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 NGVD of 1929. 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.--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.--124 years (water years 1879-2002), 191,200 ft^3/s, 138,500,000 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, 377,000 ft^3/s June 6; maximum elevation, 82.95 ft June 5; minimum daily discharge, 64,800 ft^3/s Oct. 13.

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	94000	97700	110000	120000	173000	143000	158000	215000	351000	315000	169000	117000
2	107000	93400	106000	116000	147000	133000	177000	200000	320000	318000	159000	103000
3	86100	87100	96500	115000	125000	104000	147000	249000	306000	307000	172000	103000
4	72400	86000	116000	e125000	161000	125000	139000	235000	331000	319000	144000	126000
5	85600	82400	124000	e140000	154000	116000	135000	221000	367000	266000	164000	113000
6	74800	116000	111000	e135000	157000	124000	120000	219000	377000	264000	160000	118000
7	69500	115000	106000	e130000	161000	131000	114000	240000	340000	239000	155000	95100
8	72100	124000	116000	e105000	165000	115000	170000	257000	371000	228000	172000	79400
9	79500	114000	96700	151000	168000	128000	e155000	215000	334000	216000	174000	89000
10	97200	100000	117000	157000	124000	91300	178000	191000	293000	211000	143000	114000
11	81100	79500	127000	135000	145000	113000	190000	209000	351000	238000	153000	115000
12	84100	96200	132000	115000	168000	132000	184000	183000	298000	257000	155000	83100
13	64800	105000	e125000	115000	144000	169000	216000	211000	314000	249000	163000	84700
14	68800	98400	119000	130000	184000	141000	212000	e205000	274000	240000	152000	112000
15	101000	90000	118000	165000	159000	152000	269000	212000	290000	249000	163000	86700
16	87000	98000	101000	190000	126000	140000	346000	191000	256000	191000	162000	74300
17	114000	111000	110000	161000	114000	118000	350000	229000	303000	252000	133000	105000
18	113000	93400	151000	158000	130000	131000	322000	206000	305000	243000	127000	114000
19	85800	109000	136000	112000	134000	129000	296000	220000	348000	220000	140000	113000
20	76800	112000	148000	135000	151000	e115000	277000	224000	368000	212000	151000	123000
21	75400	119000	154000	136000	144000	e145000	287000	260000	358000	222000	163000	116000
22	79100	99900	137000	135000	132000	132000	255000	278000	319000	241000	159000	104000
23	88200	98300	131000	174000	105000	114000	e280000	265000	295000	195000	139000	139000
24	110000	120000	119000	171000	124000	83300	267000	283000	327000	202000	150000	110000
25	84400	112000	127000	128000	155000	143000	244000	251000	284000	185000	123000	124000
26	89800	116000	125000	152000	165000	125000	225000	238000	283000	154000	138000	127000
27	89400	132000	140000	122000	149000	125000	235000	237000	313000	156000	145000	126000
28	90500	150000	127000	144000	159000	122000	179000	283000	329000	147000	147000	86200
29	91400	123000	117000	164000	---	135000	215000	309000	361000	179000	130000	75600
30	91500	133000	118000	167000	---	140000	234000	294000	297000	188000	133000	102000
31	91600	---	119000	171000	---	121000	---	303000	---	165000	145000	---
TOTAL	2695900	3211300	3780200	4374000	4123000	3935600	6576000	7333000	9663000	7068000	4683000	3178100
MEAN	86960	107000	121900	141100	147200	127000	219200	236500	322100	228000	151100	105900
MAX	114000	150000	154000	190000	184000	169000	350000	309000	377000	319000	174000	139000
MIN	64800	79500	96500	105000	105000	83300	114000	183000	256000	147000	123000	74300
AC-FT	5347000	6370000	7498000	8676000	8178000	7806000	13040000	14550000	19170000	14020000	9289000	6304000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1879 - 2002, BY WATER YEAR (WY)

MEAN	104500	108200	116100	119200	129100	147000	204300	338300	435900	297800	172200	119900
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	86780	91970	75760
(WY)	1930	1937	1937	1937	1937	1937	1944	1977	1977	2001	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1879 - 2002	
ANNUAL TOTAL	40919600		60621100			
ANNUAL MEAN	112100		166100		191200	
HIGHEST ANNUAL MEAN					313600	1894
LOWEST ANNUAL MEAN					117600	2001
HIGHEST DAILY MEAN	173000	May 17	377000	Jun 6	1230000	Jun 6 1894
LOWEST DAILY MEAN	62800	Sep 16	64800	Oct 13	36000	Jan 12 1937
ANNUAL SEVEN-DAY MINIMUM	76000	Sep 15	77100	Oct 3	38200	Jan 7 1937
ANNUAL RUNOFF (AC-FT)	81160000		120200000		138500000	
10 PERCENT EXCEEDS	140000		291000		381000	
50 PERCENT EXCEEDS	115000		141000		142000	
90 PERCENT EXCEEDS	80000		91400		80600	

e Estimated