

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 mi², approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage and velocity index recorder. Datum of gage is 0.52 ft above NGVD of 1929. 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 fair. 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 ft³/s. Mean discharge values are based on a 24 hour day, not a tidal cycle.

AVERAGE DISCHARGE.--12 years (water years 1969, 1992-2002), 239,300 ft³/s, 173,300,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 864,000 ft³/s Feb. 10, 1996; minimum daily discharge, 63,600 ft³/s Sept. 9, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 464,000 ft³/s Apr. 18; maximum gage height, 9.57 ft Dec. 1; minimum daily discharge, 68,000 ft³/s Oct. 22.

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	88700	124000	274000	171000	272000	215000	173000	264000	369000	355000	166000	143000
2	101000	127000	317000	159000	249000	189000	212000	261000	384000	352000	169000	120000
3	106000	121000	325000	185000	233000	177000	202000	270000	365000	349000	166000	103000
4	91700	104000	293000	188000	210000	152000	176000	279000	363000	334000	166000	118000
5	70100	106000	291000	189000	231000	154000	183000	277000	375000	319000	147000	134000
6	85400	118000	288000	181000	218000	152000	177000	265000	406000	284000	178000	121000
7	84600	138000	302000	227000	222000	173000	183000	265000	417000	266000	164000	115000
8	69400	126000	267000	315000	271000	198000	178000	283000	403000	265000	159000	96300
9	79800	131000	265000	338000	298000	176000	203000	282000	388000	241000	176000	88500
10	75300	124000	242000	348000	268000	162000	223000	249000	e380000	219000	158000	90200
11	113000	111000	241000	324000	230000	164000	256000	225000	e370000	216000	147000	117000
12	97400	111000	245000	266000	232000	222000	278000	231000	357000	239000	145000	108000
13	102000	123000	218000	254000	224000	283000	281000	212000	327000	256000	151000	89400
14	92800	132000	291000	243000	218000	306000	328000	237000	330000	247000	154000	91800
15	105000	165000	323000	225000	220000	268000	375000	238000	315000	244000	163000	120000
16	101000	157000	305000	250000	195000	264000	423000	244000	319000	242000	181000	93300
17	104000	159000	370000	272000	164000	245000	459000	240000	301000	221000	164000	101000
18	127000	165000	364000	247000	165000	209000	464000	249000	326000	242000	145000	123000
19	109000	133000	376000	227000	167000	221000	439000	239000	346000	247000	146000	116000
20	91700	146000	346000	206000	195000	234000	400000	249000	381000	228000	154000	122000
21	80100	175000	328000	238000	195000	234000	373000	268000	388000	239000	163000	132000
22	68000	170000	319000	266000	205000	209000	351000	297000	381000	230000	153000	113000
23	122000	237000	283000	291000	203000	191000	337000	317000	348000	225000	148000	112000
24	113000	227000	258000	299000	222000	186000	328000	314000	336000	199000	148000	131000
25	118000	227000	221000	301000	240000	182000	304000	305000	340000	205000	153000	118000
26	97800	220000	211000	331000	220000	177000	284000	281000	314000	186000	130000	117000
27	112000	215000	194000	338000	220000	182000	269000	264000	316000	171000	130000	129000
28	109000	200000	182000	321000	214000	187000	264000	284000	335000	170000	138000	114000
29	117000	252000	184000	308000	---	185000	240000	329000	369000	159000	144000	94800
30	111000	286000	178000	295000	---	184000	248000	350000	383000	171000	132000	102000
31	107000	---	170000	280000	---	174000	---	361000	---	181000	143000	---
TOTAL	3049800	4830000	8471000	8083000	6201000	6255000	8611000	8429000	10732000	7502000	4781000	3373300
MEAN	98380	161000	273300	260700	221500	201800	287000	271900	357700	242000	154200	112400
MAX	127000	286000	376000	348000	298000	306000	464000	361000	417000	355000	181000	143000
MIN	68000	104000	170000	159000	164000	152000	173000	212000	301000	159000	130000	88500
AC-FT	6049000	9580000	16800000	16030000	12300000	12410000	17080000	16720000	21290000	14880000	9483000	6691000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

MEAN	144800	196500	269100	288900	282400	255900	273600	325100	327800	217400	157400	129600
MAX	212300	256500	430800	444300	543400	388700	406500	507500	514500	279300	223000	177300
(WY)	1998	1996	1996	1997	1996	1997	1969	1997	1997	1997	1999	1997
MIN	98380	136100	175400	153400	141500	142100	150500	174700	151700	98390	106300	90080
(WY)	2002	1994	1994	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1968 - 2002

ANNUAL TOTAL	53007600	80318100		
ANNUAL MEAN	145200	220000		239300
HIGHEST ANNUAL MEAN				338200
LOWEST ANNUAL MEAN				140000
HIGHEST DAILY MEAN	376000	Dec 19	464000	Apr 18
LOWEST DAILY MEAN	63600	Sep 9	68000	Oct 22
ANNUAL SEVEN-DAY MINIMUM	78700	Sep 5	79500	Oct 4
ANNUAL RUNOFF (AC-FT)	105100000		159300000	173300000
10 PERCENT EXCEEDS	211000		346000	390000
50 PERCENT EXCEEDS	140000		218000	217000
90 PERCENT EXCEEDS	88900		110000	123000

e Estimated