12092000 PUYALLUP RIVER NEAR ELECTRON, WA

Puget Sound Basin
Puyallup Subbasin

LOCATION.--Lat 46°54′14″, long 122°02′02″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.3, T.16 N., R.6 E., Pierce County, WA, Hydrologic Unit 17110014, on right bank 1,000 ft upstream from Puget Sound Energy's flume headworks, 0.3 mi downstream from Mowich River, 9.8 mi southeast of Electron, and at mile 42.0.

DRAINAGE AREA.--92.8 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1908 to December 1933, October 1944 to September 1949, October 1957 to current year.

REVISED RECORDS.--WSP 1092: 1946(M). WSP 1346: 1913, 1916-17(M), 1918-23, drainage area. WSP 1566: 1945(M), 1947(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,632.7 ft above NGVD of 1929. Prior to Jan. 1, 1913, nonrecording gage, and Jan. 1, 1913, to Sept. 30, 1926, Oct. 1, 1944, to Sept. 30, 1949, and Oct. 1, 1957, to Nov. 22, 1959 (gage destroyed by flood), water-stage recorder, at sites near present gage at different datums. Aug. 19, 1960, to Dec. 23, 1980, at site 160 ft downstream at different datum. Dec. 24, 1980, to Dec. 24, 1987, at site 60 ft downstream at different datum. Dec. 24, 1987, to Feb. 8, 1996 (gage destroyed by flood), at site on left bank near present gage at same datum. Feb. 8 to June 5, 1996, no gage at site.

REMARKS.--Records are considered poor for the 2007 Water Year. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemetry at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--80 years (water years 1909-33, 1945-49, 1958-2007), 528 ft^3/s, 77.25 in/yr, 382,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft^3/s, Feb. 8, 1996, gage height, 10.94 ft, from floodmarks, result of slope-area measurement; maximum gage height, 11.30 ft, Nov. 7, 2006; minimum daily discharge, 75 ft^3/s, Oct. 19, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,300 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 4	1945	2,670	5.79
Nov 6		*unknown	
Nov 7	0645		*11.30
Nov 15	2245	5,300	8.47
Dec 14	2130	3,580	7.54
Jan 2	2015	2,520	6.83
Feb 15	2000	2,310	6.63
Mar 12	0615	3,470	7.47
Mar 24	2145	4,330	7.97

Minimum discharge, 110 ft^3/s, Sept. 24.

12092000 PUYALLUP RIVER NEAR ELECTRON, WA—Continued

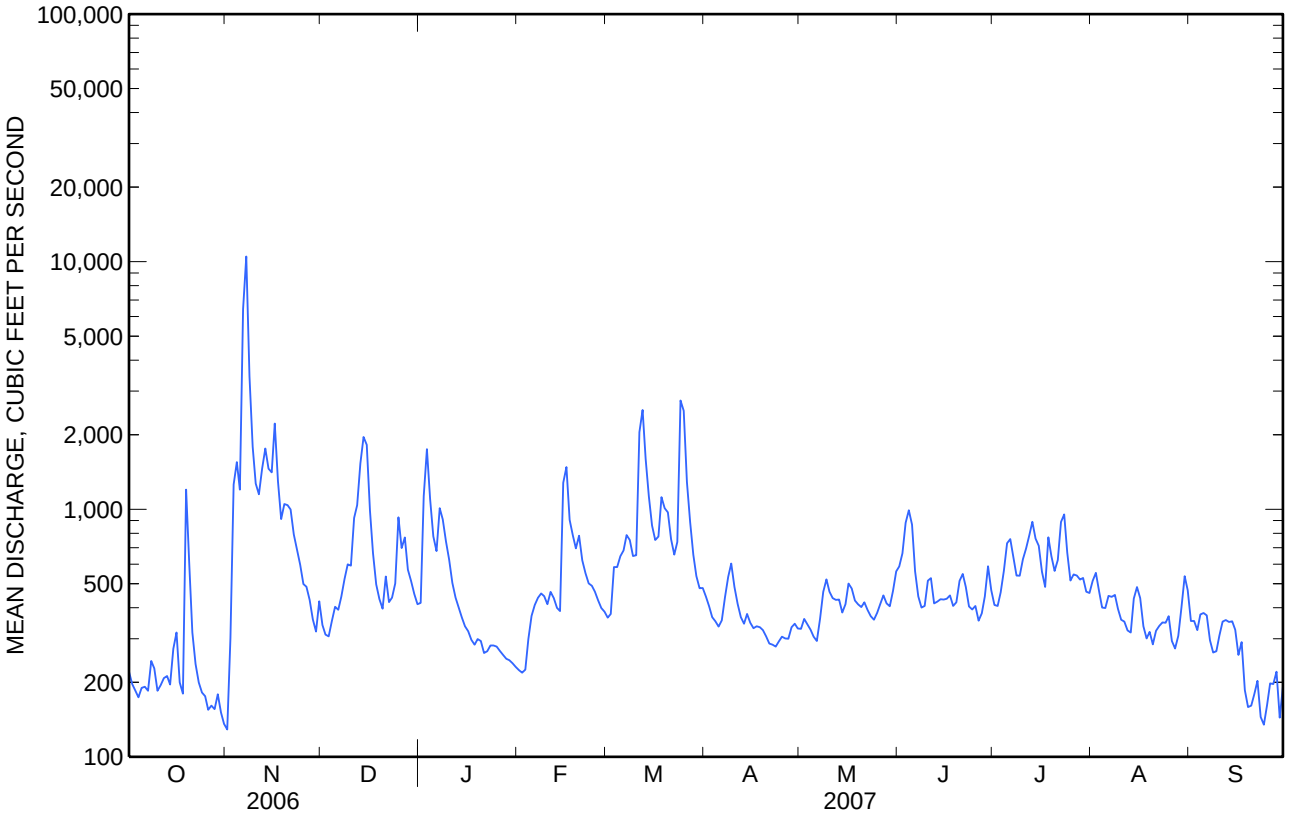
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	221	129	341	419	224	365	444	329	588	411	514	354
2	197	302	312	1,130	219	378	405	361	664	407	554	354
3	185	1,260	307	1,750	225	584	367	343	882	462	467	325
4	174	1,550	354	1,100	299	584	353	326	991	565	401	376
5	190	1,200	404	778	371	647	336	306	867	729	399	381
6	192	6,430	393	678	411	682	356	294	562	758	447	373
7	185	10,500	444	1,010	439	787	442	361	445	637	443	296
8	244	e3,450	523	911	457	751	534	464	401	540	451	264
9	228	e1,790	599	743	446	648	604	521	407	539	396	267
10	185	e1,270	592	626	414	652	486	465	515	629	358	309
11	195	e1,150	923	504	464	2,050	415	438	527	696	352	352
12	208	e1,460	1,040	440	438	2,520	367	431	417	786	324	357
13	212	e1,760	1,530	402	400	1,600	345	432	424	890	318	351
14	196	e1,460	1,960	366	388	1,130	378	383	433	762	436	353
15	273	e1,410	1,820	337	1,280	860	348	414	432	712	485	326
16	318	e2,220	989	322	1,480	751	331	501	435	560	438	258
17	200	1,300	665	297	907	776	337	479	449	486	337	291
18	180	913	498	284	784	1,120	334	428	407	771	301	186
19	1,200	1,050	434	299	695	1,010	325	413	421	647	320	159
20	615	1,040	397	294	782	972	307	403	514	564	285	161
21	318	999	535	263	622	757	287	421	548	624	323	179
22	237	791	422	267	552	656	284	392	486	889	338	203
23	200	687	440	282	502	738	279	370	405	953	349	145
24	182	597	502	282	491	2,750	293	358	394	669	348	135
25	176	499	928	279	465	2,500	306	382	407	516	370	162
26	155	487	698	268	429	1,290	301	414	355	546	294	198
27	161	431	770	258	399	890	300	449	380	540	274	197
28	156	359	571	249	386	655	334	417	445	520	308	221
29	179	321	513	246	---	538	345	406	589	528	402	144
30	151	425	455	239	---	480	330	468	472	465	537	192
31	136	---	414	231	---	481	---	561	---	459	471	---
Total	7,649	47,240	20,773	15,554	14,969	30,602	10,873	12,730	15,262	19,260	12,040	7,869
Mean	247	1,575	670	502	535	987	362	411	509	621	388	262
Max	1,200	10,500	1,960	1,750	1,480	2,750	604	561	991	953	554	381
Min	136	129	307	231	219	365	279	294	355	407	274	135
Ac-ft	15,170	93,700	41,200	30,850	29,690	60,700	21,570	25,250	30,270	38,200	23,880	15,610
Cfsm	2.66	17.0	7.22	5.41	5.76	10.6	3.91	4.43	5.48	6.69	4.19	2.83
In.	3.07	18.94	8.33	6.24	6.00	12.27	4.36	5.10	6.12	7.72	4.83	3.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	395	574	589	543	444	375	427	617	757	670	542	404
Max	1,015	1,575	2,217	1,071	1,053	987	657	1,019	1,248	1,256	866	727
(WY)	(1960)	(2007)	(1934)	(1918)	(1996)	(2007)	(1988)	(1929)	(1974)	(1917)	(2004)	(1927)
Min	185	134	174	193	154	146	200	380	406	407	338	257
(WY)	(1981)	(1930)	(1915)	(1979)	(1922)	(1922)	(1975)	(1909)	(1996)	(1996)	(1996)	(1996)

12092000 PUYALLUP RIVER NEAR ELECTRON, WA—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1909 - 2007	
Annual total	221,476		214,821			
Annual mean	607		589		528	
Highest annual mean					664	1928
Lowest annual mean					378	1994
Highest daily mean	10,500	Nov 7	10,500	Nov 7	10,500	Nov 7, 2006
Lowest daily mean	129	Nov 1	129	Nov 1	75	Oct 19, 1994
Annual seven-day minimum	152	Oct 26	152	Oct 26	104	Nov 18, 1929
Annual runoff (ac-ft)	439,300		426,100		382,200	
Annual runoff (cfsm)	6.54		6.34		5.69	
Annual runoff (inches)	88.78		86.11		77.25	
10 percent exceeds	1,130		1,010		894	
50 percent exceeds	437		425		440	
90 percent exceeds	206		220		220