

LAKE WASHINGTON BASIN

12121600 ISSAQUAH CREEK NEAR MOUTH, NEAR ISSAQUAH, WA

LOCATION.--Lat 47°33'09", long 122°02'48", in SE 1/4 NW 1/4 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, except for estimated daily discharges, which are fair. Washington State Department of Fish and Wildlife operated a fish trap at the gaging site July 16 to September 9, 2002. 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.--39 years (water years 1964-2002), 133 ft³/s, 31.88 in/yr, 96,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft³/s Jan. 9, 1990, gage height, 13.50 ft; minimum discharge, 10 ft³/s Aug. 12, 1984, Sept. 29, 1994.

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)
Nov. 14	1745	*2,080	*11.50	Jan. 25	1030	999	7.91
Dec. 13	2045	1,510	9.71	Apr. 14	0515	983	7.85
Dec. 16	1400	1,120	8.36				

Minimum discharge, 13 ft³/s Sept. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	139	497	e135	325	176	146	107	72	66	e29	e23
2	20	133	469	e145	283	160	133	104	66	53	e27	e27
3	20	117	382	e130	268	148	122	100	63	47	e26	e34
4	20	107	335	120	240	136	117	95	61	44	e26	e26
5	19	142	287	118	e239	142	111	97	75	42	e27	e23
6	19	114	317	140	e273	131	113	96	90	39	e26	e22
7	21	97	260	411	e323	120	105	101	74	40	e26	e22
8	31	87	e241	447	e469	114	100	94	73	52	e26	e22
9	36	78	e285	303	e358	109	112	87	69	43	e25	e22
10	30	71	e272	253	e309	108	176	85	62	38	e25	21
11	47	65	e238	212	e275	287	232	82	59	34	e25	20
12	35	69	e239	e190	e237	283	215	79	54	32	e26	20
13	49	128	908	e165	e210	260	417	79	50	31	e24	19
14	48	1380	932	e150	e184	222	822	85	e48	29	e22	19
15	42	824	571	e140	e171	235	502	76	e48	29	e22	18
16	53	413	938	e135	e157	228	399	72	e48	e28	e21	22
17	70	247	846	127	e155	203	320	74	e48	e29	e21	22
18	46	162	557	134	e164	185	259	69	e51	e29	e22	20
19	59	190	467	267	e174	259	218	67	e55	e29	e22	21
20	64	214	367	309	159	582	194	77	47	e29	e22	21
21	61	212	300	309	368	390	177	72	43	e29	e23	20
22	76	386	260	236	574	292	172	80	39	e27	e22	20
23	70	595	227	201	522	243	160	81	37	e27	e21	20
24	74	373	e205	287	441	221	147	72	37	e27	e21	20
25	148	251	e190	810	323	212	137	67	36	e28	e22	20
26	115	190	e175	567	262	190	130	63	35	e29	e22	19
27	164	152	e160	368	220	178	146	62	35	e29	e22	17
28	142	247	e150	287	200	171	132	76	64	e30	e21	17
29	103	460	e140	238	---	165	121	135	113	e32	e20	24
30	94	471	e135	267	---	158	114	94	65	e31	e19	22
31	148	---	e135	349	---	148	---	80	---	e30	e19	---
TOTAL	1944	8114	11485	7950	7883	6456	6249	2608	1717	1082	722	643
MEAN	62.7	270	370	256	282	208	208	84.1	57.2	34.9	23.3	21.4
MAX	164	1380	938	810	574	582	822	135	113	66	29	34
MIN	19	65	135	118	155	108	100	62	35	27	19	17
AC-FT	3860	16090	22780	15770	15640	12810	12390	5170	3410	2150	1430	1280
CFSM	1.11	4.78	6.55	4.53	4.97	3.68	3.68	1.49	1.01	0.62	0.41	0.38
IN.	1.28	5.33	7.55	5.23	5.18	4.24	4.11	1.71	1.13	0.71	0.47	0.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	54.2	162	248	271	228	196	152	94.6	77.8	46.3	32.2	36.3																											
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	74.9	106	70.8	86.2	81.5	56.0	29.8	25.2	16.6	19.1																											
(WY)	1988	1980	2001	2001	1993	1992	1977	1992	1992	1995	1994	1987																											

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1964 - 2002

	2001	2002	1964 - 2002
ANNUAL TOTAL	42475	56853	
ANNUAL MEAN	116	156	133
HIGHEST ANNUAL MEAN			197
LOWEST ANNUAL MEAN			72.6
HIGHEST DAILY MEAN	1380	Nov 14	2350
LOWEST DAILY MEAN	19	Sep 21	13
ANNUAL SEVEN-DAY MINIMUM	20	Sep 30	14
ANNUAL RUNOFF (AC-FT)	84250		96200
ANNUAL RUNOFF (CFSM)	2.06	2.75	2.35
ANNUAL RUNOFF (INCHES)	27.92	37.37	31.88
10 PERCENT EXCEEDS	240	353	279
50 PERCENT EXCEEDS	76	104	87
90 PERCENT EXCEEDS	22	22	27

e Estimated