

COLUMBIA RIVER MAIN STEM

12399500 COLUMBIA RIVER AT INTERNATIONAL BOUNDARY  
(International gaging station)

LOCATION.--Lat 49°00'03", long 117°37'42", in NE 1/4 SE 1/4 sec.4, T.40 N., R.41 E., Stevens County, Hydrologic Unit 17020001, on left bank at international boundary, 0.5 mi downstream from Pend Oreille River, and at mile 745.0.

DRAINAGE AREA.--59,700 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1937 to current year. Prior to March 1938, monthly discharge only, published in WSP 1316.

REVISED RECORDS.--WSP 932: 1937(m), 1938(M), 1939(m).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (Bureau of Reclamation datum). Prior to Apr. 27, 1939, nonrecording gage at same site and datum. Since May 31, 1942, auxiliary water-stage recorder and Jan. 1 to May 30, 1942, auxiliary nonrecording gage 2.2 mi downstream from base gage at same datum.

REMARKS.--Records good except for estimated daily discharges and periods when the base gage height drops below 1,298 ft, which are fair. Flow regulated by numerous reservoirs. It was estimated that 436,400 acres were under irrigation in the United States in 1980 with diversions for irrigation of an additional 35,000 acres in Canada. U.S. Geological Survey satellite telemeter at station.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--65 years (water years 1938-2002), 99,630 ft<sup>3</sup>/s, 72,182,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 550,100 ft<sup>3</sup>/s June 12, 1948, elevation, 1,338.13 ft; minimum discharge, 18,000 ft<sup>3</sup>/s Feb. 7, 1954, elevation, 1,289.38 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1894 reached a stage of 1,346 ft, from information by Bureau of Reclamation, discharge, 680,000 ft<sup>3</sup>/s.

A discharge of about 12,900 ft<sup>3</sup>/s occurred Jan. 30 or 31, 1937, based on information from other gaging stations, elevation, 1,287.9 ft, from rating curve extended below 1,291.6 ft and may have been as low sometime in January 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 236,000 ft<sup>3</sup>/s June 30, elevation, 1,316.58 ft; minimum daily discharge, 40,000 ft<sup>3</sup>/s April 2.

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	71300	62800	82900	63000	66900	65900	e50000	79100	184000	224000	115000	110000
2	68100	64200	89300	67000	73400	65200	e40000	90800	188000	217000	113000	106000
3	70400	63800	96500	60600	66700	59700	e43800	92100	199000	207000	112000	102000
4	69700	63100	96000	66600	65600	63500	e43800	86800	197000	200000	110000	94200
5	66900	63400	90800	72300	68200	64600	e46500	90400	195000	192000	113000	91500
6	66400	63000	93100	59400	69500	65300	e47500	92700	201000	184000	112000	88100
7	66200	60300	90800	64900	72100	62500	e43400	91600	199000	174000	109000	84100
8	63200	61900	78700	66600	68000	60500	e51500	92500	195000	182000	107000	81300
9	68100	61900	75500	72800	63400	57800	e51000	95400	200000	189000	111000	85800
10	67600	64900	81200	81100	64100	57900	e52800	92700	194000	188000	108000	88300
11	68600	65500	79300	82500	64300	62800	e54000	90900	188000	180000	114000	88300
12	67800	63100	76900	83300	63300	63600	67800	90400	185000	181000	115000	91700
13	67800	56600	81300	81400	59200	63600	69500	90100	189000	182000	113000	92500
14	66900	52100	80600	80300	57200	64700	76100	89500	189000	180000	112000	96000
15	67400	48900	78600	72200	59600	68400	82400	87100	191000	183000	111000	88300
16	64500	58300	74200	76300	62200	65500	94300	87200	195000	183000	106000	88100
17	61500	62300	88400	75300	60700	71100	94500	90200	198000	182000	109000	91400
18	60700	78800	87100	76000	64100	67900	93800	e91600	193000	180000	107000	87700
19	61700	86600	85900	70400	60900	70800	89200	e92000	190000	178000	109000	90400
20	62200	78400	78000	66400	61100	70300	84100	e102000	177000	167000	106000	92000
21	59600	71700	73100	69100	64600	66300	83300	e115000	165000	165000	99300	86400
22	63700	57700	67900	63800	62500	64800	88200	e131000	168000	154000	104000	84400
23	59500	62600	68900	63600	64200	52800	87800	e141000	168000	148000	104000	87600
24	61300	66900	70300	61200	58800	53700	84400	e147000	168000	145000	105000	84400
25	63000	63600	63200	63500	62100	53500	76000	e148000	174000	137000	106000	82900
26	57800	68700	69300	62100	58400	62800	84800	e147000	198000	130000	108000	84000
27	57400	69500	68700	59700	63600	63200	83300	e143000	203000	128000	112000	88600
28	57900	70900	66900	64200	68100	56200	86100	e150000	210000	125000	112000	81400
29	62900	65500	67400	69700	---	51900	82600	160000	223000	128000	109000	78000
30	63500	79500	72700	72800	---	49000	81700	168000	231000	123000	109000	82700
31	64300	---	69100	71200	---	45100	---	187000	---	120000	110000	---
TOTAL	1997900	1956500	2442600	2159300	1792800	1910900	2114200	3452100	5755000	5256000	3390300	2678100
MEAN	64450	65220	78790	69650	64030	61640	70470	111400	191800	169500	109400	89270
MAX	71300	86600	96500	83300	73400	71100	94500	187000	231000	224000	115000	110000
MIN	57400	48900	63200	59400	57200	45100	40000	79100	165000	120000	99300	78000
AC-FT	3963000	3881000	4845000	4283000	3556000	3790000	4194000	6847000	11420000	10430000	6725000	5312000
CAL YR 2001	TOTAL 25865300	MEAN 70860	MAX 115000	MIN 40300	AC-FT 51300000							
WTR YR 2002	TOTAL 34905700	MEAN 95630	MAX 231000	MIN 40000	AC-FT 69240000							

e Estimated