

COLUMBIA RIVER MAIN STEM

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12438000 COLUMBIA RIVER AT BRIDGEPORT, WA

LOCATION.--Lat 48°00'24", long 119°39'51", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.29 N., R.25 E., Douglas County, Hydrologic Unit 17020005, on left bank at Bridgeport, 1.0 mi downstream from Foster Creek, 1.6 mi downstream from Chief Joseph Dam, and at mile 543.9.

DRAINAGE AREA.--75,700 mi², approximately.

PERIOD OF RECORD.--April 1952 to current year.

REVISED RECORDS.--WSP 1933: Drainage area.

GAGE.--Daily discharge determined from flow through turbines plus spillway flow when present. Datum of gage is NGVD of 1929 (levels by Corps of Engineers). Apr. 4, 1952, to Aug. 4, 1988, water-stage recorder; May 26, 1967, to Aug. 4, 1988, auxiliary water-stage recorder 4,800 ft upstream from base gage at same datum.

REMARKS.--Flow regulated by numerous reservoirs. Feeder Canal diversion (station 12435500) for Columbia Basin project is used to irrigate approximately 600,000 acres in the United States. An additional 66,500 acres in Canada are irrigated by other diversions.

COOPERATION.--Discharge records provided by Corps of Engineers at Chief Joseph Dam through the Corps of Engineers, Northwestern Division, Reservoir Control Center. The U.S. Geological Survey made 6 discharge measurements at this site during the year.

AVERAGE DISCHARGE.--50 years (water years 1953-2002), 110,100 ft³/s, 79,770,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 495,800 ft³/s June 11, 1961; maximum elevation, 792.20 ft June 7, 1956; minimum observed discharge, 4,220 ft³/s Mar. 22, 1966, elevation, 746.91 ft; minimum daily discharge, 22,300 ft³/s Nov. 11, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 229,000 ft³/s July 2; minimum daily discharge, 28,400 ft³/s March 31.

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	59700	54400	52300	72300	99300	87100	53500	117000	97800	221000	128000	43700
2	59400	52800	48800	99800	84700	71300	66100	124000	138000	229000	141000	63700
3	61000	46500	95700	104000	75700	52100	61300	118000	169000	225000	112000	91600
4	56000	44500	99100	112000	115000	75200	51800	112000	211000	199000	91000	68300
5	50500	75100	91100	94600	112000	58600	56200	103000	200000	174000	115000	64900
6	40100	77000	78400	64000	109000	87800	35500	147000	186000	174000	123000	66500
7	43700	77300	75900	84100	92900	96300	32900	143000	209000	116000	141000	52900
8	55100	76100	50900	77700	100000	93800	38900	122000	198000	148000	136000	50800
9	61000	67800	55500	60100	92800	65700	49900	135000	193000	178000	138000	84000
10	60600	54700	97700	60600	85800	53700	66500	122000	203000	190000	111000	70000
11	57900	55500	100000	79500	125000	91600	113000	98000	182000	188000	95000	60200
12	65800	67600	99900	58800	110000	86000	115000	91600	181000	201000	122000	77800
13	42300	62400	88000	64500	102000	68400	92100	133000	159000	182000	128000	78900
14	46900	65500	81300	111000	94100	68300	111000	126000	170000	123000	122000	42300
15	71900	73900	69100	105000	118000	78800	135000	122000	145000	171000	120000	47400
16	72700	73500	48400	107000	93600	67900	164000	129000	140000	192000	94600	78300
17	66200	60300	91800	112000	69600	52500	178000	120000	170000	168000	80800	69400
18	63800	60500	98300	109000	98900	92800	182000	109000	186000	174000	79900	84400
19	64200	83100	101000	89500	99400	77900	173000	106000	200000	185000	117000	98200
20	43700	92400	111000	61700	92000	99900	168000	116000	222000	164000	111000	94400
21	47200	88800	100000	112000	82300	76200	156000	112000	201000	146000	115000	76300
22	65800	55000	79300	110000	72900	50600	174000	118000	151000	171000	127000	68800
23	59700	69000	63000	105000	74600	33500	156000	129000	116000	162000	114000	101000
24	69100	75100	90700	99200	63300	33900	154000	124000	181000	144000	95400	100000
25	64600	67800	54200	106000	91400	45400	148000	105000	193000	132000	70000	93000
26	53700	106000	109000	80700	79400	61900	136000	130000	192000	114000	111000	80600
27	43400	101000	101000	69100	98900	57700	113000	136000	211000	99400	109000	64100
28	46000	109000	91700	113000	76400	52100	111000	131000	222000	98800	116000	62800
29	75300	98800	70800	118000	---	46000	143000	126000	188000	128000	108000	43600
30	60500	85400	55600	130000	---	33300	146000	114000	180000	144000	112000	80000
31	44900	---	95000	126000	---	28400	---	125000	---	140000	82500	---
TOTAL	1772700	2176800	2544500	2896200	2609000	2044700	3380700	3743600	5394800	5081200	3466200	2157900
MEAN	57180	72560	82080	93430	93180	65960	112700	120800	179800	163900	111800	71930
MAX	75300	109000	111000	130000	125000	99900	182000	147000	222000	229000	141000	101000
MIN	40100	44500	48400	58800	63300	28400	32900	91600	97800	98800	70000	42300
AC-FT	3516000	4318000	5047000	5745000	5175000	4056000	6706000	7425000	10700000	10080000	6875000	4280000

CAL YR 2001 TOTAL 25820300 MEAN 70740 MAX 129000 MIN 23200 AC-FT 51210000
WTR YR 2002 TOTAL 37268300 MEAN 102100 MAX 229000 MIN 28400 AC-FT 73920000