LAKE WASHINGTON BASIN

12120000 MERCER CREEK NEAR BELLEVUE, WA

LOCATION.--Lat 47°36'11", long 122°10'47", in NW $^1/_4$ NW $^1/_4$ 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 mi^2.

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.--No estimated daily discharges. Records good except for the period Oct. 10 to Nov. 15, which is fair. Natural flow affected by urbanization and construction of flood-control catchments.

AVERAGE DISCHARGE.--47 years (water years 1956-2002), 22.6 ft^3/s, 25.62 in/yr, 16,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 832 ft^3/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 ft^3/s Aug. 6, 1958.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 14	1500	*547	*4.97	Feb 08	0345	272	3.21
Nov 22	1500	262	3.25	Feb 22	1045	312	3.50
Dec 13	1900	397	4.07	Apr 14	0330	272	3.21
Dec 16	1715	293	3.36				

Minimum discharge, 4.0 ft^3/s, Aug. 9, 12-15.

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	6.2	16	95	28	24	15	13	10	8.0	14	5.8	5.7
2	6.1	20	86	50	17	14	12	11	7.5	8.2	5.8	7.8
3	6.3	12	63	18	20	14	11	11	7.5	7.6	5.8	12
4	7.1	26	49	14	14	13	11	9.7	8.0	7.6	5.9	6.7
5	5.8	38	37	16	29	14	11	9.7	8.3	9.4	5.8	6.6
6	6.0	14	39	50	49	13	12	12	16	6.8	6.0	6.3
7	6.5	11	20	163	41	12	21	12	13	13	6.0	6.1
8	20	9.6	18	115	116	27	12	9.7	11	55	5.8	6.2
9	12	9.2	23	35	28	23	26	9.3	8.6	11	5.6	6.3
10	13	8.7	35	23	30	32	50	9.1	7.8	8.6	5.5	5.9
11	24	8.7	25	24	32	116	21	8.7	7.7	7.7	5.5	5.8
12	12	30	26	53	16	60	22	8.2	7.3	7.2	5.3	5.9
13	22	84	174	31	15	38	72	13	7.0	7.0	5.2	5.8
14	10	387	90	18	14	25	118	13	6.9	7.0	5.3	5.6
15	8.0	117	58	15	13	36	37	9.1	6.9	7.1	5.4	5.8
16	55	52	201	15	13	37	34	8.3	7.0	6.7	5.6	7.7
17	44	25	120	14	15	22	20	16	7.4	6.8	5.5	7.2
18	12	16	54	19	16	23	14	9.2	10	6.6	5.5	6.3
19	22	88	39	77	41	30	13	8.9	9.2	6.6	6.0	6.2
20	11	77	26	27	16	72	13	18	7.3	6.2	6.5	7.0
21	25	54	20	17	135	28	12	10	6.8	5.8	6.4	6.0
22	14	149	16	15	204	19	14	12	6.7	5.8	6.2	5.7
23	11	91	15	14	93	16	12	10	6.6	5.8	6.1	5.0
24	18	32	14	27	49	15	11	8.3	6.6	5.7	6.0	5.2
25	68	23	13	116	26	15	11	8.2	6.4	6.1	6.1	5.6
26	22	19	13	44	20	13	19	8.4	6.4	6.5	6.5	5.4
27	121	15	13	30	17	16	34	8.5	7.8	6.7	6.2	6.2
28	25	96	18	27	24	17	13	15	24	6.8	5.9	6.0
29	15	118	13	18	---	15	12	31	32	7.2	5.8	38
30	22	82	12	42	---	14	11	10	9.7	7.6	5.6	11
31	46	---	21	42	---	12	---	8.5	---	6.5	5.8	---
TOTAL	696.0	1728.2	1446	1197	1127	816	692	345.8	285.4	280.6	180.4	227.0
MEAN	22.5	57.6	46.6	38.6	40.2	26.3	23.1	11.2	9.51	9.05	5.82	7.57
MAX	121	387	201	163	204	116	118	31	32	55	6.5	38
MIN	5.8	8.7	12	14	13	12	11	8.2	6.4	5.7	5.2	5.0
AC-FT	1380	3430	2870	2370	2240	1620	1370	686	566	557	358	450
CFSM	1.87	4.80	3.89	3.22	3.35	2.19	1.92	0.93	0.79	0.75	0.48	0.63
IN.	2.16	5.36	4.48	3.71	3.49	2.53	2.15	1.07	0.88	0.87	0.56	0.70

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

MEAN	16.6	32.3	40.0	39.9	34.9	30.1	22.1	14.7	12.5	8.94	8.59	10.9
MAX	44.4	60.9	70.7	74.1	61.1	67.5	39.9	27.2	23.8	16.5	18.7	22.3
(WY)	1982	2000	1997	1997	1996	1972	1991	1996	1985	1997	1976	1978
MIN	7.47	11.0	16.5	15.9	10.2	15.4	12.7	8.45	5.34	3.22	3.25	5.05
(WY)	1988	1977	1977	1977	1993	1965	1962	1958	1958	1958	1945	1955

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1945 - 2002	
ANNUAL TOTAL	8035.8		9021.4			
ANNUAL MEAN	22.0		24.7		22.6	
HIGHEST ANNUAL MEAN					36.8	1997
LOWEST ANNUAL MEAN					14.6	1994
HIGHEST DAILY MEAN	387	Nov 14	387	Nov 14	412	Jan 1 1997
LOWEST DAILY MEAN	4.7	Aug 11	5.0	Sep 23	2.5	Jul 16 1958
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 7	5.4	Aug 9	2.8	Jul 23 1958
ANNUAL RUNOFF (AC-FT)	15940		17890		16390	
ANNUAL RUNOFF (CFSM)	1.83		2.06		1.89	
ANNUAL RUNOFF (INCHES)	24.91		27.97		25.62	
10 PERCENT EXCEEDS	48		54		47	
50 PERCENT EXCEEDS	12		13		14	
90 PERCENT EXCEEDS	5.8		5.9		6.7	