



Water-Data Report 2008

12121600 ISSAQUAH CREEK NEAR MOUTH, NEAR ISSAQUAH, WA

Puget Sound Basin
Lake Washington Subbasin

LOCATION.--Lat 47°33'09", long 122°02'48" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.21, T.24 N., R.6 E., King County, WA, 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.

SURFACE-WATER RECORDS

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 except for estimated discharges which are fair. 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 and December 2006 to December 2007. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--45 years (water years 1964-2008), 130 ft³/s, 31.18 in/yr, 94,090 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 (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 3	1430	*1,970	*11.15
No other peak greater than base discharge			

Minimum discharge, 14 ft³/s, Sept. 10, gage height, 3.12 ft.

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

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	78	43	52	124	164	146	185	142	76	44	33	28
2	101	41	147	149	145	155	171	122	74	44	29	27
3	103	40	1,380	155	130	144	158	113	94	57	26	26
4	66	41	853	154	119	146	165	109	105	49	25	25
5	53	40	421	148	134	130	195	104	96	47	24	24
6	44	37	285	139	140	121	195	99	144	52	23	24
7	59	37	214	132	157	114	219	e97	169	45	23	23
8	90	36	168	144	200	113	221	e92	142	41	22	23
9	62	38	142	151	593	106	214	e88	136	39	26	23
10	65	57	126	247	586	105	188	e85	206	37	26	21
11	65	48	114	412	444	125	178	e86	177	35	24	21
12	53	51	105	340	312	110	176	e84	154	34	23	21
13	46	50	108	278	261	121	186	e87	131	33	21	21
14	41	44	110	266	216	182	171	e98	116	32	21	21
15	38	64	112	252	187	213	185	e95	104	31	20	20
16	36	135	106	204	170	210	175	e91	95	30	20	20
17	40	129	120	182	154	226	156	86	86	30	20	20
18	43	120	137	163	143	199	146	80	82	29	21	20
19	61	91	206	163	136	179	144	76	77	29	22	20
20	127	81	283	183	129	170	140	114	70	28	53	27
21	98	68	210	153	124	162	130	112	66	28	55	36
22	78	61	209	139	120	145	126	137	62	27	36	27
23	65	55	249	128	117	186	125	119	60	27	29	25
24	75	51	289	121	112	194	119	110	57	28	27	24
25	93	48	228	112	107	167	113	104	55	27	41	29
26	72	51	205	117	102	180	107	98	52	25	41	30
27	63	65	181	124	103	169	104	92	51	25	62	27
28	56	56	176	114	119	165	112	88	50	25	43	24
29	51	58	162	126	119	192	116	84	48	25	37	23
30	48	51	149	126	---	221	129	81	45	30	31	22
31	44	---	133	149	---	199	---	78	---	26	29	---
Total	2,014	1,787	7,380	5,395	5,543	4,995	4,749	3,051	2,880	1,059	933	722
Mean	65.0	59.6	238	174	191	161	158	98.4	96.0	34.2	30.1	24.1
Max	127	135	1,380	412	593	226	221	142	206	57	62	36
Min	36	36	52	112	102	105	104	76	45	25	20	20
Ac-ft	3,990	3,540	14,640	10,700	10,990	9,910	9,420	6,050	5,710	2,100	1,850	1,430
Cfs/m	1.15	1.05	4.21	3.07	3.38	2.85	2.80	1.74	1.70	0.60	0.53	0.43
In.	1.32	1.17	4.85	3.55	3.64	3.28	3.12	2.01	1.89	0.70	0.61	0.47

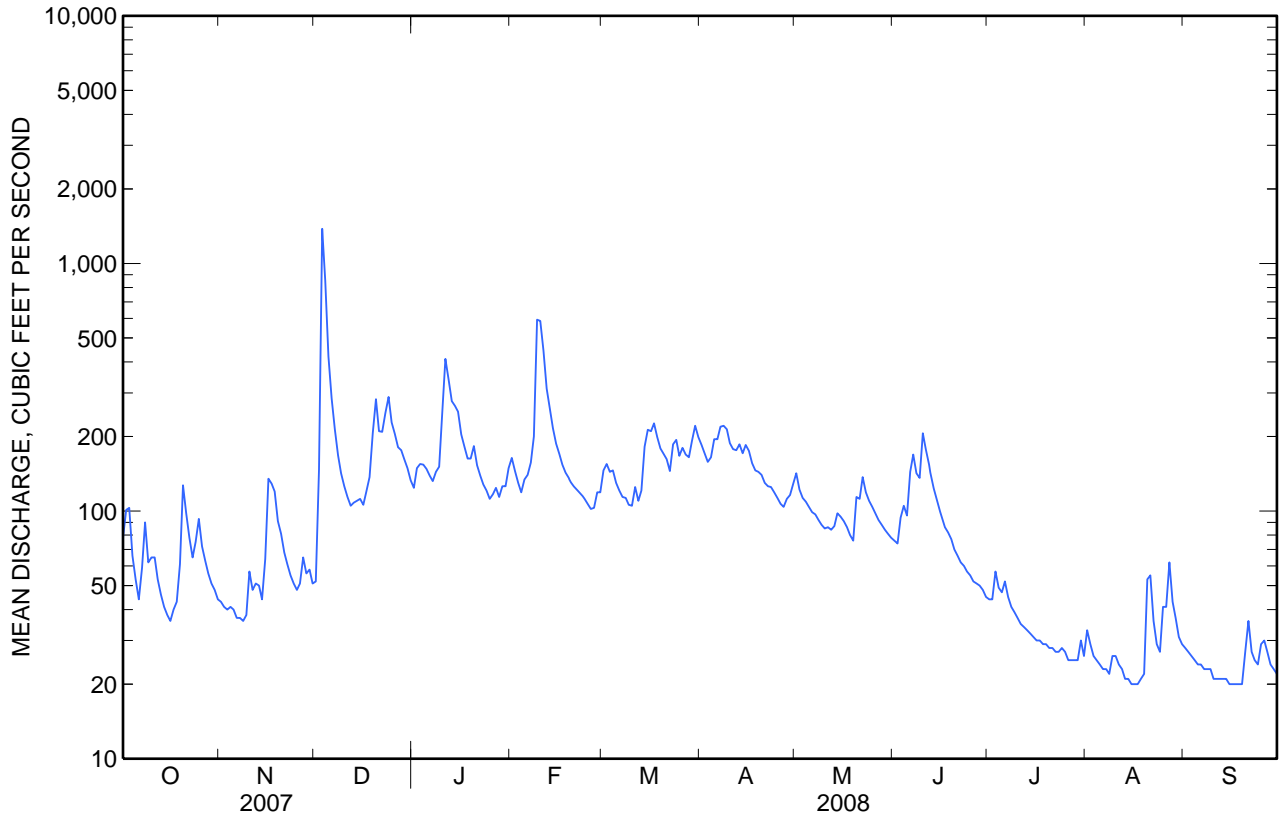
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	54.1	161	240	272	219	192	148	92.8	75.8	44.0	31.1	35.2
Max	151	440	520	537	546	420	280	166	179	116	56.4	85.5
(WY)	(1976)	(1991)	(1976)	(2006)	(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

	Calendar Year 2007		Water Year 2008		Water Years 1964 - 2008	
Annual total	41,639		40,508			
Annual mean	114		111		130	
Highest annual mean					197	1972
Lowest annual mean					72.6	2001
Highest daily mean	1,380	Dec 3	1,380	Dec 3	2,350	Nov 24, 1986
Lowest daily mean	14	Aug 16	20	Aug 15	11	Sep 1, 2003
Annual seven-day minimum	15	Aug 12	20	Sep 13	12	Sep 1, 2003
Annual runoff (ac-ft)	82,590		80,350		94,090	
Annual runoff (cfsm)	2.02		1.96		2.29	
Annual runoff (inches)	27.37		26.62		31.18	
10 percent exceeds	228		199		273	
50 percent exceeds	64		98		85	
90 percent exceeds	20		25		26	



12121600 ISSAQUAH CREEK NEAR MOUTH, NEAR ISSAQUAH, WA—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--November 1964 to September 1976; May 2001 to October 2001; December 2006 to December 2007 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: December 2006 to December 2007 (discontinued).

INSTRUMENTATION.--Temperature recorder with one-hour logging interval.

REMARKS.--Temperature record is rated good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 20.4°C, July 11, 2007; minimum recorded, 2.0°C, Jan. 14 and 15, 2007.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 12.2°C, Oct. 10; minimum recorded, 3.3°C, Nov. 23.

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	12.0	10.9	11.4	8.6	7.5	8.0	5.2	4.1	4.8	---	---	---
2	12.0	11.1	11.6	7.5	5.7	6.5	5.2	3.8	4.2	---	---	---
3	11.2	10.3	10.8	9.5	6.9	8.2	7.8	5.2	6.7	---	---	---
4	10.9	9.8	10.3	10.0	9.4	9.7	8.8	7.8	8.4	---	---	---
5	10.3	9.5	9.8	9.4	8.0	9.0	8.2	6.8	7.6	---	---	---
6	10.6	9.2	9.8	8.6	7.2	7.9	6.8	6.3	6.5	---	---	---
7	12.0	10.6	11.2	9.7	8.5	9.0	6.6	5.8	6.3	---	---	---
8	11.2	10.2	10.7	10.5	9.5	9.9	5.8	4.1	4.8	---	---	---
9	11.9	10.3	11.0	10.6	9.7	10.1	4.9	3.6	4.2	---	---	---
10	12.2	11.1	11.6	10.3	8.8	9.8	5.2	4.9	5.0	---	---	---
11	11.1	10.0	10.6	8.9	8.0	8.5	5.4	4.6	5.0	---	---	---
12	11.5	10.3	10.9	8.9	8.2	8.5	---	---	---	---	---	---
13	10.6	9.2	10.1	8.5	7.2	8.0	---	---	---	---	---	---
14	10.9	9.1	10.0	7.7	6.0	6.7	---	---	---	---	---	---
15	10.9	10.5	10.7	9.5	7.7	8.8	---	---	---	---	---	---
16	10.8	9.8	10.3	9.4	9.1	9.3	---	---	---	---	---	---
17	10.0	8.9	9.5	9.2	8.6	8.9	---	---	---	---	---	---
18	10.3	9.2	9.7	8.6	7.7	8.0	---	---	---	---	---	---
19	10.5	9.5	10.2	8.0	7.4	7.6	---	---	---	---	---	---
20	9.5	8.8	9.1	7.5	6.4	7.2	---	---	---	---	---	---
21	10.0	9.2	9.6	6.4	5.2	6.0	---	---	---	---	---	---
22	11.2	9.8	10.5	5.2	4.1	4.6	---	---	---	---	---	---
23	11.4	9.8	10.7	4.4	3.3	4.0	---	---	---	---	---	---
24	11.2	10.2	10.8	5.5	3.6	4.4	---	---	---	---	---	---
25	10.2	8.3	9.1	5.7	4.4	5.3	---	---	---	---	---	---
26	8.3	6.8	7.5	5.2	4.0	4.5	---	---	---	---	---	---
27	8.0	6.4	7.2	6.0	5.2	5.6	---	---	---	---	---	---
28	8.5	6.4	7.5	6.3	5.7	6.0	---	---	---	---	---	---
29	8.8	7.8	8.3	6.1	5.4	5.8	---	---	---	---	---	---
30	8.8	7.5	8.3	5.5	4.9	5.2	---	---	---	---	---	---
31	7.5	6.1	6.9	---	---	---	---	---	---	---	---	---
Month	12.2	6.1	9.9	10.6	3.3	7.4	---	---	---	---	---	---

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

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

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

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
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