

DUWAMISH RIVER BASIN

12113000 GREEN RIVER NEAR AUBURN, WA

LOCATION.--Lat 47°18'45", long 122°12'10", in NW 1/4 NW 1/4 sec.17, T.21 N., R.5 E., King County, Hydrologic Unit 17110013, on left bank 1.2 mi east of Auburn, 1.8 mi downstream from Big Soos Creek, and at mile 32.0.

DRAINAGE AREA.--399 mi², excludes 3.67 mi² in the vicinity of Youngs Lake, flow from which has been diverted to Cedar River basin since about 1935.

PERIOD OF RECORD.--August 1936 to current year.

REVISED RECORDS.--WSP 1932: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Oct. 19, 1936, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Since Dec. 5, 1961, flow regulated by Howard A. Hanson Reservoir (station 12105800), 32.5 mi upstream from station, for flood control and during summer months, to augment the natural river flow. City of Tacoma diverted an average daily discharge of about 87 ft³/s from river at headworks near Palmer, 29 mi upstream from station, for municipal use. Minor diversions on upstream tributaries for domestic use. U.S. Geological Survey satellite telemeter at station. Water temperatures March 1952 to September 1986.

AVERAGE DISCHARGE.--25 years (water years 1937-61), 1,346 ft³/s, 974,500 acre-ft/yr, unregulated.
40 years (water years 1962-2001), 1,330 ft³/s, 963,800 acre-ft/yr, regulated.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft³/s Nov. 23, 1959, elevation, 69.75 ft; minimum discharge, 81 ft³/s Sept. 23, 1952; minimum elevation, 52.76 ft Oct. 22, 29-31, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Elevation (ft)
May 01	0115	*3,510	*57.31

Minimum discharge, 247 ft³/s Aug. 19-21; elevation 53.05 ft.

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	631	475	647	855	684	504	1750	3430	867	599	349	263
2	594	450	564	884	701	517	1830	3360	878	620	341	263
3	840	436	549	1200	720	503	1920	3410	897	610	332	261
4	781	436	535	1330	900	496	1840	3370	872	610	309	259
5	714	435	526	1570	1180	489	1810	2880	864	604	302	255
6	738	463	488	1970	2220	469	1830	2770	801	610	301	254
7	728	492	484	1970	1540	461	1580	2280	821	629	309	254
8	723	627	485	1900	1200	471	1540	1410	825	624	307	260
9	732	651	539	1560	1090	523	1490	1290	725	618	286	258
10	762	597	537	1160	731	494	1480	1350	717	589	277	255
11	729	570	528	1090	697	480	1680	1300	1290	558	271	254
12	711	556	519	967	684	477	1540	1210	2180	520	267	259
13	702	548	533	813	676	481	1490	1200	2490	522	263	258
14	699	535	753	830	598	496	1590	1300	2160	516	264	258
15	689	526	736	813	567	523	1550	1590	1770	515	265	482
16	706	509	526	778	600	645	1520	1820	1320	524	266	522
17	716	502	656	692	690	850	1550	1750	1160	509	259	519
18	705	494	609	688	631	940	1540	1680	1130	461	254	367
19	594	486	703	693	604	1350	1420	1660	1070	408	250	334
20	742	479	677	696	583	1300	1320	1640	922	366	252	324
21	869	434	560	743	573	1330	1290	1610	890	344	256	338
22	802	426	539	759	576	1370	1280	1390	744	334	326	346
23	777	450	543	679	523	1420	1330	1420	785	326	398	343
24	893	467	586	647	516	1480	1320	1590	787	319	360	341
25	995	475	573	638	510	1530	1360	1670	745	341	311	369
26	984	545	563	617	505	1580	1400	1400	719	339	289	424
27	1060	872	608	577	500	1590	1430	1380	755	354	277	410
28	1430	1610	649	569	498	1660	1740	1380	790	399	271	383
29	1360	1680	693	566	---	1630	1790	1120	731	383	266	374
30	1210	1180	760	533	---	1630	2250	985	625	366	263	372
31	693	---	826	562	---	1680	---	876	---	361	260	---
TOTAL	25309	18406	18494	29349	21497	29369	47460	55521	31330	14878	9001	9859
MEAN	816	614	597	947	768	947	1582	1791	1044	480	290	329
MAX	1430	1680	826	1970	2220	1680	2250	3430	2490	629	398	522
MIN	594	426	484	533	498	461	1280	876	625	319	250	254
AC-FT	50200	36510	36680	58210	42640	58250	94140	110100	62140	29510	17850	19560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001, BY WATER YEAR (WY)

	623	1583	2155	2288	2116	1708	1785	1577	972	523	313	371
MEAN	623	1583	2155	2288	2116	1708	1785	1577	972	523	313	371
MAX	1364	5045	5654	3908	4969	4994	3023	2896	2849	1069	514	955
(WY)	1996	1991	1976	1975	1996	1972	1989	1972	1974	1972	1974	1968
MIN	173	194	597	703	720	891	601	603	330	262	227	210
(WY)	1988	1988	2001	1988	1977	1963	1992	1994	1987	1987	1989	1989

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1962 - 2001	
ANNUAL TOTAL	373796		310473		1330	
ANNUAL MEAN	1021		851		2071	1972
HIGHEST ANNUAL MEAN					785	1977
LOWEST ANNUAL MEAN					11600	Dec 3 1975
HIGHEST DAILY MEAN	3010	Feb 2	3430	May 1	152	Oct 30 1987
LOWEST DAILY MEAN	220	Aug 29	250	Aug 19	157	Oct 20 1987
ANNUAL SEVEN-DAY MINIMUM	224	Aug 23	256	Sep 5	963800	
ANNUAL RUNOFF (AC-FT)	741400		615800		2700	
10 PERCENT EXCEEDS	1910		1620		965	
50 PERCENT EXCEEDS	901		651		270	
90 PERCENT EXCEEDS	266		308			