



Figure 20. Location of surface-water stations in the Lake Washington Basin.

12114500 CEDAR RIVER BELOW BEAR CREEK, NEAR CEDAR FALLS, WA

LOCATION.--Lat 47°20'32", long 121°32'52", in SE¼SE¼, sec.32, T.22 N., R.10 E., King County, Hydrologic Unit 17110012, on right bank 500 ft downstream from Bear Creek, and 12.2 mi southeast of town of Cedar Falls.

DRAINAGE AREA.--25.4 mi².

PERIOD OF RECORD.--October 1945 to December 1963, October 1975 to current year.

REVISED RECORDS.--WSP 1716: 1956-57(M), 1959(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,880 ft above NGVD of 1929, from topographic map. Prior to Sept. 16, 1960, at site 90 ft upstream at datum 2.35 ft higher.

REMARKS.--Records good, except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--47 years (water years 1946-63, 1976-2004), 163 ft³/s, 87.19 in/yr, 118,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,620 ft³/s, Nov. 22, 1959, gage height, 6.98 ft, site and datum then in use, from rating curve extended above 890 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 12 ft³/s, Nov. 27, 1952.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 21	0100	912	4.12	Nov 29	0500	801	3.94
Nov 18	1000	*1,800	*5.12	Jan 29	1800	1,340	4.66

Minimum discharge, 18 ft³/s, Oct. 3-6.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	113	298	e57	325	79	211	288	370	61	28	87
2	19	102	242	e55	251	78	187	311	295	59	27	121
3	19	92	212	e53	205	80	191	289	259	59	27	98
4	e18	83	178	e48	176	102	213	277	237	55	27	89
5	e18	76	178	e43	154	113	214	259	230	52	27	82
6	e18	71	179	e38	141	107	203	215	280	51	31	75
7	22	67	159	e34	131	112	212	204	252	54	39	70
8	26	63	146	e35	119	151	216	213	227	50	29	65
9	32	60	134	e36	108	245	222	204	208	48	27	67
10	43	99	123	46	100	269	241	187	198	48	26	61
11	38	491	113	54	94	236	296	173	181	54	25	178
12	109	289	108	55	89	218	335	161	163	46	25	131
13	129	211	107	56	84	193	325	156	191	44	24	158
14	82	168	99	58	82	178	293	157	183	42	24	236
15	68	146	95	123	78	172	256	163	172	40	23	295
16	294	165	91	162	76	168	226	169	160	39	23	316
17	209	306	91	142	73	175	203	160	152	38	23	278
18	140	1,220	87	133	79	181	187	164	142	37	23	252
19	112	761	83	128	89	174	174	180	129	37	22	220
20	310	442	85	117	84	160	179	167	119	36	22	188
21	686	299	89	108	80	153	171	164	110	35	22	162
22	342	229	83	101	77	160	165	211	103	34	36	145
23	235	192	82	126	76	196	184	186	98	33	37	130
24	175	166	82	171	77	216	193	161	92	32	143	115
25	143	151	82	156	76	207	189	154	85	31	312	103
26	120	136	78	149	74	195	230	299	80	30	274	93
27	104	120	74	144	75	214	297	290	75	30	217	85
28	147	177	72	215	80	209	270	294	70	30	159	78
29	172	657	67	882	82	222	234	500	66	29	127	73
30	140	414	63	871	---	256	245	555	63	29	106	68
31	124	---	e59	483	---	245	---	519	---	28	91	---
TOTAL	4,113	7,566	3,639	4,879	3,235	5,464	6,762	7,430	4,990	1,291	2,046	4,119
MEAN	133	252	117	157	112	176	225	240	166	41.6	66.0	137
MAX	686	1,220	298	882	325	269	335	555	370	61	312	316
MIN	18	60	59	34	73	78	165	154	63	28	22	61
AC-FT	8,160	15,010	7,220	9,680	6,420	10,840	13,410	14,740	9,900	2,560	4,060	8,170
CFSM	5.22	9.93	4.62	6.20	4.39	6.94	8.87	9.44	6.55	1.64	2.60	5.41
IN.	6.02	11.08	5.33	7.15	4.74	8.00	9.90	10.88	7.31	1.89	3.00	6.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	96.1	218	202	169	169	145	235	308	240	97.1	36.6	40.9
MAX	262	697	496	459	407	263	387	599	608	352	92.0	231
(WY)	(1960)	(1991)	(1976)	(1953)	(1996)	(1997)	(1989)	(1956)	(1950)	(1955)	(1955)	(1959)
MIN	15.3	16.6	27.9	49.9	43.9	49.4	102	110	38.8	30.4	21.5	17.8
(WY)	(1988)	(1953)	(1953)	(1952)	(1956)	(1955)	(1955)	(1992)	(1992)	(1992)	(2003)	(1998)

12114500 CEDAR RIVER BELOW BEAR CREEK, NEAR CEDAR FALLS, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	54,336		55,534			
ANNUAL MEAN	149		152		163	
HIGHEST ANNUAL MEAN					234	
LOWEST ANNUAL MEAN					102	
HIGHEST DAILY MEAN	1,810	Jan 31	1,220	Nov 18	3,880	Nov 24, 1990
LOWEST DAILY MEAN	18	Sep 2	18	Oct 4	13	Nov 29, 1952
ANNUAL SEVEN-DAY MINIMUM	18	Sep 1	19	Oct 1	14	Nov 26, 1952
ANNUAL RUNOFF (AC-FT)	107,800		110,200		118,100	
ANNUAL RUNOFF (CFSM)	5.86		5.97		6.42	
ANNUAL RUNOFF (INCHES)	79.58		81.33		87.19	
10 PERCENT EXCEEDS	298		288		356	
50 PERCENT EXCEEDS	102		126		110	
90 PERCENT EXCEEDS	22		32		27	

e Estimated

12115000 CEDAR RIVER NEAR CEDAR FALLS, WA

LOCATION.--Lat 47°22'13", long 121°37'26", in SE $\frac{1}{4}$ SW $\frac{1}{4}$, sec.23, T.22 N., R.9 E., King County, Hydrologic Unit 17110012, Snoqualmie National Forest, on left bank 1.4 mi upstream from Chester Morse Lake, 8.3 mi southeast of town of Cedar Falls, and at mile 43.5.

DRAINAGE AREA.--40.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WSP 1286: 1946-48, 1950(P), 1951. WSP 1516: 1946(M), 1947-48(P), 1950-51(M), 1953-54(P), 1955(M). WSP 1932: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,560 ft above NGVD of 1929 from topographic map. Prior to Oct. 26, 1957, at site 80 ft downstream at same datum.

REMARKS.--Records good, except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--59 years (water years 1946-2004), 258 ft³/s, 86.03 in/yr, 186,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,490 ft³/s, Nov. 22, 1959, gage height, 11.34 ft, from high-water mark in well, from rating curve extended above 4,300 ft³/s, on basis of slope-area measurements at gage heights 10.16 ft and 11.34 ft; maximum gage height, 11.4 ft, Feb. 11, 1951, backwater from Chester Morse Lake; minimum discharge, 19 ft³/s, Oct. 23-26, 29-31, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 21	0415	1,640	6.22	Nov 29	0600	1,410	5.96
Nov 18	1200	*3,500	*7.68	Jan 29	1845	2,600	7.06

Minimum discharge, 26 ft³/s, Oct. 6, 7, gage height, 2.25 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	175	503	e100	545	130	319	391	572	92	41	135
2	27	159	403	e95	419	127	281	427	451	88	40	182
3	27	144	371	e90	342	131	280	399	398	88	39	150
4	27	131	309	e76	300	171	312	384	e350	84	39	133
5	27	120	326	e70	256	191	315	366	e320	80	38	124
6	26	112	344	e64	231	189	297	306	e420	79	43	113
7	29	105	300	e60	213	189	305	283	e395	82	65	104
8	35	98	267	e63	195	249	310	293	e365	77	46	98
9	54	93	237	e70	179	384	317	282	e330	73	40	101
10	73	126	215	e80	166	417	337	262	e300	73	38	92
11	70	737	195	96	157	363	410	247	e270	86	37	274
12	162	478	187	98	148	332	476	229	e250	71	36	215
13	226	343	214	102	141	295	465	219	e300	67	35	240
14	146	269	204	120	138	273	418	215	e285	64	35	342
15	120	229	188	256	132	262	370	223	e265	62	35	427
16	432	250	177	355	128	253	332	232	e250	59	34	499
17	366	442	174	280	125	262	299	220	e230	57	33	453
18	240	2,270	161	253	136	276	274	219	e215	56	33	404
19	189	1,300	155	241	154	269	256	239	e200	56	32	352
20	416	706	157	217	147	244	260	224	e190	55	32	299
21	1,240	484	168	197	139	230	250	219	e180	52	32	253
22	591	370	158	182	132	238	238	275	e165	50	49	223
23	396	311	153	223	128	290	263	261	e155	49	63	200
24	290	280	153	332	126	323	282	224	e145	47	230	176
25	231	253	154	299	125	312	272	211	e135	46	512	158
26	193	236	145	274	122	295	312	400	e130	45	467	143
27	167	211	136	259	122	321	409	435	e120	44	376	131
28	205	317	130	375	133	316	392	447	e110	44	273	121
29	272	1,150	122	1,630	134	325	337	810	105	43	210	114
30	220	712	117	1,560	---	381	338	825	97	42	172	107
31	193	---	e110	797	---	370	---	793	---	41	145	---
TOTAL	6,718	12,611	6,633	8,914	5,413	8,408	9,726	10,560	7,698	1,952	3,300	6,363
MEAN	217	420	214	288	187	271	324	341	257	63.0	106	212
MAX	1,240	2,270	503	1,630	545	417	476	825	572	92	512	499
MIN	26	93	110	60	122	127	238	211	97	41	32	92
AC-FT	13,330	25,010	13,160	17,680	10,740	16,680	19,290	20,950	15,270	3,870	6,550	12,620
CFSM	5.32	10.3	5.26	7.07	4.59	6.66	7.97	8.37	6.30	1.55	2.62	5.21
IN.	6.14	11.53	6.06	8.15	4.95	7.68	8.89	9.65	7.04	1.78	3.02	5.82

12115000 CEDAR RIVER NEAR CEDAR FALLS, WA—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)												
MEAN	149	332	343	307	293	244	353	451	352	148	58.6	67.2
MAX	403	1,269	780	722	692	698	580	834	874	472	150	365
(WY)	(1948)	(1991)	(1976)	(1953)	(1996)	(1972)	(1989)	(1956)	(1974)	(1955)	(1964)	(1959)
MIN	20.1	27.1	63.5	91.7	81.9	99.1	160	170	62.6	46.4	27.1	25.4
(WY)	(1988)	(1953)	(1953)	(1979)	(1969)	(1955)	(1967)	(1992)	(1992)	(2003)	(2003)	(1987)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	88,266		88,296			
ANNUAL MEAN	242		241		258	
HIGHEST ANNUAL MEAN					373	
LOWEST ANNUAL MEAN					157	
HIGHEST DAILY MEAN	3,090	Jan 31	2,270	Nov 18	6,400	Nov 25, 1990
LOWEST DAILY MEAN	21	Sep 6	26	Oct 6	19	Oct 23, 1987
ANNUAL SEVEN-DAY MINIMUM	22	Sep 1	27	Oct 1	19	Oct 23, 1987
ANNUAL RUNOFF (AC-FT)	175,100		175,100		186,700	
ANNUAL RUNOFF (CFSM)	5.94		5.93		6.33	
ANNUAL RUNOFF (INCHES)	80.68		80.70		86.03	
10 PERCENT EXCEEDS	473		416		541	
50 PERCENT EXCEEDS	174		212		182	
90 PERCENT EXCEEDS	29		48		43	

e Estimated

12115000 CEDAR RIVER NEAR CEDAR FALLS, WA—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 1997 to current year.

INSTRUMENTATION.--Temperature recorder since May, 1997.

REMARKS.--Records good, except for Oct. 1, which are fair.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 16.5°C (rounded), Sept. 3, 4, 6, 14, 1998; minimum, 0.0°C, Mar. 19, 20, 2002.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 13.1°C, Aug. 12; minimum, 0.7°C, Jan. 6.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.0	9.5	10.2	5.3	4.6	5.0	4.2	3.9	4.2	2.8	2.5	2.6
2	11.0	9.2	9.9	5.3	4.6	4.9	4.6	4.2	4.5	3.2	2.5	2.9
3	11.0	8.8	9.6	4.9	4.2	4.5	4.6	3.9	4.2	3.2	2.1	2.6
4	11.0	8.8	9.6	4.6	3.9	4.1	3.9	3.5	3.5	2.1	1.4	1.8
5	10.6	9.2	9.7	4.2	3.5	3.8	4.2	3.9	4.1	1.8	1.4	1.5
6	11.0	9.2	9.8	4.2	3.5	3.8	4.6	3.9	4.3	1.4	0.7	1.3
7	10.2	9.5	9.8	4.6	3.9	4.3	4.6	3.9	4.1	1.8	1.1	1.4
8	9.9	9.2	9.5	5.3	4.6	4.9	4.6	3.9	4.3	2.5	1.4	2.0
9	9.9	9.5	9.6	6.0	4.9	5.6	4.2	3.9	3.9	2.5	2.1	2.4
10	9.5	8.8	9.3	5.7	5.3	5.7	4.2	3.9	4.0	2.8	2.5	2.6
11	9.2	8.8	9.0	5.3	4.9	5.2	4.2	3.9	4.0	3.5	2.5	3.0
12	8.8	8.5	8.7	5.3	4.6	4.9	3.9	3.2	3.5	3.5	3.2	3.3
13	9.2	8.1	8.5	5.3	4.9	5.0	3.9	3.2	3.4	3.9	3.2	3.4
14	8.8	8.1	8.6	5.7	4.6	5.2	3.5	3.2	3.4	3.9	3.5	3.6
15	8.1	7.8	8.0	5.7	5.3	5.4	3.9	3.5	3.7	3.5	2.8	3.2
16	8.1	7.4	7.8	5.3	4.9	5.2	3.9	3.9	3.9	3.5	2.8	3.1
17	9.2	7.8	8.5	4.9	4.6	4.8	3.9	3.5	3.8	3.9	3.2	3.4
18	8.5	7.8	8.2	6.0	4.9	5.7	4.2	3.9	3.9	3.9	3.5	3.7
19	8.8	8.1	8.4	6.4	3.9	4.9	4.6	3.9	4.1	4.2	3.5	3.7
20	9.2	8.5	8.9	4.6	4.2	4.3	4.6	4.2	4.4	3.5	2.8	3.2
21	9.5	8.8	9.1	4.2	3.9	4.1	4.9	4.2	4.5	3.2	2.8	2.9
22	9.2	8.8	9.1	3.9	3.5	3.7	4.6	3.9	4.1	3.5	2.5	3.0
23	9.2	7.8	8.4	4.2	3.9	4.1	4.2	4.2	4.2	3.9	3.2	3.5
24	7.8	7.1	7.5	4.2	3.9	4.0	4.6	4.2	4.3	3.5	2.1	3.1
25	7.8	6.7	7.3	3.9	3.2	3.5	4.2	3.9	4.1	3.2	2.5	2.8
26	8.1	7.4	7.7	3.9	3.5	3.7	3.9	3.5	3.8	2.8	2.5	2.6
27	8.5	7.8	8.1	4.2	3.9	4.0	3.9	2.8	3.3	3.9	2.8	3.3
28	8.8	8.1	8.5	4.2	3.9	3.9	3.5	2.8	3.2	3.5	3.5	3.5
29	8.1	6.7	7.5	4.2	3.5	3.9	3.2	2.5	2.9	3.5	2.8	3.2
30	6.7	5.3	6.2	4.2	3.9	4.0	2.8	2.1	2.5	3.5	3.2	3.3
31	5.3	4.6	5.0	---	---	---	2.8	2.5	2.7	3.5	2.8	3.2
MONTH	11.0	4.6	8.6	6.4	3.2	4.5	4.9	2.1	3.8	4.2	0.7	2.9

12115500 REX RIVER NEAR CEDAR FALLS, WA

LOCATION.--Lat 47°21'03", long 121°39'43", in NE¼NW¼, sec.33, T.22 N., R.9 E., King County, Hydrologic Unit 17110012, Snoqualmie National Forest, on right bank 3.0 mi upstream from mouth and Chester Morse Lake, and 7.5 mi southeast of town of Cedar Falls.

DRAINAGE AREA.--13.4 mi².

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WSP 1286: 1946, 1948(P), 1949(M), 1950(P), 1952(M). WSP 1446: 1946(M), 1951, 1953-55(M). WSP 1932: Drainage area. WDR WA-74-1: 1973.

GAGE.--Water-stage recorder. Elevation of gage is 1,700 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 2000, published at datum 1,600 ft above NGVD of 1929.

REMARKS.--Records fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--59 years (water years 1946-2004), 101 ft³/s, 102.05 in/yr, 72,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft³/s, Nov. 22, 1959, gage height, 8.20 ft, from rating curve extended above 1,600 ft³/s on basis of contracted-opening measurement at gage height 7.19 ft and slope-area measurement at gage height 8.20 ft; maximum gage height, 9.31 ft, Nov. 19, 1962, backwater from debris; minimum discharge, 3.0 ft³/s, Sept. 6-8, 1986, gage height, 3.23 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 20	2315	1,050	5.87	Nov 29	0400	788	5.50
Nov 18	0945	*1,800	*6.70	Jan 29	1330	1,500	6.40

Minimum discharge, 7.4 ft³/s, Oct. 6.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	58	173	e32	184	47	114	126	193	23	11	66
2	8.5	50	144	e28	137	44	101	126	141	22	10	89
3	8.2	44	151	e26	109	45	121	115	109	23	10	64
4	7.8	39	117	e25	96	73	123	120	89	21	10	57
5	7.8	34	177	e23	81	80	112	119	97	20	10	51
6	7.8	31	184	e22	75	77	106	94	140	20	16	45
7	14	29	139	e20	71	90	110	89	125	25	29	41
8	21	27	108	e30	64	128	110	91	138	20	14	40
9	29	25	86	44	59	180	111	86	143	19	12	47
10	65	125	73	59	55	156	125	80	123	19	11	39
11	36	386	63	51	53	123	161	91	105	25	11	178
12	109	169	60	54	50	108	164	79	89	18	10	111
13	88	113	90	63	47	94	149	75	126	17	10	136
14	55	86	84	101	48	91	139	70	104	16	9.7	157
15	46	76	75	306	47	89	121	68	91	16	9.6	248
16	220	113	71	268	47	86	117	69	80	15	9.2	234
17	128	157	75	165	48	92	107	63	70	15	9.1	229
18	81	1,040	66	138	62	96	99	61	61	14	8.7	188
19	63	396	64	137	79	88	92	61	54	14	8.3	152
20	286	227	76	107	68	79	101	56	49	14	8.3	126
21	584	150	94	89	59	79	91	53	43	13	8.5	102
22	231	111	77	76	54	92	91	104	39	13	25	90
23	150	93	69	146	50	110	110	79	36	12	26	82
24	103	87	67	219	49	116	109	68	35	12	184	71
25	77	79	65	149	46	106	104	65	33	12	306	64
26	62	73	55	120	43	100	127	187	31	12	257	57
27	51	64	49	106	44	123	134	170	29	12	212	50
28	116	167	e45	221	53	118	124	253	27	11	132	46
29	113	527	e42	1,090	51	142	111	419	25	11	96	43
30	82	263	e39	550	---	172	116	337	24	11	75	40
31	67	---	e35	276	---	146	---	283	---	11	63	---
TOTAL	2,925.8	4,839	2,713	4,741	1,929	3,170	3,500	3,757	2,449	506	1,611.4	2,943
MEAN	94.4	161	87.5	153	66.5	102	117	121	81.6	16.3	52.0	98.1
MAX	584	1,040	184	1,090	184	180	164	419	193	25	306	248
MIN	7.8	25	35	20	43	44	91	53	24	11	8.3	39
AC-FT	5,800	9,600	5,380	9,400	3,830	6,290	6,940	7,450	4,860	1,000	3,200	5,840
CFSM	7.04	12.0	6.53	11.4	4.96	7.63	8.71	9.04	6.09	1.22	3.88	7.32
IN.	8.12	13.43	7.53	13.16	5.36	8.80	9.72	10.43	6.80	1.40	4.47	8.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	70.9	147	148	133	118	93.2	135	159	114	43.6	18.1	30.2
MAX	171	489	357	326	281	250	248	280	354	174	62.4	189
(WY)	(1948)	(1991)	(1976)	(1953)	(1982)	(1972)	(1989)	(1971)	(1974)	(1955)	(1964)	(1959)
MIN	6.30	7.90	28.9	32.6	20.6	28.7	50.7	41.7	17.1	9.42	5.26	6.54
(WY)	(1953)	(1953)	(1986)	(1957)	(1969)	(1955)	(1967)	(1992)	(1992)	(2003)	(2003)	(1967)

12115500 REX RIVER NEAR CEDAR FALLS, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	32,615.0		35,084.2		101	
ANNUAL MEAN	89.4		95.9		146	
HIGHEST ANNUAL MEAN					1974	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	1,280	Jan 31	1,090	Jan 29	2,750	Nov 24, 1990
LOWEST DAILY MEAN	4.1	Aug 31	7.8	Oct 4	3.1	Sep 7, 1986
ANNUAL SEVEN-DAY MINIMUM	4.1	Aug 31	8.8	Aug 15	3.8	Sep 2, 1986
ANNUAL RUNOFF (AC-FT)	64,690		69,590		72,920	
ANNUAL RUNOFF (CFSM)	6.67		7.15		7.51	
ANNUAL RUNOFF (INCHES)	90.54		97.40		102.05	
10 PERCENT EXCEEDS	178		174		218	
50 PERCENT EXCEEDS	63		76		65	
90 PERCENT EXCEEDS	6.1		14		12	

e Estimated

12115700 BOULDER CREEK NEAR CEDAR FALLS, WA

LOCATION.--Lat 47°21'59", long 121°41'30", in NW¼NW¼, sec.29, T.22 N., R.9 E., King County, Hydrologic Unit 17110012, Snoqualmie National Forest, on left bank 5.8 mi southeast of Cedar Falls, and at mile 0.4.

DRAINAGE AREA.--4.64 mi².

PERIOD OF RECORD.--March 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,610 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are fair. No regulation or diversion upstream from station.

AVERAGE DISCHARGE.--21 years (water years 1984-2004), 24.2 ft³/s, 70.87 in/yr, 17,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s, Nov. 23, 1986, gage height, 4.16 ft; maximum gage height, 5.37 ft, Feb. 8, 1996; minimum discharge, no flow for many days during August through October most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 310 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 18	1000	*497	*4.44	Jan 29	1700	440	4.36

Minimum discharge, 0.30 ft³/s, Aug. 20, gage height, 2.07 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	12	47	10	48	13	28	23	51	4.1	1.1	13
2	1.1	11	40	9.3	36	12	25	22	37	3.9	1.1	16
3	1.1	10	44	8.8	29	13	27	20	29	4.2	1.1	12
4	0.95	9.0	35	8.5	25	21	27	21	23	3.9	1.1	11
5	0.95	8.2	51	e7.8	21	23	24	20	24	3.6	1.1	9.6
6	0.97	7.6	53	e7.4	19	22	23	17	28	3.8	2.8	8.2
7	2.0	7.3	41	e7.0	18	24	23	16	27	5.2	6.6	7.3
8	3.0	6.9	33	e6.8	16	34	23	16	25	4.0	2.4	7.0
9	5.7	6.5	27	9.6	15	48	23	15	24	3.6	1.7	9.0
10	9.0	18	22	14	14	42	25	15	23	4.1	1.4	6.8
11	5.9	31	19	12	12	33	31	19	20	5.7	1.2	40
12	14	22	18	13	11	29	31	16	18	3.6	1.1	27
13	12	17	25	15	11	25	29	15	26	3.2	0.94	26
14	7.7	15	24	23	11	24	27	13	22	2.9	0.89	27
15	7.0	15	20	83	10	23	25	13	21	2.6	0.85	50
16	42	23	19	78	11	22	25	13	18	2.5	0.74	52
17	24	29	19	47	11	23	23	12	16	2.3	0.67	50
18	15	288	17	39	15	25	21	11	14	2.2	0.60	42
19	12	110	16	37	22	23	20	10	13	2.3	0.54	33
20	69	58	20	31	20	20	21	9.7	11	2.3	0.44	28
21	176	39	28	26	17	20	19	9.3	10	2.1	0.56	22
22	67	29	25	23	15	22	18	18	9.2	1.9	4.3	20
23	39	25	22	40	14	27	21	15	8.3	1.8	5.1	18
24	26	24	21	65	12	29	21	13	7.9	1.6	40	16
25	19	21	20	46	11	28	20	13	7.1	1.5	74	14
26	15	20	17	36	11	27	22	48	6.2	1.5	62	13
27	12	17	16	31	11	29	25	47	5.5	1.5	53	12
28	19	43	14	54	14	29	24	68	5.1	1.4	32	11
29	21	140	12	287	14	32	21	114	4.7	1.3	23	10
30	16	69	11	160	---	37	21	86	4.3	1.3	17	9.2
31	13	---	11	71	---	33	---	74	---	1.2	13	---
TOTAL	657.57	1,131.5	787	1,306.2	494	812	713	822.0	538.3	87.1	352.33	620.1
MEAN	21.2	37.7	25.4	42.1	17.0	26.2	23.8	26.5	17.9	2.81	11.4	20.7
MAX	176	288	53	287	48	48	31	114	51	5.7	74	52
MIN	0.95	6.5	11	6.8	10	12	18	9.3	4.3	1.2	0.44	6.8
AC-FT	1,300	2,240	1,560	2,590	980	1,610	1,410	1,630	1,070	173	699	1,230
CFSM	4.57	8.13	5.47	9.08	3.67	5.65	5.12	5.71	3.87	0.61	2.45	4.45
IN.	5.27	9.07	6.31	10.47	3.96	6.51	5.72	6.59	4.32	0.70	2.82	4.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

MEAN	13.9	45.8	36.8	36.6	31.8	29.5	36.0	30.8	17.6	6.33	2.02	3.63
MAX	42.0	124	137	73.2	97.8	50.8	70.7	52.9	42.8	27.8	11.4	20.7
(WY)	(1986)	(1996)	(1999)	(1984)	(1996)	(2003)	(1985)	(1999)	(1999)	(1983)	(2004)	(2004)
MIN	0.00	2.07	5.92	9.96	10.9	9.34	16.3	9.21	2.03	0.22	0.00	0.00
(WY)	(1988)	(1988)	(1986)	(1985)	(1994)	(1992)	(1995)	(1992)	(1992)	(1987)	(1987)	(1987)

12115700 BOULDER CREEK NEAR CEDAR FALLS, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004	
ANNUAL TOTAL	8,673.06		8,321.10			
ANNUAL MEAN	23.8		22.7		24.2	
HIGHEST ANNUAL MEAN					37.0 1999	
LOWEST ANNUAL MEAN					15.6 1992	
HIGHEST DAILY MEAN	288	Nov 18	288	Nov 18	850	Feb 8, 1996
LOWEST DAILY MEAN	0.00	Sep 5	0.44	Aug 20	0.00	Aug 8, 1984
ANNUAL SEVEN-DAY MINIMUM	0.05	Aug 31	0.63	Aug 15	0.00	Aug 8, 1984
ANNUAL RUNOFF (AC-FT)	17,200		16,500		17,530	
ANNUAL RUNOFF (CFSM)	5.12		4.90		5.22	
ANNUAL RUNOFF (INCHES)	69.53		66.71		70.87	
10 PERCENT EXCEEDS	51		43		53	
50 PERCENT EXCEEDS	15		18		14	
90 PERCENT EXCEEDS	0.81		2.2		0.73	

e Estimated

12116100 CANYON CREEK NEAR CEDAR FALLS, WA

LOCATION.--Lat 47°25'11", long 121°45'55", in NW¼SE¼, sec.3, T.22 N., R.8 E., King County, Hydrologic Unit 17110012, Snoqualmie National Forest, on right bank 400 ft upstream from mouth, and 0.8 mi east of town of Cedar Falls.

DRAINAGE AREA.--0.19 mi².

PERIOD OF RECORD.--May 1945 to current year. Prior to October 1960 published in WSP 1932.

GAGE.--Water-stage recorder and wooden control. Elevation of gage is 1,040 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No regulation or diversion upstream from station. Flow is mostly seepage from Chester Morse Lake.

AVERAGE DISCHARGE.--59 years (water years 1946-2004), 15.2 ft³/s, 11,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 131 ft³/s, Dec. 7, 1975, gage height, 2.22 ft; minimum daily discharge, 0.22 ft³/s, Nov. 6-11, 17-22, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 106 ft³/s, June 22, gage height, 1.98 ft; minimum discharge, 0.58 ft³/s, Oct. 14-20 and 22-26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.89	1.5	12	8.4	4.5	10	7.6	13	27	55	23	14
2	0.88	1.7	11	8.3	5.0	10	7.6	13	30	51	23	14
3	0.81	2.0	11	8.0	6.2	10	7.6	14	33	49	22	14
4	0.81	2.3	11	8.0	7.4	10	7.7	15	38	47	22	14
5	0.81	2.5	12	7.7	8.7	10	7.9	16	44	47	21	14
6	0.71	2.8	12	7.6	9.9	9.7	8.0	16	48	47	21	14
7	0.65	3.2	12	7.6	11	9.3	8.0	18	49	46	20	14
8	0.65	3.4	12	7.6	12	9.2	8.2	18	48	45	20	14
9	0.65	3.8	12	7.5	13	9.0	8.4	19	52	44	19	14
10	0.65	4.2	12	7.2	14	8.8	8.4	20	54	43	19	14
11	0.65	4.5	12	7.0	15	8.5	8.4	21	59	42	18	14
12	0.65	4.7	12	6.9	15	8.4	8.4	21	62	41	18	14
13	0.65	4.9	12	6.9	15	8.4	8.4	22	65	40	18	13
14	0.58	5.4	12	6.6	15	8.4	8.8	22	80	39	18	13
15	0.58	5.7	11	6.7	15	8.4	8.9	22	80	38	17	13
16	0.66	6.2	11	6.4	15	8.1	9.2	22	86	36	17	13
17	0.65	6.6	10	6.0	15	8.0	9.2	22	86	35	16	13
18	0.58	7.6	10	5.8	14	8.0	9.3	22	91	34	16	13
19	0.58	7.6	10	5.6	14	8.0	9.8	22	93	34	16	13
20	1.2	7.3	10	5.5	13	8.0	10	23	97	33	16	13
21	2.4	7.3	9.8	5.0	13	7.9	10	23	99	32	15	13
22	0.66	7.7	9.6	4.7	13	7.8	10	23	95	31	15	13
23	0.59	8.6	9.3	4.7	13	7.6	10	23	86	30	15	13
24	0.58	9.8	9.2	4.7	12	7.6	11	23	85	29	15	13
25	0.58	11	9.2	4.6	12	7.6	11	23	82	28	15	13
26	0.61	11	9.0	4.5	11	7.6	11	23	77	27	14	13
27	0.68	11	8.8	4.5	11	7.6	11	23	73	27	14	13
28	0.82	12	8.8	4.3	10	7.6	12	24	68	26	14	13
29	0.95	13	8.6	6.1	10	7.6	12	25	64	25	13	12
30	1.2	12	8.4	5.2	---	7.6	12	24	60	25	13	12
31	1.3	---	8.4	4.5	---	7.6	---	25	---	24	14	---
TOTAL	24.66	191.3	326.1	194.1	342.7	262.3	279.8	640	2,011	1,150	537	400
MEAN	0.80	6.38	10.5	6.26	11.8	8.46	9.33	20.6	67.0	37.1	17.3	13.3
MAX	2.4	13	12	8.4	15	10	12	25	99	55	23	14
MIN	0.58	1.5	8.4	4.3	4.5	7.6	7.6	13	27	24	13	12
AC-FT	49	379	647	385	680	520	555	1,270	3,990	2,280	1,070	793

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, BY WATER YEAR (WY)

MEAN	3.02	7.69	16.1	15.3	14.9	12.8	13.2	22.8	33.1	24.6	13.4	5.46
MAX	22.6	67.3	58.6	51.5	65.6	47.7	53.8	51.6	73.1	63.9	39.8	18.5
(WY)	(1960)	(1948)	(1976)	(1954)	(1953)	(1950)	(1988)	(1988)	(1946)	(1955)	(1955)	(1955)
MIN	0.32	0.23	0.46	0.63	0.38	0.41	4.31	3.65	9.80	5.74	1.55	0.53
(WY)	(1988)	(1988)	(1953)	(2001)	(2001)	(2001)	(1956)	(1999)	(1963)	(1978)	(1987)	(1978)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1945 - 2004
ANNUAL TOTAL	5,729.03	6,358.96	
ANNUAL MEAN	15.7	17.4	15.2
HIGHEST ANNUAL MEAN			29.3
LOWEST ANNUAL MEAN			6.25
HIGHEST DAILY MEAN	53	99	120
LOWEST DAILY MEAN	0.54	0.58	0.22
ANNUAL SEVEN-DAY MINIMUM	0.57	0.61	0.22
ANNUAL RUNOFF (AC-FT)	11,360	12,610	11,000
10 PERCENT EXCEEDS	34	42	35
50 PERCENT EXCEEDS	12	12	11
90 PERCENT EXCEEDS	0.72	2.7	1.5

12116400 CEDAR RIVER AT POWERPLANT, AT CEDAR FALLS, WA

LOCATION.--Lat 47°25'08", long 121°46'49", in SE¼, sec.4, T.22 N., R.8 E., King County, Hydrologic Unit 17110012, on right bank 100 ft upstream from Seattle Municipal Powerplant at town of Cedar Falls, and at mile 33.7.

DRAINAGE AREA.--83.9 mi², includes 78.4 mi² upstream from Cedar Lake which is non-contributing except during spillage and seepage from dam.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder, crest-stage gage and concrete weir. Datum of gage is 900.00 ft above NGVD of 1929 (City of Seattle benchmark).

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Chester Morse Lake (station 12115900) and Cedar Lake (station 12116060) to supply powerplant, which discharges below gage. Entire flow of river normally diverted at Cedar Lake except for infrequent releases. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--3 years (water years 2002-04) 98.6 ft³/s, 71,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 950 ft³/s, Feb. 3, 2003, gage height, 34.80 ft; minimum discharge, 3.0 ft³/s, Aug. 28, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 503 ft³/s, Dec. 2, gage height, 33.91 ft; minimum discharge, 30 ft³/s, Oct. 7, gage height, 31.34 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	62	156	54	81	61	62	38	49	54	38	39
2	33	61	370	54	132	59	43	38	46	52	37	40
3	33	60	391	53	199	60	41	38	45	49	37	38
4	34	59	226	52	143	63	41	40	47	47	37	38
5	34	58	230	50	143	64	41	41	53	45	36	37
6	34	58	160	51	143	63	40	41	58	43	37	38
7	33	57	76	50	144	62	39	41	60	41	36	38
8	34	57	112	52	143	64	38	42	65	39	37	38
9	35	57	239	55	113	69	38	41	66	37	40	38
10	33	61	233	60	67	70	39	39	68	37	39	37
11	33	60	195	60	66	67	41	41	70	36	39	53
12	34	59	99	61	66	64	42	41	71	34	38	48
13	34	59	73	61	65	62	41	41	75	40	37	42
14	37	59	72	64	66	60	41	42	75	40	37	36
15	38	60	67	89	66	59	40	42	76	39	39	38
16	47	64	65	91	66	59	38	43	76	38	44	42
17	51	63	63	73	66	59	38	43	76	37	43	40
18	51	130	61	66	67	60	39	43	76	36	43	38
19	52	119	60	62	69	59	40	43	75	36	43	35
20	90	134	61	60	69	58	42	43	74	35	43	36
21	173	276	62	57	67	57	42	41	73	35	43	35
22	59	354	61	55	65	57	42	42	72	38	45	36
23	73	478	60	63	65	57	43	41	70	39	45	35
24	62	477	60	78	63	60	43	42	69	38	61	35
25	56	466	59	69	63	60	44	43	67	38	84	35
26	52	311	58	67	62	61	44	57	65	37	73	35
27	51	72	57	65	62	62	46	63	63	37	66	36
28	59	83	56	71	62	61	45	76	60	36	57	38
29	64	129	56	169	61	61	38	101	58	38	51	38
30	63	106	55	145	---	65	38	71	56	39	47	40
31	63	---	55	100	---	65	---	56	---	38	42	---
TOTAL	1,578	4,149	3,648	2,157	2,544	1,908	1,249	1,454	1,954	1,228	1,394	1,152
MEAN	50.9	138	118	69.6	87.7	61.5	41.6	46.9	65.1	39.6	45.0	38.4
MAX	173	478	391	169	199	70	62	101	76	54	84	53
MIN	33	57	55	50	61	57	38	38	45	34	36	35
AC-FT	3,130	8,230	7,240	4,280	5,050	3,780	2,480	2,880	3,880	2,440	2,760	2,280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	99.1	146	135	114	162	98.0	100	35.2	150	64.8	30.2	56.1
MAX	230	172	166	192	372	210	152	46.9	352	96.6	45.0	71.4
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2004)	(2002)	(2002)	(2004)	(2002)
MIN	16.9	129	118	69.6	27.8	22.1	41.6	29.2	31.4	39.6	11.4	38.4
(WY)	(2002)	(2002)	(2004)	(2004)	(2002)	(2002)	(2004)	(2002)	(2003)	(2004)	(2003)	(2004)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	41,255.5		24,415			
ANNUAL MEAN	113		66.7		98.6	
HIGHEST ANNUAL MEAN					135	2003
LOWEST ANNUAL MEAN					66.7	2004
HIGHEST DAILY MEAN	864	Feb 4	478	Nov 23	864	Feb 4, 2003
LOWEST DAILY MEAN	3.4	Aug 27	33	Oct 1	3.4	Aug 27, 2003
ANNUAL SEVEN-DAY MINIMUM	4.4	Aug 21	33	Oct 1	4.1	Oct 2, 2001
ANNUAL RUNOFF (AC-FT)	81,830		48,430		71,400	
10 PERCENT EXCEEDS	288		90		238	
50 PERCENT EXCEEDS	56		56		49	
90 PERCENT EXCEEDS	19		37		20	

12116500 CEDAR RIVER AT CEDAR FALLS, WA

LOCATION.--Lat 47°25'02", long 121°47'27", in SW $\frac{1}{4}$ SE $\frac{1}{4}$, sec.4, T.22 N., R.8 E., King County, Hydrologic Unit 17110012, Snoqualmie National Forest, on right bank 0.5 mi downstream from Seattle municipal powerplant at town of Cedar Falls, 4.0 mi downstream from Chester Morse Lake, and at mile 33.2.

DRAINAGE AREA.--84.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1914 to current year.

REVISED RECORDS.--WSP 722: 1930. WSP 1286: 1934(M), drainage area. WDR-WA-96-1: 1991(M).

GAGE.--Water-stage recorder. Datum of gage is 902.1 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. All diversions are returned to river upstream from station. Flow regulated by Chester Morse Lake (station 12115900) and Cedar Lake (station 12116060). U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--90 years (water years 1915-2004), 319 ft³/s, 231,200 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,120 ft³/s, Nov. 24, 1990, gage height, 14.00 ft, from floodmark, from rating curve extended above 5,000 ft³/s; no flow part or all of each day Nov. 25, 1917, Aug. 18, 1923, Sept. 30 to Oct. 5, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,110 ft³/s, Dec. 2, 3, gage height, 7.57 ft; minimum discharge, 32 ft³/s, July 13, gage height, 5.19 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	229	789	218	639	272	279	125	70	156	37	169
2	118	229	997	215	818	563	280	128	67	152	37	169
3	142	240	1,020	215	899	404	258	130	67	166	36	148
4	174	292	765	232	847	401	258	153	68	166	36	59
5	176	330	512	249	844	518	256	191	73	164	36	58
6	212	331	464	298	841	531	235	191	78	162	36	59
7	269	331	520	359	845	610	234	193	81	146	35	50
8	321	331	727	347	845	567	233	192	85	57	35	35
9	346	334	939	258	814	376	233	192	87	38	37	35
10	373	331	936	184	589	249	233	192	107	37	37	46
11	396	304	892	183	392	197	234	193	189	36	37	103
12	397	292	749	191	257	206	237	191	133	34	37	220
13	397	292	610	204	249	227	237	122	134	39	36	239
14	399	292	595	175	250	246	234	118	134	40	35	247
15	431	284	587	127	247	245	186	118	136	38	37	299
16	395	256	577	112	188	288	197	119	136	37	41	348
17	223	256	458	94	184	344	142	120	136	37	41	358
18	223	274	323	102	184	360	106	118	136	36	41	498
19	222	260	315	107	168	331	82	119	134	35	40	543
20	236	597	316	110	167	320	84	136	134	35	40	550
21	298	902	321	149	166	321	84	153	132	34	40	550
22	339	974	317	168	164	323	87	152	131	36	43	528
23	403	1,100	316	197	163	323	88	110	146	38	77	451
24	444	1,090	317	213	163	256	87	124	174	37	193	399
25	438	1,080	317	244	173	234	88	175	171	37	222	322
26	434	938	320	362	191	235	89	209	169	37	202	309
27	407	705	319	782	212	233	113	159	166	36	195	311
28	334	721	318	558	229	232	135	100	164	35	186	313
29	340	705	316	234	229	239	126	123	161	36	181	321
30	317	681	311	311	---	266	125	93	159	37	178	327
31	206	---	284	486	---	281	---	79	---	37	173	---
TOTAL	9,527	14,981	16,547	7,684	11,957	10,198	5,260	4,518	3,758	2,011	2,437	8,064
MEAN	307	499	534	248	412	329	175	146	125	64.9	78.6	269
MAX	444	1,100	1,020	782	899	610	280	209	189	166	222	550
MIN	117	229	284	94	163	197	82	79	67	34	35	35
AC-FT	18,900	29,710	32,820	15,240	23,720	20,230	10,430	8,960	7,450	3,990	4,830	15,990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2004, BY WATER YEAR (WY)

MEAN	166	352	523	491	425	357	361	386	381	185	111	104
MAX	547	1,780	2,197	1,393	1,256	1,324	767	868	1,419	814	424	324
(WY)	(1960)	(1991)	(1918)	(1918)	(1982)	(1972)	(2002)	(1997)	(1917)	(1917)	(1954)	(1959)
MIN	34.7	24.9	47.7	133	95.0	89.0	75.3	59.5	46.3	24.5	20.2	28.3
(WY)	(1953)	(1953)	(1953)	(1952)	(1988)	(1941)	(1995)	(1992)	(1963)	(1926)	(2001)	(1957)

12116500 CEDAR RIVER AT CEDAR FALLS, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1914 - 2004	
ANNUAL TOTAL	105,518.2		96,942			
ANNUAL MEAN	289		265		319	
HIGHEST ANNUAL MEAN					567	
LOWEST ANNUAL MEAN					93.0	
HIGHEST DAILY MEAN	1,100	Nov 23	1,100	Nov 23	7,440	Nov 25, 1990
LOWEST DAILY MEAN	6.0	Aug 20	34	Jul 12	0.00	Sep 30, 1987
ANNUAL SEVEN-DAY MINIMUM	6.6	Aug 14	36	Jul 16	0.04	Sep 29, 1987
ANNUAL RUNOFF (AC-FT)	209,300		192,300		231,200	
10 PERCENT EXCEEDS	748		570		694	
50 PERCENT EXCEEDS	201		212		226	
90 PERCENT EXCEEDS	33		38		60	

12116500 CEDAR RIVER AT CEDAR FALLS, WA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1999 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: March 1999 to current year.

REMARKS.--Records excellent.

INSTRUMENTATION.--Temperature recorder since March 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 21.6°C, Aug. 4, 2003; minimum, 0.5°C, Jan. 7, 2004.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 20.1°C, Aug. 23, 24; minimum, 0.5°C, Jan. 7.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.1	15.5	15.8	8.7	8.5	8.6	5.4	5.2	5.3	2.4	2.1	2.2
2	15.9	15.5	15.7	8.5	7.9	8.2	5.4	5.2	5.3	2.3	2.1	2.3
3	15.7	15.2	15.4	7.9	7.5	7.8	5.3	4.9	5.1	2.3	2.0	2.2
4	15.5	15.2	15.4	7.5	7.1	7.3	5.0	4.7	4.9	2.0	1.7	1.9
5	15.4	15.2	15.3	7.1	6.5	6.8	5.1	4.8	4.9	1.7	1.3	1.5
6	15.5	14.9	15.2	6.5	5.9	6.2	4.9	4.5	4.7	1.3	0.8	1.1
7	15.5	15.0	15.3	5.9	5.8	5.9	4.7	4.4	4.5	0.9	0.5	0.8
8	15.0	14.2	14.6	6.0	5.7	5.9	4.7	4.5	4.6	1.0	0.7	0.8
9	14.2	13.9	14.1	6.1	5.9	6.0	4.5	4.2	4.4	1.5	1.0	1.2
10	13.9	13.7	13.8	6.3	6.1	6.2	4.2	4.0	4.1	1.9	1.5	1.8
11	13.8	13.2	13.6	6.4	6.3	6.4	4.2	4.0	4.1	2.2	1.8	2.0
12	13.2	13.1	13.2	6.5	6.2	6.4	4.1	4.0	4.0	2.4	2.1	2.2
13	13.4	13.0	13.2	6.4	6.1	6.2	4.0	3.9	4.0	2.3	2.1	2.2
14	13.4	12.8	13.1	6.3	6.1	6.2	4.0	3.9	3.9	3.1	2.2	2.5
15	12.8	11.8	12.2	6.4	6.3	6.3	4.0	3.9	3.9	4.3	3.1	3.7
16	12.0	11.8	11.8	6.3	6.2	6.3	4.0	3.9	3.9	4.2	3.6	3.9
17	12.6	12.0	12.4	6.4	6.2	6.3	4.0	3.9	4.0	3.9	3.5	3.7
18	12.4	12.0	12.2	7.7	6.4	7.0	4.3	4.0	4.2	3.8	3.5	3.7
19	12.2	12.0	12.1	7.7	5.4	6.2	4.3	4.1	4.2	3.7	3.4	3.5
20	12.4	11.9	12.2	6.0	5.8	5.9	4.2	4.1	4.2	3.4	2.6	3.0
21	12.5	10.8	11.5	5.9	5.5	5.7	4.3	4.1	4.2	2.8	2.5	2.6
22	12.5	11.8	12.2	5.6	5.4	5.5	4.3	4.0	4.2	2.7	2.5	2.6
23	11.9	11.5	11.8	5.7	5.6	5.6	4.2	4.0	4.1	3.1	2.6	2.9
24	11.5	10.9	11.2	5.6	5.5	5.6	4.1	4.0	4.0	3.1	2.5	2.8
25	11.0	10.7	10.8	5.6	5.4	5.5	4.0	3.8	4.0	2.7	2.3	2.6
26	10.9	10.7	10.7	5.5	5.3	5.4	3.8	3.7	3.8	2.5	2.1	2.2
27	11.0	10.7	10.8	5.4	5.3	5.3	3.7	3.3	3.5	2.2	2.1	2.1
28	11.0	10.7	10.9	5.4	5.2	5.3	3.4	3.2	3.3	2.9	2.2	2.5
29	10.7	10.1	10.5	5.5	5.4	5.4	3.2	2.5	2.8	5.3	2.9	4.6
30	10.1	9.4	9.8	5.4	5.2	5.3	2.6	2.3	2.5	5.1	3.1	3.8
31	9.4	8.5	8.9	---	---	---	2.5	2.3	2.4	3.1	2.7	3.0
MONTH	16.1	8.5	12.8	8.7	5.2	6.2	5.4	2.3	4.1	5.3	0.5	2.5

12117000 TAYLOR CREEK NEAR SELLECK, WA

LOCATION.--Lat 47°23'12", long 121°50'42", in NW¹/₄NW¹/₄, sec.19, T.22 N., R.8 E., King County, Hydrologic Unit 17110012, Snoqualmie National Forest, on left bank 0.6 mi upstream from mouth, and 1.3 mi northeast of Selleck.

DRAINAGE AREA.--17.2 mi².

PERIOD OF RECORD.--June to October 1945, August 1956 to current year.

REVISED RECORDS.--WSP 1932: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 940 ft above NGVD of 1929, from topographic map. June to October 1945 on right bank 350 ft downstream at different datum.

REMARKS.--Records good, except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--48 years (water years 1957-2004), 96.5 ft³/s, 76.25 in/yr, 69,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,130 ft³/s, Feb. 8, 1996, gage height, 5.53 ft, from rating curve extended above 900 ft³/s; minimum discharge, 15 ft³/s, Oct. 3, 4, 7-14, 1979, Oct. 28-31, Nov. 3-10, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 21	0045	907	4.12	Nov 29	0400	451	3.52
Nov 18	0545	495	3.60	Jan 29	1800	*1,110	*4.32

Minimum discharge, 17 ft³/s, Oct. 1-8, gage height, 1.84 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	40	157	76	236	91	77	45	136	44	28	47
2	17	38	140	73	194	88	74	44	111	43	28	55
3	17	37	155	72	173	95	72	43	95	45	27	47
4	17	35	128	68	171	124	70	46	84	43	27	42
5	17	34	182	e60	151	130	68	47	88	41	27	39
6	17	33	168	e54	149	116	66	43	100	42	32	37
7	18	32	141	e58	149	112	65	42	94	46	44	35
8	19	32	130	74	142	117	62	44	86	42	30	33
9	24	31	118	86	134	128	60	43	81	40	28	38
10	24	55	109	102	130	121	59	43	86	44	27	34
11	20	54	103	95	125	111	58	58	79	49	26	108
12	36	41	115	97	120	103	58	46	75	40	25	70
13	26	39	166	102	115	96	57	44	93	38	25	69
14	20	37	152	118	122	93	61	41	82	36	25	63
15	20	39	129	232	119	90	60	41	76	35	24	86
16	70	64	121	224	120	86	62	43	72	35	24	91
17	39	62	112	160	118	85	59	41	68	34	24	104
18	28	362	104	146	125	90	56	40	65	34	23	95
19	26	258	100	137	130	87	55	38	62	33	23	83
20	174	164	107	122	120	82	59	38	59	33	23	75
21	469	122	114	110	113	79	55	38	56	33	23	65
22	138	98	103	103	107	77	53	51	55	32	36	61
23	103	97	99	148	103	75	57	48	54	31	34	59
24	71	106	100	192	100	88	56	43	54	30	114	54
25	57	102	100	150	97	85	52	43	53	30	158	51
26	48	98	93	146	94	84	50	138	50	30	117	48
27	43	88	90	139	97	89	50	130	48	30	126	45
28	49	165	87	191	102	83	53	183	47	29	78	43
29	54	353	84	654	96	80	49	286	45	29	60	42
30	46	213	79	566	---	86	46	204	44	29	50	41
31	41	---	78	320	---	82	---	174	---	28	43	---
TOTAL	1,765	2,929	3,664	4,875	3,752	2,953	1,779	2,208	2,198	1,128	1,379	1,760
MEAN	56.9	97.6	118	157	129	95.3	59.3	71.2	73.3	36.4	44.5	58.7
MAX	469	362	182	654	236	130	77	286	136	49	158	108
MIN	17	31	78	54	94	75	46	38	44	28	23	33
AC-FT	3,500	5,810	7,270	9,670	7,440	5,860	3,530	4,380	4,360	2,240	2,740	3,490
CFSM	3.31	5.68	6.87	9.14	7.52	5.54	3.45	4.14	4.26	2.12	2.59	3.41
IN.	3.82	6.33	7.92	10.54	8.11	6.39	3.85	4.78	4.75	2.44	2.98	3.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2004, BY WATER YEAR (WY)

MEAN	47.6	112	149	166	150	126	122	101	74.7	47.5	32.0	33.6
MAX	132	317	291	285	337	313	193	158	171	91.3	56.3	128
(WY)	(1960)	(1991)	(1976)	(1997)	(1996)	(1972)	(2002)	(1971)	(1964)	(1993)	(1968)	(1959)
MIN	16.5	21.0	41.1	62.3	55.2	68.5	59.3	52.5	34.4	25.6	19.6	17.9
(WY)	(1988)	(1988)	(2003)	(1988)	(1977)	(1992)	(2004)	(1992)	(1992)	(1958)	(1958)	(1998)

12117000 TAYLOR CREEK NEAR SELLECK, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1956 - 2004	
ANNUAL TOTAL	31,312		30,390		96.5	
ANNUAL MEAN	85.8		83.0		141	
HIGHEST ANNUAL MEAN					1972	
LOWEST ANNUAL MEAN					59.5	
HIGHEST DAILY MEAN	677	Jan 31	654	Jan 29	2,190	Feb 8, 1996
LOWEST DAILY MEAN	17	Sep 4	17	Oct 1	15	Oct 3, 1979
ANNUAL SEVEN-DAY MINIMUM	17	Sep 25	17	Oct 1	15	Oct 7, 1979
ANNUAL RUNOFF (AC-FT)	62,110		60,280		69,930	
ANNUAL RUNOFF (CFSM)	4.99		4.83		5.61	
ANNUAL RUNOFF (INCHES)	67.72		65.73		76.25	
10 PERCENT EXCEEDS	168		147		182	
50 PERCENT EXCEEDS	64		65		77	
90 PERCENT EXCEEDS	19		29		25	

e Estimated

12117500 CEDAR RIVER NEAR LANDSBURG, WA

LOCATION.--Lat 47°23'38", long 121°57'12", on west line NW $\frac{1}{4}$ SW $\frac{1}{4}$, sec.17, T.22 N., R.7 E., King County, Hydrologic Unit 17110012, on left bank 1.8 mi upstream from intake of Seattle water-supply system near Landsburg, 4.0 mi east of Maple Valley, 5.9 mi downstream from Taylor Creek, and at mile 23.4.

DRAINAGE AREA.--121 mi², excludes Walsh Lake diversion, which enters Cedar River at mile 19.5, and excludes 1.9 mi² of Walsh Lake drainage in Cedar River basin, which is normally diverted into Issaquah Creek.

PERIOD OF RECORD.--August 1895 to current year (prior to October 1948, flow of Rock Creek included). Monthly discharge only for some periods, published in WSP 1316. Published as "near Seattle" 1895-98, "near Maple Valley" 1902, and as "near Ravensdale" 1898-1901, 1903-12.

REVISED RECORDS.--WSP 313: 1895-98, 1902-09. WSP 1286: 1912. WSP 1316: 1896-98(M), 1902-11(M). WSP 1736: 1960. WSP 1932: 1947, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 565.9 ft above NGVD of 1929. Prior to Oct. 1, 1898, nonrecording gage at site 2.2 mi downstream at different datum. Mar. 24, 1901, to May 15, 1913, nonrecording gage at site 2 mi downstream at datum 535.84 ft NGVD of 1929 (levels by City of Seattle). Apr. 30, 1914, to Oct. 22, 1928, water-stage recorder 0.2 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. All diversions except Rock Creek returned to river upstream from station. Rock Creek, a tributary which entered naturally just upstream from station prior to 1932, is diverted during summer months to enter river at a point about 3.9 mi downstream from station. Some regulation by Chester Morse Lake (station 12115900) and Cedar Lake (station 12116060), 12.2 mi upstream. Chemical analyses July 1959 to July 1960. Water temperatures published August 1953 to September 1985. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--109 years (water years 1896-2004), 687 ft³/s, 497,700 acre-ft/yr, unadjusted, includes data published in WSP 1316.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,200 ft³/s, Nov. 19, 1911, gage height, 10.0 ft, from graph based on gage readings, site and datum then in use, by computation of peak flow over dam, peak caused by failure of flashboards at Chester Morse Lake; minimum discharge observed, 83 ft³/s, Sept. 19, 1898.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,090 ft³/s, Jan. 29, gage height, 3.68 ft; minimum discharge, 275 ft³/s, Oct. 2, gage height, 1.09 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	281	437	1,180	514	1,260	614	621	398	525	464	310	472
2	280	431	1,340	504	1,370	919	616	396	478	459	310	481
3	291	431	1,450	499	1,440	812	595	396	451	472	307	465
4	330	475	1,150	505	1,400	831	587	412	431	474	307	366
5	332	520	984	518	1,360	944	584	463	437	469	307	351
6	354	522	903	557	1,350	950	563	459	487	468	312	344
7	423	520	890	627	1,350	1,030	556	460	468	471	331	337
8	471	518	1,070	653	1,340	1,020	551	464	454	383	309	315
9	516	517	1,280	580	1,300	832	546	465	444	350	307	320
10	542	542	1,270	541	1,100	693	544	463	453	353	305	312
11	563	528	1,230	523	881	611	542	488	530	363	303	482
12	587	489	1,120	528	719	596	542	469	487	342	303	528
13	579	482	1,060	552	683	608	542	410	503	338	302	572
14	572	478	1,040	565	691	623	547	388	488	338	300	565
15	598	478	982	683	680	617	504	387	479	335	298	630
16	659	476	958	679	630	639	511	390	475	335	303	727
17	455	475	818	555	611	706	464	388	468	334	302	715
18	414	916	672	534	612	734	417	383	465	330	300	887
19	407	801	637	530	599	709	386	382	459	326	298	922
20	601	955	643	495	582	684	389	391	456	326	296	924
21	1,340	1,220	658	511	571	678	383	409	451	322	297	903
22	746	1,230	638	513	561	674	377	433	448	319	321	878
23	725	1,360	629	617	551	676	383	400	455	322	334	773
24	717	1,440	633	749	544	633	383	386	488	318	604	710
25	686	1,400	636	686	545	599	374	433	488	318	691	618
26	665	1,290	624	773	564	600	371	662	483	318	625	587
27	640	1,010	619	1,190	589	601	383	622	479	318	622	584
28	551	1,110	617	1,130	618	587	419	665	476	313	540	580
29	568	1,480	609	1,600	609	586	405	852	470	311	508	586
30	544	1,190	599	1,500	---	617	400	665	468	314	487	590
31	426	---	588	1,260	---	631	---	600	---	311	474	---
TOTAL	16,863	23,721	27,527	21,671	25,110	22,054	14,485	14,579	14,144	11,214	11,613	17,524
MEAN	544	791	888	699	866	711	483	470	471	362	375	584
MAX	1,340	1,480	1,450	1,600	1,440	1,030	621	852	530	474	691	924
MIN	280	431	588	495	544	586	371	382	431	311	296	312
AC-FT	33,450	47,050	54,600	42,980	49,810	43,740	28,730	28,920	28,050	22,240	23,030	34,760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2004, BY WATER YEAR (WY)

MEAN	394	725	952	973	899	794	780	786	738	481	347	323
MAX	1,015	2,371	3,126	2,198	2,009	2,233	1,498	1,412	1,795	1,077	735	716
(WY)	(1960)	(1991)	(1934)	(1918)	(1982)	(1972)	(1897)	(1897)	(1917)	(1917)	(1954)	(1959)
MIN	141	141	179	369	368	360	335	306	320	262	124	127
(WY)	(1905)	(1896)	(1953)	(1988)	(1988)	(1941)	(1941)	(1915)	(1992)	(1898)	(1898)	(1898)

12117500 CEDAR RIVER NEAR LANDSBURG, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1895 - 2004	
ANNUAL TOTAL	217,432		220,505			
ANNUAL MEAN	596		602		681	
HIGHEST ANNUAL MEAN					1,066	1897
LOWEST ANNUAL MEAN					340	1941
HIGHEST DAILY MEAN	1,630	Mar 12	1,600	Jan 29	13,600	Nov 19, 1911
LOWEST DAILY MEAN	221	Aug 20	280	Oct 2	83	Sep 19, 1898
ANNUAL SEVEN-DAY MINIMUM	225	Aug 15	299	Aug 15	87	Sep 13, 1898
ANNUAL RUNOFF (AC-FT)	431,300		437,400		493,400	
10 PERCENT EXCEEDS	1,210		1,030		1,170	
50 PERCENT EXCEEDS	463		542		565	
90 PERCENT EXCEEDS	279		322		289	

12117600 CEDAR RIVER BELOW DIVERSION, NEAR LANDSBURG, WA

LOCATION.--Lat 47°22'47", long 121°58'56", in SE $\frac{1}{4}$ NW $\frac{1}{4}$, sec.24, T.22 N., R.6 E., King County, Hydrologic Unit 17110012, on right bank 0.8 mi northeast of the Issaquah-Ravensdale road bridge, 0.9 mi northwest of Landsburg, and at mile 20.4.

DRAINAGE AREA.--124 mi², excludes Walsh Lake diversion, which enters Cedar River at mile 19.5, and excludes 1.9 mi of Walsh Lake drainage in Cedar River basin, which is normally diverted into Issaquah Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 490 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow is regulated by Chester Morse Lake (station 12115900) and Cedar Lake (station 12116060) 15 mi upstream for operation of powerplant at Cedar Falls 13.1 mi upstream from station. Seattle City Water diversion 1.5 mi upstream from the gage diverted an average discharge of about 137 ft³/s during the water year. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--12 years (water years 1993-2004), 520 ft³/s, 376,400 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,560 ft³/s, Nov. 30, 1995, gage height, 10.32 ft, from rating curve extended above 2,000 ft³/s; maximum gage height, 10.70 ft, Nov. 30, 1995, from outside high-water mark; minimum discharge, 45 ft³/s, Sept. 9, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,260 ft³/s, Jan. 29, gage height, 6.48 ft; minimum discharge, 76 ft³/s, Aug. 9, gage height, 2.46 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	346	1,160	448	1,280	598	458	270	301	219	100	140
2	217	344	1,210	444	1,370	915	459	270	259	206	99	149
3	220	345	1,350	450	1,420	809	459	268	256	217	91	137
4	219	347	1,110	452	1,230	822	457	267	258	217	96	116
5	220	346	935	511	1,130	932	458	266	261	212	90	114
6	234	346	825	517	1,110	933	455	265	275	210	98	109
7	275	345	808	467	1,110	952	460	267	264	218	117	106
8	290	349	977	505	1,100	856	458	266	258	187	95	95
9	294	372	1,180	482	1,120	666	458	264	279	157	94	100
10	307	412	1,170	465	985	538	459	268	331	162	93	94
11	342	384	1,140	517	768	463	461	267	403	173	97	382
12	364	342	1,010	443	590	456	461	265	368	155	101	407
13	351	344	961	460	557	457	460	265	381	152	100	413
14	342	346	943	469	563	461	465	265	362	134	105	405
15	351	376	884	705	550	457	422	268	311	131	112	464
16	501	393	856	681	504	458	372	266	279	130	113	584
17	437	382	723	457	472	465	366	265	246	130	112	539
18	338	886	582	459	470	482	338	264	251	129	114	713
19	337	812	589	450	480	461	309	266	248	131	127	746
20	516	951	595	435	482	453	301	260	246	130	123	754
21	1,400	1,190	610	446	471	463	298	256	248	128	115	743
22	765	1,120	589	450	460	464	274	258	250	115	141	733
23	740	1,250	572	487	456	461	275	255	253	116	145	629
24	675	1,270	561	620	457	470	273	255	249	116	468	536
25	466	1,200	566	526	461	463	274	257	246	115	660	454
26	440	1,080	553	628	459	466	273	518	237	114	607	428
27	420	867	550	1,080	461	466	272	578	231	105	580	434
28	345	979	555	1,050	475	458	266	552	229	102	342	421
29	354	1,480	554	1,650	476	461	264	842	230	101	198	390
30	340	1,200	555	1,540	---	466	268	597	234	101	156	375
31	353	---	546	1,280	---	458	---	434	---	100	142	---
TOTAL	12,671	20,404	25,219	19,574	21,467	17,730	11,273	10,124	8,244	4,613	5,631	11,710
MEAN	409	680	814	631	740	572	376	327	275	149	182	390
MAX	1,400	1,480	1,350	1,650	1,420	952	465	842	403	219	660	754
MIN	217	342	546	435	456	453	264	255	229	100	90	94
AC-FT	25,130	40,470	50,020	38,830	42,580	35,170	22,360	20,080	16,350	9,150	11,170	23,230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

MEAN	340	666	878	819	758	612	598	494	409	234	135	183
MAX	417	1,490	1,755	1,736	1,865	1,232	1,153	1,098	937	509	194	390
(WY)	(1996)	(1996)	(2000)	(1999)	(1996)	(1997)	(2002)	(1997)	(2002)	(1997)	(1993)	(2004)
MIN	256	293	296	295	277	298	287	237	196	107	96.5	119
(WY)	(1995)	(2003)	(2003)	(2001)	(2001)	(2001)	(1995)	(1992)	(1992)	(1992)	(1992)	(1995)

12117600 CEDAR RIVER BELOW DIVERSION, NEAR LANDSBURG, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1992 - 2004	
ANNUAL TOTAL	175,711		168,660			
ANNUAL MEAN	481		461		520	
HIGHEST ANNUAL MEAN					826	
LOWEST ANNUAL MEAN					294	
HIGHEST DAILY MEAN	1,670	Mar 12	1,650	Jan 29	6,170	Nov 30, 1995
LOWEST DAILY MEAN	86	Sep 5	90	Aug 5	78	Aug 8, 1992
ANNUAL SEVEN-DAY MINIMUM	88	Aug 31	96	Jul 31	85	Sep 4, 1995
ANNUAL RUNOFF (AC-FT)	348,500		334,500		376,400	
10 PERCENT EXCEEDS	1,110		951		1,120	
50 PERCENT EXCEEDS	328		420		350	
90 PERCENT EXCEEDS	111		121		141	

12117600 CEDAR RIVER BELOW DIVERSION, NEAR LANDSBURG, WA—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 2001 to current year.

INSTRUMENTATION.--Temperature recorder since May 2001.

REMARKS.--Records excellent, except for Aug. 6 to Sept. 30, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 16.3°C, July 18, 2003; minimum, 2.9°C, Jan. 7, 2004.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 15.8°C, July 23 and 24, but may have been higher during instrument malfunction Aug. 6 to Sept. 30; minimum, 2.9°C, Jan. 7.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.4	11.2	11.8	8.3	7.4	7.8	6.6	6.2	6.5	5.4	5.2	5.3
2	12.1	11.5	11.8	8.3	7.5	8.0	6.7	6.4	6.5	5.8	5.2	5.5
3	12.5	11.6	12.0	7.7	6.9	7.2	6.4	5.8	6.1	5.7	4.8	5.3
4	12.3	11.4	11.9	7.2	6.7	7.0	6.1	5.7	5.9	4.9	4.0	4.4
5	12.5	12.0	12.2	7.0	6.5	6.8	6.7	6.1	6.4	4.1	3.7	3.9
6	13.1	12.0	12.5	6.9	6.3	6.6	6.7	6.3	6.6	3.8	3.2	3.6
7	13.5	12.6	13.0	7.4	6.5	7.0	6.5	6.0	6.2	4.2	2.9	3.4
8	12.9	12.1	12.5	7.5	7.1	7.3	6.3	5.7	6.1	4.6	4.1	4.2
9	12.5	11.9	12.1	7.9	7.4	7.7	5.9	5.4	5.7	5.2	4.6	5.0
10	12.5	11.7	12.0	7.9	7.6	7.8	5.7	5.5	5.6	5.8	5.2	5.5
11	12.3	11.7	12.0	8.3	7.9	8.1	5.8	5.5	5.6	6.2	5.4	5.8
12	12.2	11.7	11.9	7.9	7.3	7.5	5.9	5.5	5.7	6.5	5.9	6.2
13	12.4	11.7	12.0	7.3	6.7	7.0	5.9	5.7	5.8	6.5	5.9	6.2
14	12.3	11.5	11.9	7.9	7.1	7.6	5.9	5.6	5.7	6.6	6.3	6.4
15	11.7	10.9	11.3	8.0	7.7	7.8	6.0	5.7	5.9	6.7	6.1	6.6
16	11.4	11.0	11.2	7.9	7.7	7.8	6.1	5.7	5.9	6.7	6.1	6.4
17	12.3	11.4	11.7	7.9	7.7	7.8	6.1	5.7	6.0	7.2	6.4	6.8
18	11.6	10.8	11.2	8.6	7.8	8.2	6.7	5.9	6.4	7.3	7.1	7.2
19	11.8	11.0	11.4	8.7	6.4	7.2	7.0	6.4	6.7	7.5	6.9	7.2
20	12.6	11.3	11.7	6.7	6.1	6.4	7.1	6.7	6.9	7.2	6.3	6.6
21	12.7	11.8	12.1	6.4	5.8	6.2	7.0	6.6	6.9	6.6	5.8	6.2
22	12.0	11.7	11.9	6.1	5.7	5.9	6.8	6.2	6.5	6.9	6.0	6.4
23	11.7	10.9	11.2	6.4	6.1	6.3	6.9	6.5	6.7	6.9	6.5	6.7
24	10.9	10.2	10.5	6.4	6.2	6.3	6.9	6.7	6.8	6.7	5.7	6.2
25	10.6	9.8	10.2	6.5	6.2	6.4	6.8	6.4	6.6	6.3	5.6	5.9
26	10.7	9.9	10.3	6.5	6.2	6.3	6.4	6.0	6.2	5.9	5.5	5.8
27	11.0	10.1	10.6	6.6	6.2	6.4	6.0	5.7	5.9	5.5	4.6	4.8
28	11.1	10.4	10.8	6.5	6.4	6.4	6.0	5.6	5.8	5.9	4.7	5.2
29	10.4	9.6	10.0	6.9	6.4	6.7	5.6	4.8	5.2	6.8	5.9	6.4
30	9.6	8.3	8.9	6.6	6.1	6.2	5.2	4.6	4.9	6.9	5.8	6.4
31	8.3	7.6	7.7	---	---	---	5.3	4.8	5.1	6.1	5.5	5.9
MONTH	13.5	7.6	11.4	8.7	5.7	7.1	7.1	4.6	6.1	7.5	2.9	5.7

12117600 CEDAR RIVER BELOW DIVERSION, NEAR LANDSBURG, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	5.7	5.2	5.5	7.7	6.8	7.2	8.8	7.2	8.0	12.8	10.1	11.5
2	5.3	4.8	5.1	6.9	5.5	6.1	9.4	6.9	8.2	12.4	10.5	11.3
3	5.3	4.8	5.0	6.4	5.7	6.1	10.3	7.7	9.0	12.6	10.0	11.3
4	5.2	4.9	5.1	6.6	6.3	6.4	9.6	8.3	8.9	11.7	10.4	10.8
5	5.1	4.5	4.8	6.3	5.8	6.1	9.2	8.0	8.6	11.7	9.8	10.6
6	5.2	5.0	5.1	6.3	5.7	6.0	9.8	8.2	9.0	12.5	9.4	10.9
7	5.3	5.0	5.1	6.3	5.8	6.1	9.6	8.5	9.0	11.7	10.3	11.0
8	5.3	4.8	5.1	7.0	6.0	6.5	10.2	8.0	9.1	11.3	10.3	10.8
9	5.0	4.6	4.8	7.4	6.7	7.1	10.6	7.9	9.2	12.6	9.9	11.1
10	5.4	4.6	5.0	7.8	6.6	7.2	11.0	8.3	9.6	11.3	9.7	10.4
11	6.3	5.2	5.8	8.2	6.8	7.5	11.7	8.9	10.2	11.2	10.0	10.4
12	6.8	5.9	6.3	8.0	7.2	7.7	10.7	9.3	10.0	11.9	10.2	10.9
13	7.1	6.2	6.6	8.2	6.7	7.5	10.7	9.3	9.9	12.6	9.7	11.2
14	7.2	6.6	6.9	8.0	7.5	7.8	10.1	9.1	9.5	13.1	9.8	11.4
15	7.1	6.6	6.8	8.0	7.6	7.8	9.9	8.8	9.3	11.8	10.1	10.7
16	7.1	6.4	6.8	8.5	7.4	7.8	10.1	8.8	9.5	11.7	10.2	10.8
17	7.3	6.6	6.9	8.0	7.4	7.6	10.7	9.0	9.7	12.5	10.0	11.2
18	7.6	7.0	7.3	7.6	6.7	7.3	10.6	9.1	9.8	13.0	10.3	11.7
19	7.8	7.2	7.5	7.7	6.6	7.1	10.6	8.7	9.7	12.1	10.8	11.2
20	7.3	6.5	6.9	8.2	6.3	7.3	10.8	9.1	9.9	11.5	10.6	11.1
21	7.5	6.3	7.0	8.8	7.2	8.0	10.5	9.0	9.7	11.3	10.7	11.0
22	7.6	6.8	7.2	8.8	7.6	8.2	11.7	8.6	10.1	11.1	10.5	10.8
23	8.0	7.2	7.6	8.7	7.8	8.2	10.8	9.3	9.7	12.0	10.4	11.1
24	8.0	7.3	7.6	8.4	7.7	8.0	11.4	8.8	9.9	13.9	10.1	11.7
25	7.5	6.8	7.2	8.3	7.6	7.9	12.2	8.6	10.3	12.7	10.5	11.6
26	7.8	6.9	7.4	8.4	7.5	8.0	12.9	9.5	11.1	11.8	11.1	11.3
27	7.9	7.2	7.5	8.7	7.8	8.2	11.7	9.7	10.4	11.2	10.7	10.9
28	7.6	7.2	7.4	9.3	7.5	8.4	11.9	9.1	10.4	10.8	10.0	10.4
29	7.6	6.9	7.3	10.1	8.1	9.0	12.5	9.2	10.8	10.0	9.4	9.7
30	---	---	---	9.1	8.1	8.6	13.1	9.7	11.3	10.8	9.5	10.0
31	---	---	---	8.6	7.6	8.0	---	---	---	10.2	9.5	9.9
MONTH	8.0	4.5	6.4	10.1	5.5	7.4	13.1	6.9	9.7	13.9	9.4	10.9
	JUNE			JULY			AUGUST			SEPTEMBER		
1	11.8	9.4	10.5	14.1	11.5	12.7	15.2	11.6	13.4	14.6	13.5	14.0
2	13.2	9.7	11.3	13.2	11.6	12.4	14.3	11.6	12.9	13.7	12.8	13.3
3	13.8	10.2	11.9	13.5	11.7	12.5	13.3	11.9	12.6	---	---	---
4	14.0	10.6	12.2	13.8	11.9	12.7	13.3	11.7	12.5	13.6	11.9	12.5
5	12.6	10.9	11.5	15.0	11.8	13.2	13.2	11.6	12.4	13.3	11.5	12.3
6	11.8	10.2	11.0	13.6	12.0	12.4	12.4	11.4	11.9	12.8	11.0	12.0
7	10.9	10.2	10.5	13.3	11.7	12.5	13.4	11.5	12.2	13.2	11.1	12.1
8	13.5	10.2	11.6	13.7	11.6	12.5	14.9	11.1	12.9	12.8	11.0	11.9
9	12.3	10.8	11.2	12.5	11.2	11.7	15.2	11.7	13.4	12.9	11.4	12.0
10	11.1	10.4	10.7	12.5	10.9	11.6	15.1	12.1	13.6	12.7	10.6	11.8
11	11.0	10.1	10.6	14.4	10.9	12.4	15.2	12.0	13.6	13.7	12.0	12.7
12	12.1	10.1	11.1	14.9	10.9	12.8	15.1	12.0	13.7	13.6	11.9	12.8
13	11.8	10.5	11.1	14.8	11.5	13.1	15.0	11.9	13.5	13.7	12.7	13.2
14	11.5	10.2	10.8	14.5	11.6	13.1	13.8	12.1	12.9	13.6	12.9	13.1
15	13.6	10.0	11.6	13.5	11.6	12.5	14.8	11.7	13.1	13.3	12.5	12.9
16	14.2	10.2	12.1	15.2	11.3	13.1	14.3	12.0	13.2	13.6	12.9	13.2
17	14.5	10.8	12.6	14.1	11.7	13.0	14.8	12.0	13.3	13.3	12.3	12.8
18	14.1	11.2	12.6	14.3	11.6	12.9	14.5	12.0	13.3	13.3	12.8	13.0
19	14.3	10.9	12.4	13.3	11.8	12.6	15.0	12.0	13.4	13.4	12.7	13.0
20	14.7	10.8	12.6	13.7	11.7	12.6	14.6	12.0	13.3	13.7	12.7	13.1
21	14.9	11.0	12.9	15.1	11.3	13.0	13.5	12.1	12.8	13.5	12.5	12.9
22	14.8	11.3	12.9	15.5	11.5	13.5	12.7	12.1	12.4	13.3	12.5	12.9
23	13.4	11.6	11.9	15.8	11.9	13.8	---	---	---	13.3	12.6	12.9
24	11.9	11.3	11.6	15.8	12.1	14.0	14.7	12.5	13.9	13.2	12.1	12.6
25	13.1	11.3	12.1	14.3	12.1	13.0	14.3	13.7	14.0	13.1	12.0	12.5
26	14.7	11.2	12.8	14.9	11.4	13.1	---	---	---	12.9	12.1	12.5
27	14.3	11.3	12.8	15.0	11.5	13.2	14.3	13.2	13.8	13.1	11.7	12.4
28	14.9	11.1	12.9	15.0	11.7	13.4	14.9	13.4	14.0	13.1	11.9	12.5
29	15.0	11.3	13.1	15.4	11.8	13.6	15.4	13.4	14.3	12.8	11.6	12.3
30	14.7	11.5	13.0	14.0	12.0	12.7	15.5	13.1	14.2	12.8	12.1	12.4
31	---	---	---	15.0	11.5	13.2	15.5	13.2	14.3	---	---	---
MONTH	15.0	9.4	11.9	15.8	10.9	12.9	---	---	---	---	---	---

12118400 ROCK CREEK AT STATE HIGHWAY 516, NEAR RAVENSDALE, WA

LOCATION.--Lat 47°21'45", long 122°00'35", in NE $\frac{1}{4}$ SW $\frac{1}{4}$, sec.26, T.22 N., R.6 E., on left bank in Parshall Flume, upstream of State Hwy 516, 1.5 mi northeast of Ravensdale, King Co.

DRAINAGE AREA.--11.2 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--June 1956 to September 1962. May 2001 to current year. Published as "State Highway 5A" 1956-62.

GAGE.--Water-stage recorder. Datum of gage is 559.24 ft above NAVD of 1988 (levels from City of Kent). Prior to May 2001, recording gage at same site at different unknown datum above NGVD of 1929.

REMARKS.--Records fair. Diversions by City of Kent upstream of gage for municipal use may affect flow.

AVERAGE DISCHARGE.--9 years (water years 1956-1962, 2002-04), 15.1 ft³/s, 18.36 in/yr, 10,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 114 ft³/s, Dec. 16, 1959, gage height 2.89 ft, datum then in use; minimum, 1.7 ft³/s, Oct. 4, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s, Feb. 1, gage height, 2.18 ft; minimum discharge, 2.4 ft³/s, Aug. 21-24.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	5.4	9.6	11	37	16	8.9	5.2	6.3	5.2	3.2	2.6
2	3.2	5.5	10	10	35	16	8.7	5.2	6.5	5.1	3.1	2.6
3	3.2	5.5	11	8.9	33	16	8.6	5.0	7.0	5.0	3.0	2.5
4	3.2	5.6	11	8.4	33	16	8.5	4.8	7.1	4.7	3.0	2.5
5	3.3	5.6	9.8	8.5	32	15	8.4	4.5	7.4	4.5	3.0	2.5
6	3.2	5.6	12	7.6	31	16	8.3	4.4	7.7	4.5	3.1	2.6
7	3.2	5.6	12	7.5	30	16	8.2	4.3	7.9	4.4	3.0	2.6
8	3.3	5.7	13	7.5	30	15	7.9	4.3	7.9	4.3	3.0	2.6
9	3.5	5.8	15	8.0	29	15	7.7	4.3	7.9	4.0	2.8	2.6
10	3.8	5.9	17	8.9	27	15	7.3	4.2	7.9	4.0	2.8	2.6
11	3.8	5.8	16	9.2	27	14	7.1	4.4	7.8	3.9	2.7	2.9
12	3.9	5.8	17	9.3	25	15	7.0	4.4	7.8	3.8	2.6	2.9
13	3.5	5.8	18	9.9	24	14	6.9	4.3	7.8	3.8	2.6	2.9
14	3.4	5.8	19	9.7	24	14	6.8	4.0	7.7	3.9	2.6	2.9
15	3.5	5.8	19	11	23	14	6.6	4.0	7.6	3.7	2.6	3.1
16	3.4	5.9	19	10	23	13	6.4	4.0	7.4	3.6	2.6	3.1
17	3.7	5.9	19	10	22	12	6.3	4.1	7.3	3.5	2.7	3.0
18	3.6	6.7	18	11	22	12	6.2	4.2	7.1	3.5	3.0	3.0
19	3.6	7.8	15	11	21	12	6.2	4.0	6.9	3.6	3.2	3.2
20	5.2	7.9	15	11	21	12	6.0	3.9	6.6	3.5	3.2	3.1
21	8.1	7.3	15	11	24	11	6.0	3.8	6.5	3.5	2.6	3.1
22	6.6	7.0	14	11	22	11	5.7	3.8	6.5	3.5	2.5	3.1
23	5.9	6.8	14	11	19	11	5.6	3.8	6.7	3.5	2.5	3.1
24	5.5	6.6	14	13	19	11	5.5	3.6	6.7	3.4	2.9	3.1
25	5.2	7.1	14	14	18	11	5.4	3.6	6.4	3.2	3.0	3.1
26	5.2	6.9	13	14	18	11	5.4	4.0	6.3	3.2	3.1	3.1
27	5.0	7.0	13	15	17	10	5.4	4.2	6.0	3.9	3.2	3.1
28	4.9	8.0	12	15	17	10	5.1	4.8	5.7	3.9	3.0	3.2
29	4.9	9.0	12	23	17	9.6	5.0	6.4	5.4	3.2	2.7	3.2
30	5.1	9.5	12	34	---	9.5	5.2	6.5	5.2	3.7	2.6	3.1
31	5.2	---	11	37	---	9.2	---	6.3	---	3.3	2.6	---
TOTAL	132.3	194.6	439.4	386.4	720	402.3	202.3	138.3	209.0	120.8	88.5	87.0
MEAN	4.27	6.49	14.2	12.5	24.8	13.0	6.74	4.46	6.97	3.90	2.85	2.90
MAX	8.1	9.5	19	37	37	16	8.9	6.5	7.9	5.2	3.2	3.2
MIN	3.2	5.4	9.6	7.5	17	9.2	5.0	3.6	5.2	3.2	2.5	2.5
AC-FT	262	386	872	766	1,430	798	401	274	415	240	176	173
CFSM	0.38	0.58	1.27	1.11	2.22	1.16	0.60	0.40	0.62	0.35	0.25	0.26
IN.	0.44	0.65	1.46	1.28	2.39	1.34	0.67	0.46	0.69	0.40	0.29	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2004, BY WATER YEAR (WY)

MEAN	5.73	10.9	21.4	22.6	29.4	26.6	21.5	14.8	10.1	7.39	5.91	5.13
MAX	11.7	29.0	48.7	46.5	56.9	51.8	30.7	26.0	16.5	11.3	8.92	7.92
(WY)	(1960)	(1960)	(1960)	(1959)	(1961)	(1961)	(1961)	(1961)	(1960)	(1956)	(1956)	(1959)
MIN	2.93	3.33	3.68	4.64	11.0	13.0	6.74	4.46	5.75	3.30	2.43	1.96
(WY)	(2002)	(2003)	(2003)	(2003)	(1962)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)

12118400 ROCK CREEK AT STATE HIGHWAY 516, NEAR RAVENSDALE, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1956 - 2004	
ANNUAL TOTAL	3,715.0		3,120.9			
ANNUAL MEAN	10.2		8.53		15.1	
HIGHEST ANNUAL MEAN					23.9	1961
LOWEST ANNUAL MEAN					8.53	2004
HIGHEST DAILY MEAN	34	Mar 23	37	Jan 31	110	Dec 16, 1959
LOWEST DAILY MEAN	1.6	Sep 18	2.5	Aug 22	1.6	Nov 2, 2002
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 14	2.6	Aug 30	1.7	Sep 14, 2003
ANNUAL RUNOFF (AC-FT)	7,370		6,190		10,970	
ANNUAL RUNOFF (CFSM)	0.909		0.761		1.35	
ANNUAL RUNOFF (INCHES)	12.34		10.37		18.36	
10 PERCENT EXCEEDS	27		17		32	
50 PERCENT EXCEEDS	6.0		6.2		11	
90 PERCENT EXCEEDS	2.3		3.0		3.7	

e Estimated

12118400 ROCK CREEK AT STATE HIGHWAY 516, NEAR RAVENSDALE, WA—Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--

PRECIPITATION: October 2003 to September 2004.

INSTRUMENTATION.--Tipping bucket raingage. Electronic data logger with 15-minute recording interval.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--

PRECIPITATION.--Maximum daily precipitation, 4.13 in, Oct. 20.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
2	0.00	0.00	0.33	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.24
3	0.00	0.00	0.10	0.07	0.04	0.44	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.26	0.00	0.33	0.34	0.00	0.19	0.00	0.00	0.00	0.00
5	0.00	0.00	0.67	0.00	0.00	0.18	0.00	0.00	0.43	0.00	0.03	0.00
6	0.24	0.00	0.18	0.16	0.15	0.00	0.00	0.00	0.14	0.01	0.71	0.00
7	0.00	0.00	0.04	---	0.01	0.06	0.00	0.20	0.11	0.12	0.06	0.00
8	0.21	0.00	0.15	0.16	0.00	0.00	0.00	0.37	0.03	0.00	0.00	0.06
9	0.30	0.00	0.00	0.10	0.00	0.17	0.00	0.00	0.01	0.00	0.00	0.10
10	0.00	0.21	0.11	0.22	0.00	0.00	0.00	0.41	0.00	0.33	0.00	0.16
11	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.73
12	0.39	0.00	0.27	0.07	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.16
13	0.01	0.00	0.62	0.02	0.00	0.00	0.06	0.00	0.28	0.00	0.00	0.31
14	0.01	0.00	0.07	0.38	0.26	0.00	0.18	0.00	0.00	0.00	0.00	0.13
15	0.36	0.21	0.00	0.32	0.03	0.00	0.31	0.13	0.00	0.00	0.00	0.20
16	0.78	0.39	0.04	0.00	0.45	0.00	0.07	0.01	0.03	0.00	0.00	0.37
17	0.12	0.68	0.00	0.00	0.15	0.04	0.02	0.00	0.00	0.00	0.00	0.47
18	0.00	0.91	0.00	0.21	0.09	0.19	0.10	0.03	0.10	0.00	0.00	0.20
19	0.13	1.15	0.06	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.00	0.33
20	4.13	0.44	0.16	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
21	0.92	0.05	0.01	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.20	0.00
22	0.34	0.00	0.00	0.06	0.00	0.00	0.00	0.40	0.00	0.00	0.65	0.21
23	0.00	0.22	0.00	1.15	0.00	0.03	0.23	0.01	0.00	0.00	0.03	0.11
24	0.00	0.00	0.13	0.00	0.02	0.42	0.00	0.00	0.00	0.00	2.02	0.00
25	0.00	0.09	0.03	0.03	0.01	0.44	0.00	0.43	0.05	0.00	0.53	0.00
26	0.00	0.00	0.00	0.13	0.41	0.13	0.00	0.96	0.00	0.00	1.03	0.00
27	0.00	0.02	0.07	0.01	0.24	0.04	0.22	0.78	0.00	0.00	0.00	0.00
28	0.08	1.06	0.00	0.77	0.01	0.00	0.00	1.38	0.00	0.00	0.00	0.00
29	0.02	0.44	0.00	1.73	0.02	0.00	0.00	0.07	0.00	0.00	0.00	0.01
30	0.00	0.00	0.06	0.33	---	0.29	0.00	0.23	0.02	0.00	0.00	0.00
31	0.00	---	0.09	0.14	---	0.03	---	0.00	---	0.00	0.00	---
TOTAL	8.18	5.87	3.69	---	2.25	2.81	1.77	5.78	1.28	0.49	5.26	4.12

12118500 ROCK CREEK NEAR MAPLE VALLEY, WA

LOCATION.--Lat 47°22'58", long 122°00'58", in SE $\frac{1}{4}$ NE $\frac{1}{4}$, sec.22, T.22 N., R.6 E., on right bank 20 ft below box culvert exit, 650 ft upstream from mouth and 2 mi southeast of Maple Valley.

DRAINAGE AREA.--12.6 mi².

PERIOD OF RECORD.--June 1945 to September 1973, May 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 400.00 ft above NAVD of 1988 (levels from City of Kent). Prior to Mar. 16, 1953, recording gage at site 50 ft upstream at datum 13.10 ft higher. Mar. 16, 1953, to Sept. 30, 1973, recording gage at site 100 ft upstream at datum 13.951 ft higher.

REMARKS.--No estimated daily discharges. Records good. Diversions by City of Kent upstream of gage for municipal use may effect flow. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--31 years (water years 1946-73, 2002-04), 19.2 ft³/s, 13,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 221 ft³/s, Mar. 6, 1972, gage height 4.06 ft, datum then in use; minimum, 0.29 ft³/s, Sept. 27, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft³/s, Feb. 1, gage height, 21.10 ft; minimum discharge, 1.7 ft³/s, Aug. 14-17.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	6.3	12	14	41	16	9.6	5.5	8.8	6.0	2.8	3.0
2	2.4	6.3	13	14	40	16	9.4	5.5	9.1	5.8	2.8	2.9
3	2.4	6.2	14	12	37	16	9.2	5.5	9.6	5.7	2.8	2.8
4	2.4	6.1	15	11	37	16	9.0	5.4	9.5	5.5	2.8	2.7
5	2.4	6.3	16	11	35	16	8.8	5.0	9.8	5.3	2.8	2.7
6	2.4	6.4	19	10	34	16	8.7	4.7	9.9	5.3	3.1	2.8
7	2.4	6.1	20	10	33	16	8.4	4.7	10	5.2	2.6	2.8
8	2.3	6.0	20	9.9	32	15	8.0	4.6	9.9	5.2	2.5	2.7
9	2.7	5.8	22	10	31	15	7.9	4.5	9.9	5.0	2.3	2.7
10	2.7	5.9	23	11	29	15	7.8	4.5	9.8	4.9	2.2	2.6
11	3.0	5.8	23	12	29	14	7.6	4.7	9.6	4.8	2.1	3.5
12	3.2	5.7	23	12	27	14	7.4	4.4	9.5	4.5	2.0	3.1
13	2.7	5.7	24	13	26	14	7.3	4.2	9.6	4.4	2.0	3.4
14	2.4	5.6	24	13	25	14	7.3	4.2	9.2	4.5	1.9	3.2
15	2.7	5.6	24	14	24	13	7.1	4.1	8.9	4.2	1.8	3.5
16	2.9	5.7	25	14	24	13	6.9	4.0	8.6	4.0	1.8	3.8
17	2.9	5.6	25	13	23	13	6.6	4.1	8.4	3.8	1.8	3.9
18	2.7	7.1	24	14	23	12	6.5	4.4	8.2	3.7	2.4	4.0
19	2.7	8.8	22	14	22	12	6.4	4.1	8.0	3.6	2.7	3.9
20	5.7	9.4	22	14	22	12	6.3	4.0	7.8	3.4	2.8	3.9
21	10	9.3	21	14	23	12	6.3	3.9	7.6	3.3	2.2	3.8
22	8.6	9.2	20	14	23	11	6.1	4.0	7.6	3.2	2.3	3.9
23	8.0	9.2	19	15	20	11	6.0	3.8	7.6	3.0	2.1	3.9
24	7.3	9.2	19	16	19	11	5.8	3.7	7.4	2.9	3.3	3.9
25	6.8	9.6	18	17	19	11	5.7	3.7	7.2	2.9	3.2	3.9
26	6.7	9.4	18	17	19	11	5.6	4.4	6.9	3.0	3.2	3.9
27	6.4	9.3	17	17	18	11	5.5	4.5	6.6	3.7	3.5	3.8
28	6.2	10	16	18	18	11	5.4	5.4	6.5	4.0	3.1	3.9
29	6.2	11	16	25	17	10	5.3	8.3	6.3	2.9	3.0	3.9
30	6.2	12	15	34	---	10	5.5	9.0	6.1	3.5	2.9	3.8
31	6.3	---	15	40	---	9.8	---	8.9	---	3.2	2.8	---
TOTAL	134.2	224.6	604	472.9	770	406.8	213.4	151.7	253.9	130.4	79.6	102.6
MEAN	4.33	7.49	19.5	15.3	26.6	13.1	7.11	4.89	8.46	4.21	2.57	3.42
MAX	10	12	25	40	41	16	9.6	9.0	10	6.0	3.5	4.0
MIN	2.3	5.6	12	9.9	17	9.8	5.3	3.7	6.1	2.9	1.8	2.6
AC-FT	266	445	1,200	938	1,530	807	423	301	504	259	158	204
CFSM	0.34	0.59	1.55	1.21	2.11	1.04	0.56	0.39	0.67	0.33	0.20	0.27
IN.	0.40	0.66	1.78	1.40	2.27	1.20	0.63	0.45	0.75	0.38	0.24	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, BY WATER YEAR (WY)

MEAN	5.85	12.1	27.9	36.9	40.0	35.3	25.4	17.2	11.6	8.24	5.90	5.11
MAX	14.8	38.4	81.1	79.5	87.6	128	53.6	31.8	23.4	17.4	11.0	8.75
(WY)	(1960)	(1960)	(1956)	(1956)	(1965)	(1972)	(1950)	(1950)	(1948)	(1948)	(1948)	(1948)
MIN	1.84	3.02	3.63	6.63	11.6	13.1	5.28	4.15	4.28	2.93	1.46	1.05
(WY)	(1971)	(2003)	(2003)	(2003)	(1962)	(2004)	(1973)	(1973)	(1973)	(2003)	(1973)	(1973)

LAKE WASHINGTON BASIN

12118500 ROCK CREEK NEAR MAPLE VALLEY, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1945 - 2004	
ANNUAL TOTAL	4,279.3		3,544.1			
ANNUAL MEAN	11.7		9.68		19.2	
HIGHEST ANNUAL MEAN					30.6	1956
LOWEST ANNUAL MEAN					9.68	2004
HIGHEST DAILY MEAN	43	Mar 24	41	Feb 1	218	Mar 6, 1972
LOWEST DAILY MEAN	1.0	Sep 9	1.8	Aug 15	0.36	Sep 27, 1973
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 5	1.9	Aug 11	0.78	Sep 8, 1973
ANNUAL RUNOFF (AC-FT)	8,490		7,030		13,940	
ANNUAL RUNOFF (CFSM)	0.930		0.769		1.53	
ANNUAL RUNOFF (INCHES)	12.63		10.46		20.75	
10 PERCENT EXCEEDS	30		22		42	
50 PERCENT EXCEEDS	7.1		6.9		13	
90 PERCENT EXCEEDS	1.6		2.8		3.8	

12119000 CEDAR RIVER AT RENTON, WA

LOCATION.--Lat 47°28'58", long 122°12'08", in SW $\frac{1}{4}$ NW $\frac{1}{4}$, sec.17, T.23 N., R.5 E., King County, Hydrologic Unit 17110012, on left bank 125 ft downstream from bridge on Mill Avenue at Renton, and at mile 1.6.

DRAINAGE AREA.--184 mi², includes 3.67 mi² in vicinity of Youngs Lake in Big Soos Creek basin, excludes 1.9 mi² from upper Rock Creek, Cedar River basin, normally diverted into Issaquah Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1901 to July 1903 (fragmentary), September 1906 to December 1907 (monthly discharge only), August 1945 to current year.

REVISED RECORDS.--WSP 1316: 1901-02. WSP 1932: Drainage area. WDR WA-75-1: 1972-74.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 15.20 ft above NGVD of 1929. Prior to Jan. 1, 1908, nonrecording gages within 1 mi of present site, at datum 10.67 ft above NGVD of 1929. Aug. 7, 1945, to Aug. 15, 1947, water-stage recorder at site 700 ft upstream at datum 20.13 ft above NGVD of 1929, and Aug. 16, 1947, to Dec. 7, 1950, at datum 19.13 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow partly regulated by Chester Morse Lake and Masonry Dam for operation of powerplant at Cedar Falls 32.1 mi upstream from gage. An average daily discharge of about 137 ft³/s was diverted during the year at Landsburg by the City of Seattle for municipal use, computed from data furnished by Seattle Water Department. U.S. Geological Survey satellite telemeter at station. Chemical analyses July 1959 to August 1964, December 1965 to September 1971.

AVERAGE DISCHARGE.--59 years (water years 1946-2004), 662 ft³/s, 479,700 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,600 ft³/s, Nov. 24, 1990, gage height, 17.13 ft, from outside high-water mark; minimum daily discharge, 30 ft³/s, July 1, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,510 ft³/s, Jan. 29, gage height, 10.77 ft; minimum discharge, 108 ft³/s, Aug. 3, gage height, 6.88 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	436	1,330	593	1,590	687	553	302	415	247	118	190
2	246	431	1,340	574	1,570	945	549	305	333	227	118	192
3	248	427	1,540	571	1,630	952	546	298	310	231	114	191
4	249	425	1,300	562	1,490	942	540	296	300	239	118	165
5	250	424	1,220	597	1,360	1,040	539	294	301	231	111	159
6	256	421	1,120	634	1,330	1,070	531	291	327	229	131	151
7	297	418	1,030	626	1,310	1,100	531	292	313	231	146	146
8	327	421	1,150	702	1,290	1,020	530	299	310	228	129	137
9	333	430	1,320	736	1,270	856	523	295	312	192	118	137
10	339	475	1,310	743	1,200	714	523	296	364	182	115	135
11	379	478	1,310	733	985	617	520	310	415	202	115	351
12	410	414	1,220	646	807	587	517	297	413	179	121	499
13	406	409	1,180	645	730	581	515	294	416	175	120	501
14	386	408	1,180	665	740	579	521	291	413	161	122	478
15	405	431	1,090	828	724	569	499	293	360	151	130	512
16	524	474	1,040	947	708	564	446	295	322	148	132	646
17	585	489	939	686	678	566	426	292	285	147	132	612
18	416	1,030	791	637	657	584	405	290	282	147	132	799
19	404	1,260	747	632	648	578	371	290	274	147	138	830
20	773	1,160	780	607	647	552	359	289	273	147	144	849
21	1,760	1,390	777	587	626	555	351	281	272	145	136	836
22	1,090	1,270	745	593	609	560	334	281	274	138	168	836
23	930	1,400	725	673	594	551	316	282	274	133	175	747
24	871	1,420	718	886	592	577	318	275	279	131	451	651
25	655	1,360	716	752	587	598	314	276	273	133	784	566
26	585	1,270	697	795	594	618	311	460	266	133	749	513
27	554	1,040	699	1,120	620	600	308	688	257	128	765	514
28	462	1,130	701	1,230	608	576	309	634	253	125	502	507
29	462	1,640	699	1,820	598	567	298	934	251	121	314	466
30	442	1,410	687	2,040	---	580	298	741	253	122	223	441
31	442	---	689	1,620	---	569	---	575	---	120	199	---
TOTAL	15,732	24,191	30,790	25,480	26,792	21,454	13,101	11,336	9,390	5,270	6,970	13,757
MEAN	507	806	993	822	924	692	437	366	313	170	225	459
MAX	1,760	1,640	1,540	2,040	1,630	1,100	553	934	416	247	784	849
MIN	246	408	687	562	587	551	298	275	251	120	111	135
AC-FT	31,200	47,980	61,070	50,540	53,140	42,550	25,990	22,480	18,630	10,450	13,820	27,290
CFSM	2.76	4.38	5.40	4.47	5.02	3.76	2.37	1.99	1.70	0.92	1.22	2.49
IN.	3.18	4.89	6.22	5.15	5.42	4.34	2.65	2.29	1.90	1.07	1.41	2.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	356	736	1,058	1,081	1,047	869	782	699	621	299	192	230
MAX	864	2,673	2,845	1,924	2,374	2,577	1,290	1,226	1,757	785	582	601
(WY)	(1960)	(1991)	(1976)	(1999)	(1982)	(1972)	(2002)	(1997)	(1964)	(1955)	(1954)	(1964)
MIN	76.4	61.2	91.2	283	299	389	335	274	168	44.9	41.1	52.9
(WY)	(1953)	(1953)	(1953)	(1988)	(1988)	(1992)	(1973)	(1992)	(1958)	(1958)	(1958)	(1958)

LAKE WASHINGTON BASIN

12119000 CEDAR RIVER AT RENTON, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	215,644		204,263			
ANNUAL MEAN	591		558		662	
HIGHEST ANNUAL MEAN					1,016	1972
LOWEST ANNUAL MEAN					373	2001
HIGHEST DAILY MEAN	1,880	Mar 12	2,040	Jan 30	8,900	Nov 25, 1990
LOWEST DAILY MEAN	108	Sep 2	111	Aug 5	30	Jul 1, 1962
ANNUAL SEVEN-DAY MINIMUM	110	Aug 31	117	Jul 30	41	Jul 9, 1958
ANNUAL RUNOFF (AC-FT)	427,700		405,200		479,700	
ANNUAL RUNOFF (CFSM)	3.21		3.03		3.60	
ANNUAL RUNOFF (INCHES)	43.60		41.30		48.90	
10 PERCENT EXCEEDS	1,310		1,150		1,290	
50 PERCENT EXCEEDS	425		500		509	
90 PERCENT EXCEEDS	138		147		151	

12119000 CEDAR RIVER AT RENTON, WA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959-71, March 1978 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August 1965 to February 1967, March 1978 to current year.

INSTRUMENTATION.--Temperature recorder for period of daily record.

REMARKS.--Records excellent except Jan. 1, 6, 7, and June 26 to Sept. 10, which are good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 24.0°C (rounded), Aug. 8, 1978; minimum, 0.0°C (rounded), Dec. 30, 1978 to Jan. 1, 1979, Jan. 29, 1980.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum 22.2°C, July 24; minimum, 2.6°C, Jan. 5.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.4	12.4	13.3	8.2	6.5	7.4	7.4	6.3	6.9	5.6	4.9	5.3
2	13.5	12.1	12.8	8.6	7.4	8.1	7.8	6.8	7.3	6.1	4.9	5.5
3	14.1	12.5	13.2	7.5	6.2	6.9	7.3	6.1	6.8	5.9	4.4	5.3
4	13.2	12.1	12.6	7.2	5.6	6.3	6.8	6.0	6.3	4.5	3.0	3.8
5	13.4	12.3	12.8	7.1	5.3	6.1	7.5	6.5	7.0	3.6	2.6	3.1
6	14.8	12.4	13.5	7.1	5.2	6.1	7.7	6.9	7.3	3.4	2.7	3.1
7	14.5	12.9	13.7	7.8	5.7	6.6	7.4	6.4	6.9	4.2	3.3	3.7
8	13.6	12.1	12.8	8.8	7.4	8.0	7.3	6.5	7.0	5.3	4.0	4.7
9	12.8	11.6	12.2	8.8	7.4	8.1	6.7	5.6	6.2	6.3	4.8	5.6
10	12.7	11.3	12.0	8.9	8.2	8.5	6.6	6.1	6.3	6.6	5.6	6.1
11	12.2	11.3	11.8	9.6	8.7	9.1	6.8	6.0	6.4	6.8	5.3	6.0
12	12.9	11.5	12.1	9.1	7.6	8.1	6.8	6.1	6.4	7.2	5.9	6.5
13	13.1	11.9	12.4	7.7	6.5	7.1	7.0	6.2	6.6	7.7	6.4	7.0
14	12.6	11.5	12.1	8.7	6.9	7.8	6.8	6.2	6.4	7.7	7.0	7.4
15	11.8	10.3	11.0	9.0	8.2	8.5	6.8	6.1	6.5	8.1	7.1	7.4
16	12.3	11.1	11.7	8.5	8.1	8.4	7.1	6.2	6.6	7.4	6.7	7.0
17	13.4	11.9	12.6	8.6	8.2	8.4	7.0	5.8	6.4	7.5	6.4	7.0
18	12.6	11.2	11.9	9.3	8.6	9.0	7.3	5.8	6.5	7.9	7.2	7.5
19	12.9	11.6	12.2	9.5	7.1	8.2	7.7	6.6	7.2	8.4	7.2	7.6
20	14.5	12.1	13.3	7.4	6.5	7.1	8.1	7.4	7.7	7.3	6.5	7.0
21	14.0	13.0	13.4	7.1	6.0	6.5	8.1	7.0	7.6	7.0	5.8	6.4
22	13.3	12.6	12.9	6.6	5.6	6.1	7.4	6.2	6.9	7.3	5.3	6.3
23	12.6	11.3	12.0	7.3	6.3	6.8	7.7	6.8	7.2	7.7	6.8	7.2
24	11.4	10.4	10.9	7.1	6.6	6.9	7.9	7.2	7.5	7.5	6.3	6.9
25	11.2	9.8	10.5	7.4	6.6	6.9	7.6	6.9	7.2	6.9	5.9	6.4
26	11.4	9.9	10.6	7.3	6.6	7.0	7.0	6.2	6.7	6.8	6.2	6.5
27	12.0	10.2	11.0	7.4	6.4	6.9	6.5	5.8	6.2	6.7	5.6	6.1
28	12.0	10.9	11.6	7.6	6.9	7.2	6.5	5.6	6.1	6.7	5.5	6.0
29	11.0	9.9	10.5	7.7	7.1	7.4	5.6	4.5	5.1	7.8	6.4	7.2
30	10.0	8.1	9.2	7.2	6.2	6.7	5.3	4.0	4.6	7.6	6.5	7.2
31	8.1	6.8	7.5	---	---	---	5.8	4.6	5.2	6.9	6.2	6.5
MONTH	14.8	6.8	11.9	9.6	5.2	7.4	8.1	4.0	6.6	8.4	2.6	6.1

12120000 MERCER CREEK NEAR BELLEVUE, WA

LOCATION.--Lat 47°36'11", long 122°10'47", in NW¹/₄NW¹/₄, sec.4, T.24 N., R.5 E., King County, Hydrologic Unit 17110012, on left bank 40 ft upstream from Burlington Northern Railroad trestle, 1.2 mi southeast of Bellevue, and 2.0 mi upstream from mouth.

DRAINAGE AREA.--12.0 mi².

PERIOD OF RECORD.--June to October 1945, June 1955 to current year.

REVISED RECORDS.--WSP 1446: Drainage area. WDR WA-83-1: 1977-79(P).

GAGE.--Water-stage recorder. Datum of gage is 17.11 ft above NGVD of 1929 (levels by Municipality of Metropolitan Seattle engineers). Prior to June 5, 1959, at site 600 ft downstream at different datums.

REMARKS.--Records fair, except for estimated discharges, which are poor. Natural flow affected by urbanization and construction of flood-control catchments.

AVERAGE DISCHARGE.--49 years (water years 1956-2004), 22.6 ft³/s, 25.55 in/yr, 16,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 832 ft³/s, Jan. 18, 1986, gage height, 6.50 ft; maximum gage height, 8.68 ft, Mar. 6, 1972, caused by backwater from plugged culvert; minimum discharge, 1.9 ft³/s, Aug. 6, 1958.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 20	2130	*754	*6.08	Jan 29	1800	412	4.29
Nov 18	1530	484	4.71	Aug 22	1145	507	4.84

Minimum discharge, 4.8 ft³/s, Aug. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	11	23	18	62	13	11	6.9	9.0	6.2	5.8	17
2	6.6	14	21	26	40	12	11	6.6	8.5	6.1	5.8	9.7
3	6.6	11	76	25	25	33	11	6.9	8.1	7.1	6.0	7.8
4	6.3	11	25	14	50	20	e11	7.9	8.0	6.5	6.6	7.3
5	6.3	11	87	12	23	27	e10	8.0	9.4	6.3	7.8	7.2
6	9.0	11	65	12	41	16	e10	7.7	9.0	9.1	25	7.1
7	21	11	30	165	27	26	e9.8	9.3	11	11	27	7.1
8	11	11	26	128	20	15	e9.8	16	8.2	7.1	8.4	8.8
9	11	10	18	54	17	23	e9.3	12	20	6.6	6.6	8.2
10	8.1	11	27	56	16	14	e9.1	14	8.3	6.7	5.9	6.8
11	10	10	32	e25	15	13	e9.0	33	8.9	6.5	5.7	46
12	46	11	58	e30	15	12	e8.8	12	7.7	6.1	5.2	58
13	11	10	50	e25	13	e11	e8.5	8.5	16	5.9	5.3	33
14	9.3	10	28	e60	24	e10	13	e8.6	8.0	5.8	5.3	12
15	30	17	18	86	24	e10	9.1	e8.0	7.4	5.8	5.3	12
16	77	60	30	32	54	e11	8.7	7.5	6.9	5.8	5.4	17
17	79	25	20	21	37	e12	8.2	7.3	6.9	5.8	5.6	37
18	17	241	15	26	27	e12	e9.0	7.4	29	5.8	5.5	44
19	18	279	14	18	18	12	e12	e7.0	8.0	5.8	5.5	20
20	343	e90	32	15	15	11	e12	e7.0	7.1	5.8	5.4	21
21	353	e50	17	14	14	10	8.6	e6.8	6.2	5.6	7.7	12
22	95	25	14	13	13	11	7.8	19	6.3	5.6	211	12
23	53	28	13	74	13	11	10	10	6.3	5.6	60	11
24	24	36	47	70	15	36	8.6	7.4	6.7	5.6	82	8.4
25	17	29	31	25	13	41	7.4	7.0	6.5	5.6	59	8.0
26	15	17	20	20	21	37	7.4	54	6.0	6.2	21	7.9
27	14	14	32	17	53	21	19	68	5.7	5.8	12	7.7
28	17	62	22	34	23	20	13	59	5.7	5.7	10	7.4
29	18	62	15	260	15	13	7.8	53	5.6	5.9	9.2	8.2
30	12	23	13	195	---	14	7.2	13	6.2	5.9	8.5	7.3
31	11	---	19	78	---	13	---	9.6	---	6.0	7.7	---
TOTAL	1,362.0	1,211	938	1,648	743	540	297.1	508.4	266.6	195.3	647.2	476.9
MEAN	43.9	40.4	30.3	53.2	25.6	17.4	9.90	16.4	8.89	6.30	20.9	15.9
MAX	353	279	87	260	62	41	19	68	29	11	211	58
MIN	6.3	10	13	12	13	10	7.2	6.6	5.6	5.6	5.2	6.8
AC-FT	2,700	2,400	1,860	3,270	1,470	1,070	589	1,010	529	387	1,280	946
CFSM	3.66	3.36	2.52	4.43	2.14	1.45	0.83	1.37	0.74	0.53	1.74	1.32
IN.	4.22	3.75	2.91	5.11	2.30	1.67	0.92	1.58	0.83	0.61	2.01	1.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, BY WATER YEAR (WY)

MEAN	17.0	32.2	39.6	40.3	34.3	29.9	21.8	14.6	12.4	8.80	8.76	11.2
MAX	44.4	60.9	70.7	74.1	61.1	67.5	39.9	27.2	23.8	16.5	20.9	22.3
(WY)	(1982)	(2000)	(1997)	(1997)	(1996)	(1972)	(1991)	(1996)	(1985)	(1997)	(2004)	(1978)
MIN	7.42	11.0	16.5	15.9	10.2	15.4	9.90	8.45	5.34	3.22	3.25	5.05
(WY)	(2003)	(1977)	(1977)	(1977)	(1993)	(1965)	(2004)	(1958)	(1958)	(1958)	(1945)	(1955)

LAKE WASHINGTON BASIN

12120000 MERCER CREEK NEAR BELLEVUE, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1945 - 2004	
ANNUAL TOTAL	8,417.7		8,833.5			
ANNUAL MEAN	23.1		24.1		22.6	
HIGHEST ANNUAL MEAN					36.8	
LOWEST ANNUAL MEAN					14.6	
HIGHEST DAILY MEAN	353	Oct 21	353	Oct 21	412	Jan 1, 1997
LOWEST DAILY MEAN	3.9	Jul 20	5.2	Aug 12	2.5	Jul 16, 1958
ANNUAL SEVEN-DAY MINIMUM	4.0	Jul 26	5.4	Aug 12	2.8	Jul 23, 1958
ANNUAL RUNOFF (AC-FT)	16,700		17,520		16,350	
ANNUAL RUNOFF (CFSM)	1.92		2.01		1.88	
ANNUAL RUNOFF (INCHES)	26.09		27.38		25.55	
10 PERCENT EXCEEDS	51		53		47	
50 PERCENT EXCEEDS	12		12		14	
90 PERCENT EXCEEDS	4.5		6.1		6.6	

e Estimated

12120600 ISSAQUAH CREEK NEAR HOBART, WA

LOCATION.--Lat 47°27'27", long 122°00'14", in NE¼NW¼, sec.26, T.23 N., R.6 E., King County, Hydrologic Unit 17110012, on left bank 20 ft downstream from highway bridge, 2.9 mi northwest of Hobart, and 10.2 mi upstream from mouth, 1.6 mi northwest of Issaquah, and at mile 33.1 (continuation of Sammamish River).

DRAINAGE AREA.--17.6 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 300 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are fair. No known regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--18 years (water years 1987-2004), 46.9 ft³/s, 36.18 in/yr, 33,950 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft³/s, Nov. 24, 1990, gage height, 9.90 ft; minimum discharge, 5.3 ft³/s, Sept. 17-20, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 280 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 20	2215	653	7.44	Nov 19	0800	310	6.55
Nov 18	1415	319	6.59	Jan 29	1545	*841	*8.24

Minimum discharge, 6.7 ft³/s, Oct. 1, 3, 4, Aug. 16.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	16	78	31	148	31	32	15	70	12	7.8	17
2	7.2	15	66	30	116	29	30	15	55	12	7.9	17
3	7.4	14	84	30	94	39	29	14	45	13	8.1	16
4	7.2	14	61	28	134	52	27	16	38	13	8.2	14
5	7.3	13	91	26	106	57	26	16	38	12	8.8	14
6	7.4	13	95	27	98	48	25	14	45	12	13	12
7	8.4	13	74	49	93	52	24	14	50	13	17	12
8	8.6	12	76	76	83	46	24	16	41	12	12	12
9	11	12	68	90	72	44	23	16	36	12	10	14
10	10	13	61	104	64	40	22	15	33	12	9.2	12
11	9.3	13	55	84	57	36	21	22	30	12	8.9	49
12	13	11	68	73	51	33	21	17	29	11	8.7	39
13	12	11	79	67	45	31	21	14	39	11	8.5	31
14	9.8	11	85	69	50	29	24	13	32	10	8.5	26
15	11	11	70	94	47	28	25	13	27	10	8.3	27
16	25	15	61	87	59	26	23	14	24	9.7	7.8	30
17	19	15	52	70	57	26	24	13	22	9.4	7.7	46
18	13	163	46	66	56	27	23	12	20	9.3	7.6	44
19	13	207	42	62	50	27	23	11	18	9.3	7.6	35
20	155	124	45	56	44	24	26	11	17	9.2	7.5	29
21	306	87	41	51	41	22	26	11	16	8.9	8.1	24
22	88	64	38	47	37	21	24	14	16	8.6	19	23
23	67	62	36	81	34	21	22	13	16	8.3	28	23
24	43	79	35	140	33	27	e22	12	16	8.0	110	21
25	33	69	37	101	31	33	e21	12	16	8.3	78	19
26	27	60	34	102	32	48	e20	88	15	8.3	70	18
27	23	53	34	96	44	45	e19	86	14	8.0	49	17
28	20	79	33	107	37	37	21	154	13	7.9	30	17
29	20	157	31	562	34	34	18	167	13	7.7	23	16
30	18	100	30	396	---	38	16	122	12	8.0	19	15
31	16	---	31	203	---	36	---	92	---	8.1	16	---
TOTAL	1,022.8	1,526	1,737	3,105	1,847	1,087	702	1,062	856	314.0	633.2	689
MEAN	33.0	50.9	56.0	100	63.7	35.1	23.4	34.3	28.5	10.1	20.4	23.0
MAX	306	207	95	562	148	57	32	167	70	13	110	49
MIN	7.2	11	30	26	31	21	16	11	12	7.7	7.5	12
AC-FT	2,030	3,030	3,450	6,160	3,660	2,160	1,390	2,110	1,700	623	1,260	1,370
CFSM	1.87	2.89	3.18	5.69	3.62	1.99	1.33	1.95	1.62	0.58	1.16	1.30
IN.	2.16	3.23	3.67	6.56	3.90	2.30	1.48	2.24	1.81	0.66	1.34	1.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

	20.4	75.3	78.0	84.0	73.9	69.7	53.3	35.1	31.0	19.2	12.6	11.8
MEAN												
MAX	41.2	245	156	140	159	137	98.4	58.3	69.3	59.1	20.4	23.0
(WY)	(1998)	(1991)	(1999)	(1997)	(1996)	(1997)	(1991)	(1996)	(1990)	(1997)	(2004)	(2004)
MIN	8.55	12.3	22.7	39.2	25.5	35.1	23.4	21.5	14.2	9.70	7.60	8.53
(WY)	(1988)	(2003)	(2003)	(2001)	(1993)	(2004)	(2004)	(1992)	(1992)	(2003)	(2003)	(1992)

LAKE WASHINGTON BASIN

12120600 ISSAQUAH CREEK NEAR HOBART, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	14,880.3		14,581.0			
ANNUAL MEAN	40.8		39.8		46.9	
HIGHEST ANNUAL MEAN					80.9 1991	
LOWEST ANNUAL MEAN					28.0 1994	
HIGHEST DAILY MEAN	306	Oct 21	562	Jan 29	1,000	Feb 8, 1996
LOWEST DAILY MEAN	6.4	Sep 5	7.2	Oct 1	5.4	Sep 18, 1992
ANNUAL SEVEN-DAY MINIMUM	6.6	Aug 31	7.4	Oct 1	5.7	Sep 16, 1992
ANNUAL RUNOFF (AC-FT)	29,520		28,920		33,950	
ANNUAL RUNOFF (CFSM)	2.32		2.26		2.66	
ANNUAL RUNOFF (INCHES)	31.45		30.82		36.18	
10 PERCENT EXCEEDS	84		86		100	
50 PERCENT EXCEEDS	26		25		30	
90 PERCENT EXCEEDS	7.6		9.2		9.9	

e Estimated

12121600 ISSAQUAH CREEK NEAR MOUTH, NEAR ISSAQUAH, WA

LOCATION.--Lat 47°33'09", long 122°02'48", in SE¼NW¼, sec.21, T.24 N., R.6 E., King County, Hydrologic Unit 17110012, on right bank 30 ft downstream from S.E. 56th Street bridge, 0.7 mi downstream from North Fork, 1.2 mi upstream from mouth, 1.6 mi northwest of Issaquah, and at mile 24.1 (continuation of Sammamish River).

DRAINAGE AREA.--56.6 mi², includes 1.9 mi² of Cedar River drainage from upper Rock Creek, which normally is diverted into Issaquah Creek.

PERIOD OF RECORD.--September 1963 to current year.

REVISED RECORDS.--WDR WA-77-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 35.99 ft above NGVD of 1929.

REMARKS.--Records good. Many minor diversions for irrigation and domestic use upstream from station. Chemical analyses November 1964 to September 1971, October 1973 to September 1974. Water temperatures September 1970 to September 1971. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--41 years (water years 1964-2004), 131 ft³/s, 31.46 in/yr, 94,950 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft³/s, Jan. 9, 1990, gage height, 13.50 ft; minimum discharge, 6.2 ft³/s, Sept. 7, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 21	0130	1,450	9.51	Jan 29	2000	*1,750	*10.48
Nov 19	0915	1,170	8.52				

Minimum discharge, 9.2 ft³/s, Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	45	246	85	435	112	95	44	100	25	13	34
2	13	44	211	82	340	106	90	41	80	25	13	32
3	14	41	297	80	277	124	87	41	68	26	13	30
4	14	40	217	73	332	138	82	41	59	24	12	30
5	15	39	355	67	279	150	80	41	57	23	13	27
6	16	38	374	71	273	136	77	38	66	23	23	24
7	18	38	279	215	260	148	74	38	75	25	31	24
8	20	38	251	342	236	137	72	40	66	23	20	24
9	24	37	209	350	212	134	69	40	59	22	16	26
10	21	39	180	366	196	125	67	38	55	22	15	24
11	20	42	175	289	181	117	65	50	51	23	14	86
12	32	38	213	235	166	110	62	42	49	21	13	67
13	31	37	249	207	154	105	60	38	63	20	13	63
14	23	36	256	216	160	100	63	37	57	20	13	53
15	25	38	200	311	159	96	66	35	51	19	13	51
16	54	55	178	289	177	92	62	35	47	19	12	57
17	52	58	151	235	180	90	61	35	44	18	12	97
18	36	612	134	215	173	91	60	32	41	18	12	107
19	31	897	120	192	157	91	60	29	38	18	12	85
20	413	473	142	163	147	87	66	30	37	17	11	69
21	993	288	124	143	138	83	63	29	35	16	12	59
22	284	189	111	130	131	81	63	31	33	16	45	54
23	192	171	101	216	124	79	57	31	31	16	58	53
24	118	231	106	402	118	96	55	29	32	16	214	49
25	89	205	110	292	113	114	51	28	32	14	156	45
26	73	171	96	288	115	141	51	106	31	15	138	42
27	64	138	98	268	142	123	51	114	28	14	97	41
28	59	202	98	290	127	108	55	205	28	14	62	39
29	57	476	89	1,250	119	101	49	264	27	14	47	38
30	52	328	82	1,170	---	110	46	177	26	13	40	37
31	48	---	87	616	---	104	---	132	---	13	34	---
TOTAL	2,913	5,084	5,539	9,148	5,621	3,429	1,959	1,911	1,466	592	1,197	1,467
MEAN	94.0	169	179	295	194	111	65.3	61.6	48.9	19.1	38.6	48.9
MAX	993	897	374	1,250	435	150	95	264	100	26	214	107
MIN	12	36	82	67	113	79	46	28	26	13	11	24
AC-FT	5,780	10,080	10,990	18,150	11,150	6,800	3,890	3,790	2,910	1,170	2,370	2,910
CFSM	1.66	2.99	3.16	5.21	3.42	1.95	1.15	1.09	0.86	0.34	0.68	0.86
IN.	1.91	3.34	3.64	6.01	3.69	2.25	1.29	1.26	0.96	0.39	0.79	0.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	54.4	160	242	270	225	195	150	93.2	76.1	45.0	32.0	36.1
MAX	151	440	520	472	546	420	280	166	179	116	56.4	85.5
(WY)	(1976)	(1991)	(1976)	(1964)	(1982)	(1972)	(1991)	(1996)	(1964)	(1997)	(1976)	(1978)
MIN	19.6	24.6	71.6	106	70.8	86.2	65.3	56.0	29.8	19.1	14.5	16.1
(WY)	(1988)	(1980)	(2003)	(2001)	(1993)	(1992)	(2004)	(1992)	(1992)	(2004)	(2003)	(2003)

12121600 ISSAQUAH CREEK NEAR MOUTH, NEAR ISSAQUAH, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	40,537		40,326			
ANNUAL MEAN	111		110		131	
HIGHEST ANNUAL MEAN					197	1972
LOWEST ANNUAL MEAN					72.6	2001
HIGHEST DAILY MEAN	993	Oct 21	1,250	Jan 29	2,350	Nov 24, 1986
LOWEST DAILY MEAN	11	Sep 1	11	Aug 20	11	Sep 1, 2003
ANNUAL SEVEN-DAY MINIMUM	12	Sep 1	12	Aug 15	12	Sep 1, 2003
ANNUAL RUNOFF (AC-FT)	80,410		79,990		94,950	
ANNUAL RUNOFF (CFSM)	1.96		1.95		2.32	
ANNUAL RUNOFF (INCHES)	26.64		26.50		31.46	
10 PERCENT EXCEEDS	243		252		277	
50 PERCENT EXCEEDS	68		62		85	
90 PERCENT EXCEEDS	14		18		26	

12125200 SAMMAMISH RIVER NEAR WOODINVILLE, WA

LOCATION.--Lat 47°42'15", long 122°08'29", in SW¹/₄SW¹/₄, sec.26, T.26 N., R.5 E., King County, Hydrologic Unit 17110012, on right bank 3.9 mi upstream from Bear Creek, 3.6 mi southeast of Woodinville, and at mile 10.8.

DRAINAGE AREA.--159 mi², includes 1.9 mi² of Cedar River drainage from upper Rock Creek which is normally diverted into Issaquah Creek.

PERIOD OF RECORD.--January 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (Corps of Engineers bench mark). Prior to July 7, 1970, auxiliary water-stage recorder 2 mi downstream from base gage at same datum.

REMARKS.--No estimated daily discharges. Records fair. Some regulation at Sammamish Lake. Many small diversions for irrigation and domestic use. Water temperatures August 1965 to February 1967.

AVERAGE DISCHARGE.--39 years (water years 1966-2004), 306 ft³/s, 26.13 in/yr, 221,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,870, ft³/s, Jan. 1, 1997, elevation, 26.93 ft; minimum daily discharge, 25 ft³/s, Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,600 ft³/s, Jan. 30, gage height, 22.97 ft; minimum daily discharge, 46 ft³/s, Oct. 2-4.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	202	375	150	1,310	290	161	101	193	70	67	111
2	46	204	367	149	1,160	265	153	95	178	71	66	124
3	46	188	442	142	1,020	284	147	91	166	74	67	96
4	46	171	398	126	950	307	142	89	156	73	69	89
5	47	158	436	110	861	302	136	87	157	73	71	83
6	49	144	480	104	803	287	132	86	155	85	103	79
7	61	132	437	216	763	281	129	92	160	94	134	75
8	54	124	420	330	710	264	125	98	150	79	107	75
9	54	114	383	323	650	268	120	98	165	72	95	75
10	52	108	360	352	591	255	116	94	147	73	89	71
11	55	103	365	324	543	241	114	113	137	74	86	128
12	93	101	376	292	498	229	113	104	132	68	84	112
13	69	91	372	270	456	217	111	98	145	66	86	134
14	57	84	353	278	441	207	113	94	138	64	89	142
15	62	86	320	370	423	196	108	92	131	62	91	134
16	102	121	310	337	443	188	108	93	123	61	88	129
17	143	124	293	303	453	181	107	92	117	60	88	164
18	100	432	266	290	434	174	105	92	122	62	88	189
19	81	889	244	266	404	167	105	89	113	61	91	185
20	482	814	251	240	372	156	104	84	110	61	90	158
21	918	639	231	214	348	150	101	84	103	57	94	142
22	609	505	213	194	324	146	100	108	98	56	320	135
23	504	436	197	244	301	140	103	95	95	57	213	133
24	412	442	205	370	285	164	99	85	91	57	187	127
25	355	426	212	380	269	179	97	82	90	58	194	121
26	314	387	222	344	271	191	97	110	85	61	114	116
27	286	345	220	308	310	190	98	176	82	61	101	113
28	279	357	212	302	337	183	99	227	76	65	98	109
29	275	412	187	832	323	173	95	242	72	66	95	106
30	243	391	167	1,550	---	165	101	216	71	65	91	102
31	219	---	157	1,430	---	172	---	214	---	66	88	---
TOTAL	6,160	8,730	9,471	11,140	16,053	6,612	3,439	3,521	3,758	2,072	3,344	3,557
MEAN	199	291	306	359	554	213	115	114	125	66.8	108	119
MAX	918	889	480	1,550	1,310	307	161	242	193	94	320	189
MIN	46	84	157	104	269	140	95	82	71	56	66	71
AC-FT	12,220	17,320	18,790	22,100	31,840	13,110	6,820	6,980	7,450	4,110	6,630	7,060
CFSM	1.25	1.83	1.92	2.26	3.48	1.34	0.72	0.71	0.79	0.42	0.68	0.75
IN.	1.44	2.04	2.22	2.61	3.76	1.55	0.80	0.82	0.88	0.48	0.78	0.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	120	312	570	615	549	477	355	234	183	109	72.9	86.0
MAX	338	681	1,078	1,318	1,066	1,214	675	421	373	258	124	189
(WY)	(1982)	(1976)	(1976)	(1997)	(1982)	(1972)	(1991)	(1996)	(1993)	(1997)	(1976)	(1978)
MIN	49.8	70.1	186	246	200	213	115	114	84.7	56.0	33.1	43.0
(WY)	(1988)	(1988)	(1977)	(1993)	(1977)	(2004)	(2004)	(2004)	(1992)	(2003)	(1994)	(1994)

12125200 SAMMAMISH RIVER NEAR WOODINVILLE, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	92,281		77,857			
ANNUAL MEAN	253		213		306	
HIGHEST ANNUAL MEAN					482	
LOWEST ANNUAL MEAN					179	
HIGHEST DAILY MEAN	918	Oct 21	1,550	Jan 30	2,830	Jan 2, 1997
LOWEST DAILY MEAN	38	Sep 7	46	Oct 2	25	Aug 2, 1977
ANNUAL SEVEN-DAY MINIMUM	39	Sep 1	49	Oct 1	29	Aug 16, 1994
ANNUAL RUNOFF (AC-FT)	183,000		154,400		221,600	
ANNUAL RUNOFF (CFSM)	1.59		1.34		1.92	
ANNUAL RUNOFF (INCHES)	21.59		18.22		26.13	
10 PERCENT EXCEEDS	519		424		669	
50 PERCENT EXCEEDS	222		136		220	
90 PERCENT EXCEEDS	44		69		65	

12128000 THORNTON CREEK NEAR SEATTLE, WA

LOCATION.--Lat 47°41'45", long 122°16'30", in NW¹/₄SE¹/₄, sec.34, T.26 N., R.4 E., King County, Hydrologic Unit 17110012, on left bank, at highway crossing, 1.5 mi north of Seattle city limits, and at mile 0.25.

DRAINAGE AREA.--12.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1945 to September 1946, May 1961 to September 1968, March 1996 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 40 ft above NGVD of 1929, from topographic map. June 1945 to September 1946 at datum 0.09 ft higher.

REMARKS.--Records fair, except discharges above 100 ft³/s and estimated daily discharges, which are poor. Intermittent regulation and diversions. Natural flow affected by urbanization and flood-control catchments.

AVERAGE DISCHARGE.--16 years (water years 1946, 1962-68, 1997-2004), 11.6 ft³/s, 12.98 in/yr, 8,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 575 ft³/s, Oct. 20, 2003, gage height, 3.31 ft; minimum daily discharge, 0.39 ft³/s, Sept. 22, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 575 ft³/s, Oct. 20, gage height, 3.31 ft; minimum discharge, 0.23 ft³/s, Aug. 15, gage height, 0.69 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	5.0	7.2	9.4	17	8.0	6.2	4.4	6.1	3.7	3.0	14
2	3.2	8.7	11	12	16	7.3	6.1	3.7	5.9	3.5	3.8	8.7
3	3.2	5.4	12	7.9	13	14	6.1	4.7	4.7	3.8	3.5	4.7
4	3.4	4.9	9.7	7.0	17	9.6	5.9	4.6	4.4	3.7	3.5	4.3
5	2.9	4.7	26	6.6	11	12	5.8	4.3	5.5	3.6	3.3	3.6
6	4.3	4.6	20	7.4	14	8.4	5.8	4.5	4.9	6.6	15	3.1
7	5.4	4.3	13	37	12	8.7	5.6	8.0	4.2	5.6	10	4.4
8	6.0	4.2	10	29	10	7.5	5.5	5.6	4.2	4.3	5.1	3.8
9	3.1	4.2	8.4	19	9.6	10	5.4	5.5	7.4	4.2	4.8	3.5
10	3.2	4.4	13	16	8.5	7.2	5.3	5.9	5.1	4.5	3.9	4.1
11	7.3	4.3	13	11	8.3	5.8	5.4	9.3	7.6	4.0	3.2	13
12	12	e5.8	21	12	8.1	6.9	5.3	5.3	5.3	3.6	3.1	4.5
13	6.7	e4.7	17	10	7.9	5.6	5.2	4.6	8.8	3.6	3.0	12
14	5.8	e4.3	11	21	13	5.2	6.1	4.4	6.1	3.6	2.7	7.0
15	15	e19	9.1	20	13	5.3	5.7	4.3	5.2	3.6	2.2	5.5
16	26	e16	18	12	19	5.4	5.9	5.0	4.4	3.6	3.3	5.6
17	25	e16	12	9.2	17	6.3	5.7	4.3	4.2	3.7	3.2	13
18	8.5	e53	8.8	9.5	14	7.0	6.1	4.2	4.0	4.3	3.3	8.2
19	8.2	e39	8.2	8.0	11	6.1	6.4	4.6	3.8	3.8	2.1	8.4
20	116	24	15	7.1	8.8	5.8	8.3	4.2	3.4	3.6	3.8	4.9
21	41	23	8.6	6.6	8.3	6.0	6.5	4.0	3.3	3.5	4.4	4.3
22	20	14	7.5	6.4	7.8	6.4	5.5	7.3	3.3	4.1	28	4.8
23	12	14	7.7	14	7.5	6.1	7.9	5.0	3.4	3.5	12	5.2
24	8.3	14	16	26	9.2	12	6.7	4.4	5.1	3.4	9.4	4.0
25	7.0	17	13	12	8.5	18	5.4	4.5	3.9	2.8	8.1	3.3
26	6.1	8.4	14	10	9.8	15	5.1	9.2	3.8	2.9	6.1	3.7
27	5.7	7.4	16	9.1	14	12	8.0	16	3.5	3.2	4.0	5.0
28	8.4	14	11	13	15	8.2	5.9	11	3.6	3.1	3.9	4.1
29	11	13	8.5	37	9.1	7.4	5.1	8.6	3.7	3.2	4.3	3.9
30	6.1	8.1	7.7	28	---	6.8	4.7	5.7	3.8	3.5	4.6	3.6
31	5.0	---	9.7	21	---	6.5	---	7.4	---	2.8	3.9	---
TOTAL	398.6	369.4	383.1	454.2	337.4	256.5	178.6	184.5	142.6	116.9	174.5	178.2
MEAN	12.9	12.3	12.4	14.7	11.6	8.27	5.95	5.95	4.75	3.77	5.63	5.94
MAX	116	53	26	37	19	18	8.3	16	8.8	6.6	28	14
MIN	2.8	4.2	7.2	6.4	7.5	5.2	4.7	3.7	3.3	2.8	2.1	3.1
AC-FT	791	733	760	901	669	509	354	366	283	232	346	353
CFSM	1.06	1.02	1.02	1.21	0.96	0.68	0.49	0.49	0.39	0.31	0.47	0.49
IN.	1.23	1.14	1.18	1.40	1.04	0.79	0.55	0.57	0.44	0.36	0.54	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, BY WATER YEAR (WY)

MEAN	9.90	14.8	17.2	19.1	16.7	15.5	11.8	8.73	7.56	5.72	5.55	7.14
MAX	18.0	29.8	30.7	36.2	45.0	34.4	25.8	13.8	15.1	10.1	10.1	17.3
(WY)	(1946)	(1946)	(1946)	(1946)	(1946)	(1946)	(1946)	(1946)	(1964)	(1946)	(1945)	(1945)
MIN	4.18	7.31	9.78	11.8	8.26	8.27	5.95	5.83	3.62	3.26	1.79	1.27
(WY)	(2003)	(2003)	(2001)	(2001)	(2003)	(2004)	(2004)	(2003)	(1997)	(1996)	(1999)	(1999)

12128000 THORNTON CREEK NEAR SEATTLE, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1945 - 2004	
ANNUAL TOTAL	3,255.4		3,174.5			
ANNUAL MEAN	8.92		8.67		11.6	
HIGHEST ANNUAL MEAN					23.0	1946
LOWEST ANNUAL MEAN					7.66	2003
HIGHEST DAILY MEAN	116	Oct 20	116	Oct 20	129	Dec 31, 1996
LOWEST DAILY MEAN	1.3	Aug 17	2.1	Aug 19	0.39	Sep 22, 1999
ANNUAL SEVEN-DAY MINIMUM	2.4	Aug 11	2.8	Aug 13	0.52	Sep 9, 1999
ANNUAL RUNOFF (AC-FT)	6,460		6,300		8,370	
ANNUAL RUNOFF (CFSM)	0.737		0.717		0.955	
ANNUAL RUNOFF (INCHES)	10.01		9.76		12.98	
10 PERCENT EXCEEDS	17		16		23	
50 PERCENT EXCEEDS	6.1		6.1		8.8	
90 PERCENT EXCEEDS	2.7		3.5		4.1	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1996 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1996 to September 1998.

WATER TEMPERATURE: March 1996 to current year.

DISSOLVED OXYGEN: March to September 1996.

INSTRUMENTATION.--Water-quality monitor since March 1996. Electronic data logger with 15-minute recording interval.

REMARKS.--Temperature records excellent, except for May 29 to June 9, and Aug. 5-13, which are good. Unpublished dissolved oxygen data for portions of the 1997 water year are available in the files of the Washington Water Science Center.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 330 microsiemens, Aug. 13, 1996, but may have been higher during periods of missing record; minimum recorded, 46 microsiemens, Mar. 18, 1997, but may have been lower during periods of missing record.

WATER TEMPERATURE: Maximum recorded, 23.0°C (rounded), July 27, 1998; minimum recorded, 0.0°C (rounded), Dec. 29, 1996.

DISSOLVED OXYGEN: Maximum recorded, 12.7 mg/L, Mar. 20, 1996, but may have been higher during periods of missing record; minimum recorded, 5.0 mg/L, Apr. 7, 1996, but may have been lower during periods of missing record.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 22.2°C, July 29; minimum, 1.4°C, Jan. 5.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.2	13.4	14.4	7.9	6.5	7.2	8.2	6.8	7.6	5.9	5.4	5.7
2	14.8	13.8	14.3	8.4	7.5	8.1	9.1	8.0	8.5	5.8	5.0	5.4
3	14.9	13.9	14.5	7.5	6.2	6.7	9.0	7.2	8.3	5.8	3.3	5.0
4	13.9	13.6	13.7	6.4	5.2	5.9	8.1	6.8	7.3	3.3	1.8	2.4
5	14.3	13.7	13.9	5.9	4.7	5.4	8.6	7.9	8.3	2.2	1.4	1.8
6	15.9	14.1	14.9	5.8	4.5	5.2	8.6	8.1	8.4	3.3	1.7	2.4
7	16.0	14.6	15.5	6.4	4.8	5.6	8.4	7.8	8.2	3.3	2.4	2.7
8	14.7	13.5	14.1	7.6	6.4	6.9	8.6	7.6	8.3	4.5	2.8	3.7
9	13.8	12.5	13.0	8.1	7.2	7.7	7.6	6.6	7.1	6.0	4.5	5.2
10	13.1	12.2	12.6	8.9	7.8	8.3	7.8	7.5	7.7	6.8	6.0	6.4
11	12.7	12.0	12.3	9.6	8.8	9.1	8.4	7.8	8.1	6.9	6.0	6.4
12	13.2	12.3	12.7	---	---	---	8.1	7.5	7.8	7.1	6.0	6.6
13	13.3	12.4	12.8	---	---	---	8.1	7.7	7.9	8.1	7.1	7.6
14	12.8	12.2	12.5	---	---	---	7.8	7.4	7.7	8.9	8.0	8.4
15	12.3	10.9	11.6	---	---	---	8.0	7.5	7.8	8.8	8.3	8.6
16	13.4	12.0	12.5	---	---	---	8.1	7.8	7.9	8.5	7.8	8.1
17	14.9	13.4	14.3	---	---	---	8.1	7.2	7.7	8.1	7.1	7.7
18	14.2	12.9	13.6	---	---	---	7.5	6.4	7.0	8.6	8.0	8.3
19	14.8	13.7	14.2	---	---	---	8.2	6.4	7.2	9.0	8.0	8.4
20	17.2	14.2	15.7	8.0	6.9	7.6	8.9	7.6	8.4	8.4	7.7	8.2
21	16.5	15.8	16.1	7.4	6.6	7.1	9.0	8.1	8.5	7.9	6.9	7.5
22	16.0	15.4	15.7	7.1	6.3	6.7	8.1	6.6	7.3	7.7	6.5	7.0
23	15.4	13.3	14.3	8.0	7.1	7.6	8.1	6.5	7.2	8.2	7.6	7.9
24	13.3	12.0	12.5	8.0	7.5	7.7	8.3	7.6	8.1	8.1	7.0	7.4
25	12.5	11.2	11.9	8.3	7.4	7.8	8.1	6.4	7.8	7.2	6.4	6.9
26	12.7	11.0	11.9	8.4	7.9	8.1	6.8	6.1	6.4	7.8	7.2	7.4
27	13.1	11.5	12.3	8.4	7.4	7.9	6.7	6.2	6.4	8.5	7.8	8.1
28	13.6	12.5	13.1	9.1	8.2	8.6	6.5	5.5	6.2	8.6	8.0	8.3
29	12.5	11.0	11.7	9.2	8.1	9.0	5.5	4.3	4.9	9.4	8.6	9.0
30	11.0	8.9	9.5	8.1	6.8	7.2	5.1	3.8	4.4	9.4	7.9	8.5
31	8.9	7.2	7.8	---	---	---	5.9	4.8	5.4	7.9	6.8	7.5
MONTH	17.2	7.2	13.2	---	---	---	9.1	3.8	7.4	9.4	1.4	6.6

12128000 THORNTON CREEK NEAR SEATTLE, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.8	6.9	7.3	9.8	8.2	9.0	10.9	8.0	9.5	15.7	12.3	14.1
2	7.5	7.0	7.2	9.0	6.6	7.8	11.8	7.5	9.7	16.6	13.7	14.8
3	8.2	7.2	7.7	8.2	7.7	7.9	13.2	8.4	10.8	15.2	12.6	13.9
4	8.4	7.4	8.1	9.3	8.1	8.6	11.7	10.2	11.0	14.5	13.1	13.7
5	7.4	6.1	6.9	8.8	7.6	8.3	11.8	9.0	10.4	13.9	11.9	12.9
6	8.2	7.4	7.7	8.8	6.4	7.7	12.7	9.5	11.0	14.3	11.0	12.6
7	8.4	7.5	7.8	10.4	8.4	9.4	12.2	10.6	11.3	14.6	11.9	13.2
8	8.1	6.8	7.4	11.9	9.0	10.4	13.1	9.4	11.2	14.4	12.3	13.4
9	7.3	6.2	6.7	11.0	9.8	10.4	13.5	9.4	11.5	14.4	11.6	13.0
10	6.9	5.2	6.1	10.6	8.2	9.4	14.2	9.8	12.0	13.2	11.8	12.3
11	7.5	5.3	6.4	10.4	7.4	9.0	15.0	10.5	12.8	13.9	12.2	13.0
12	7.1	5.0	6.1	10.0	8.7	9.2	14.1	11.9	13.0	14.7	12.1	13.2
13	7.6	5.0	6.3	10.4	7.4	8.9	13.8	11.5	12.7	15.2	11.8	13.5
14	8.8	7.2	8.0	10.6	9.5	10	12.4	11.2	11.8	15.5	11.7	13.6
15	8.7	7.7	8.2	10.1	9.4	9.7	12.8	10.4	11.5	14.0	12.4	13.1
16	7.8	6.9	7.5	9.9	9.0	9.5	13.4	10.8	11.8	14.0	12.5	13.1
17	7.9	7.0	7.5	10.0	9.5	9.7	13.4	10.9	12.0	15.5	12.4	13.8
18	8.7	7.9	8.2	10.7	8.7	9.7	13.8	10.3	11.8	17.3	13.1	15.1
19	9.0	7.9	8.4	9.9	7.7	8.8	13.3	10.5	11.9	15.4	13.6	14.5
20	8.6	7.1	7.8	10.5	7.0	8.8	12.9	11.3	12.0	15.3	13.6	14.5
21	8.5	6.8	7.6	11.8	8.8	10.3	13.4	11.1	12.0	14.8	13.8	14.2
22	8.9	6.5	7.7	13.2	10.6	11.7	14.0	10.0	12.0	15.0	13.1	13.9
23	9.3	7.9	8.6	11.9	10.5	11.3	13.9	11.1	12.1	15.5	12.8	14.0
24	9.3	8.0	8.6	11.0	9.9	10.6	13.3	10.8	12.0	16.2	12.8	14.5
25	8.4	7.2	7.8	10.8	9.3	10.0	13.9	9.7	11.8	14.9	12.9	14.1
26	9.2	7.3	8.2	10.3	9.5	9.9	15.5	10.8	13.1	15.7	14.1	14.8
27	9.2	8.2	8.7	11.5	9.5	10.4	14.1	11.3	12.5	15.6	13.9	14.7
28	9.2	8.2	8.7	12.4	9.2	10.8	14.0	10.1	12.0	15.0	13.9	14.5
29	9.6	7.9	8.7	13.6	9.0	11.3	14.5	10.1	12.3	15.4	13.6	14.4
30	---	---	---	12.1	9.9	11.2	15.7	11.4	13.5	16.2	13.6	14.8
31	---	---	---	11.2	8.7	9.9	---	---	---	14.9	13.5	14.4
MONTH	9.6	5.0	7.7	13.6	6.4	9.7	15.7	7.5	11.8	17.3	11.0	13.9
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.9	12.9	14.3	17.7	15.6	16.6	21.4	18.0	19.7	18.5	16.8	17.7
2	17.5	12.9	15.1	16.8	15.3	16.0	19.5	17.5	18.6	17.6	16.4	16.9
3	17.5	13.5	15.5	16.9	15.6	16.1	18.7	16.7	17.6	17.3	15.7	16.5
4	17.9	14.4	16.1	17.4	14.9	16.0	18.0	16.8	17.3	16.9	15.7	16.2
5	17.3	15.3	16.3	18.5	14.7	16.5	18.5	15.8	17.1	17.1	15.2	16.1
6	16.3	14.4	15.4	17.2	15.8	16.4	18.9	16.7	17.9	17.3	14.6	16.0
7	15.1	14.0	14.5	16.8	14.7	15.9	19.0	17.5	18.2	17.2	15.3	16.2
8	17.4	13.5	15.4	16.9	14.7	15.7	19.4	16.1	17.7	16.4	14.6	15.6
9	17.6	16.1	16.8	15.8	14.6	15.1	20.2	16.7	18.4	17.0	15.8	16.3
10	16.4	13.9	14.7	16.1	14.5	15.3	20.3	17.3	18.7	17.6	14.7	16.0
11	14.5	13.5	14.1	17.7	14.7	16.1	20.2	17.0	18.6	18.0	16.9	17.6
12	15.4	13.1	14.2	19.7	14.8	17.1	19.8	17.1	18.5	17.1	16.1	16.6
13	16.6	14.5	15.4	20.6	16.9	18.5	19.6	16.6	18.2	16.5	15.5	16.0
14	15.9	13.5	14.8	20.8	17.6	19.1	19.3	17.0	18.2	16.1	14.9	15.5
15	17.1	12.9	15.0	19.9	17.7	18.7	20.5	17.8	18.9	15.6	14.7	15.1
16	17.2	12.9	15.1	20.9	17.3	19.0	18.9	17.6	18.3	15.2	14.5	14.9
17	18.5	14.2	16.3	20.7	17.8	19.2	20.3	17.2	18.6	15.9	14.6	15.1
18	19.3	15.8	17.5	20.8	18.2	19.4	19.9	17.4	18.7	15.1	13.8	14.2
19	18.8	15.3	17.1	20.6	19.0	19.7	20.9	17.5	19.1	14.4	13.5	14.0
20	19.2	15.2	17.2	20.4	18.8	19.5	20.9	18.3	19.5	14.1	12.4	13.3
21	19.4	15.6	17.5	21.3	17.8	19.4	19.4	17.9	18.5	14.1	12.4	13.4
22	19.2	16.1	17.6	20.9	17.9	19.2	19.3	18.0	18.4	14.8	13.4	14.0
23	17.9	16.1	16.8	21.2	17.2	19.2	18.9	17.6	18.2	15.2	14.1	14.7
24	18.9	15.9	17.0	21.4	17.9	19.7	18.5	17.6	18.0	14.7	12.8	13.7
25	17.9	15.6	16.7	20.1	18.1	18.9	17.9	17.0	17.5	15.3	13.4	14.2
26	18.5	15.2	16.8	21.6	17.7	19.5	18.5	16.9	17.6	15.0	13.9	14.3
27	18.3	15.1	16.7	21.8	18.2	19.9	18.4	17.2	17.7	14.9	13.4	14.1
28	19.2	14.8	16.9	22.0	18.5	20.2	19.2	17.1	18.1	14.4	13.0	13.7
29	18.7	14.9	16.9	22.2	18.9	20.5	19.6	18.1	18.7	14.4	13.4	13.8
30	19.0	15.3	17.1	20.9	19.2	20.0	19.4	17.6	18.5	13.8	12.7	13.3
31	---	---	---	21.5	18.2	19.8	18.7	16.7	17.7	---	---	---
MONTH	19.4	12.9	16.0	22.2	14.5	18.1	21.4	15.8	18.3	18.5	12.4	15.2

12128000 THORNTON CREEK NEAR SEATTLE, WA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat un f uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)
OCT 08...	1150	13	754	8.7	85	7.9	213	14.4	13.8	74	90	.0	6.40
NOV 19...	1200	28	756	11.3	94	7.2	111	5.5	7.3	28	34	.0	4.10
DEC 19...	1200	8.0	754	11.4	95	7.6	217	7.2	6.8	81	98	.0	6.75
JAN 14...	1210	18	760	11.0	94	7.4	166	E10.0	8.2	57	70	.0	6.20
FEB 05...	1130	11	766	11.9	96	7.8	202	3.6	6.3	77	93	.0	6.21
MAR 10...	1140	7.5	779	12.3	104	8.0	221	13.0	9.1	81	99	.0	6.42
APR 07...	1120	5.6	766	11.7	105	7.9	240	10.6	10.7	91	110	.0	7.04
MAY 05...	0940	4.1	768	10.0	92	8.0	251	12.1	12.0	93	114	.0	7.31
JUN 02...	1240	9.8	763	8.8	89	7.9	211	18.8	16.0	78	95	.0	6.15
JUL 13...	1120	3.8	759	8.8	93	8.0	243	21.5	17.6	92	112	.0	7.19
AUG 10...	0940	4.2	765	8.8	91	7.9	242	21.9	17.2	89	108	.0	6.62
SEP 14...	1340	5.5	761	9.4	95	7.9	199	18.6	15.9	75	91	.0	5.74

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat un f by anal ysis, mg/L (62855)	2,6-Diethyl-aniline water fltrd 0.7u GF (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	alpha-HCH-d6, surrog, wat flt 0.7u GF percent recovry (91065)
OCT 08...	16.1	E.03	.93	.018	.028	.181	1.83	--	--	--	--	--	--
NOV 19...	10.8	<.04	1.45	.008	.031	.125	1.94	<.006	<.006	<.006	<.004	<.005	103
DEC 19...	18.2	E.04	1.31	.008	.025	.053	1.50	--	--	--	--	--	--
JAN 14...	12.7	.05	1.11	.019	.016	.116	1.61	<.006	<.006	<.006	<.004	<.005	104
FEB 05...	15.8	E.02	1.36	.008	.023	.048	1.66	--	--	--	--	--	--
MAR 10...	15.5	<.04	1.19	E.005	.020	.051	1.33	<.006	<.006	<.006	<.004	<.005	92.8
APR 07...	15.7	<.04	1.04	<.008	.012	.037	1.23	<.006	<.006	<.006	<.004	<.005	106
MAY 05...	17.0	.04	1.21	.011	.044	.089	1.42	<.006	<.006	<.006	<.004	<.005	95.6
JUN 02...	12.7	.11	.78	.022	.027	.122	1.19	<.006	<.006	<.006	<.004	<.005	103
JUL 13...	15.6	.04	.74	.013	.015	.149	1.66	<.006	<.006	<.006	<.004	<.005	99.4
AUG 10...	15.6	E.02	.96	E.006	.053	.095	1.15	<.006	<.006	<.006	<.005	<.005	87.2
SEP 14...	13.5	<.04	.70	E.004	.034	.068	.94	<.006	<.006	<.006	<.005	<.005	80.5

12128000 THORNTON CREEK NEAR SEATTLE, WA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd, 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd, 0.7u GF ug/L (82673)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd, 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd, 0.7u GF ug/L (82674)	Chlor-pyri-fos, water, fltrd, ug/L (38933)	cis-Per-methrin, water, fltrd, 0.7u GF ug/L (82687)	Cyana-zine, water, fltrd, ug/L (04041)	DCPA, water, fltrd, 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diazi-non, water, fltrd, ug/L (39572)	Diazi-non-d10 surrog, wat flt 0.7u GF percent recovry (91063)
OCT 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	<.010	<.050	<.010	<.002	E.019	<.020	<.005	<.006	<.018	<.003	<.004	.037	146
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	<.007	<.050	<.010	<.002	E.046	<.020	<.005	<.006	<.018	<.003	<.004	.052	122
FEB 05...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 10...	<.007	<.050	<.010	<.002	E.053	<.020	<.005	<.006	<.018	<.003	<.004	.006	109
APR 07...	<.007	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.004	.006	113
MAY 05...	<.007	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.004	<.005	99.2
JUN 02...	<.007	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.004	.008	107
JUL 13...	<.007	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.004	<.005	107
AUG 10...	<.007	<.050	<.010	<.004	E.028	<.020	<.005	<.006	<.018	<.003	<.012	<.005	111
SEP 14...	<.007	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005	93.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Diel-drin, water, fltrd, ug/L (39381)	Disul-foton, water, fltrd, 0.7u GF ug/L (82677)	EPTC, water, fltrd, 0.7u GF ug/L (82668)	Ethal-flur-alin, water, fltrd, 0.7u GF ug/L (82663)	Etho-prop, water, fltrd, 0.7u GF ug/L (82672)	Desulf-inyl fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)	Fipro-nil, water, fltrd, ug/L (62166)	Fonofos, water, fltrd, ug/L (04095)	Lindane, water, fltrd, ug/L (39341)	Linuron, water, fltrd, 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)
OCT 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	.009	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027
FEB 05...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 10...	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027
APR 07...	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027
MAY 05...	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027
JUN 02...	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027
JUL 13...	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027
AUG 10...	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027
SEP 14...	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027

12128000 THORNTON CREEK NEAR SEATTLE, WA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Methyl para- thion, water, fltrd 0.7u GF (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF (82671)	Naprop- amide, water, fltrd 0.7u GF (82684)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF (82669)	Pendi- meth- alin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)	Prome- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF (82676)	Propa- chlor, water, fltrd, ug/L (04024)
OCT 08...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	.04	<.004	<.010
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	.02	<.004	<.010
FEB 05...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 10...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	.02	<.010	<.010
APR 07...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	E.01	<.004	<.010
MAY 05...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	E.01	<.004	<.010
JUN 02...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	.04	<.004	<.010
JUL 13...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	.02	<.004	<.010
AUG 10...	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	E.01	<.006	<.025
SEP 14...	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	.02	<.004	<.025

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Pro- panil, water, fltrd 0.7u GF (82679)	Propar- gite, water, fltrd 0.7u GF (82685)	Simaz- ine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF (82670)	Terba- cil, water, fltrd 0.7u GF (82665)	Terbu- fos, water, fltrd 0.7u GF (82675)	Thio- bencarb water fltrd 0.7u GF (82681)	Tri- allate, water, fltrd 0.7u GF (82678)	Tri- flur- alin, water, fltrd 0.7u GF (82661)	Sus- pended sedim- ent concen- tration mg/L (80154)	Sus- pended sedim- ent dis- charge, tons/d (80155)
OCT 08...	--	--	--	--	--	--	--	--	--	64	2.2
NOV 19...	<.011	<.02	<.010	<.02	<.034	<.02	<.005	<.002	E.005	56	4.2
DEC 19...	--	--	--	--	--	--	--	--	--	8	.17
JAN 14...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	E.005	58	2.8
FEB 05...	--	--	--	--	--	--	--	--	--	4	.12
MAR 10...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	E.005	6	.12
APR 07...	<.011	<.02	<.010	<.02	<.034	<.02	<.005	<.002	<.009	5	.08
MAY 05...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	9	.10
JUN 02...	<.011	<.02	.027	<.02	<.034	<.02	<.005	<.002	<.009	30	.79
JUL 13...	<.011	<.02	<.010	<.02	<.034	<.02	<.005	<.002	<.009	10	.10
AUG 10...	<.011	<.02	<.008	<.02	<.034	<.02	<.010	<.002	<.009	7	.08
SEP 14...	<.011	<.02	.012	<.02	<.034	<.02	<.010	<.002	<.009	7	.10

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Biomass peri- phyton, ashfree drymass g/m2 (49954)	Peri- phyton biomass weight, g/m2 (00572)	Peri- phyton biomass dry weight, g/m2 (00573)
AUG 23...	1100	16.4	310	329.6