

DUNGENESS RIVER BASIN

12048000 DUNGENESS RIVER NEAR SEQUIM, WA

LOCATION.--Lat 48°00'52", long 123°07'53", in NW 1/4 NE 1/4 sec.13, T.29 N., R.4 W., Clallam County, Hydrologic Unit 17110020, on right bank 1.0 mi upstream from Canyon Creek, 4.8 mi southwest of Sequim, and at mile 11.8.

DRAINAGE AREA.--156 mi².

PERIOD OF RECORD.--June 1923 to September 1930, June 1937 to current year. July 1897 to July 1898 at site downstream from Canyon Creek, published as "near Sequim," records not equivalent.

REVISED RECORDS.--WSP 1316: 1924-25(M), 1927(M). WSP 1932: 1957, 1958-59(M), 1960.

GAGE.--Water-stage recorder. Datum of gage is 569.3 ft above NGVD of 1929 (river-profile survey). June 8, 1923, to Sept. 30, 1930, nonrecording gage just above fish-hatchery diversion 0.5 mi downstream at different datum. June 19 to Aug. 12, 1937, nonrecording gage at present site and datum.

REMARKS.--Records good. No estimated daily discharges. No regulation or diversion upstream from station. Water temperatures July 1968 to September 1969, October 1970 to December 1970, January 2000 to September 2001. Suspended sediment discharge November 1999 to September 2001. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--72 years (water years 1924-30, 1938-2002), 384 ft³/s, 33.40 in/yr, 277,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,610 ft³/s Jan. 7, 2002, gage height, 8.37 ft; maximum gage height, 8.58 ft Nov. 27, 1949; minimum discharge, 61 ft³/s Nov. 23, 1993, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 15	1215	2,770	5.97	Jan. 07	2045	*7,610	*8.37
Nov. 20	0445	2,210	5.57	Feb. 22	0630	2,230	5.58
Dec. 16	2145	5,240	7.37				

Minimum discharge, 73 ft³/s Oct. 9, 10, 18-21.

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	96	224	527	349	272	350	251	448	772	628	321	197
2	96	193	526	900	262	326	262	541	743	580	304	196
3	95	170	381	800	265	307	265	537	738	551	288	201
4	86	156	329	583	256	297	270	486	772	520	278	192
5	81	170	296	493	257	285	303	443	985	471	273	185
6	77	154	280	838	268	270	328	412	951	465	266	187
7	77	140	259	4640	288	258	326	384	758	509	257	197
8	77	129	372	3720	272	246	312	365	625	576	250	175
9	73	125	398	1830	253	243	318	352	548	572	253	167
10	76	119	347	1240	255	242	344	337	576	610	269	165
11	82	124	315	962	251	425	348	330	685	707	263	160
12	78	311	288	887	238	455	363	350	800	663	253	160
13	81	416	472	739	229	399	487	423	930	636	260	160
14	81	1600	782	661	221	346	1320	449	1080	627	266	157
15	80	2220	521	581	216	319	881	430	1080	549	261	156
16	77	1160	2460	533	221	298	669	415	978	526	250	167
17	78	679	2520	486	222	269	558	439	871	547	236	172
18	74	497	1160	456	220	252	481	440	862	525	226	159
19	77	916	770	435	259	249	442	429	730	510	224	155
20	76	1850	591	414	247	236	427	436	676	466	254	152
21	78	1260	494	388	913	225	423	486	734	432	226	146
22	95	926	464	363	2030	233	425	499	842	429	217	142
23	154	707	413	344	1270	245	418	490	850	458	211	139
24	109	574	372	351	801	261	404	483	802	464	210	138
25	105	487	344	394	582	291	395	539	824	450	216	135
26	129	418	329	354	489	309	393	690	964	447	232	133
27	271	377	321	332	429	296	383	812	994	415	214	131
28	176	369	326	312	385	274	366	946	934	391	206	130
29	140	383	311	297	---	259	360	1200	1050	411	208	130
30	136	346	301	291	---	251	384	1000	751	391	208	127
31	309	---	301	282	---	249	---	863	---	356	201	---
TOTAL	3320	17200	17570	25255	11871	8965	12906	16454	24905	15882	7601	4811
MEAN	107	573	567	815	424	289	430	531	830	512	245	160
MAX	309	2220	2520	4640	2030	455	1320	1200	1080	707	321	201
MIN	73	119	259	282	216	225	251	330	548	356	201	127
AC-FT	6590	34120	34850	50090	23550	17780	25600	32640	49400	31500	15080	9540
CFSM	0.69	3.68	3.63	5.22	2.72	1.85	2.76	3.40	5.32	3.28	1.57	1.03
IN.	0.79	4.10	4.19	6.02	2.83	2.14	3.08	3.92	5.94	3.79	1.81	1.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2002, BY WATER YEAR (WY)

	211	355	432	405	387	293	325	562	703	495	267	173
MEAN	211	355	432	405	387	293	325	562	703	495	267	173
MAX	621	1099	1034	1075	1042	819	519	893	1465	1235	868	364
(WY)	1998	1991	1980	1968	1924	1972	1925	1956	1999	1999	1999	1954
MIN	80.6	84.9	117	74.3	106	133	171	292	289	179	129	93.8
(WY)	1988	1988	1977	1979	1929	1962	1975	1977	1926	1926	1944	1928

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1923 - 2002

	99074	166740				
ANNUAL TOTAL	99074	166740				
ANNUAL MEAN	271	457				384
HIGHEST ANNUAL MEAN						696
LOWEST ANNUAL MEAN						197
HIGHEST DAILY MEAN	2520	4640	Jan 7			5280
LOWEST DAILY MEAN	73	73	Oct 9			65
ANNUAL SEVEN-DAY MINIMUM	77	77	Oct 6			65
ANNUAL RUNOFF (AC-FT)	196500	330700				277800
ANNUAL RUNOFF (CFSM)	1.74	2.93				2.46
ANNUAL RUNOFF (INCHES)	23.63	39.76				33.40
10 PERCENT EXCEEDS	460	866				731
50 PERCENT EXCEEDS	185	346				294
90 PERCENT EXCEEDS	103	137				133