

## 12399500 COLUMBIA RIVER AT INTERNATIONAL BOUNDARY

Upper Columbia Basin  
Franklin D. Roosevelt Lake Subbasin

LOCATION.--Lat 49°00'03", long 117°37'42" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.4, T.40 N., R.41 E., Stevens County, WA, Hydrologic Unit 17020001, on left bank at international boundary, 0.5 mi downstream from Pend Oreille River, and at mile 745.0.

AUXILIARY GAGE: Lat 48°58'17", long 117°38'44", in NW ¼ SW ¼ sec. 16, T. 40 N., R. 41 E., on left bank 2.2 mi downstream from base gage.

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

### SURFACE-WATER RECORDS

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.

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

REMARKS.--Records 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 66,500 acres in Canada. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--72 years (water years 1938-2009), 98,930 ft<sup>3</sup>/s, 71,670,000 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 in January 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 175,000 ft<sup>3</sup>/s, June 2, elevation, 1,311.40 ft; minimum discharge, 38,300 ft<sup>3</sup>/s, Apr. 13.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	65,400	e64,100	70,900	100,000	71,500	60,300	54,100	80,400	168,000	130,000	89,200	58,100
2	67,900	59,100	72,100	99,100	72,000	64,200	49,200	69,500	174,000	130,000	87,800	61,600
3	69,600	66,000	72,200	102,000	76,500	66,300	46,900	77,500	169,000	124,000	86,900	64,500
4	68,600	60,400	75,600	99,400	76,200	63,700	46,400	76,200	171,000	123,000	84,100	63,700
5	62,800	60,500	76,500	103,000	77,600	65,200	45,000	75,800	166,000	122,000	82,300	58,900
6	72,000	59,600	76,800	103,000	78,100	66,700	47,200	80,800	166,000	123,000	79,000	57,700
7	69,200	58,700	77,000	101,000	79,000	59,100	48,800	82,000	161,000	124,000	78,900	58,000
8	68,700	54,900	85,100	103,000	76,500	61,200	52,900	80,700	153,000	125,000	71,400	60,500
9	68,400	51,400	89,900	101,000	80,300	60,600	50,200	85,200	143,000	125,000	67,300	57,700
10	71,500	54,300	92,900	96,400	84,400	59,200	47,100	85,800	135,000	120,000	68,600	61,100
11	66,000	53,600	100,000	92,700	78,300	53,400	46,400	86,800	131,000	107,000	64,700	63,200
12	68,300	52,700	101,000	93,000	80,200	57,200	45,600	88,800	127,000	110,000	79,300	61,300
13	69,400	56,900	98,800	91,600	73,000	55,800	52,400	95,200	125,000	110,000	84,400	58,900
14	70,700	65,800	104,000	93,100	77,500	55,400	57,400	92,100	122,000	112,000	73,700	65,500
15	69,500	65,200	104,000	92,700	72,300	51,700	63,500	96,400	131,000	113,000	68,400	69,600
16	69,600	64,900	105,000	88,300	79,800	56,700	64,000	95,700	135,000	114,000	61,600	67,500
17	71,900	64,500	98,300	90,300	71,700	53,200	65,400	94,500	136,000	103,000	63,200	68,200
18	66,300	66,800	101,000	83,000	73,900	54,600	66,500	96,300	141,000	101,000	62,300	67,800
19	66,500	66,400	103,000	85,200	77,800	61,400	66,800	104,000	136,000	95,900	66,400	66,800
20	71,000	66,500	98,700	87,400	80,800	56,800	72,500	110,000	144,000	95,800	63,300	70,400
21	70,700	63,000	97,300	89,800	77,800	58,200	72,000	105,000	141,000	94,500	58,700	72,500
22	67,900	63,800	94,600	86,400	72,100	51,700	73,000	114,000	139,000	94,600	61,000	69,800
23	69,500	60,100	102,000	82,100	76,900	61,500	79,400	126,000	134,000	84,000	60,600	70,300
24	68,500	62,200	95,000	85,400	76,700	64,900	74,200	139,000	129,000	90,500	62,400	73,100
25	67,700	61,600	95,400	88,300	78,600	61,200	74,100	139,000	124,000	86,800	59,600	74,400
26	65,800	60,300	98,200	89,000	82,800	61,600	71,500	146,000	118,000	88,600	58,800	72,700
27	69,500	56,300	95,800	90,300	81,800	66,200	80,600	148,000	122,000	93,600	60,700	74,900
28	67,100	59,700	98,900	91,100	74,900	64,700	81,800	149,000	119,000	93,400	57,300	76,200
29	64,300	62,400	105,000	88,600	---	65,700	76,300	158,000	123,000	92,700	59,100	71,300
30	e64,500	65,500	102,000	87,500	---	62,000	78,600	163,000	128,000	92,300	58,800	77,500
31	e64,200	---	96,600	79,600	---	62,500	---	166,000	---	87,300	60,900	---
<b>Total</b>	2,113,000	1,827,200	2,883,600	2,863,300	2,159,000	1,862,900	1,849,800	3,306,700	4,211,000	3,306,000	2,140,700	1,993,700
<b>Mean</b>	68,160	60,910	93,020	92,360	77,110	60,090	61,660	106,700	140,400	106,600	69,050	66,460
<b>Max</b>	72,000	66,800	105,000	103,000	84,400	66,700	81,800	166,000	174,000	130,000	89,200	77,500
<b>Min</b>	62,800	51,400	70,900	79,600	71,500	51,700	45,000	69,500	118,000	84,000	57,300	57,700
<b>Ac-ft</b>	4,191,000	3,624,000	5,720,000	5,679,000	4,282,000	3,695,000	3,669,000	6,559,000	8,353,000	6,557,000	4,246,000	3,955,000

	Calendar Year 2008	Water Year 2009
<b>Total</b>	33,706,800	30,516,900
<b>Mean</b>	92,100	83,610
<b>Max</b>	217,000	174,000
<b>Min</b>	40,300	45,000
<b>Ac-ft</b>	66,860,000	60,530,000

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