2	4.6
24	4.4	3.1	74	12	7.6	8.7	3.6	16	2.8	3.1	3.2	2.5
25	3.0	41	53	14	6.5	4.9	3.3	27	2.8	3.2	2.8	2.0
26	3.6	15	39	13	6.5	4.2	3.1	12	2.9	3.3	2.7	1.8
27	2.9	13	39	16	14	4.1	3.1	12	2.9	3.2	2.6	1.7
28	6.8	6.1	40	43	28	5.8	2.9	30	3.2	3.2	2.5	1.6
29	6.0	18	27	52	---	4.1	20	8.1	3.0	3.2	2.5	1.5
30	3.7	7.3	48	95	---	3.8	12	5.1	3.5	3.2	2.6	1.6
31	45	---	48	37	---	4.5	---	4.8	---	3.6	2.6	---
Total	180.4	440.9	532.8	1,151	383.3	199.4	208.7	216.8	256.5	97.7	94.7	240.0
Mean	5.82	14.7	17.2	37.1	13.7	6.43	6.96	6.99	8.55	3.15	3.05	8.00
Max	45	56	74	98	38	21	25	30	67	3.9	3.6	40
Min	2.3	3.0	2.2	12	6.5	3.8	2.9	3.4	2.8	2.7	2.5	1.5
Ac-ft	358	875	1,060	2,280	760	396	414	430	509	194	188	476
Cfsm	0.69	1.74	2.04	4.40	1.62	0.76	0.82	0.83	1.01	0.37	0.36	0.95
In.	0.80	1.94	2.35	5.07	1.69	0.88	0.92	0.96	1.13	0.43	0.42	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	9.23	17.3	18.3	19.2	14.4	11.4	8.91	6.40	5.53	3.76	4.27	4.40
Max	18.5	43.5	30.9	37.1	35.8	17.3	15.0	10.1	10.5	5.92	8.35	8.58
(WY)	(2004)	(2000)	(1999)	(2006)	(1996)	(2003)	(1996)	(2005)	(2001)	(1997)	(2004)	(2004)
Min	4.32	5.08	9.55	7.46	6.51	6.41	4.16	3.34	2.92	1.98	2.14	1.71
(WY)	(2003)	(1994)	(2001)	(1994)	(2005)	(1996)	(2004)	(1995)	(2004)	(2004)	(1994)	(1999)

12113346 SPRINGBROOK CREEK NEAR ORILLIA, WA—Continued**SUMMARY STATISTICS**

	Calendar Year 2005	Water Year 2006	Water Years 1994 - 2006	
Annual total	3,197.5	4,002.2		
Annual mean	8.76	11.0	10.2	
Highest annual mean			14.5	1996
Lowest annual mean			6.22	1994
Highest daily mean	98	Jan 17	98	Feb 8, 1996
Lowest daily mean	1.7	Sep 28	1.5	Sep 29, 2003
Annual seven-day minimum	1.8	Sep 22	1.8	Sep 24
Annual runoff (ac-ft)	6,340		7,940	7,410
Annual runoff (cfsm)	1.04		1.30	1.21
Annual runoff (inches)	14.09		17.64	16.48
10 percent exceeds	22		29	23
50 percent exceeds	4.4		4.4	5.2
90 percent exceeds	2.4		2.7	2.3

