

DUWAMISH RIVER BASIN

12108500 NEWAUKUM CREEK NEAR BLACK DIAMOND, WA

LOCATION.--Lat 47°16'33", long 122°03'30", in NW 1/4 SW 1/4 sec.28, T.21 N., R.6 E., King County, Hydrologic Unit 17110013, on right bank 0.1 mi downstream from West Whitney Hill bridge, 0.8 mi upstream from mouth, and 3.5 mi southwest of Black Diamond.

DRAINAGE AREA.--27.4 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1944 to November 1950, water years 1951-52 (annual maximum), September 1952 to current year.

REVISED RECORDS.--WSP 1396: 1946(M), 1949(P). WSP 1932: Drainage area. WDR WA-74-1: 1973(M). WDR WA-76-1: 1975. WDR WA-00-1: 1999 (m).

GAGE.--Water-stage recorder. Elevation of gage is 310 ft above NGVD of 1929, from topographic map. November 1950 to September 1952 stilling well with nonrecording gage only.

REMARKS.--Records good except for those above 80 ft<sup>3</sup>/s, which are fair and those above 200 ft<sup>3</sup>/s, which are poor. Many small diversions upstream from station for irrigation and domestic use. No regulation.

AVERAGE DISCHARGE.--56 years (water years 1945-50, 1953-2002), 59.8 ft<sup>3</sup>/s, 29.63 in/yr, 43,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,640 ft<sup>3</sup>/s Feb. 8, 1996, gage height, 3.95 ft from rating curve extended above 1,260 ft<sup>3</sup>/s; minimum discharge, 8.0 ft<sup>3</sup>/s Oct. 13, 14, 1952.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Mar 20	1000	*488	*3.02	No other peak greater than base discharge.			

Minimum discharge, 9.8 ft<sup>3</sup>/s Oct. 7.

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	12	36	119	61	122	62	64	49	32	40	21	15
2	12	31	96	85	94	58	61	48	31	35	19	15
3	12	25	102	65	85	55	59	47	30	32	19	17
4	11	23	82	58	79	53	57	45	29	31	20	15
5	11	43	92	54	78	59	55	47	40	29	24	15
6	11	34	106	59	80	63	55	49	32	28	27	14
7	11	26	89	185	92	61	52	48	30	27	23	14
8	13	22	77	210	186	57	49	45	30	e27	20	14
9	16	19	81	138	117	53	56	43	30	29	19	14
10	17	18	97	97	92	49	78	41	27	28	19	14
11	21	17	112	80	84	118	75	40	26	27	19	14
12	16	19	84	79	74	181	74	39	25	26	18	13
13	16	41	183	70	70	142	110	39	23	25	e17	13
14	18	291	252	65	66	98	240	43	23	25	e17	13
15	18	347	176	60	62	90	175	38	23	e24	e16	13
16	17	264	237	58	60	88	114	37	23	24	e16	13
17	17	166	237	54	59	94	100	38	23	24	16	14
18	16	75	162	52	64	89	80	37	25	23	16	14
19	17	74	149	76	66	149	73	36	28	23	16	13
20	19	72	115	118	64	422	69	38	24	23	24	14
21	19	81	95	136	119	249	66	38	22	23	18	13
22	24	145	81	101	111	160	63	39	21	23	17	13
23	32	200	73	77	156	115	60	39	20	23	16	13
24	26	128	67	90	156	96	57	36	20	23	15	13
25	39	86	63	221	100	88	55	34	20	23	15	12
26	26	76	60	210	80	81	53	34	19	23	16	12
27	35	66	58	131	71	78	74	33	19	24	16	12
28	34	118	62	98	67	73	65	39	40	23	15	12
29	23	165	57	82	---	70	57	40	71	24	15	12
30	23	136	52	104	---	67	52	36	51	23	15	12
31	51	---	59	133	---	65	---	34	---	22	14	---
TOTAL	633	2844	3351	3107	2554	3183	2298	1249	857	804	558	405
MEAN	20.4	94.8	108	100	91.2	103	76.6	40.3	28.6	25.9	18.0	13.5
MAX	51	347	252	221	186	422	240	49	71	40	27	17
MIN	11	17	52	52	59	49	49	33	19	22	14	12
AC-FT	1260	5640	6650	6160	5070	6310	4560	2480	1700	1590	1110	803
CFSM	0.75	3.46	3.95	3.66	3.33	3.75	2.80	1.47	1.04	0.95	0.66	0.49
IN.	0.86	3.86	4.55	4.22	3.47	4.32	3.12	1.70	1.16	1.09	0.76	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

	24.7	66.3	97.6	115	105	88.5	69.4	48.5	39.4	26.2	20.0	19.7
MEAN	24.7	66.3	97.6	115	105	88.5	69.4	48.5	39.4	26.2	20.0	19.7
MAX	58.9	215	225	252	267	215	134	97.0	98.1	48.6	32.2	39.2
(WY)	1956	1991	1956	1975	1996	1950	1991	1984	1990	1997	1976	1959
MIN	9.42	9.99	11.2	37.4	34.4	40.7	40.0	31.0	20.7	16.8	12.9	11.1
(WY)	1953	1953	1953	1977	1977	1992	1977	1992	1992	1995	1958	1994

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1944 - 2002

ANNUAL TOTAL	17106	21843	
ANNUAL MEAN	46.9	59.8	59.8
HIGHEST ANNUAL MEAN			85.9 1956
LOWEST ANNUAL MEAN			33.7 2001
HIGHEST DAILY MEAN	347	Nov 15	422 Mar 20 1670 Feb 9 1996
LOWEST DAILY MEAN	11	Aug 20	11 Oct 4 8.3 Oct 11 1952
ANNUAL SEVEN-DAY MINIMUM	11	Oct 1	11 Oct 1 8.3 Oct 11 1952
ANNUAL RUNOFF (AC-FT)	33930	43330	43290
ANNUAL RUNOFF (CFSM)	1.71	2.18	2.18
ANNUAL RUNOFF (INCHES)	23.22	29.66	29.63
10 PERCENT EXCEEDS	94	120	117
50 PERCENT EXCEEDS	34	41	41
90 PERCENT EXCEEDS	13	15	17

e Estimated