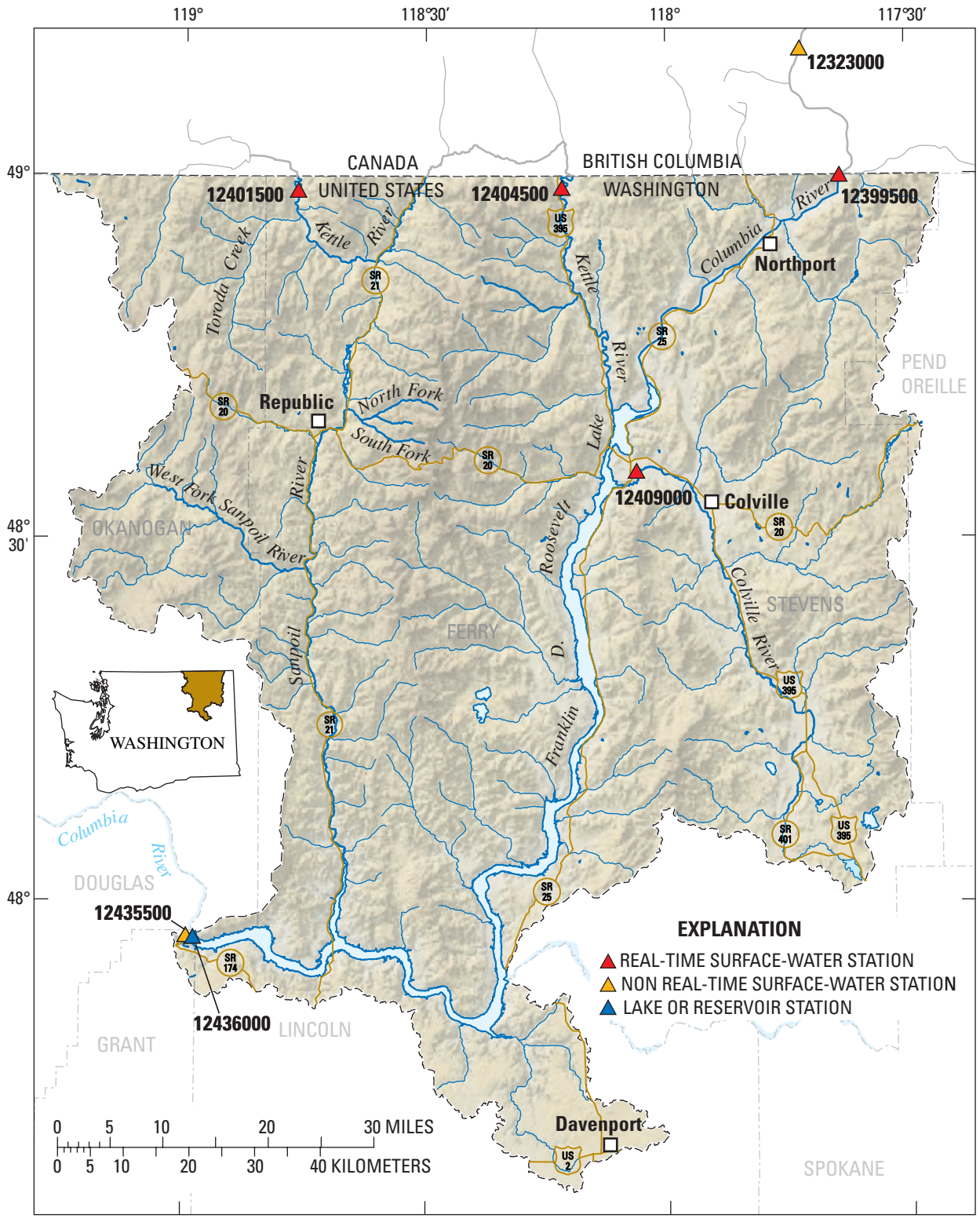

Figure 46. Location of surface-water stations in the Kettle and Colville River Basins and on the Columbia River above Franklin D. Roosevelt Lake.

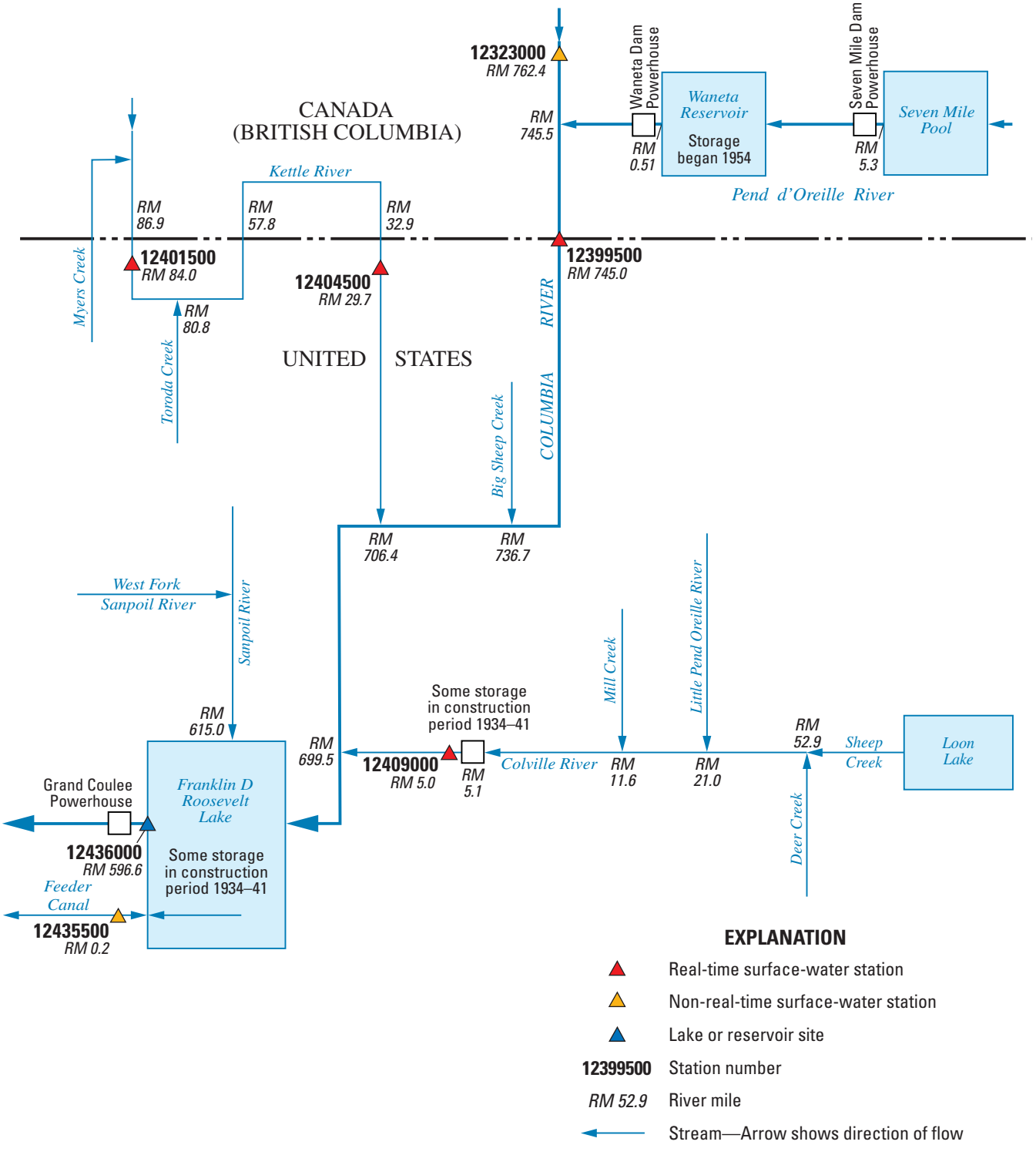

Figure 47. Schematic diagram showing surface-water stations in the Kettle and Colville River Basins and on the Columbia River above Franklin D. Roosevelt Lake.

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 mi^2, 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.--92 years (water years 1914-2005), 71,100 ft^3/s, 51,510,000 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 116,000 ft^3/s, July 11; minimum daily discharge, 38,500 ft^3/s, Apr. 15.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48,400	65,000	88,600	73,100	62,900	49,800	42,700	50,500	84,800	97,500	101,000	78,000
2	48,400	65,000	86,500	77,300	62,500	48,400	42,400	50,900	92,200	97,500	100,000	75,600
3	48,400	64,600	86,500	79,500	62,500	50,900	41,000	50,900	96,100	97,800	101,000	75,200
4	48,400	64,600	89,000	79,500	54,000	51,600	40,300	50,500	98,500	99,200	99,900	74,500
5	48,400	64,300	90,400	77,000	58,300	48,400	40,300	52,300	97,500	103,000	101,000	74,200
6	48,700	63,900	92,500	73,500	59,300	45,600	39,600	53,700	97,500	106,000	101,000	75,600
7	47,000	63,600	90,800	79,500	61,800	43,400	40,300	58,300	96,100	106,000	99,200	76,300
8	48,400	63,200	91,100	76,300	59,000	42,000	41,000	62,200	93,900	106,000	98,500	76,300
9	49,800	63,600	89,300	72,400	51,900	39,900	41,000	64,300	93,200	108,000	93,900	77,000
10	51,200	63,600	76,300	74,500	62,900	43,800	41,000	64,600	93,200	113,000	93,900	77,000
11	51,200	63,600	76,600	71,300	63,200	46,600	39,900	66,000	95,300	116,000	93,200	75,900
12	51,200	62,900	74,900	65,300	59,700	47,000	39,200	67,500	95,000	114,000	92,900	68,900
13	51,200	62,900	80,900	74,500	56,500	47,000	38,800	67,100	94,300	113,000	93,200	69,900
14	51,200	61,800	89,700	80,200	59,000	44,100	38,800	72,700	95,000	113,000	93,600	70,300
15	51,200	61,800	88,300	78,800	56,900	42,400	38,500	77,000	93,900	112,000	92,900	70,300
16	51,200	63,200	85,500	73,500	60,700	43,400	39,200	81,200	93,900	112,000	91,100	70,300
17	51,200	62,900	88,300	72,400	59,300	51,600	39,900	82,300	95,300	112,000	88,300	72,700
18	49,800	62,500	87,900	71,300	62,500	48,700	39,900	80,500	98,500	112,000	86,200	71,700
19	51,200	63,900	86,500	71,300	53,000	48,700	40,300	80,200	100,000	113,000	86,900	72,000
20	51,200	63,900	85,500	71,300	49,400	48,000	40,600	79,800	102,000	115,000	90,400	73,500
21	51,200	63,600	80,500	70,600	49,800	48,000	40,600	79,500	104,000	115,000	92,200	73,500
22	51,200	63,900	70,600	68,500	49,400	48,000	41,300	78,400	104,000	115,000	91,800	74,900
23	51,200	63,900	73,500	67,100	48,400	45,200	42,400	78,000	105,000	114,000	91,100	75,200
24	51,200	64,300	73,100	66,400	50,900	45,900	43,800	77,300	104,000	113,000	83,300	70,600
25	51,200	63,200	72,400	75,600	51,900	45,200	46,300	81,600	103,000	112,000	85,500	67,100
26	51,200	63,900	71,300	68,500	48,000	47,000	49,100	81,900	101,000	107,000	85,500	69,200
27	51,200	68,900	75,900	65,000	49,400	46,600	51,900	82,600	102,000	109,000	85,100	70,300
28	51,200	73,800	79,800	74,200	49,400	43,800	51,200	83,000	102,000	106,000	82,600	70,300
29	51,200	73,500	81,200	65,700	---	45,200	51,200	84,000	97,100	105,000	81,600	69,900
30	57,600	75,600	72,400	62,900	---	47,300	49,800	79,100	97,800	101,000	80,500	69,200
31	64,300	---	73,800	66,400	---	45,900	---	77,700	---	101,000	78,400	---
TOTAL	1,580,400	1,945,400	2,549,600	2,243,400	1,572,500	1,439,400	1,272,300	2,195,600	2,926,100	3,364,000	2,835,700	2,185,400
MEAN	50,980	64,850	82,250	72,370	56,160	46,430	42,410	70,830	97,540	108,500	91,470	72,850
MAX	64,300	75,600	92,500	80,200	63,200	51,600	51,900	84,000	105,000	116,000	101,000	78,000
MIN	47,000	61,800	70,600	62,900	48,000	39,900	38,500	50,500	84,800	97,500	78,400	67,100
AC-FT	3,135,000	3,859,000	5,057,000	4,450,000	3,119,000	2,855,000	2,524,000	4,355,000	5,804,000	6,672,000	5,625,000	4,335,000

CAL YR 2004 TOTAL 23,509,700 MEAN 64,230 MAX 94,300 MIN 38,100 AC-FT 46,630,000
WTR YR 2005 TOTAL 26,109,800 MEAN 71,530 MAX 116,000 MIN 38,500 AC-FT 51,790,000