

CHAMBERS CREEK BASIN

12091500 CHAMBERS CREEK BELOW LEACH CREEK, NEAR STEILACOOM, WA

LOCATION.--Lat 47°11'52", long 122°31'39", in NE 1/4 NE 1/4 sec.27, T.20 N., R.2 E., Pierce County, Hydrologic Unit 17110019, on right bank 200 ft downstream from Leach Creek, 1.5 mi downstream from outlet of Steilacoom Lake, and 4 mi northeast of Steilacoom.

DRAINAGE AREA.--104 mi².

PERIOD OF RECORD.--December 1937 to September 1940, July 1943 to September 1965, October 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 100 ft above NGVD of 1929, from topographic map. Prior to October 1997, at several sites within 0.10 mi downstream from present site at various datums.

REMARKS.--Records good except those above 250 ft³/s, which are fair, and estimated daily discharges, which are poor. Some diversions from tributaries for domestic use.

AVERAGE DISCHARGE.--29 years (water years 1939-40, 1944-65, 1998-2002), 112 ft³/s, 81,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 792 ft³/s, Jan. 5, 1956, gage height, 3.58 ft, site and datum then in use; minimum discharge, 14 ft³/s Aug. 15-17, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 360 ft³/s, Dec. 16, gage height, 3.55 ft; minimum discharge, 31 ft³/s, Oct. 4-10.

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	33	65	200	196	222	178	172	143	106	e62	e38	39
2	32	60	208	209	206	175	166	141	105	e56	e38	39
3	32	54	204	187	204	172	162	139	102	e50	e38	39
4	32	49	202	181	197	169	159	131	100	e46	e39	39
5	32	55	202	190	195	165	157	128	100	e45	e38	38
6	31	46	211	202	198	162	156	130	98	e45	e37	38
7	31	43	191	277	208	159	153	131	97	e50	e37	38
8	31	42	174	257	226	157	151	130	96	e55	e38	38
9	31	40	171	234	205	155	128	129	95	e53	e37	38
10	40	39	172	225	201	155	138	131	94	e48	e37	37
11	36	39	174	216	199	210	150	131	93	e46	e37	37
12	37	48	178	215	188	230	162	128	90	e45	e38	37
13	39	66	249	202	183	226	212	129	88	e43	e38	37
14	40	214	258	188	177	211	282	130	86	e42	e38	37
15	38	154	257	182	174	193	241	125	85	e42	e37	36
16	37	142	314	178	176	200	247	122	85	e41	e37	36
17	35	133	283	174	172	202	254	130	86	e42	e37	37
18	35	124	271	172	170	194	214	126	75	e42	e37	36
19	38	135	277	174	188	213	165	122	75	e42	e37	36
20	41	133	269	183	175	288	148	127	76	e41	e37	36
21	43	130	268	174	227	248	152	124	76	e41	e39	36
22	46	171	248	170	239	248	153	121	76	e40	e37	36
23	47	146	228	167	245	242	151	118	75	e39	e41	35
24	48	137	198	212	223	219	148	117	75	e38	e40	35
25	62	143	190	287	215	209	147	116	74	e38	e40	35
26	67	133	184	261	199	201	149	115	65	e39	e40	34
27	94	122	179	247	186	193	164	114	e53	e39	e40	34
28	68	176	188	241	181	187	160	119	e52	e40	e40	34
29	59	191	175	232	---	181	151	119	e70	e40	e39	34
30	58	184	171	231	---	178	146	112	e67	e39	39	34
31	82	---	182	230	---	175	---	109	---	e38	39	---
TOTAL	1375	3214	6676	6494	5579	6095	5138	3887	2515	1367	1184	1095
MEAN	44.4	107	215	209	199	197	171	125	83.8	44.1	38.2	36.5
MAX	94	214	314	287	245	288	282	143	106	62	41	39
MIN	31	39	171	167	170	155	128	109	52	38	37	34
AC-FT	2730	6370	13240	12880	11070	12090	10190	7710	4990	2710	2350	2170
CFSM	0.43	1.03	2.07	2.01	1.92	1.89	1.65	1.21	0.81	0.42	0.37	0.35
IN.	0.49	1.15	2.39	2.32	2.00	2.18	1.84	1.39	0.90	0.49	0.42	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	54.7	71.7	129	185	213	201	153	117	85.0	61.2	49.0	46.9
MAX	96.9	111	357	496	499	448	270	201	126	101	94.6	79.7
(WY)	1998	1998	1956	1956	1951	1950	1948	1948	1948	1948	1948	1948
MIN	36.0	37.6	40.5	43.7	72.1	73.2	63.1	60.4	51.5	39.2	34.5	33.0
(WY)	1953	1953	1945	1945	2001	2001	1944	1944	1944	1962	1962	1998

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1938 - 2002
ANNUAL TOTAL	28263	44619	
ANNUAL MEAN	77.4	122	112
HIGHEST ANNUAL MEAN			184
LOWEST ANNUAL MEAN			59.3
HIGHEST DAILY MEAN	314	Dec 16	650
LOWEST DAILY MEAN	31	Sep 19	14
ANNUAL SEVEN-DAY MINIMUM	31	Oct 3	26
ANNUAL RUNOFF (AC-FT)	56060	88500	81270
ANNUAL RUNOFF (CFSM)	0.74	1.18	1.08
ANNUAL RUNOFF (INCHES)	10.11	15.96	14.66
10 PERCENT EXCEEDS	161	224	220
50 PERCENT EXCEEDS	66	126	84
90 PERCENT EXCEEDS	34	37	41

e Estimated