

BIG QUILCENE BASIN

12052210 BIG QUILCENE RIVER BELOW DIVERSION DAM, NEAR QUILCENE, WA

LOCATION.--Lat 47°47'05", long 122°58'42", in SW 1/4 SE 1/4 sec.31, T.27 N., R.2 W., Jefferson County, Hydrologic Unit 17110018, on left bank, 5.5 mi southwest of Quilcene, and at mile 9.4.

DRAINAGE AREA.--49.4 mi².

PERIOD OF RECORD.--January 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,009.23 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records fair. Water for municipal use is diverted upstream by City of Port Townsend.

AVERAGE DISCHARGE.--8 years (water years 1995-2002), 155 ft³/s, 112,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,690 ft³/s Jan. 7, 2002, gage height, 5.48 ft, from rating curve extended above 2,000 ft³/s; maximum gage height, 6.41 ft Dec. 12, 1995; minimum discharge, 11 ft³/s Sept. 26, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,690 ft³/s, Jan. 7, gage height, 5.48 ft; minimum discharge, 11 ft³/s Sept. 26.

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	28	48	454	173	103	141	114	153	184	128	60	29
2	29	34	363	614	99	131	111	180	176	114	57	28
3	29	30	242	498	111	125	108	172	174	106	55	29
4	29	32	196	363	102	118	108	160	176	103	52	28
5	28	28	146	301	104	113	121	148	184	98	53	29
6	29	25	127	669	122	106	134	138	190	95	51	31
7	28	26	115	2250	125	102	135	128	174	95	48	30
8	29	26	158	1710	109	96	129	122	151	97	46	28
9	29	27	171	798	105	97	132	119	138	98	47	28
10	29	27	156	542	99	111	141	112	139	99	43	29
11	28	28	135	434	92	280	146	109	154	104	42	28
12	29	38	121	393	88	248	156	110	168	107	53	29
13	29	102	241	355	87	194	204	130	185	106	54	29
14	29	456	385	310	86	165	424	145	205	104	38	29
15	29	809	285	266	84	147	332	143	207	99	37	29
16	31	493	1350	222	83	134	272	136	199	94	41	29
17	28	286	1120	205	82	121	216	144	174	91	38	28
18	29	192	500	192	84	113	190	139	163	88	38	27
19	30	616	355	191	144	107	175	138	149	87	37	28
20	28	1540	276	190	123	103	164	142	139	83	36	29
21	28	921	214	194	312	100	154	159	135	80	33	28
22	30	621	177	159	551	99	146	168	145	77	31	28
23	22	460	156	153	431	102	137	162	154	75	29	28
24	25	350	144	150	326	107	129	155	144	76	29	28
25	26	278	131	162	267	126	125	164	137	76	29	29
26	30	216	117	141	206	134	123	178	144	76	29	29
27	54	176	113	136	180	128	120	193	154	74	29	29
28	31	173	120	126	160	121	116	217	154	71	28	28
29	27	189	116	120	---	116	115	247	150	69	28	28
30	30	173	110	114	---	115	124	239	142	66	28	29
31	68	---	116	107	---	113	---	208	---	63	28	---
TOTAL	948	8420	8410	12238	4465	4013	4801	4858	4888	2799	1247	858
MEAN	30.6	281	271	395	159	129	160	157	163	90.3	40.2	28.6
MAX	68	1540	1350	2250	551	280	424	247	207	128	60	31
MIN	22	25	110	107	82	96	108	109	135	63	28	27
AC-FT	1880	16700	16680	24270	8860	7960	9520	9640	9700	5550	2470	1700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	74.9	183	239	241	197	172	156	179	170
MAX	328	316	330	395	385	326	214	308	439
(WY)	1998	2000	1996	2002	1995	1999	1999	1999	1999
MIN	29.0	38.7	72.1	66.8	38.5	36.5	66.7	83.7	64.5
(WY)	1999	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1994 - 2002

ANNUAL TOTAL	32075	57945	
ANNUAL MEAN	87.9	159	155
HIGHEST ANNUAL MEAN			235
LOWEST ANNUAL MEAN			53.4
HIGHEST DAILY MEAN	1540	Nov 20	2250
LOWEST DAILY MEAN	22	Oct 23	22
ANNUAL SEVEN-DAY MINIMUM	26	Aug 15	27
ANNUAL RUNOFF (AC-FT)	63620		114900
10 PERCENT EXCEEDS	150		318
50 PERCENT EXCEEDS	47		113
90 PERCENT EXCEEDS	28		28