

14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR

LOCATION.--Lat 46°10'55", long 123°10'50", in NE 1/4 sec.16, T.8 N., R.4 W., Columbia County, Hydrologic Unit 17080003, on left bank, 0.7 mi downstream from Crims Island, 3.0 mi northwest of Quincy, and at mile 53.8.

DRAINAGE AREA.--256,900 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1968 to June 1970, June 1991 to current year.

GAGE.--Acoustic velocity meter with water-stage and velocity index recorder. Datum of gage is 0.52 ft above sea level. May 1968 to June 1970 water-stage recorder with auxillary water-stage recorder 5.6 miles downstream, at datum 10.00 ft lower.

REMARKS.--Records poor. Flow regulated by many reservoirs on Columbia River and in tributary basins. Flows affected by tide which can cause reverse direction during tidal cycle when mean daily flows are less than 250,000 ft<sup>3</sup>/s. Mean discharge values are based on a 24 hour day, not a tidal cycle.

AVERAGE DISCHARGE.--10 years (water years 1969, 1992-2000), 251,100 ft<sup>3</sup>/s, 181,900,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 864,000 ft<sup>3</sup>/s Feb. 10, 1996; minimum daily discharge, 73,700 ft<sup>3</sup>/s Sept. 7, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 430,000 ft<sup>3</sup>/s Apr. 24; maximum gage height, 9.34 ft Nov. 25; minimum daily discharge, 99,400 ft<sup>3</sup>/s Sept. 5.

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	e163000	e136000	e312000	e225000	260000	e290000	e255000	e328000	273000	216000	157000	109000
2	e157000	e161000	e308000	e214000	317000	e271000	e212000	e331000	272000	188000	155000	117000
3	e118000	e156000	e278000	e227000	343000	e265000	e214000	e346000	243000	178000	169000	123000
4	e110000	e148000	e305000	e256000	341000	e275000	e228000	337000	220000	175000	173000	105000
5	e154000	e148000	e310000	e236000	320000	e249000	e226000	339000	221000	175000	162000	99400
6	e148000	e159000	e313000	e240000	279000	e224000	e260000	350000	238000	176000	134000	102000
7	e154000	e150000	e310000	e295000	266000	e262000	e287000	339000	254000	203000	135000	123000
8	e159000	e161000	e301000	e273000	255000	e286000	e300000	313000	244000	226000	168000	117000
9	e157000	e165000	e311000	e252000	273000	e281000	e305000	327000	243000	e200000	172000	112000
10	e146000	e174000	e330000	e291000	266000	e259000	e230000	340000	238000	e197000	158000	101000
11	e134000	e164000	e307000	e299000	266000	e249000	e270000	327000	236000	e196000	162000	105000
12	e139000	e165000	e315000	e301000	268000	e263000	e306000	338000	221000	e206000	159000	121000
13	e159000	e180000	e293000	e303000	294000	e245000	e299000	338000	264000	e193000	158000	138000
14	e150000	e175000	e273000	e325000	288000	e252000	e319000	317000	288000	189000	142000	129000
15	e162000	e190000	e311000	e336000	286000	e242000	e362000	318000	289000	194000	165000	136000
16	e169000	e188000	e297000	e354000	300000	e245000	e360000	320000	292000	165000	151000	145000
17	e166000	e176000	e364000	e334000	323000	e262000	e302000	301000	264000	e163000	166000	139000
18	e126000	e167000	e371000	e331000	304000	e259000	e317000	282000	222000	e173000	167000	119000
19	e160000	e220000	e377000	337000	291000	e241000	e359000	292000	213000	e198000	139000	116000
20	e141000	e199000	e386000	314000	242000	e218000	e373000	281000	222000	e193000	130000	125000
21	e144000	e198000	e354000	297000	219000	e232000	e386000	282000	222000	e197000	111000	155000
22	e159000	e188000	e350000	307000	211000	e227000	e345000	284000	222000	e201000	108000	173000
23	e166000	e205000	e350000	296000	224000	e241000	e387000	290000	222000	148000	122000	132000
24	e143000	e196000	e319000	285000	228000	e242000	e430000	296000	210000	129000	122000	131000
25	e150000	e250000	e298000	285000	255000	e265000	e406000	305000	210000	e190000	103000	119000
26	e145000	e272000	e302000	308000	251000	e235000	e367000	301000	209000	e181000	111000	128000
27	e157000	e331000	e240000	304000	e243000	e192000	e382000	251000	203000	e182000	120000	124000
28	e162000	e354000	e287000	311000	e234000	e213000	e352000	257000	207000	e185000	115000	113000
29	e169000	e350000	e286000	303000	e248000	e211000	e330000	256000	235000	168000	113000	103000
30	e150000	e330000	e267000	288000	---	e258000	e355000	238000	236000	166000	132000	102000
31	e148000	---	e242000	261000	---	e241000	---	258000	---	137000	138000	---
TOTAL	4665000	6056000	9667000	8988000	7895000	7695000	9524000	9482000	7133000	5688000	4417000	3661400
MEAN	150500	201900	311800	289900	272200	248200	317500	305900	237800	183500	142500	122000
MAX	169000	354000	386000	354000	343000	290000	430000	350000	292000	226000	173000	173000
MIN	110000	136000	240000	214000	211000	192000	212000	238000	203000	129000	103000	99400
AC-FT	9253000	12010000	19170000	17830000	15660000	15260000	18890000	18810000	14150000	11280000	8761000	7262000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000			
MEAN	150100	203400	276600	303700	300500	271200	283500	342100	340000	225300	161900	134400	150500	201900	311800	289900	272200	248200	317500	305900	237800	183500	142500	122000	150500	201900	311800	289900	272200	248200	317500	305900	237800	183500	142500	122000
MAX	169000	354000	386000	354000	343000	290000	430000	350000	292000	226000	173000	173000	169000	354000	386000	354000	343000	290000	430000	350000	292000	226000	173000	173000	169000	354000	386000	354000	343000	290000	430000	350000	292000	226000	173000	173000
MIN	114500	136100	175400	199100	191100	196700	196200	210900	203900	139500	107100	92400	110000	136100	175400	199100	191100	196700	196200	210900	203900	139500	107100	92400	110000	136100	175400	199100	191100	196700	196200	210900	203900	139500	107100	92400
(WY)	1998	1996	1996	1997	1996	1997	1997	1997	1997	1997	1997	1997	1998	1999	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1995	1996	1997	1998	1999	2000	2000	2000	2000	2000	2000	

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1968 - 2000

ANNUAL TOTAL	107998000	84871400	
ANNUAL MEAN	295900	231900	
HIGHEST ANNUAL MEAN			251100
LOWEST ANNUAL MEAN			338200
HIGHEST DAILY MEAN	530000	430000	864000
LOWEST DAILY MEAN	110000	99400	73700
ANNUAL SEVEN-DAY MINIMUM	143000	108000	81400
ANNUAL RUNOFF (AC-FT)	214200000	168300000	181900000
10 PERCENT EXCEEDS	410000	332000	402000
50 PERCENT EXCEEDS	311000	236000	224000
90 PERCENT EXCEEDS	157000	131000	134000

e Estimated