

## LAKE WASHINGTON BASIN

1

12118500 ROCK CREEK NEAR MAPLE VALLEY, WA

LOCATION.--Lat 47°22'50", long 122°01'10", in SE 1/4 NE 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 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Elevation of gage is 425 ft above NGVD of 1929, from topographic map. Prior to March 16, 1953, recording gage at site 50 ft upstream at datum 13.10 ft higher. March 16, 1953, to September 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.

AVERAGE DISCHARGE.--29 years (water years 1946-73, 2002), 19.9 ft<sup>3</sup>/s, 14,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 221 ft<sup>3</sup>/s Mar. 6, 1972, gage height 4.06 ft datum then in use; minimum, 0.29 ft<sup>3</sup>/s Sept. 27, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60 ft<sup>3</sup>/s Dec. 18, 19, gage height 11.57 ft; minimum discharge, 1.2 ft<sup>3</sup>/s, Oct. 5, 6.

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	1.6	5.1	23	28	41	35	31	19	7.9	4.7	4.4	4.1
2	2.0	4.5	24	28	43	33	29	19	7.7	4.4	4.2	4.2
3	1.6	3.7	25	25	42	32	27	18	7.5	4.0	4.5	3.9
4	1.4	3.7	24	25	41	31	26	17	7.3	4.2	5.1	3.0
5	1.3	3.9	24	25	40	31	25	17	7.5	4.1	4.9	2.5
6	1.5	4.2	24	24	39	29	24	16	7.2	4.1	4.5	2.6
7	1.6	4.7	23	26	37	27	23	16	7.2	4.2	4.9	2.9
8	1.6	4.7	23	27	38	26	22	15	7.0	4.3	4.1	3.7
9	1.4	4.8	23	28	37	25	21	15	6.8	6.1	3.6	3.5
10	2.2	4.3	23	28	38	24	22	15	6.6	5.7	4.4	3.3
11	3.1	4.0	22	28	36	25	22	14	6.6	4.8	4.4	3.2
12	3.0	4.9	22	28	35	25	22	14	6.5	3.8	4.0	2.7
13	3.2	5.9	28	27	35	27	24	13	6.6	3.6	4.6	2.7
14	3.4	15	38	26	33	30	32	13	6.3	3.2	3.7	2.9
15	3.4	16	42	26	32	29	36	12	6.5	3.2	2.6	3.6
16	3.9	11	46	25	31	28	38	12	6.7	3.1	3.1	3.5
17	3.6	10	55	24	30	27	37	12	6.6	3.3	2.9	3.1
18	3.5	10	58	24	29	26	35	12	6.9	4.3	2.6	3.2
19	3.7	10	58	24	28	28	35	11	6.6	3.7	3.0	2.9
20	3.5	10	54	25	26	37	33	11	6.3	3.8	3.3	2.7
21	3.6	11	51	25	28	47	31	11	5.1	3.6	3.1	2.6
22	3.5	13	47	24	30	51	29	11	5.2	3.3	3.0	2.5
23	3.5	15	44	25	34	49	28	10	5.1	4.4	2.6	2.5
24	3.8	16	42	26	37	46	27	9.9	4.8	4.2	3.1	2.6
25	4.0	17	40	31	38	43	25	9.6	4.5	4.1	3.0	2.7
26	3.9	17	39	37	38	40	24	9.3	4.3	3.7	3.0	2.8
27	4.8	17	36	39	38	39	24	9.0	4.5	3.8	3.3	2.9
28	4.8	17	34	39	36	36	23	9.0	5.6	3.8	3.1	2.9
29	4.6	19	32	40	---	35	21	9.1	5.7	4.6	3.0	3.1
30	4.6	21	32	38	---	34	20	8.5	5.5	6.0	3.3	3.0
31	4.5	---	29	39	---	32	---	8.2	---	4.6	3.8	---
TOTAL	96.1	303.4	1085	884	990	1027	816	395.6	188.6	128.7	113.1	91.8
MEAN	3.10	10.1	35.0	28.5	35.4	33.1	27.2	12.8	6.29	4.15	3.65	3.06
MAX	4.8	21	58	40	43	51	38	19	7.9	6.1	5.1	4.2
MIN	1.3	3.7	22	24	26	24	20	8.2	4.3	3.1	2.6	2.5
AC-FT	191	602	2150	1750	1960	2040	1620	785	374	255	224	182
CFSM	0.25	0.80	2.78	2.26	2.81	2.63	2.16	1.01	0.50	0.33	0.29	0.24
IN.	0.28	0.90	3.20	2.61	2.92	3.03	2.41	1.17	0.56	0.38	0.33	0.27

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2002, BY WATER YEAR (WY)

	MEAN	6.01	12.6	29.0	38.7	41.3	36.3	25.9	17.7	11.8	8.55	6.14	5.29
MAX	14.8	38.4	81.1	79.5	87.6	128	53.6	31.8	23.4	17.4	11.0	8.75	8.75
(WY)	1960	1960	1956	1956	1965	1972	1950	1950	1948	1948	1948	1948	1948
MIN	1.84	3.31	4.04	12.3	11.6	13.5	5.28	4.15	4.28	3.10	1.46	1.05	1.05
(WY)	1971	1968	1953	1952	1962	1973	1973	1973	1973	1973	1973	1973	1973

## SUMMARY STATISTICS

## FOR 2002 WATER YEAR

## WATER YEARS 1945 - 2002

ANNUAL TOTAL	6119.3		
ANNUAL MEAN	16.8	19.9	
HIGHEST ANNUAL MEAN		30.6	1956
LOWEST ANNUAL MEAN		9.81	1973
HIGHEST DAILY MEAN	58	Dec 18	218
LOWEST DAILY MEAN	1.3	Oct 5	0.36
ANNUAL SEVEN-DAY MINIMUM	1.5	Oct 3	0.78
ANNUAL RUNOFF (AC-FT)	12140		14410
ANNUAL RUNOFF (CFSM)	1.33		1.58
ANNUAL RUNOFF (INCHES)	18.07		21.45
10 PERCENT EXCEEDS	38		43
50 PERCENT EXCEEDS	11		14
90 PERCENT EXCEEDS	3.0		4.2