12093500 PUYALLUP RIVER NEAR ORTING, WA

LOCATION.--Lat 47°02'22", long 122°12'24", in SW 1/4 SW 1/4 sec.17, T.18 N., R.5 E., Pierce County, Hydrologic Unit 17110014, on right bank 600 ft downstream from highway bridge, 4.0 mi south of Orting, 8.5 mi upstream from Carbon River, and at mile 26.4.

DRAINAGE AREA.--172 mi^2.

PERIOD OR RECORD.--September 1931 to current year.

REVISED RECORDS.--WSP 932: 1937-39. WSP 962: 1934. WSP 1246: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 352.5 ft above sea level. Prior to Feb. 6, 1946, at site 600 ft upstream at datum 8.93 ft higher. Supplementary water-stage recorder 200 ft upstream at datum 7.1 ft higher than present gage datum, used at times during period in 1942-46. Feb. 6, 1946, to Mar. 12, 1965, at present site at datum 5.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Up to 400 ft^3/s diverted for Electron powerplant of Puget Sound Energy, which is returned to river 4.8 mi upstream from gage. Minor regulation by Electron powerplant. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--69 years (water years 1932-2000), 718 ft^3/s, 56.68 in/yr, 519,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,300 ft^3/s Feb. 8, 1996, from slope area measurement, gage height, 11.37 ft; minimum discharge, 25 ft^3/s Nov. 28, 1952; minimum daily, 59 ft^3/s Nov. 29, 1952.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	2100	5,870	8.68	Dec. 15	2045	5,900	8.49
Nov. 25	1815	*11,600	*10.08	Sept. 30	2200	4,790	8.06

Minimum discharge, 173 ft^3/s Oct. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e275	386	1050	627	1250	626	460	607	779	706	873	336
2	e270	333	1270	569	1280	589	569	751	721	618	753	304
3	e265	293	1010	569	932	554	633	803	727	671	738	274
4	e280	339	833	1030	808	849	786	752	780	612	652	260
5	e280	280	776	867	703	769	707	682	941	497	663	239
6	e250	603	814	715	686	650	656	637	833	451	711	247
7	e305	468	773	650	683	571	601	559	846	438	675	260
8	1010	383	658	807	1160	513	578	544	938	493	703	439
9	680	399	605	879	1240	484	576	680	840	497	727	369
10	406	600	571	825	918	437	556	844	744	496	696	1090
11	315	680	1170	747	764	437	580	744	680	516	577	869
12	322	3860	1820	654	677	400	617	729	1660	548	504	706
13	334	4680	1520	602	609	380	897	656	1610	567	463	609
14	297	2140	1300	647	589	513	e1660	629	1500	532	426	673
15	245	1320	2980	658	593	442	e1500	674	1850	466	456	795
16	e226	1030	3810	712	544	584	e1090	685	1370	491	429	594
17	e215	1120	2610	670	492	608	e910	743	1120	550	455	551
18	e210	936	2910	587	449	583	844	673	1040	636	483	753
19	203	857	1970	527	419	670	802	867	911	612	519	1010
20	206	1040	1450	554	400	599	736	935	806	614	415	652
21	200	923	1160	552	464	542	690	958	888	648	340	527
22	197	852	972	522	569	707	783	1140	912	735	372	e390
23	196	793	866	487	575	914	756	959	768	642	454	e310
24	204	1040	813	451	504	743	665	817	760	587	557	e305
25	204	8070	776	454	465	646	602	743	769	577	561	e310
26	315	6530	749	459	478	574	563	690	785	510	502	e315
27	239	2910	723	424	645	552	586	793	864	523	410	322
28	610	1920	714	e395	591	567	725	795	912	656	375	324
29	636	1390	665	e390	612	503	628	794	895	770	441	371
30	467	1340	605	e385	---	453	565	700	811	860	498	2060
31	513	---	610	e390	---	432	---	876	---	947	458	---
TOTAL	10375	47515	38553	18805	20099	17891	22321	23459	29060	18466	16886	16264
MEAN	335	1584	1244	607	693	577	744	757	969	596	545	542
MAX	1010	8070	3810	1030	1280	914	1660	1140	1850	947	873	2060
MIN	196	280	571	385	400	380	460	544	680	438	340	239
AC-FT	20580	94250	76470	37300	39870	35490	44270	46530	57640	36630	33490	32260
CFSM	1.95	9.21	7.23	3.53	4.03	3.36	4.33	4.40	5.63	3.46	3.17	3.15
IN.	2.24	10.28	8.34	4.07	4.35	3.87	4.83	5.07	6.29	3.99	3.65	3.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2000, BY WATER YEAR (WY)

MEAN	477	831	967	895	775	617	648	787	880	729	562	445
MAX	1291	2149	3015	2314	2291	1619	1038	1282	1470	1239	881	748
(WY)	1960	1996	1934	1934	1996	1972	1991	1936	1974	1933	1983	1968
MIN	210	92.8	205	205	280	266	303	494	311	483	373	283
(WY)	1953	1953	1953	1937	1977	1941	1975	1941	1934	1977	1957	1936

12093500 PUYALLUP RIVER NEAR ORTING, WA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1932 - 2000	
ANNUAL TOTAL	318229		279694			
ANNUAL MEAN	872		764		718	
HIGHEST ANNUAL MEAN					1174	1996
LOWEST ANNUAL MEAN					465	1941
HIGHEST DAILY MEAN	8070	Nov 25	8070	Nov 25	13400	Feb 8 1996
LOWEST DAILY MEAN	196	Oct 23	196	Oct 23	59	Nov 29 1952
ANNUAL SEVEN-DAY MINIMUM	201	Oct 19	201	Oct 19	66	Nov 25 1952
ANNUAL RUNOFF (AC-FT)	631200		554800		519800	
ANNUAL RUNOFF (CFSM)	5.07		4.44		4.17	
ANNUAL RUNOFF (INCHES)	68.83		60.49		56.68	
10 PERCENT EXCEEDS	1320		1120		1190	
50 PERCENT EXCEEDS	746		640		589	
90 PERCENT EXCEEDS	384		323		311	

e Estimated