

LAKE WASHINGTON BASIN

12128000 THORNTON CREEK NEAR SEATTLE, WA

LOCATION.--Lat 47°41'45", long 122°16'30", in NW 1/4 SE 1/4 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 mi<sup>2</sup>.

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 sea level, from topographic map. June 1945 to September 1946 at datum 0.09 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Intermittent regulation and diversions. Natural flow affected by urbanization and flood-control catchments.

AVERAGE DISCHARGE.--13 years (water years 1946, 1962-68, 1997-2001), 12.2 ft<sup>3</sup>/s, 13.65 in/yr, 8,810 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 423 ft<sup>3</sup>/s Dec. 31, 1996, gage height, 5.26 ft; minimum daily discharge, 0.39 ft<sup>3</sup>/s Sept. 22, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft<sup>3</sup>/s June 11, gage height, 2.44 ft, maximum gage height, 3.32 ft (result of temporary fishtrap on Weir) May 14; minimum discharge, 1.4 ft<sup>3</sup>/s Sept. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	6.1	8.1	6.4	6.8	17	23	6.0	8.1	4.1	3.7	3.1
2	5.5	5.1	16	5.9	20	9.8	20	6.2	8.4	3.7	4.0	3.3
3	4.6	5.4	7.5	16	9.0	6.3	11	5.3	17	3.7	3.5	2.2
4	4.5	17	6.7	31	17	6.1	7.9	5.2	5.8	3.6	3.3	3.5
5	4.0	9.2	6.3	28	11	5.5	7.0	7.9	5.1	3.4	3.0	3.8
6	4.6	8.6	6.0	14	10	5.7	11	5.1	4.6	3.4	3.3	3.5
7	3.9	6.1	5.9	11	7.3	6.1	16	4.5	4.3	3.5	3.0	3.9
8	3.8	31	6.4	10	14	18	7.6	4.9	4.1	3.5	2.8	3.6
9	13	15	8.4	12	9.9	7.6	6.6	5.0	5.2	3.3	2.7	3.3
10	6.6	8.1	6.3	15	7.5	6.9	16	4.9	4.4	3.3	2.7	3.5
11	5.5	6.8	5.6	8.6	6.8	6.6	10	5.0	38	3.2	2.9	3.4
12	5.3	6.3	5.5	7.3	6.4	6.5	9.9	5.0	20	3.1	3.0	3.5
13	5.7	6.2	5.6	7.9	6.2	6.4	8.8	e8.5	7.3	3.2	2.8	3.4
14	10	5.8	14	14	6.1	6.7	6.3	e19	5.8	3.4	2.8	3.4
15	5.5	5.8	11	7.9	6.1	17	6.0	e33	5.2	7.6	2.9	3.6
16	16	5.6	27	7.0	11	13	5.8	e12	4.7	13	2.9	3.4
17	9.4	5.6	12	7.5	12	7.5	18	5.5	4.4	5.5	3.2	3.8
18	10	5.5	7.9	13	16	25	7.5	4.9	4.4	4.3	3.1	4.1
19	9.0	5.5	7.9	14	7.3	17	6.1	4.7	4.2	3.7	3.2	4.1
20	42	5.6	7.3	7.9	5.4	12	5.7	4.6	3.9	3.4	2.8	3.6
21	16	5.5	9.7	28	5.2	9.7	5.5	4.1	4.0	3.6	5.7	3.6
22	8.3	5.5	22	14	5.5	8.6	6.1	4.3	3.9	3.4	33	3.5
23	7.1	11	18	9.6	5.6	8.2	5.7	4.0	3.9	3.2	18	3.6
24	6.3	6.1	13	8.4	5.5	11	5.3	4.0	4.1	3.7	7.0	3.4
25	6.2	9.3	13	7.4	4.7	28	5.1	3.9	4.3	3.2	5.0	3.8
26	6.0	32	7.9	6.7	4.6	12	5.0	3.7	3.8	3.1	4.5	8.9
27	6.1	24	7.5	6.4	4.5	18	4.9	3.8	18	3.3	4.4	4.7
28	20	10	6.4	6.7	4.4	20	5.3	6.8	11	7.9	3.8	4.1
29	14	14	6.1	18	---	14	9.0	4.4	5.1	4.7	3.6	3.8
30	7.7	18	6.1	8.0	---	16	13	5.2	4.6	4.0	3.5	3.8
31	6.6	---	12	7.1	---	11	---	4.2	---	3.7	3.3	---
TOTAL	282.4	305.7	303.1	364.7	235.8	363.2	275.1	205.6	227.6	129.7	153.4	113.2
MEAN	9.11	10.2	9.78	11.8	8.42	11.7	9.17	6.63	7.59	4.18	4.95	3.77
MAX	42	32	27	31	20	28	23	33	38	13	33	8.9
MIN	3.8	5.1	5.5	5.9	4.4	5.5	4.9	3.7	3.8	3.1	2.7	2.2
AC-FT	560	606	601	723	468	720	546	408	451	257	304	225
CFSM	.75	.84	.81	.97	.70	.97	.76	.55	.63	.35	.41	.31
IN.	.87	.94	.93	1.12	.72	1.12	.85	.63	.70	.40	.47	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2001, BY WATER YEAR (WY)

	1945	1946	1946	1946	1946	1946	1946	1946	1946	1946	1945	1945
MEAN	10.2	15.4	17.9	19.8	17.8	16.4	12.5	9.24	8.05	6.02	5.85	7.56
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	1946	1946	1945	1945
MIN	7.36	7.96	9.78	11.8	8.42	10.2	8.64	6.63	3.62	3.26	1.79	1.27
(WY)	1999	1968	2001	2001	2001	1965	2000	2001	1997	1996	1999	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1945 - 2001

ANNUAL TOTAL	3371.2	2959.5	
ANNUAL MEAN	9.21	8.11	12.2
HIGHEST ANNUAL MEAN			23.0
LOWEST ANNUAL MEAN			8.11
HIGHEST DAILY MEAN	44	May 3	129
LOWEST DAILY MEAN	1.9	Aug 14	.39
ANNUAL SEVEN-DAY MINIMUM	3.0	Aug 9	.52
ANNUAL RUNOFF (AC-FT)	6690	5870	8810
ANNUAL RUNOFF (CFSM)	.76	.67	1.00
ANNUAL RUNOFF (INCHES)	10.36	9.10	13.65
10 PERCENT EXCEEDS	17	16	23
50 PERCENT EXCEEDS	7.3	6.1	9.0
90 PERCENT EXCEEDS	3.7	3.4	4.5

e Estimated