

COLUMBIA RIVER MAIN STEM

12323000 COLUMBIA RIVER AT BIRCHBANK, BRITISH COLUMBIA
(International gaging station)

LOCATION.--Lat 49°10'40", long 117°42'59", on right bank at Birchbank, British Columbia, 0.7 mi downstream from Sullivan Creek, 7 mi upstream from Trail, 11.7 mi downstream from Kootenay River, 17.4 mi upstream from international boundary, and at mile 762.4.

DRAINAGE AREA.--34,000 mi², approximately.

PERIOD OF RECORD.--April 1913 to current year in reports of Geological Survey and Water Survey of Canada. Published as "at Trail, British Columbia" 1913-37.

REVISED RECORDS.--WSP 982: 1942. WSP 1216: 1949.

GAGE.--Water-stage recorder. Datum of gage is 1,329.90 ft above NGVD of 1929, 1947 international joint adjustment, published as 1,338.00 ft prior to October 1948. Prior to Oct. 1, 1937, nonrecording gage on highway bridge at site 6.8 mi downstream at datum 16.27 ft lower.

REMARKS.--Flow regulated by six major reservoirs, and by numerous small reservoirs and powerplants. Diversions upstream from station for irrigation of about 25,000 acres.

COOPERATION.--Discharge records furnished by Environment Canada, Monitoring and Systems Branch, Water Survey Division. This station is maintained by Canada under agreement with the United States.

AVERAGE DISCHARGE.--89 years (water years 1914-2002), 71,240 ft³/s, 51,610,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 377,000 ft³/s June 9, 1961, gage height, 50.05 ft; maximum gage height, 50.62 ft June 11, 1948; minimum discharge observed, 8,940 ft³/s Feb. 3, 1937, gage height, 6.27 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 143,000 ft³/s July 13; minimum daily discharge, 26,900 ft³/s Apr. 5.

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	56900	43800	71700	52300	49400	46600	27100	46600	102000	138000	97800	96100
2	52600	43800	75600	52300	54000	48000	27400	50500	103000	136000	96100	93600
3	52600	43400	86900	52600	48400	48400	27300	51600	104000	136000	94300	86900
4	52600	43400	83000	52600	45900	49800	27200	51900	103000	136000	95300	80500
5	50100	43400	77700	52600	51900	47300	26900	51200	101000	133000	94600	80900
6	47700	42000	81200	52600	52600	44500	28600	53000	104000	130000	95300	72700
7	47700	39900	75600	52600	53000	43800	31000	51600	101000	127000	93900	73100
8	47700	39900	66000	53000	48700	44100	30400	51900	98200	131000	93200	69600
9	47300	39900	65700	53000	43400	44100	30800	51200	102000	138000	90800	72400
10	48000	39900	67500	53300	42700	44100	32600	49400	94600	136000	91100	72000
11	47300	39600	69600	53000	42700	44100	32400	50100	89300	136000	94300	74500
12	47300	39600	69600	53000	42400	44100	34700	50100	86500	140000	94300	75600
13	47000	39900	68500	53000	42400	44500	36700	51200	91500	143000	94300	76600
14	47000	39900	68900	53000	42700	44500	39600	50900	90100	142000	94300	77000
15	45200	39900	68200	53000	42700	44500	39900	52600	94300	142000	93900	77000
16	42000	40300	68200	53000	44800	44500	42000	51900	98900	141000	89300	76300
17	40300	44500	68200	52600	44500	44500	42700	54000	102000	141000	91500	73100
18	40300	57900	68200	53000	45900	44800	45200	53700	102000	140000	91800	73500
19	40300	65300	65000	53000	44100	44800	39200	53700	103000	138000	91800	75200
20	40300	62900	57200	53000	44100	44800	44100	56500	98900	130000	88300	72400
21	40300	57200	53000	48000	44800	44800	44100	63600	95000	127000	85800	71000
22	40300	54700	53000	44100	44800	43100	47000	73100	95000	125000	90400	68500
23	39600	54000	53000	44100	46600	42000	45600	75200	95700	120000	90400	70300
24	38800	54400	53000	44100	44100	42400	45900	74200	96400	116000	93200	69600
25	37800	54700	52600	44100	46300	41000	46600	71700	102000	110000	94300	68200
26	37800	55100	52600	44100	46300	40600	45600	71700	118000	104000	95300	67500
27	39200	56500	52600	44100	45900	38500	44800	73500	119000	102000	96400	71700
28	41000	56500	52600	48700	47300	33700	44800	79100	130000	102000	96400	67500
29	43100	55100	52600	49100	---	30400	44500	83000	139000	102000	95700	66400
30	44100	62500	52600	52600	---	28400	43800	87900	142000	99600	96400	66000
31	43800	---	52600	52600	---	27300	---	101000	---	98900	95000	---
TOTAL	1386000	1449900	2002700	1572100	1292400	1318000	1138500	1887600	3101400	3940500	2895500	2235700
MEAN	44710	48330	64600	50710	46160	42520	37950	60890	103400	127100	93400	74520
MAX	56900	65300	86900	53300	54000	49800	47000	101000	142000	143000	97800	96100
MIN	37800	39600	52600	44100	42400	27300	26900	46600	86500	98900	85800	66000
AC-FT	2749000	2876000	3972000	3118000	2563000	2614000	2258000	3744000	6152000	7816000	5743000	4435000
CAL YR 2001	TOTAL 20342200	MEAN 55730	MAX 86900	MIN 31600	AC-FT 40350000							
WTR YR 2002	TOTAL 24220300	MEAN 66360	MAX 143000	MIN 26900	AC-FT 48040000							