14105700 COLUMBIA RIVER AT THE DALLES, OR

LOCATION.--Lat 45˚36′27″, long 121˚10′20″, in SW 1/4 SW 1/4 sec.34, T.2 N., R.13 E., Wasco County, Hydrologic Unit 17070105, Corps of Engineers land, on left bank 0.3 mi downstream from Mill Creek, 2.6 mi downstream from The Dalles Dam, and at mile 188.9.

DRAINAGE AREA.--237,000 mi^2, approximately.

PERIOD OF RECORD.--October 1857 to September 1877 (annual maximum only, at Lower Cascades Landing, published in WSP 1318), June 1878 to current year. Published as "near The Dalles" 1936-56.

REVISED RECORDS.--WSP 534: 1920(m). SP 1094: 1894. WSP 1248: 1866, 1888, 1899, 1909. WSP 1518: 1876(M).

GAGE.--Ultrasonic velocity meter (UVM) with water-stage and velocity-index recorder. Datum of gage is sea level. See WSP 1738 for history of changes prior to Mar. 16, 1957. Mar. 16, 1957, to Sept 30, 1968, water-stage recorder at site 0.4 mi upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Considerable regulation by many large reservoirs. Diurnal fluctuations caused by powerplant and gates at The Dalles Dam. Many diversions for irrigation upstream from station. Continuous water-quality records for the period October 1957 to February 1985 have been collected at this location.

AVERAGE DISCHARGE.--122 years (water years 1879-2000), 192,000 ft^3/s, 139,100,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (since 1858), 1,240,000 ft^3/s June 6, 1894, elevation, 106.5 ft; minimum discharge (since 1878), 12,100 ft^3/s Apr. 16, 1968 (due to closure of John Day dam, recorded by UVM).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 384,000 ft^3/s Apr. 23; maximum elevation, 82.47 ft Apr. 20; minimum daily discharge, 81,400 ft^3/s Sept. 10.

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	137000	134000	193000	171000	198000	189000	172000	283000	273000	158000	166000	104000
2	100000	130000	172000	184000	211000	183000	174000	300000	221000	153000	181000	126000
3	91500	126000	197000	212000	222000	199000	186000	287000	190000	127000	184000	104000
4	135000	123000	188000	181000	221000	176000	182000	298000	200000	159000	161000	97400
5	129000	133000	195000	178000	192000	151000	216000	305000	215000	156000	141000	104000
6	132000	123000	200000	215000	183000	182000	244000	294000	251000	179000	131000	107000
7	136000	133000	193000	196000	188000	212000	256000	277000	237000	235000	159000	134000
8	135000	135000	198000	178000	192000	215000	261000	276000	219000	180000	172000	113000
9	124000	147000	207000	218000	174000	199000	188000	285000	212000	178000	157000	83500
10	113000	135000	191000	219000	183000	196000	228000	257000	180000	177000	177000	81400
11	118000	133000	205000	210000	190000	212000	263000	265000	184000	187000	158000	106000
12	138000	142000	189000	195000	237000	196000	253000	279000	187000	174000	164000	137000
13	130000	133000	169000	204000	189000	203000	269000	238000	234000	180000	141000	134000
14	141000	141000	195000	204000	188000	194000	305000	265000	215000	192000	160000	130000
15	148000	146000	170000	211000	198000	197000	300000	264000	238000	179000	166000	120000
16	144000	140000	218000	192000	215000	210000	244000	237000	243000	145000	162000	129000
17	105000	136000	203000	190000	221000	204000	260000	242000	194000	155000	176000	111000
18	138000	187000	196000	203000	209000	184000	303000	257000	186000	179000	135000	116000
19	120000	166000	224000	203000	170000	160000	318000	236000	185000	174000	157000	138000
20	125000	164000	197000	200000	155000	172000	334000	240000	210000	178000	111000	133000
21	137000	152000	216000	199000	144000	164000	299000	250000	211000	182000	117000	165000
22	144000	165000	234000	196000	165000	180000	341000	244000	209000	143000	120000	134000
23	123000	154000	222000	164000	152000	181000	384000	289000	205000	144000	138000	111000
24	130000	195000	212000	208000	194000	205000	362000	279000	182000	171000	91400	97900
25	125000	143000	223000	204000	195000	178000	324000	276000	208000	163000	98500	111000
26	134000	184000	170000	190000	189000	138000	339000	219000	180000	164000	107000	124000
27	140000	191000	221000	224000	172000	164000	308000	235000	183000	168000	99400	108000
28	142000	164000	226000	225000	167000	162000	286000	231000	213000	165000	97400	97900
29	123000	165000	211000	233000	203000	210000	311000	195000	210000	164000	127000	95500
30	121000	178000	191000	221000	---	196000	282000	227000	204000	135000	142000	102000
31	108000	---	177000	195000	---	213000	---	241000	---	167000	127000	---
TOTAL	3966500	4498000	6203000	6223000	5517000	5825000	8192000	8071000	6279000	5211000	4423700	3454600
MEAN	128000	149900	200100	200700	190200	187900	273100	260400	209300	168100	142700	115200
MAX	148000	195000	234000	233000	237000	215000	384000	305000	273000	235000	184000	165000
MIN	91500	123000	169000	164000	144000	138000	172000	195000	180000	127000	91400	81400
AC-FT	7868000	8922000	12300000	12340000	10940000	11550000	16250000	16010000	12450000	10340000	8774000	6852000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1879 - 2000, BY WATER YEAR (WY)

MEAN	104600	108100	115800	118900	128900	147400	204900	340700	439300	300100	172900	120300
MAX	174800	200800	258300	275000	340400	345000	386400	624400	1002000	793300	385700	198200
(WY)	1960	1928	1996	1997	1996	1983	1881	1897	1894	1880	1880	1880
MIN	69430	57830	52380	42430	51420	69820	98350	136100	123700	88600	91970	75760
(WY)	1930	1937	1937	1937	1937	1937	1944	1977	1977	1977	1994	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1879 - 2000	
ANNUAL TOTAL	81615600		67863800			
ANNUAL MEAN	223600		185400		192000	
HIGHEST ANNUAL MEAN					313600	1894
LOWEST ANNUAL MEAN					118100	1926
HIGHEST DAILY MEAN	389000	Jun 4	384000	Apr 23	1230000	Jun 6 1894
LOWEST DAILY MEAN	91500	Oct 3	81400	Sep 10	36000	Jan 12 1937
ANNUAL SEVEN-DAY MINIMUM	123000	Oct 2	103000	Sep 4	38200	Jan 7 1937
ANNUAL RUNOFF (AC-FT)	161900000		134600000		139100000	
10 PERCENT EXCEEDS	319000		258000		383000	
50 PERCENT EXCEEDS	224000		183000		142000	
90 PERCENT EXCEEDS	133000		123000		80400	