WENATCHEE RIVER BASIN

12459000 WENATCHEE RIVER AT PESHASTIN, WA

LOCATION.--Lat 47°35'00", long 120°36'46", in SE $^1/_4$ SW $^1/_4$ sec.8, T.24 N., R.18 E., Chelan County, Hydrologic Unit 17020011, on right bank 1.0 mi northwest of Peshastin, 3.5 mi upstream from Peshastin Creek, 4.1 mi downstream from Icicle Creek, and at mile 21.5.

DRAINAGE AREA.--1,000 mi^2, approximately.

PERIOD OF RECORD.--October 1928 to February 1929 (monthly discharge only), March 1929 to current year.

REVISED RECORDS.--WSP 1316: 1929-32(M).

GAGE.--Water-stage recorder. Datum of gage is 1,028.04 ft above NGVD of 1929. Prior to Mar. 24, 1932, nonrecording gage at site 1.2 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Numerous diversions upstream for irrigation of an estimated 3,200 acres upstream from station. Diversion from Icicle Creek 5.7 mi upstream from mouth is used for irrigation of a substantial part of the 22,000 acres irrigated downstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--74 years (water years 1929-2002), 3,079 ft^3/s, 2,231,000 acre-ft/yr. Includes discharge for water year 1929 which was estimated for WSP 1316.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,300 ft^3/s Nov. 30, 1995, gage height, 17.89 ft; minimum discharge, 183 ft^3/s Oct. 14, 1939; minimum gage height, 1.22 ft Nov. 26, 1993; minimum daily discharge, 210 ft^3/s Nov. 26, 1993.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	0530	14,400	9.83	June 16	0330	*16,500	*10.62

Minimum discharge, 303 ft^3/s, Oct. 10, gage height 1.40 ft.

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	438	1500	1610	958	1420	2370	1970	5800	12300	9350	2540	973
2	417	1510	1580	962	1350	2210	2070	7170	11700	7880	2270	944
3	402	1540	1500	940	1310	2100	2010	7630	11800	7010	2040	937
4	366	1440	1410	911	1260	2020	2030	7110	12100	6600	1860	939
5	344	1370	1340	891	1220	1980	2190	6420	12700	6080	1720	867
6	333	1340	1330	901	1210	1920	2400	5830	13000	5690	1680	807
7	328	1240	1310	1660	1230	1850	2690	5220	11500	5850	1610	782
8	321	1150	1240	5430	1210	1780	2820	4700	9530	7130	1520	742
9	321	1080	1180	6360	1160	1710	2850	4340	8060	7380	1470	698
10	330	1020	1130	5190	1120	1670	2980	4050	7700	6890	1540	673
11	416	966	1090	4250	1110	1790	3290	3940	8780	7440	1640	656
12	539	929	1060	3700	1050	1990	3590	4120	10300	8010	1590	641
13	672	968	1170	3340	1040	1860	4670	4800	12200	7740	1520	631
14	694	2990	1460	2940	1030	1750	9000	5420	14300	7760	1510	620
15	703	6590	1380	2620	998	1680	9790	5600	15700	7250	1540	614
16	651	6590	1460	2410	980	1640	8090	5650	16200	6340	1490	609
17	611	5070	1940	2200	968	1600	6760	6040	14300	5970	1400	593
18	581	3910	1730	2080	958	1520	5800	6730	12600	5610	1310	587
19	557	3300	1600	1980	963	1530	5210	6950	11100	5360	1210	567
20	767	3280	1500	1910	987	1590	4890	8130	10100	5040	1150	549
21	738	3210	1400	1860	1040	1530	4870	9160	10100	4560	1110	543
22	739	3060	1310	1750	1820	1460	4820	8830	10900	4290	1080	531
23	1100	2840	1250	1690	3870	1420	4720	8100	11700	4190	1050	521
24	1170	2530	1200	1690	4040	1450	4420	7630	11400	4210	1040	510
25	1050	2290	1150	1910	3570	1540	4220	7600	10900	4230	1060	499
26	1030	2090	1110	1870	3170	1590	4150	7980	11300	4310	1070	493
27	1020	1900	1080	1740	2850	1620	4180	8570	12400	4050	1050	491
28	1010	1820	1050	1650	2590	1610	4120	10300	11900	3590	1020	524
29	964	1760	1030	1530	---	1650	4270	13000	12100	3300	1010	520
30	e904	1650	1000	1490	---	1690	4700	14200	11600	3120	1010	529
31	e1040	---	981	1460	---	1830	---	13500	---	2870	1020	---
TOTAL	20556	70933	40581	70273	45524	53950	129570	224520	350270	179100	44130	19590
MEAN	663	2364	1309	2267	1626	1740	4319	7243	11680	5777	1424	653
MAX	1170	6590	1940	6360	4040	2370	9790	14200	16200	9350	2540	973
MIN	321	929	981	891	958	1420	1970	3940	7700	2870	1010	491
AC-FT	40770	140700	80490	139400	90300	107000	257000	445300	694800	355200	87530	38860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

MEAN	1123	1916	1814	1514	1582	1836	3752	7930	8722	4475	1492	821
MAX	3654	8800	6202	3760	4677	5607	11250	13800	16180	10350	4003	1997
(WY)	1960	1991	1976	1968	1996	1972	1934	1956	1974	1954	1954	1959
MIN	331	329	421	421	476	806	1475	3506	3191	1164	572	426
(WY)	1988	1930	1953	1930	1937	1929	1929	1977	1941	1941	1931	1942

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	636664		1248997			
ANNUAL MEAN	1744		3422		3096	
HIGHEST ANNUAL MEAN					4830	1972
LOWEST ANNUAL MEAN					1572	2001
HIGHEST DAILY MEAN	11300	May 25	16200	Jun 16	38900	Nov 30 1995
LOWEST DAILY MEAN	321	Oct 8	321	Oct 8	210	Nov 26 1993
ANNUAL SEVEN-DAY MINIMUM	335	Oct 4	335	Oct 4	255	Oct 26 1987
ANNUAL RUNOFF (AC-FT)	1263000		2477000		2243000	
10 PERCENT EXCEEDS	4260		8800		7930	
50 PERCENT EXCEEDS	1060		1720		1660	
90 PERCENT EXCEEDS	460		666		610	

e Estimated