



Figure 27. Location of surface-water stations in the Kettle and Colville River Basins and on the Columbia River above Franklin D. Roosevelt Lake.

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.--91 years (water years 1914-2004), 71,100 ft³/s, 51,510,000 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, 103,000 ft³/s, Dec. 18, 19; minimum daily discharge, 38,100 ft³/s, Apr. 2.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75,200	54,700	73,500	58,600	69,200	42,400	45,200	56,200	65,300	92,900	67,800	79,500
2	76,300	64,300	73,500	59,300	66,400	41,700	38,100	58,600	67,800	92,200	68,500	74,900
3	77,300	65,000	74,500	60,000	55,400	41,700	41,700	60,700	68,900	91,800	68,500	74,900
4	74,500	62,900	79,800	65,000	47,000	42,000	41,700	61,800	70,300	91,800	68,900	73,800
5	69,200	62,900	81,200	66,400	44,100	41,700	42,400	63,600	75,200	88,600	67,500	72,400
6	65,700	63,200	83,300	66,000	44,100	42,000	43,100	64,300	78,800	84,400	64,300	72,400
7	64,300	65,300	82,600	65,000	44,500	44,800	43,800	63,900	80,900	81,900	62,900	71,700
8	61,800	65,000	83,000	63,600	44,500	42,400	47,000	64,600	84,000	81,200	60,000	73,800
9	58,300	62,900	84,800	56,900	44,500	42,400	43,100	65,000	85,500	80,900	63,900	76,600
10	60,700	62,900	87,200	56,200	44,500	42,400	44,500	65,700	85,500	80,200	65,300	71,300
11	57,900	62,900	87,900	55,100	44,500	42,700	45,600	65,000	85,500	79,500	66,400	66,400
12	57,200	62,900	92,500	54,700	44,500	41,700	46,300	64,300	90,100	79,500	69,900	67,500
13	56,900	62,500	96,100	52,600	45,600	44,800	48,400	62,900	92,900	79,800	74,500	70,600
14	56,500	62,500	97,500	52,300	45,900	45,200	51,200	61,800	93,200	81,900	75,600	66,000
15	57,200	62,900	98,900	53,000	45,900	44,800	51,900	61,100	92,500	75,600	81,200	68,200
16	58,300	63,200	102,000	53,300	46,600	44,800	50,900	60,000	91,800	74,500	81,600	69,200
17	57,600	63,200	102,000	55,100	45,600	44,500	51,900	59,700	91,500	71,300	85,100	73,500
18	57,200	61,100	103,000	55,100	45,200	44,500	51,200	60,000	89,000	69,600	85,500	78,000
19	57,200	63,600	103,000	56,900	45,200	44,800	51,600	61,400	84,400	69,200	86,500	80,200
20	57,600	65,300	101,000	62,900	45,600	45,200	51,900	61,800	81,900	64,600	84,400	79,800
21	58,600	63,600	97,100	68,200	44,800	44,500	51,900	61,400	81,900	68,500	79,800	71,700
22	58,600	61,800	90,100	70,300	43,800	44,500	51,600	64,600	83,300	55,100	72,400	72,000
23	60,700	62,900	82,300	71,300	42,000	44,800	51,600	63,200	84,400	69,900	88,300	71,700
24	62,900	60,000	78,400	73,500	41,300	47,700	51,200	61,400	89,300	69,200	89,700	70,300
25	62,500	60,700	78,800	73,500	41,700	48,700	50,500	61,800	92,900	71,300	91,800	66,000
26	62,500	66,000	79,100	73,500	42,400	44,500	51,600	61,800	92,500	72,700	92,500	61,800
27	62,900	70,600	78,800	73,100	41,000	50,500	52,600	61,400	94,300	69,600	93,200	57,200
28	59,000	75,600	75,900	73,500	42,400	50,900	53,000	57,900	93,200	66,700	89,700	50,900
29	53,300	74,900	68,500	71,700	42,700	49,100	54,000	55,800	92,500	66,700	85,500	48,700
30	51,900	74,200	60,700	69,600	---	48,400	54,700	56,900	92,200	66,400	86,200	48,400
31	51,600	---	55,100	69,600	---	49,400	---	57,200	---	67,500	84,800	---
TOTAL	1,901,400	1,929,500	2,632,100	1,955,800	1,340,900	1,389,500	1,454,200	1,905,800	2,551,500	2,355,000	2,402,200	2,079,400
MEAN	61,340	64,320	84,910	63,090	46,240	44,820	48,470	61,480	85,050	75,970	77,490	69,310
MAX	77,300	75,600	103,000	73,500	69,200	50,900	54,700	65,700	94,300	92,900	93,200	80,200
MIN	51,600	54,700	55,100	52,300	41,000	41,700	38,100	55,800	65,300	55,100	60,000	48,400
AC-FT	3,771,000	3,827,000	5,221,000	3,879,000	2,660,000	2,756,000	2,884,000	3,780,000	5,061,000	4,671,000	4,765,000	4,124,000
CAL YR	2003	TOTAL 23,402,600	MEAN 64,120	MAX 103,000	MIN 33,400	AC-FT 46,420,000						
WTR YR	2004	TOTAL 23,897,300	MEAN 65,290	MAX 103,000	MIN 38,100	AC-FT 47,400,000						