Department of Mines and Resources
Mines, Forests and Scientific Services Branch
Dominion Water and Power Bureau

FLOOD OF 1948
IN
BRITISH COLUMBIA

by
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Vancouver, B. C.

March 15, 1949

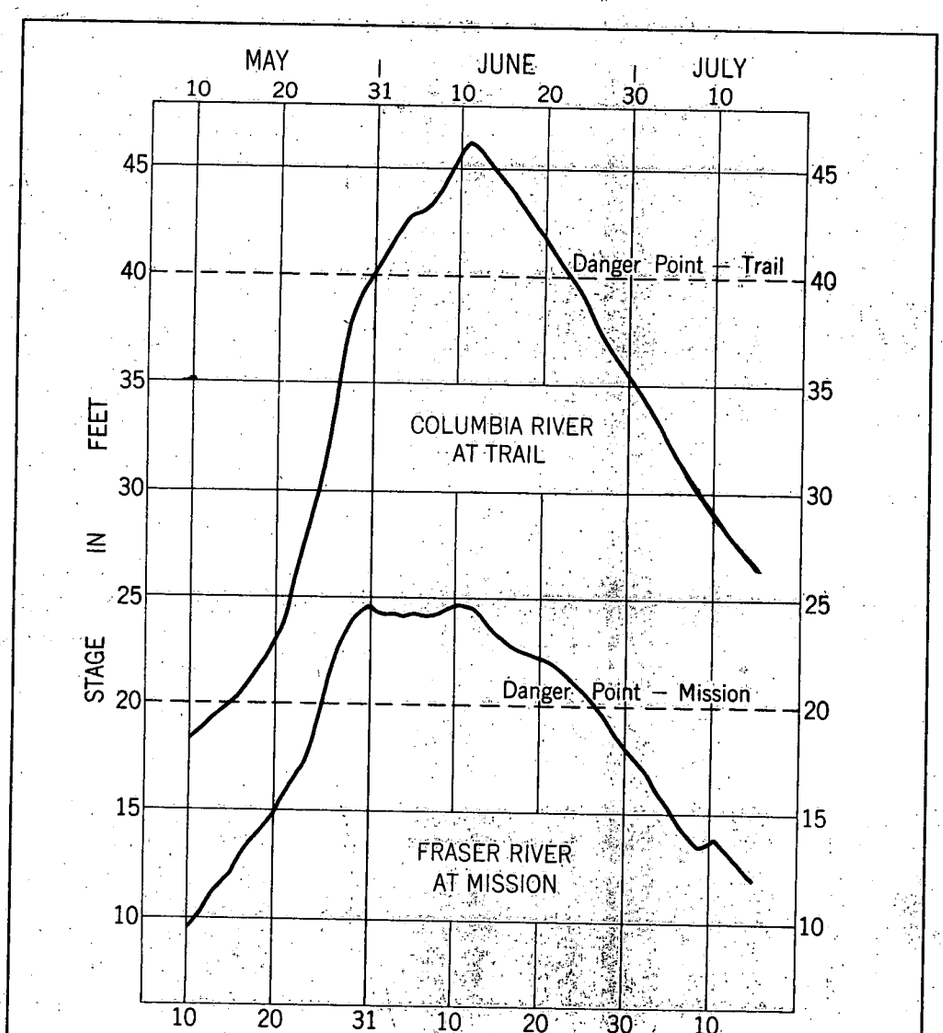

CHART SHOWING RIVER STAGES AT TRAIL AND MISSION

For the period of 10th May to 15th July 1948

Flood of 1948 in British Columbia.

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1949

Flood of 1948 in British Columbia.

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Water Planning and Operations Branch
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FLOOD OF 1948 IN BRITISH COLUMBIA

Introduction

1. The holiday weekend of the 24th of May, 1948, marked the beginning of the most disastrous flood in the history of British Columbia. Approximately 70,000 acres of farm lands were inundated and some 2,300 homes were damaged or destroyed. The brunt of the disaster was borne by the Fraser Valley area, which may be defined as that part of the lands adjacent to the river from Agassiz 70 miles downstream to the sea. 50,000 acres or 1/10 of the total area of the Fraser Valley wer inundated. The flooded area represents 25% of the dyked lands of the valley. In the Lower Kootenay Valley 15,000 acres of reclaimed land in the vicinity of Creston were flooded.

2. The conditions contributing to the flood are briefly summarized as follows:-

(a) A heavy snow accumulation during the winter of 1947-48 formed the flood potential.

(b) Unseasonably low temperatures during March, April and early May retarded the normal spring run-off.

(c) Sudden general rising temperatures in late May accompanied by warm rains in many areas caused simultaneous freshet run-off conditions in the tributary watersheds of all the larger drainage basins of the Province.

3. Although the peak stages reached at all points in the river systems, with the exception of Agassiz, are believed to be below those reached in the flood of 1894, the devastation wrought by the 1948 flood was far greater, due to the duration of peak or near peak flows and the development of the country in the intervening years. The level of the Fraser River at Mission remained over

20 feet for 32 days, while in the flood of 1894 the level exceeded 20 feet for only 11 days.

General Description of the Flood

4. The first incident of the 1948 flood came when Bonaparte Creek overflowed its bank near Cache Creek. Mark Creek in the East Kootenay District caused the first major damage when, on May 25, it topped its banks and flowed through the streets of Kimberley damaging roads, water and sewage systems, dwellings and business properties.

5. At that time the Fraser River was rising rapidly and had reached 19.45 feet at Mission, a bare ½ foot below the danger point of 20 feet. The situation on the Columbia River was not yet serious. At Trail the gauge height was 30.00 feet and was well below the danger point of 40 feet.

6. On May 26, the first of a series of breaks in the dykes along the Fraser River occurred as the dyke at Agassiz was topped forcing the residents to flee to higher ground. The Fraser River had reached a discharge of 401,000 cubic feet per second at Hope and risen to 21.00 feet at Mission.

7. On the same day the Skeena River reached its maximum discharge of 330,000 cubic feet per second and cut the Canadian National Railway line to Prince Rupert at Usk and Remo. A break occurred in the Canadian National Railway main line at Heffley Creek and trains were re-routed over the Canadian Pacific Railway.

8. On May 27 as the Fraser River reached 22.05 feet at Mission, the Canadian Pacific Railway main line was washed out at Harrison Mills, necessitating trains to be re-routed over Canadian National lines via Hope. Evacuation was completed in the Agassiz vicinity and commenced in the Dewdney and Nicomen island areas. At Trail, the Columbia

River was rising at the rate of 2 feet per day and had reached 33.89 feet.

9. On May 28, the Fraser River was discharging 477,000 cubic feet per second at Hope and had reached 23.05 feet at Mission. Workers abandoned their efforts to save the Dewdney dykes and concentrated their energies on the Matsqui dykes opposite Mission. The Canadian National Railway main line was severed at several points below Hope, thus breaking Vancouver's last Canadian railway link with Eastern Canada.

10. On May 29, the Canadian Pacific Railway main line was broken near Field. The Fraser River at Mission reached 23.73 feet and the Nicomen Island and Glen Valley dykes collapsed. The Columbia River at Trail continued to rise 2 feet per day. The Similkameen and Tulameen Rivers were now in flood, washing out roads and bridges.

11. As the Fraser River reached 24.08 feet at Mission, on May 30, the Matsqui dyke collapsed. The air-lines initiated special shuttle services to maintain passenger and express travel. The discharge of the Fraser River at Hope climbed to 509,000 cubic feet per second. The Columbia River at Trail was at 39.16 feet and still rising rapidly. The City of Trail and the Consolidated Mining and Smelting Company concentrated their efforts on strengthening protective works along the Columbia River, bordering the city.

12. The peak discharge of the Fraser River at Hope was reached on May 31 with a flow of 536,000 cubic feet per second. On the same day the river reached 24.32 feet at Mission.

13. On June 1, all efforts to combat the flood were centralized under the direction of the Canadian Army. The

Royal Canadian Navy and the Royal Canadian Air Force rendered invaluable assistance in a variety of operations. On the same day the Cannor dykes, east of the Vedder Canal near Chilliwack, broke, flooding the Greendale area. The Columbia River at Trail was now at 40.60 feet.

14. On June 3, the Canadian Pacific Railway embankment gave way near Hatzic flooding the Hatzic Lake area north of the railways.

15. One June 4, Barnston Island was evacuated. The Columbia River at Trail rose to 42.44 feet with a discharge of 323.000 cubic feet per second. At Hope the discharge of the Fraser River had dropped to 492,000 cubic feet per second and the river was at 24.26 feet at Mission. By this time 30,000 civilians and 3,000 Army and Navy personnel were engaged, throughout the Province, in the battle against the flood.

16. Workers on the dykes had been fairly successful in their efforts to protect the reclaimed areas in the Kootenay Flats, but on June 7 the Kootenay Reclamation Farm dyke gave way, flooding approximately 7,600 acres. The saturated dyke at the northern end of the Creston Dyking District collapsed inundating another 7,300 acres. At that time the Kootenay River at Creston Ferry was 23.51 feet and the peak of 23.59 was reached on June 12.

17. On June 8, Chilliwack was threatened as the Semiault dyke broke but repairs were effected before undue damage was done. The Columbia River at Trail had risen to 43.98 feet with a discharge of 346,000 cubic feet per second. Protective works had been built in the streets of Trail to prevent water from advancing further into the City. In the Lower Mainland of the Province conditions were aggravated by the high spring tides. Lulu Island and parts of Burnaby and New Westminster were threatened and some areas flooded.

18. On June 10, the Fraser River reached its peak stage at Mission of 24.73 feet, and its peak stage at New Westminster of 19.50 feet. The discharge at Hope had dropped to 423,000 cubic feet per second. In the Columbia Basin the flood climax was approaching. The Columbia and Kootenay Rivers were carrying enormous quantities of drift wood and floating debris. Transportation was generally disrupted with ferry services out of order and roads and bridges damaged.

19. On June 11, the Columbia River at Trail reached its flood crest of 46.17 feet, with a discharge of 369,000 cubic feet per second.

20. In the ensuing days it was apparent that the flood was receding. By June 24 the Columbia River at Trail had fallen below the danger point of 40 feet, 23 days after it had first attained that level. On June 26, the Fraser River at Mission had fallen to the danger point of 20 feet, 32 days after it had first reached that point.

21. Okanagan Lake did not reach its peak flood level until June 24, when it stood at 9.58 feet at Penticton, where the normal maximum controlled stage is 7.43 feet. This peak was maintained for 3 days and the subsequent recession was very slow, the Lake remaining above normal high water for more than three months. This prolonged duration of high water level caused considerable damage and inconvenience to lakeshore and valley communities with attendant disruption of transport facilities.

Flood Damage

22. Overall damages in the Province caused by the 1948 flood have been estimated to approach $20,000,000. Of this total, most of the damage was confined to the Fraser Valley. In view of the extensive damage in the Fraser

Valley, it was decided that the Dominion and Provincial Governments would share the cost of repair and reconstruction of dykes in the ratio of 75% and 25% respectively. The Dominion Government made $5,000,000 available to meet the requirements for emergency relief and rehabilitation of flooded areas. It was further decided that the Provincial Government, together with Disaster Agencies, would bear the whole cost of damages outside the Fraser Valley. To provide immediate assistance, over $2,000,000 was raised by public subscription. At one time approximately 16,000 persons had been evacuated from their homes to evacuation centres and private homes. Of the estimated 2,300 homes damaged by the floods, nearly 2,000 were in the Fraser Valley area.

23. Damages to roads and bridges of the Province amounted to $1,500,000 and damages to railways nearly $2,000,000. The cost of repairing and rebuilding dykes in the Fraser Valley has been estimated as $10,000,000.

24. Monetary loss to industry can never be assessed accurately. Many industries closed down or operated at reduced capacity as employees were diverted to work on the dykes.

25. Through efforts of the Red Cross and Medical Authorities no epidemic resulted from the floods. Typhoid vaccine was made available in all areas. The various Disaster Agencies made food and clothing available to the flood victims. Every effort was made to deliver necessities to isolated communitites.

26. While the foregoing narrative only covers the highlights of the 1948 flood picture, it is pointed out that the flood affected, to some extent, the whole population of the Province of British Columbia.

EXPLANATION OF TABLES

The hydrometric data presented in the following tables are arranged in "downstream" order and comprise a summary of the previous maximum recorded stage or discharge, the maximum recorded stage or discharge during the flood period of 1948 and a table for each of 54 selected gauging stations giving the daily stage in feet or the daily discharge in cubic feet per second for the period May 1 to July 15, 1948.

The summary of stages and dsicharges includes the drainage area of the discharge stations and the period of record for both stage and dsicharge stations. The individual station tables give the location and type of gauge.

Each station included in this report is plotted on the pertinent map in the appendix and labelled as to station number.

Stn. No.	Location	Drainage Area Sq.Mi.	Period of Record	Max. Recorded Stage Prior to 1948		Max. Recorded Stage May-June 1948		Max. Recorded Discharge Prior to 1948		Max. Recorded Discharge May-June 1948	
				Date	Stage in ft.	Date	Stage in ft.	Date	Cubic ft/sec	Date	Cubic ft/sec
$8KE_1$	Fraser River at Prince George		1927-30 1946-	29 May 1928		30 May	34.74				
$8KE_2$	Fraser River at Quesnel		1929-	4 June 1936	23.70	30 & 31 May	24.50				
$8MD_{13}$	Fraser River near Jesmond	56,000	1935-					3 June 1936	237,000	31 May	289,000
$8MF_{17}$	Fraser River at Lillooet		1927-30 1932-	26 May 1928	41.00	31 May	35.45				
$8MF_{29}$	Fraser River at Cathmar (above Hell's Gate)		1927-	30 May 1928	85.30	31 May 1 June	108.00				
$8MF_5$	Fraser River at Hope	85,600	1912-					11 June 1921	392,000	31 May	536,000
$8MH_{30}$	Harrison River at Harrison Mills		1938-	30 May 1939	18.75	1 June	24.75				
$8MH_{23}$	Fraser River at Chilliwack		1933-	5 June 1936	20.20	31 May 1 June	22.88				
$8MH_{24}$	Fraser River at Mission		Partial fr. 1876	5 June 1894	25.75	10 June	24.73				
$8MH_{25}$	Fraser River at New Westminster		Partial fr. 1882	14 June	19.50	10 June	19.50				
$8MH_{32}$	Fraser River North Arm		1945-	4 Jan. 1946	17.50	9,12 June	15.40				

Stn. No.	Location	Drainage Area Sq.Mi.	Period of Record	Max. Recorded Stage Prior to 1948		Max. Recorded Stage May-June 1948		Max. Recorded Discharge Prior to 1948		Max. Recorded Discharge May-June 1948	
				Date	Stage in ft.	Date	Stage in ft.	Date	Cubic ft/sec	Date	Cubic ft/sec
$8MH_{28}$	Fraser River @ Steveston		1944-	11 Dec. 1947	15.30	9 June	14.90				
$8JA_1$	Nechako River @ Fort Fraser	6,700	1915-17 1929-					25 June 1937	24,500	6 June	29,500
$8JE_1$	Stuart River near Fort St. James	5,400	1929-					14 July 1933	13,600	25 June	13,800
$8\ KH_6$	Quesnel River near Quesnel	3,900	1939-					23 June 1943	26,400	31 May, 1 June	38,500
$8KH_1$	Quesnel River (South Fork) at Likely		1924-	3 June 1936	7.20	9 June	8.60				
$8MA_1$	Chilko River near Redstone	3,230	1927-					2 July 1928	14,000	19 & 20 June	15,400
$8ME_1$	Bridge River @ Mission Bridge	1,350	1913-					11 June 1918	26,000	9 June	31,800
$8LF_{23}$	Thompson River @ Kamloops		1911-	30 May 1928	19.20	1 June	20.22				
$8LF_{46}$	Kamloops Lake @ Savona		1947-			2 June	25.92				
$8LF_{22}$	Thompson River @ Spences Bridge	21,500	1911-23 1934-					30 May 1928	134,000	3 June	146,000
$8LB_{22}$	North Thompson River near Barriere	6,350	1915-					3 June 1936	82,500	30 May	93,200

Stn. No.	Location	Drainage Area Sq.Mi.	Period of Record	Max. Recorded Stage Prior to 1948		Max. Recorded Stage May-June 1948		Max. Recorded Discharge Prior to 1948		Max. Recorded Discharge May-June 1948	
				Date	Stage in ft.	Date	Stage in ft.	Date	Cubic ft/sec	Date	Cubic ft/sec
8LE$_{31}$	South Thompson River @ Chase	6,060	1911-					15 June 1913	48,300	12 June	56,700
8LC$_{3}$	Shuswap River near Lumby	650	1913-14 1917-					28 May 1928	19,500	30 May	14,000
8LE$_{47}$	Shuswap Lake @ Scotch Creek near Sorrento		1923-	21 May 1928	13.95	11,12 June	16.02				
8LD$_{1}$	Adams River near Squilax	1,600	1912-					20 June 1913	13,800	1 & 2 June	12,700
8MG$_{5}$	Lillooet River near Pemberton	800	1913-18 1923-					19 Oct. 1940	58,000	9 June	22,000
8MH$_{16}$	Chilliwack River at Chilliwack Lake near Vedder Crossing		1923-					27 Jan. 1935	3,260	11 June	3,450
8NA$_{2}$	Columbia River at Nicholson	2,490	1903-					25 June 1916	23,700	11 June	19,400
8ND$_{2}$	Columbia River at Revelstoke	9,000	1911-22 1928-					18 July	171,000	9 June	178,000
8NE$_{45}$	Upper Arrow Lake @ Nakusp		1922-	29 May 1928	29.15	11 June	35.39				
8NE$_{46}$	Lower Arrow Lake @ Needles		1930-	4 June 1936	28.40	11 June	34.76				
8NE$_{49}$	Columbia River @ Birchbank	34,000	1913-					14 & 15 June/13	312,000	11 June	369,000

Stn. No.	Location	Drainage Area Sq.Mi.	Period of Record	Max. Recorded Stage Prior to 1948		Max. Recorded Stage May-June 1948		Max. Recorded Discharge Prior to 1948		Max. Recorded Discharge May-June 1948	
				Date	Stage in ft.	Date	Stage in ft.	Date	Cubic ft/sec	Date	Cubic ft/sec
$8NE_3$	Columbia River at Trail		1913-	14 & 15 June/13	41.60	11 June	46.17				
$8NF_2$	Kootenay River @ Canal Flats	2,040	1939-					29 May 1946	22,800	24 May	29,700
$8NG_5$	Kootenay River @ Wardner	5,200	1914-					21 June 1916	67,500	28 & 29 May	63,700
$8NG_{42}$	Kootenay River @ Newgate	7,660	1930-					18 June 1933	80,000	28 May	91,500
$8NH_{28}$	Kootenay River @ Creston Ferry		1925-	21 June 1933	1762.35	12 June	1763.34				
$8NH_{64}$	Kootenay Lake @ Queens Bay		1931-	22 June 1933	1760.96	11 June	1760.77				
$8NJ_9$	Kootenay River @ Nelson		1913-	28 June 1916	1760.39	10 June	1756.94				
$8NG_{12}$	St. Mary River @ Wycliffe	1,100	1914-22 1946					19 June 1916	37,900	28 May	16,900
$8NG_2$	Bull River near Bull River	610	1914-22 1927-					23 May 1919	10,700	23 May	12,200
$8NK_{12}$	Elk River at Stanley Park	1,600	1914-23 1928-					20 June 1916	22,600	25 May	21,200
$8NH_{66}$	Lardeau River @ Gerrard	320	1934-					30 May 1934	4,920	11 June	5,830
$8NH_1$	Duncan River near Howser	770	1914-19 1934-					15 June 1918	18,600	10 June	17,700

Stn. No.	Location	Drainage Area Sq.Mi.	Period of Record	Max. Recorded Stage Prior to 1948		Max. Recorded Stage May-June 1948		Max. Recorded Discharge Prior to 1948		Max. Recorded Discharge May-June 1948	
				Date	Stage in ft.	Date	Stage in ft.	Date	Cubic ft/sec	Date	Cubic ft/sec
$8NJ_{13}$	Slocan River near Crescent	1,270	1913-15 1925-					27 May 1928	24,000	10 June	24,100
$8NM_{71}$	Okanagan Lake @ Penticton		1928-	8 June 1928	1125.21	24,25, 26 June	1125.58				
$8NM_{50}$	Okanagan River @ Penticton	2,340	1921-					2 June 1928	2,540	3,4,9 July	1,350
$8NL_{7}$	Similkameen River @ Princeton	690	1939-					18 June 1916	11,300	23 May	13,200
$8NL_{8}$	Tulameen River @ Coalmont	400	1914-18 1947-					16 June 1916	7,850	27 May	9,430
$8EF_{1}$	Skeena River at Usk	15,000	1928-31 1936-					1 June 1936	250,000	26 May	330,000
$8EE_{5}$	Bulkley River @ Smithers	3,450	1946-					31 May 1947	25,200	29 May	41,900
$8EG_{6}$	Kitsumgallum River near Terrace	1,090	1929-					3 June 1936	31,200	30 May	23,200
$7FD_{2}$	Peace River near Taylor	38,300	1944-					29 May 1946	237,000	31 May	407,000

$8KE_1$ Fraser River at Prince George

On railway - highway bridge

Wire-weight gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	16.17	34.21	23.43	16	26.26	28.75
2	17.27	35.71	23.37	17	26.21	28.78
3	18.77		22.97	18	26.30	28.35
4	18.57		22.82	19	26.66	27.81
5	19.37	31.60	22.37	20	26.36	27.12
6	20.17	30.81	22.51	21		26.60
7	21.07	30.93	22.47	22	26.88	26.31
8	22.77	31.47	22.43	23	28.50	26.12
9	22.47	31.81	22.41	24	30.60	25.87
10	22.77	31.75	22.40	25	31.25	25.43
11	23.52	30.38	22.37	26	32.75	25.01
12	23.50	29.15	22.41	27	33.65	24.67
13	24.85	28.61	22.81	28	34.16	24.51
14	25.23	27.34	23.01	29	34.56	24.27
15	26.12	28.15	22.73	30	34.74	23.81
				31	34.51	

Add 1831.96 feet to obtain elevation above mean sea level. (G.S.C. 1928 datum).

$8KE_2$ Fraser River at Quesnel

On highway bridge

Wire-weight gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	8.15	24.30	14.10	16	17.00	18.50
2	8.15	23.90	13.90	17	17.20	18.55
3	9.00	23.10	13.65	18	17.00	18.50
4	9.90	22.10	13.50	19	17.30	18.10
5	10.65	21.20	13.25	20	17.30	17.50
6	11.00	20.70	13.50	21	17.15	17.20
7	12.15	20.76	14.00	22	17.55	17.00
8	13.40	20.85	14.65	23	18.65	16.80
9	13.60	21.15	14.50	24	20.20	16.60
10	13.95	21.50	14.15	25	21.30	16.20
11	14.60	21.00	13.70	26	22.30	15.75
12	15.10	20.00	13.50	27	23.30	15.15
13	15.75	19.15	13.50	28	24.00	14.85
14	15.45	18.40	13.80	29	24.35	14.80
15	16.50	18.20	14.00	30	24.50	14.55
				31	24.50	

Add 1523.70 feet to obtain elevation above mean sea level. (G.S.C. 1928 datum).

$8MD_{13}$ Fraser River near Jesmond

At Big Bar Ferry - 17 miles from Jesmond.
Staff and slope gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	46,200	286,000	128,000	16	146,000	183,000
2	46,200	280,000	123,000	17	149,000	185,000
3	50,200	271,000	117,000	18	153,000	189,000
4	59,800	249,000	116,000	19	152,000	190,000
5	62,900	233,000	109,000	20	154,000	178,000
6	69,700	227,000	118,000	21	154,000	177,000
7	78,700	224,000	110,000	22	158,000	173,000
8	88,600	224,000	118,000	23	166,000	169,000
9	107,000	227,000	128,000	24	189,000	163,000
10	107,000	235,000	124,000	25	212,000	157,000
11	109,000	233,000	119,000	26	230,000	151,000
12	122,000	224,000	114,000	27	241,000	141,000
13	127,000	205,000	112,000	28	263,000	146,000
14	134,000	191,000	113,000	29	278,000	133,000
15	144,000	181,000	116,000	30	288,000	131,000
				31	289,000	

$8MF_{17}$ Fraser River at Lillooet

On Highway bridge 1½ miles from Lillooet.
Wire-weight gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	11.04	34.95		16		27.50
2	11.44	34.10		17	23.40	27.80
3	11.84	33.65		18	23.60	28.20
4	11.59	32.95		19	23.50	27.70
5	14.40	31.60	20.50	20	23.70	27.20
6	15.30	31.10	19.90	21	24.10	27.00
7	16.60	30.35	19.50	22		26.60
8		30.70	19.50	23		26.25
9		31.00	21.00	24	27.40	25.70
10	18.90	31.10	21.10	25	28.30	24.90
11	19.40	31.00	20.00	26	29.60	24.80
12	20.20	30.50	19.50	27	31.50	23.80
13	20.80	29.00	19.50	28	33.20	23.20
14	21.40	28.10	19.50	29	33.70	22.80
15	22.20	27.50		30		22.60
				31	35.45	

$8MF_{28}$ Fraser River at Cathmar (above Hell's Gate)
6 miles south of Boston Bar.

Staff gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	24.0	108.0	63.0	16	55.0	83.0
2	23.0	107.0	60.0	17	58.0	83.0
3	24.0	106.0	58.0	18	60.0	83.0
4	27.0	104.0		19	60.0	
5	29.0	97.0	51.0	20	61.0	82.0
6	30.0	95.0	52.0	21	63.6	80.0
7	33.6	94.0		22	68.0	79.0
8	36.0	95.0	51.0	23	68.0	77.0
9	40.0	95.0	54.0	24	72.0	75.0
10	43.0	95.0	55.0	25	79.0	74.0
11	46.0	95.0	53.0	26	85.0	71.0
12	49.0		52.0	27	90.0	69.0
13	50.0	91.0	50.0	28	97.0	67.0
14	52.0		50.0	29	102.0	65.0
15	54.0	84.0	50.0	30	107.0	64.0
				31	108.0	

$8MF_{5}$ Fraser River at Hope

On Kettle Valley Railway bridge

Wire-weight gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	67,700	524,000	240,000	16	202,000	345,000
2	70,200	512,000	232,000	17	210,000	329,000
3	72,400	503,000	217,000	18	218,000	349,000
4	79,800	492,000	207,000	19	218,000	355,000
5	88,800	467,000	202,000	20	228,000	344,000
6	95,800	444,000	193,000	21	244,000	336,000
7	108,000	429,000	184,000	22	258,000	333,000
8	118,000	455,000	184,000	23	275,000	320,000
9	135,000	440,000	189,000	24	303,000	308,000
10	147,000	423,000	200,000	25	349,000	297,000
11	150,000	436,000	185,000	26	401,000	290,000
12	159,000	442,000	186,000	27	424,000	275,000
13	171,000	410,000	179,000	28	477,000	265,000
14	179,000	384,000	175,000	29	492,000	256,000
15	187,000	367,000	176,000	30	509,000	248,000
				31	536,000	

$8MH_{30}$ Harrison River at Harrison Mills

On railway bridge,

Staff gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	7.34	24.75	17.10	16	14.45	21.60
2	7.35	24.60	16.72	17	14.90	21.37
3	7.44	24.48	16.25	18	15.22	21.23
4	7.90	24.26	15.82	19	15.40	21.13
5	8.21	24.07	15.40	20	15.82	20.94
6	8.83	23.65	15.14	21	16.16	20.76
7	9.65	23.60	14.88	22	16.65	20.42
8	10.07	23.78	14.62	23	17.08	20.00
9	10.85	23.89	14.75	24	17.80	19.67
10	11.74	24.00	14.90	25	18.92	19.28
11	12.20	23.80	14.81	26	20.00	18.75
12	12.85	23.69	14.52	27	21.12	18.27
13	13.21	23.45	14.20	28	22.42	17.09
14	13.68	22.73	13.98	29	23.40	17.62
15	14.03	22.00	13.96	30	24.19	17.40
				31	24.50	

Add 16.15 feet to obtain elevation above mean sea level. (G.S.C. 1928 datum).

$8MH_{23}$ Fraser River at Chilliwack

At Minto Landing.

Staff gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	6.97	22.88	15.32	16	13.68	20.09
2		22.76	14.81	17	14.02	19.94
3		22.63	14.52	18	14.32	19.79
4		22.43	14.02	19	14.42	19.79
5		22.28	13.72	20	14.82	19.49
6		21.88	13.52	21	15.32	19.29
7		21.88	13.32	22	15.77	19.09
8	9.36	21.03	13.07	23	16.29	18.74
9		22.23	13.12	24	16.91	18.39
10		22.26	13.42	25	18.04	17.89
11	10.97	22.18		26	19.19	17.49
12		22.08	13.07	27	20.21	16.99
13		21.69	13.77	28	21.24	16.49
14	12.92	21.19		29	22.08	15.99
15	13.22	20.59	13.57	30	22.60	
				31	22.88	

Add 14.77 feet to obtain elevation above mean sea level (G.S.C. 1928 datum).

$8MH_{24}$ Fraser River at Mission

Immediately downstream from railway-highway bridge.
Water stage recorder

Daily Minimum and Maximum Stage in Feet

	MAY		JUNE		JULY	
	Min.	Max.	Min.	Max.	Min.	Max.
1	3.25	5.65	24.20	24.45	17.18	17.70
2	3.30	5.60	24.05	24.22	16.49	17.18
3	3.40	5.85	23.40	24.30	15.70	16.49
4	4.12	5.95	23.99	24.26	15.07	15.70
5	4.40	6.02	24.19	24.35	14.58	15.07
6	5.31	6.77	24.00	24.21	14.10	14.58
7	6.46	7.40	24.02	24.20	13.68	14.10
8	7.00	7.94	24.10	24.35	13.22	13.70
9	7.63	8.62	24.30	24.59	13.25	13.48
10	8.55	9.38	24.50	24.73	13.50	13.74
11	9.08	9.80	24.50	24.69	13.34	13.75
12	9.75	10.53	24.39	24.60	12.88	13.40
13	10.53	11.16	24.00	24.41	12.33	12.93
14	11.16	11.63	23.47	24.00	11.93	12.36
15	11.52	11.94	23.10	23.47	11.86	11.97
16	11.87	12.57	22.70	23.01		
17	12.56	13.31	22.52	22.73		
18	13.31	13.77	22.32	22.52		
19	13.75	14.12	22.30	22.42		
20	14.05	14.72	22.05	22.30		
21	14.72	15.60	21.87	22.06		
22	15.60	16.40	21.48	21.87		
23	16.40	16.90	21.02	21.48		
24	16.90	18.10	20.58	21.02		
25	18.17	19.45	20.15	20.58		
26	19.50	21.00	19.67	20.20		
27	21.00	22.05	18.99	19.67		
28	22.05	23.05	18.50	18.99		
29	23.05	23.73	18.01	18.50		
30	23.70	24.08	17.70	18.01		
31	24.00	24.32				

Add 0.25 feet to obtain elevation above mean sea level (G.S.C. 1928 datum)

8MH25 Fraser River at New Westminster

On Dominion Public Works wharf,

Water stage recorder

Daily minimum and maximum stage in feet

	MAY		JUNE		JULY	
	Min.	Max.	Min.	Max.	Min.	Max.
1	7.18	12.82	17.32	19.02	14.03	15.83
2	7.45	12.80	17.22	19.07	12.57	15.57
3	8.23	13.02	16.90	19.08	13.10	15.28
4	8.22	12.83	16.62	18.87	12.72	15.21
5	8.62	12.70	16.72	18.83	12.43	15.30
6	8.97	13.12	16.48	18.98	12.22	15.40
7	8.88	13.10	16.37	19.10	12.03	15.32
8	8.90	13.43	16.42	19.18	13.78	15.37
9	9.01	13.75	16.60	19.48	11.52	15.28
10	9.37	13.90	16.63	19.50	11.60	15.30
11	9.57	14.23	16.78	19.40	13.65	15.23
12	10.00	15.00	16.83	19.43	11.60	14.92
13	10.70	14.83	16.97	19.43	13.48	14.90
14	10.70	14.72	17.05	19.32	11.38	14.40
15	10.72	14.82	17.12	19.12	11.00	13.90
16	11.17	15.18	16.57	18.87		
17	11.50	15.17	16.23	18.60		
18	11.81	15.03	15.97	18.28		
19	12.00	14.68	15.97	18.15		
20	11.85	14.90	15.90	18.30		
21	12.18	14.87	15.82	18.17		
22	12.30	15.23	15.57	17.90		
23	12.50	15.63	15.33	17.68		
24	12.93	16.21	15.17	17.38		
25	13.63	16.80	15.12	17.18		
26	14.45	17.15	15.20	17.02		
27	15.32	17.95	14.92	16.88		
28	16.00	18.41	14.72	16.60		
29	16.62	18.60	14.60	16.28		
30	17.17	18.70	14.48	16.30		
31	17.38	19.05				

Subtract 8.54 feet to obtain elevation above mean sea level (G.S.C. 1928 datum)

$8MH_{32}$ Fraser River (North Arm) at Vancouver

On Fraser Avenue bridge

Water stage recorder

Daily minimum and maximum stage in feet

	MAY		JUNE		JULY	
	Min.	Max.	Min.	Max.	Min.	Max.
1	5.00	13.00	10.10	14.08	8.05	13.40
2	5.58	12.98	9.90	13.90	7.50	13.32
3	6.35	13.20	9.60	14.00	7.10	13.30
4	6.40	12.92	9.30	13.72	6.80	13.50
5	6.20	12.80	9.20	13.65	6.65	13.92
6	5.95	13.12	9.10	14.05	6.55	14.35
7	5.55	13.05	9.10	14.65	6.45	14.55
8	5.00	13.20	9.15	15.00	6.30	14.60
9	4.88	13.45	9.20	15.40	6.15	14.70
10	4.98	13.60	9.25	15.38	6.30	14.68
11	5.00	13.95	9.30	15.25	6.55	14.65
12	5.30	14.76	9.40	15.40	6.80	14.35
13	5.70	14.50	9.50	15.20	7.35	14.00
14	5.65	14.20	9.70	15.22	6.58	13.75
15	5.80	14.70	10.00	15.10	6.10	13.15
16	6.25	14.82	9.45	14.90		
17	6.68	14.70	9.08	14.45		
18	7.25	14.30	8.80	14.02		
19	6.95	13.70	8.70	14.30		
20	6.40	13.60	8.70	14.78		
21	6.50	13.62	8.65	14.58		
22	6.55	13.75	8.50	14.50		
23	6.62	14.20	8.40	14.45		
24	6.85	14.55	8.30	14.22		
25	7.32	14.65	8.28	14.00		
26	7.75	14.80	8.35	13.90		
27	8.35	14.68	8.30	13.70		
28	8.82	14.60	8.35	13.60		
29	9.20	14.50	8.70	14.10		
30	9.65	14.45	8.75	14.10		
31	9.88	14.40				

Subtract 8.54 feet to obtain elevation above mean sea level (G.S.C. 1928 datum)

$8MH_{28}$ Fraser River at Steveston

On Dominion Public Works Wharf one mile east of Steveston.

Water stage recorder

Daily minimum and maximum stage in feet

	MAY		JUNE		JULY	
	Min.	Max.	Min.	Max.	Min.	Max.
1	4.94	12.92	9.35	13.70	7.29	13.18
2	3.71	12.92	8.75	13.50	6.65	13.18
3	6.40	13.19	8.19	13.60	5.94	13.18
4	6.50	12.84	7.39	13.30	5.60	13.34
5	6.20	12.70	6.90	13.30	5.17	13.70
6	5.70	13.00	6.60	13.55	4.80	14.09
7	4.98	13.00	6.40	14.10	4.49	14.30
8	4.28	13.15	6.18	14.42	4.30	14.46
9	3.99	13.40	6.20	14.90	4.35	14.54
10	3.80	13.55	6.18	14.82	4.80	14.58
11	3.78	13.90	6.15	13.68	5.61	14.53
12	4.21	14.62	6.41	14.89	6.39	14.20
13	4.80	14.40	6.92	14.70	6.97	13.63
14	4.83	14.05	8.02	14.70	6.00	13.08
15	5.20	14.72	8.72	14.65	5.45	13.08
16	5.80	14.72	7.68	14.50		
17	6.26	14.55	6.80	14.10		
18	6.95	14.11	6.25	13.62		
19	6.32	13.55	6.00	13.78		
20	5.67	13.48	6.00	14.38		
21	5.40	13.40	5.80	14.10		
22	5.00	13.50	5.57	14.02		
23	4.98	13.98	5.60	14.00		
24	5.10	14.30	5.68	13.97		
25	5.45	14.40	5.93	13.64		
26	5.95	14.60	6.49	13.59		
27	6.50	14.40	6.91	13.40		
28	6.99	14.20	7.50	13.19		
29	7.52	14.02	8.30	13.75		
30	8.24	13.98	8.21	13.75		
31	8.98	13.70				

Subtract 8.54 feet to obtain elevation above mean sea level (G.S.C. 1928 datum).

$8JA_1$ Nechako River at Fort Fraser

One mile above outlet of Fraser Lake.

Chain gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	3,140	27,400	21,700	16	12,600e	27,000
2	3,440	28,200	21,000	17	13,900	26,800
3	3,740	28,900	20,200	18	15,100	26,600
4	3,940	29,300	19,700	19	16,100	26,400
5	4,280	29,400	19,500	20	16,700	26,200
6	4,700	29,500	18,700	21	17,300	25,900
7	5,050	29,400	18,300	22	18,000e	25,700
8	5,530	29,300	18,100	23	18,700	25,400
9	5,880	28,900	17,900	24	19,400	25,000
10	6,180	28,600	17,700	25	20,200	24,800
11	6,840	28,200	17,300	26	21,300	24,300
12	7,550	27,900	17,200	27	22,200	23,700
13	8,710	27,600	17,200	28	23,300	23,200
14	10,100	27,400	18,300	29	24,100	22,800
15	11,400	27,200	18,200	30	25,300	22,300
				31	26,200	

"e" - Estimated

$8JE_1$ Stuart River near Fort St. James

On highway bridge 3 miles east of Fort St. James.

Chain gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	1,360e	6,860e	13,100e	16	2,790e	12,400
2	1,420e	7,360	12,900	17	2,900	12,600e
3	1,480	7,740e	12,800e	18	3,060e	12,900
4	1,540e	8,130	12,800e	19	3,220	13,100e
5	1,600	8,610e	12,700	20	3,370e	13,400e
6	1,680e	9,100e	12,600e	21	3,520	13,600
7	1,760	9,580	12,400	22	3,760e	13,500e
8	1,850e	10,000e	12,300e	23	4,000e	13,400
9	1,940e	10,500	12,200	24	4,240	13,600e
10	2,030	10,800e	12,000e	25	4,460e	13,800
11	2,150e	11,100	11,800e	26	4,680	13,700e
12	2,270	11,400e	11,700	27	4,970e	13,700e
13	2,420e	11,600e	11,600e	28	5,260	13,600
14	2,570	11,900	11,400	29	5,630e	13,400e
15	2,680e	12,200e	11,300	30	5,990e	13,300
				31	6,360	

"e" - Estimated

$8KH_6$ Quesnel River near Quesnel

At Gravelle Ferry - 17 miles upstream from Quesnel.
Chain gauge.

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	4,740	38,500	19,600	16	13,400	31,300
2	5,000	38,000	18,800	17	14,400	30,800
3	5,400	37,500	17,700	18	15,300	30,700
4	5,980	36,800	17,100	19	15,300	30,000
5	6,520	36,300	16,700	20	15,500	29,500
6	7,640	36,500	18,000	21	17,000	28,200
7	8,400	35,400	19,100	22	19,500	27,300
8	9,030	36,700	18,600	23	22,600	26,800
9	9,780	37,000	18,100	24	25,700	26,300
10	10,400	36,200	17,600	25	29,700	24,700
11	11,400	34,800	17,200	26	31,500	23,600
12	12,300	33,400	17,300	27	33,500	23,000
13	12,800	33,200	17,200	28	35,500	22,100
14	13,100	32,000	17,100	29	37,500	21,100
15	13,300	31,700	16,800	30	38,000	20,400
				31	38,500	

$8KH_1$ Quesnel River (South Fork) near Likely

At outlet of Quesnel Lake

Staff gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	1.55	7.85	6.65	16	3.00	8.44
2	1.65	8.05	6.45	17	3.25	8.25
3	1.71	8.15	6.25	18	3.35	8.25
4	1.75	8.20	6.15	19	3.55	8.15
5	1.85	8.25	6.05	20	3.85	8.20
6	1.95	8.35	5.95	21	4.05	8.05
7	2.00	8.52	6.00	22	4.25	7.95
8	2.10	8.55	5.85	23	4.65	7.75
9	2.25	8.60	5.85	24	4.95	7.65
10	2.35	8.55	5.90	25	5.35	7.45
11	2.45	8.55	5.75	26	5.65	7.35
12	2.55	8.53	5.65	27	6.25	7.25
13	2.75	8.45	5.55	28	6.85	7.15
14	2.84	8.35	5.60	29	6.94	6.95
15	2.85	8.40	5.45	30	7.45	6.84
				31	7.65	

8MA$_1$ Chilko River near Redstone

5 miles above junction of Chilko and Chilcotin Rivers
Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	688e	14,000	12,300	16	1,620	14,000
2	702e	13,300	11,800	17	1,840	14,500
3	715e	12,600	10,900	18	2,050	15,100
4	728e	12,200	10,200	19	2,080	15,400
5	742e	12,000	9,830	20	2,140	15,400
6	755e	12,000	9,800	21	2,380	14,800
7	768	12,700	9,660	22	2,750	14,900
8	780	13,800	9,110	23	3,700	15,300
9	840	14,400	8,730	24	4,380	14,700
10	816	14,700	8,420	25	5,220	13,900
11	996	14,400	8,120	26	6,400	13,300
12	1,130	13,800	8,090	27	8,150	12,700
13	1,250	13,400	8,210	28	10,400	12,600
14	1,360	13,300	7,800	29	12,700	12,700
15	1,500	13,800	7,720	30	13,900	12,700
				31	14,300	

"e" Estimated

8ME$_1$ Bridge River near Bridge River (Mission Bridge)

¼ mile downstream from main highway bridge.
Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	878	22,500	15,300	16	1,920	20,800e
2	872	18,800	12,500	17	2,400	21,200
3	890	17,500	11,200	18	2,730	21,800
4	918	17,600	10,800	19	2,730	21,600
5	939	18,700	11,100	20	2,980	21,200
6	1,000	19,600	10,800	21	3,570	20,900
7	1,230	22,500	10,200	22	4,750	19,700
8	1,320	27,200e	9,530	23	6,800	18,200
9	1,340	31,800	8,960	24	8,360	16,600
10	1,530	27,600e	8,800	25	9,830	15,100
11	1,840	23,500e	8,840	26	11,700	15,000
12	1,960	19,300	8,840	27	14,200	15,000
13	1,990	19,700e	8,430	28	18,900	16,000
14	1,930	20,100e	8,320	29	24,500	16,800
15	1,880	20,400e	8,730	30	27,400	16,800
				31	26,200	

"e" Estimated

$8LF_{23}$ Thompson River at Kamloops

On highway bridge below confluence of North and South Thompson Rivers.
Staff gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	3.55	20.22	11.70	16	7.90	17.00
2	3.80	20.15	11.35	17	8.00	16.95
3	3.75	19.83	10.90	18	8.20	16.92
4	3.75	19.40	10.35	19	8.90	16.62
5	3.80	19.05	9.75	20	9.35	16.25
6	4.00	18.90	9.50	21	9.70	15.90
7	4.30	18.95	9.40	22	10.70	15.60
8	4.70	19.10	9.90	23	12.00	15.35
9	5.00	19.37	10.05	24	13.05	14.95
10	5.30	19.67	9.65	25	14.20	14.42
11	5.70	19.78	9.30	26	15.20	13.78
12	6.30	19.30	9.00	27	16.05	13.20
13	6.80	18.37	8.90	28	17.00	12.70
14	7.30	17.62	8.90	29	17.95	12.30
15	7.75	17.20	8.75	30	19.12	11.98
				31	19.87	

Add 1112.65 feet to obtain elevation above mean sea level (G.S.C. 1928 datum)

$8LF_{46}$ Kamloops Lake at Savona

Near outlet of Kamloops Lake.

Staff gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	5.00	25.50	15.92	16	11.22	22.55
2	5.45	25.92	15.52	17	11.80	22.52
3	5.80	25.17	15.10	18	12.05	22.40
4	6.03	24.83	14.43	19	12.94	22.32
5	6.32	24.42	13.85	20	13.40	21.50
6	6.48	24.17	13.71	21	14.30	21.20
7	6.66	23.90	13.64	22	15.00	20.70
8	7.00	24.17	13.55	23	16.45	20.60
9	7.42	24.42	13.47	24	17.50	20.65
10	7.94	24.50	13.45	25	19.75	20.72
11	8.45	24.17	13.41	26	20.80	19.02
12	9.12	24.33	13.05	27	21.10	18.42
13	9.95	24.92	12.54	28	23.02	17.63
14	10.20	23.30	12.50	29	23.90	16.05
15	11.40	23.10	12.47	30	24.75	16.55
				31		

$8LF_{22}$ Thompson River at Spences Bridge

On highway bridge at Spences bridge.

Staff gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	19,400	140,000	77,600	16	55,100	120,000e
2	20,200	142,000	75,400	17	56,500	116,000
3	21,500	146,000	71,000	18	57,900	114,000
4	22,800	144,000	68,100	19	60,800	113,000
5	24,200	134,000	65,200	20	65,200	111,000
6	23,700	132,000	63,000	21	71,000	108,000
7	26,700	132,000	60,100	22	77,600	105,000
8	27,800	132,000	61,500	23	82,700	103,000
9	30,000	132,000	62,200	24	92,300	100,000
10	33,600	133,000	60,800	25	101,000	96,800
11	36,600	135,000	60,100	26	108,000	93,000
12	41,200	136,000	59,400	27	116,000	85,600
13	45,400	132,000	58,600	28	124,000	84,100
14	48,800	128,000e	57,900	29	128,000	82,700
15	52,300	124,000e	56,500	30	130,000	80,500
				31	134,000	

$8LB_{22}$ North Thompson River near Barriere

On highway bridge 1½ miles above Barriere.
Staff gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	15,200	87,000	30,200	16	28,600	57,600
2	14,400	81,200	28,400	17	30,400	57,600
3	13,500	75,200	25,700	18	33,600	54,600
4	12,900	72,000	25,300	19	36,100	51,600
5	13,500	70,900	23,900	20	36,900	50,700
6	15,000	72,000	23,500	21	41,700	48,800
7	16,200	73,100	26,400	22	49,000	48,800
8	16,800	75,200	28,200	23	56,100	47,800
9	18,400	78,400	29,000	24	61,700	46,900
10	19,600	76,700	30,200	25	69,300	41,200
11	23,200	73,600	29,800	26	72,000	36,500
12	25,000	65,000	29,400	27	76,400	35,200
13	26,800	55,600	26,400	28	81,500	34,000
14	28,600	54,100	26,000	29	87,300	33,100
15	29,200	55,600	25,000	30	93,200	31,900
				31	92,000	

$8LE_{31}$ South Thompson River at Chase

At outlet of Little Shuswap Lake

Staff gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	6,510	45,300	36,000	16	15,400	53,600
2	7,000	47,000	34,700	17	16,000	53,000
3	7,420	48,200	32,900	18	16,600	52,100
4	7,930	49,500	32,000	19	17,600	51,700
5	8,420	50,500	30,000	20	18,400	50,800
6	8,900	51,300	29,100	21	19,700	49,700
7	9,440	52,200	27,700	22	21,000	48,800
8	9,940	53,500	27,000	23	23,000	48,100
9	10,500	54,900	26,200	24	24,200	46,500
10	11,200	55,900	25,200	25	27,000	44,800
11	11,800	56,600	24,400	26	29,800	43,400
12	12,600	56,700	23,400	27	31,600	42,200
13	13,300	56,400	22,900	28	34,200	40,800
14	14,100	55,800	21,900	29	36,600	39,400
15	14,800	54,600	20,800	30	36,900	37,000
				31	43,200	

$8LC_{3}$ Shuswap River near Lumby

Ten miles east of Lumby

Chain gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	2,270	11,300	1,780	16	3,100	6,760
2	2,230	10,800	1,760	17	3,640	6,270
3	2,180	10,600	1,740	18	3,930	5,760
4	2,180	10,600	1,740	19	3,930	5,300
5	2,180	10,600	1,760	20	4,360	5,270e
6	2,230	10,500	1,530	21	5,390	5,240
7	2,430	11,000	1,420	22	5,900	5,240
8	2,440	12,300	1,470	23	6,280	5,140
9	2,480	12,800	1,920	24	6,070	5,020
10	2,500	13,800	1,970	25	7,380	4,910
11	2,600	12,600	1,990	26	7,820	1,890
12	2,780	9,360	2,060	27	8,840	1,840
13	2,920	8,300	2,050	28	10,500	1,730
14	3,050	7,400	2,070	29	13,600	1,780
15	3,050	6,850	2,010	30	14,000	1,810
				31	12,700	

"e" Estimated

$8LE_{47}$ Shuswap Lake near Sorrento

On Scotch Creek wharf, opposite Sorrento.

Staff gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	2.85	13.58	11.79	16	6.20	15.64
2	3.09	13.92	11.46	17	6.40	15.52
3	3.29	14.26	11.14	18	6.65	15.34
4	3.49	14.50	10.73	19	6.95	15.14
5	3.68	14.75	10.40	20	7.20	14.90
6	3.85	14.96	10.10	21	7.55	14.72
7	4.05	15.18	9.82	22	8.08	14.52
8	4.25	15.45	9.60	23	8.55	14.32
9	4.47	15.65	9.35	24	9.08	14.02
10	4.66	15.88	9.08	25	9.68	13.78
11	4.96	16.02	8.85	26	10.18	13.49
12	5.21	16.02	8.61	27	10.72	13.15
13	5.48	15.94	8.41	28	11.38	12.84
14	5.75	15.88	8.22	29	12.08	12.42
15	5.99	15.76	8.06	30	12.68	12.14
				31	13.20	

Add 1131.31 feet to obtain elevation above mean sea level (G.S.C. 1928 datum)

$8LD_{1}$ Adams River near Squilax

At outlet of Adams Lake.

Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	1,610e	12,700	6,860	16	4,080	10,500
2	1,730e	12,700	6,670	17	4,260	10,300
3	1,860e	12,600	6,460	18	4,500	10,100
4	1,970	12,400	6,140	19	4,880	9,820
5	2,070	12,300	5,890	20	5,110	9,570
6	2,190	12,300	5,620	21	5,490	9,440
7	2,290	12,300	5,430	22	6,040	9,190
8	2,420	12,300	5,310	23	6,670	9,060
9	2,550	12,500	5,210	24	7,550	8,880
10	2,670	12,600	5,110	25	8,350	8,520
11	2,820	12,400	4,950	26	9,150	8,220
12	3,000	12,000	4,840	27	9,860	7,930
13	3,350	11,700	4,800	28	10,600	7,640
14	3,640	11,200	4,740	29	11,500	7,400
15	3,930	10,800	4,700	30	12,200	7,130
				31	12,600	

"e" Estimated

8MG5 Lillooet River near Pemberton

On highway bridge 2 miles north of Pemberton.
Chain gauge.

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	1,600e	14,600	13,800e	16	3,290e	15,600
2	1,590e	15,000e	11,300e	17	3,700e	16,100
3	1,570	15,300	8,900	18	4,120e	18,400
4	1,850e	16,000e	9,450e	19	4,530e	18,800
5	2,120e	16,700	10,000	20	4,940	18,800e
6	2,400e	17,400	9,140	21	6,030	18,800
7	2,680	20,300	8,780e	22	8,990	15,300
8	2,660e	21,700	8,420e	23	8,630	16,000
9	2,650	22,000	8,060	24	11,500	14,500e
10	3,000	20,400e	8,720e	25	13,200	13,000
11	3,080e	18,800	9,390	26	15,300	12,600
12	3,150	17,000e	8,460	27	18,100	14,800
13	3,210e	15,200e	8,480e	28	19,100	16,200
14	3,270	13,400	8,510	29	20,000	17,000
15	2,880	16,200	9,720	30	19,600	16,300
				31	17,100e	

"e" Estimated

8MH16 Chilliwack River near Vedder Crossing (Chilliwack Lake)

At outlet of Chilliwack Lake

Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	554	2,660	1,700	16	838	2,460
2	526	2,580	1,590	17	868	2,340
3	522	2,580	1,480	18	915	2,210
4	522	2,540	1,400	19	936	2,120
5	522	2,580	1,340	20	999	2,050
6	568	2,700	1,260	21	1,200	2,050
7	627	2,970	1,220	22	1,440	2,020
8	673	3,250	1,190	23	1,700e	1,930
9	698	3,410	1,110	24	1,950e	1,860
10	718e	3,410	1,070	25	2,200e	1,790
11	738e	3,450	1,050	26	2,460	1,710
12	758e	3,260	1,010	27	2,670e	1,630
13	778e	2,990	978	28	2,880e	1,630
14	798e	2,770	957	29	3,100	1,680
15	818	2,600	954	30	2,930	1,720
				31	2,750	

"e" Estimated

8NA$_2$ Columbia River at Nicholson

On road bridge 5 miles south of Golden

Staff gauge.

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	2,330	14,900	13,500	16	3,060	16,400
2	2,630	15,500	13,300	17	3,120	15,900
3	2,530	15,900	13,200	18	3,510	15,600
4	2,430	16,200	13,100	19	4,100	15,300
5	2,430	16,600	12,600	20	4,460	15,000
6	2,330	16,800	12,400	21	4,980	14,800
7	2,280	17,300	11,900	22	5,730	14,800
8	2,330	17,900	11,500	23	6,670	14,800
9	2,480	18,300	11,200	24	7,640	14,900
10	2,530	19,000	10,800	25	8,520	14,900
11	2,630	19,400	10,300	26	9,160	14,800
12	2,680	19,200	9,910	27	10,000	14,600
13	2,850	18,600	9,490	28	10,800	14,300
14	2,960	17,900	9,160	29	11,600	14,100
15	3,050	16,900	8,840	30	12,600	13,800
				31	13,900	

8ND$_2$ Columbia River at Revelstoke

On highway bridge 1 mile from Revelstoke

Wire weight gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	13,800	125,000	82,400	16	34,600	115,000
2	19,200	120,000	80,200	17	37,300	114,000
3	20,400	115,000	69,100	18	44,200	107,000
4	20,300	118,000	58,200	19	44,800	103,000
5	19,800	117,000	56,700	20	49,000	103,000
6	19,800	132,000	59,300	21	60,600	105,000
7	20,700	136,000	61,400	22	78,400	106,000
8	21,000	161,000	57,900	23	90,100	108,000
9	23,500	178,000	55,700	24	108,000	94,300
10	26,100	170,000	54,700	25	112,000	87,200
11	29,800	140,000	52,500	26	117,000	85,300
12	32,600	120,000	51,000	27	123,000	82,900
13	35,200	113,000	49,200	28	138,000	80,300
14	38,200	109,000	47,800	29	148,000	79,200
15	35,400	112,000	51,600	30	144,000	84,100
				31	133,000	

8NE45 Upper Arrow Lake at Nakusp

Dominion Public Works wharf.

Water stage recorder

Mean Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	6.65	30.18	25.26	16	12.43	32.90x
2	6.99	30.48	24.73	17	12.80	32.43x
3	7.31	30.72	23.98	18	13.38	31.93x
4	7.68	30.98	23.13	19	13.97	31.58x
5	7.97	31.39	22.34	20	14.60	31.03x
6	8.20	31.89	21.66	21	15.65	30.43x
7	8.47	32.50	21.18	22	17.12	30.03x
8	8.78	33.38	20.79	23	18.74	29.70
9	9.10	34.27x	20.34	24	20.54	29.20
10	9.45	35.28x	19.85	25	22.16	28.57
11	9.89	35.37x	19.39	26	23.45	27.80
12	10.41	35.11x	19.08	27	24.86	27.10
13	10.99	34.55x	18.88	28	26.30	26.44
14	11.62	33.68x	18.71	29	27.83	25.98
15	12.11	33.18x	18.57	30	29.06	25.62
				31	29.82	

"x" - staff gauge readings
Add 1374.00 feet to obtain elevation above mean sea level (G.S.C. 1930 datum)

8NE46 Lower Arrow Lake at Needles

On Dominion Public Works wharf.

Staff gauge

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	2.07	28.93	23.70	16	7.80	32.38
2	2.36	29.47	23.26	17	8.40	31.92
3	2.66	29.91	22.61	18	8.90	31.42
4	3.00	30.34	21.84	19	10.00	30.88
5	3.30	30.78	21.04	20	10.20	30.26
6	3.61	31.09	20.17	21	11.14	29.69
7	3.88	31.69	19.57	22	12.43	29.19
8	4.19	32.43	18.92	23	13.90	28.72
9	4.53	33.28	18.44	24	15.71	28.20
10	4.86	34.24	17.87	25	17.74	27.61
11	5.29	34.76	17.30	26	19.84	26.93
12	5.64	34.61	16.76	27	21.80	26.20
13	6.17	34.14	16.35	28	23.80	25.33
14	6.75	33.52	15.97	29	25.52	24.83
15	7.34	32.90	15.64	30	26.95	24.15
				31	28.09	

Note: Add 1370.99 feet to obtain elevation above mean sea level (G.S.C. 1931 datum)

$8NE_{49}$ Columbia River at Birchbank

6 miles upstream from Trail.

Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	57,000	303,000	238,000	16	89,300	344,000
2	58,900	310,000	231,000	17	93,100	338,000
3	60,300	317,000	224,000	18	97,500	331,000
4	62,500	323,000	215,000	19	102,000	324,000
5	64,000	328,000	206,000	20	109,000	317,000
6	65,200	334,000	198,000	21	120,000	310,000
7	67,000	339,000	190,000	22	131,000	303,000
8	68,600	346,000	183,000	23	146,000	296,000
9	70,300	355,000	177,000	24	164,000	289,000
10	72,200	365,000	170,000	25	185,000	283,000
11	74,300	369,000	163,000	26	204,000	275,000
12	77,000	368,000	157,000	27	227,000	266,000
13	80,500	363,000	153,000	28	249,000	258,000
14	83,200	356,000	148,000	29	268,000	250,000
15	86,000	349,000	143,000	30	282,000	244,000
				31	294,000	

$8NE_{3}$ Columbia River at Trail

On highway bridge connecting Trail and East Trail.
Wire-weight gauge.

Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	15.89	40.60	34.96	16	20.50	44.02
2	16.13	41.28	34.56	17	20.96	43.70
3	16.34	41.70	33.80	18	21.49	43.06
4	16.74	42.44	33.04	19	22.04	42.42
5	16.93	42.94	32.29	20	22.84	41.81
6	17.11	43.08	31.64	21	23.91	41.26
7	17.40	43.46	30.96	22	25.28	40.66
8	17.65	43.98	30.22	23	26.64	40.04
9	17.82	44.77	29.75	24	28.38	39.44
10	18.07	45.50	29.14	25	30.00	38.94
11	18.32	46.17	28.51	26	31.91	38.31
12	18.72	46.16	28.01	27	33.89	37.54
13	19.31	45.76	27.50	28	35.90	36.81
14	19.67	45.28	27.10	29	37.63	36.07
15	19.99	44.52	26.62	30	39.16	35.55
				31	39.62	

Add 1313.08 feet to obtain elevation above mean sea level (G.S.C. 1928 datum).

$8NF_2$ Kootenay River at Canal Flats

On main highway bridge about one mile south of Canal Flats.
Staff gauge and chain gauge for winter use

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	2,600	17,500	9,480	16	2,880	11,500
2	2,440	17,600	8,530	17	3,440	11,000
3	2,210	17,900	7,500	18	4,770	9,730
4	2,140	17,500	6,960	19	6,060	9,480
5	2,130	18,800	6,490	20	6,940	9,730
6	2,140	19,000	6,800	21	9,300	10,200
7	2,240	20,000	6,640	22	15,000	9,980
8	2,530	21,900	6,200	23	24,000	11,800
9	2,580	22,300	5,770	24	29,700	11,100
10	2,580	18,600	5,230	25	27,200	9,980
11	2,580	14,600	5,230	26	26,600	9,480
12	2,740	12,300	5,910	27	26,300	9,480
13	2,830	11,600	6,800	28	26,300	8,980
14	2,980	11,200	6,200	29	23,200	8,980
15	2,950	12,000	5,640	30	19,400	9,480
				31	17,300	

$8NG_5$ Kootenay River at Wardner

On the main highway bridge at Wardner.

Chain gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	9,120	48,400	21,800	16	9,450	34,400
2	8,910	47,400	20,900	17	10,000	34,400
3	8,350	41,000	18,300	18	12,700	30,200
4	7,840	49,600	16,500	19	16,200	27,400
5	7,420	51,900	15,000	20	21,000	24,100
6	7,290	52,800	14,800	21	24,700	21,100
7	7,290	52,800	14,800	22	34,400	21,500
8	7,950	53,200	14,200	23	49,200	21,400
9	8,210	54,600	13,400	24	53,300	21,500
10	8,410	54,100	12,400	25	58,400	22,100
11	8,290	55,000	11,700	26	62,700	20,600
12	8,350	50,600	11,700	27	63,300	23,000
13	8,940	39,400	12,200	28	63,700	21,900
14	9,860	39,200	12,800	29	63,700	21,800
15	9,790	34,000	11,800	30	60,500	21,800
				31	53,700	

8NG$_{42}$ Kootenay River at Newgate

One mile north of International Boundary at Newgate.

Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	17,600	67,600	30,100	16	16,700	42,600
2	17,300	65,000	29,500	17	17,500	41,900
3	15,700	64,000	27,300	18	20,900	40,900
4	14,700	64,100	24,600	19	27,800	37,700
5	13,800	65,400	22,700	20	36,100	35,800
6	13,100	65,400	21,400	21	40,800	35,700
7	13,000	65,000	21,000	22	51,200	35,700
8	13,700	65,200	20,200	23	69,100	35,900
9	14,500	65,900	18,900	24	80,500	36,400
10	15,000	66,200	17,500	25	85,400	36,300
11	14,600	65,100	16,300	26	88,100	35,200
12	14,300	61,400	15,700	27	90,700	33,500
13	15,100	52,300	15,800	28	91,500	32,000
14	16,900	46,400	16,500	29	88,600	30,900
15	17,100	44,200	16,000	30	83,100	30,200
				31	74,200	

8NH$_{28}$ Kootenay River at Creston Ferry

4 miles from Creston at Creston Ferry

Staff gauge

Daily stage in feet.

	MAY	JUNE	JULY		MAY	JUNE
1	7.83	22.54	16.52	16	10.04	22.42
2	8.34	23.25	16.15	17	10.31	22.05
3	8.24	23.27	15.71	18	10.86	21.72
4	8.03	23.34	15.20	19	11.91	21.35
5	7.82	23.37	14.83	20	13.56	20.95
6	7.76	23.45	14.33	21	15.59	20.43
7	7.73	23.51	13.87	22	16.81	20.04
8	8.21	23.48	13.42	23	18.03	19.62
9	8.81	23.40	12.96	24	19.02	19.25
10	9.13	23.52	12.54	25	19.75	18.96
11	9.11	23.55	12.04	26	20.00	18.44
12	9.03	23.59		27	21.35	18.09
13	9.27	23.46		28	21.95	17.71
14	9.84	23.22		29	21.73	17.31
15	10.05	22.83		30	22.25	16.91
				31	22.78	

Add 1739.75 feet to obtain elevations above mean sea level (G.S. of C. 1928 datum).

8NH$_{64}$ Kootenay Lake at Queens Bay

One-quarter mile toward Kaslo from Queens Bay wharf.
Water stage recorder

Mean Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	43.71	58.09	53.60	16	45.89	59.77
2	43.91	58.58	53.21	17	46.08	59.38
3	44.13	59.10	52.82	18	46.34	58.92
4	44.29	59.56	52.44	19	46.70	58.45
5	44.36	59.92	52.10	20	47.21	58.00
6	44.41	60.19	51.75	21	48.05	57.58
7	44.46	60.40	51.39	22	49.11	57.15
8	44.54	60.49	51.04	23	50.23	56.70
9	44.66	60.54	50.65	24	51.43	56.28
10	44.83	60.72	50.25	25	52.57	55.88
11	45.01	60.77	49.85	26	53.63	55.46
12	45.15	60.74	49.47	27	54.60	55.05
13	45.32	60.62	49.10	28	55.69	54.66
14	45.53	60.42	48.72	29	56.53	54.29
15	45.72	60.13	48.39	30	57.04	53.94
				31	57.60	

Note: Add 1700.00 to obtain elevation above mean sea level (G.S. of C. 1928 datum)

8NJ$_{9}$ Kootenay River at Nelson

On Dominion Public Works wharf at Nelson.
Water stage recorder

Mean Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	42.29	54.57	50.71	16	44.28	55.98
2	42.51	54.97	50.45	17	44.38	55.63
3	42.72	55.42	50.20	18	44.63	55.23
4	42.80	55.81	49.93	19	44.94	54.83
5	42.96	56.12	49.67	20	45.36	54.44
6	43.02	56.34	49.43	21	46.03	54.06
7	43.04	56.54	49.11	22	46.92	53.70
8	43.08	56.64	48.83	23	47.92	53.32
9	43.22	56.70	48.51	24	48.92	52.96
10	43.37	56.94	48.18	25	49.85	52.64
11	43.48	56.85	47.82	26	50.75	52.29
12	43.63	56.80	47.52	27	51.65	51.95
13	43.75	56.67	47.25	28	52.55	51.63
14	43.88	56.51	46.95	29	53.23	51.32
15	44.12	56.28	46.69	30	53.66	51.01
				31	54.10	

Note: Add 1700.00 feet to obtain elevation above mean sea level (G.S.C. 1928 datum)

$8NG_{12}$ St. Mary River near Wycliffe

480 feet downstream from highway bridge 10 miles north of Cranbrook.

Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	2,420	10,500	4,590	16	2,430	8,240
2	2,250	11,000	4,060	17	3,000	8,570
3	2,030	11,400	3,560	18	3,910	7,610
4	1,890	13,300	3,250	19	5,650	6,870
5	1,750	14,300	3,080	20	6,600	6,560
6	1,650	13,700	3,080	21	9,490	6,630
7	1,660	13,300	3,020	22	11,500	6,600
8	1,750	13,500	2,930	23	13,000	6,190
9	1,870	14,000	2,740	24	16,100	5,930
10	1,900	15,100	2,470	25	16,200	6,010
11	1,920	14,400	2,340	26	15,100	5,440
12	1,970	11,500	2,300	27	16,000	4,970
13	2,260	9,970	2,260	28	16,900	4,890
14	2,540	9,060	2,190	29	14,800	4,790
15	2,450	8,480	2,070	30	12,600	4,750
				31	10,200	

$8NG_{2}$ Bull River near Bull River

150 feet below East Kootenay Power Company's Aberfeldie Plant.

Staff gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	2,540	7,100	3,320	16	2,240	4,660
2	2,110	7,320	2,940	17	2,980	4,630
3	1,760	7,390	2,590	18	4,020	4,340
4	1,660	8,180	2,380	19	5,350	4,070
5	1,540	7,670	2,250	20	6,290	3,900
6	1,550	7,440	2,320	21	6,390	4,430
7	1,640	7,560	2,120	22	8,590	4,070
8	1,820	7,850	1,980	23	12,200	4,250
9	1,950	7,780	1,830	24	11,200	4,250
10	1,850	6,990	1,770	25	10,400	3,980
11	1,820	5,520	1,770	26	10,400	3,640
12	1,820	5,020	1,890	27	10,600	3,560
13	2,480	4,930	1,790	28	10,000	3,400
14	2,440	4,740	1,650	29	8,700	3,400
15	2,130	4,840	1,590	30	6,730	3,560
				31	6,730	

$8NK_{12}$ Elk River near Elko (Stanley Park)

On Elko-Fernie highway 3 miles east of Elko.
Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	4,910	13,200	5,030	16	3,830	7,980
2	4,310	13,600	4,740	17	4,540	8,040
3	3,960	13,500	4,640	18	6,130	7,740
4	3,790	13,600e	4,380	19	8,070e	7,110
5	3,510	13,600	3,990	20	10,000e	6,960
6	3,450	12,900	3,810	21	12,000e	6,930
7	3,630	12,800	3,680	22	13,900	6,830
8	4,070	13,000	3,700	23	16,300e	6,780
9	4,050	13,000	3,180	24	18,800e	6,780
10	3,790	12,500	2,930	25	21,200	6,680
11	3,390	10,700	2,700	26	20,100	6,580
12	3,170	9,480	2,630	27	20,100	6,320
13	3,570	8,520	2,570	28	19,500	6,040
14	3,810	8,090	2,570	29	17,000	5,750
15	3,710	8,040	2,590	30	13,900	5,390
				31	12,800	

"e" Estimated

$8NH_{66}$ Lardeau River at Gerrard

At outlet of Trout Lake

Staff gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	818	5,060	2,970	16	1,030	4,340
2	842	5,090	2,940	17	1,050	4,190
3	842	5,070	2,920	18	1,090	4,040
4	846	5,080	2,890	19	1,140	3,960
5	853	5,060	2,850	20	1,970	3,780
6	864	5,090	2,820	21	2,030	3,680
7	878	5,290	2,780	22	2,210	3,570
8	884	5,530	2,760	23	2,350	3,440
9	892	5,670	2,720	24	3,210	3,300
10	909	5,740	2,690	25	3,350	3,240
11	926	5,830	2,660	26	4,190	3,140
12	942	5,290	2,630	27	4,240	3,060
13	966	5,110	2,610	28	4,320	3,040
14	994	4,550	2,580	29	4,440	3,010
15	1,010	4,410	2,550	30	4,640	2,990
				31	4,880	

8NH1 Duncan River near Howser

At outlet of Duncan Lake.

Staff gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	2,250	14,100	9,110	16	3,880	11,100
2	2,280	13,700	9,190	17	3,960	11,000
3	2,290	13,600	9,130	18	4,780	10,600
4	2,260	13,800	8,230	19	5,180	10,200
5	2,220	14,100	6,840	20	5,850	10,100
6	2,200	14,600	6,750	21	7,540	10,100
7	2,220	15,200	6,480	22	8,690	10,500
8	2,320	16,100	6,280	23	9,780	10,400
9	2,410	17,300	5,610	24	11,300	9,950
10	2,630	17,700	5,150	25	12,900	9,640
11	2,920	16,400	4,750	26	13,200	9,220
12	3,210	14,200	4,850	27	13,900	8,590
13	3,500	12,300	5,170	28	14,700	8,260
14	3,680	11,300	4,960	29	16,000	8,420
15	3,740	11,200	4,860	30	15,600	8,920
				31	14,900	

8NJ13 Slocan River near Crescent Valley

¾ mile above Crescent Valley P.O.

Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	3,520	17,100	6,730	16	4,720	14,800
2	3,360	17,800	6,240	17	5,670	14,100
3	3,280	18,800	5,780	18	6,310	13,000
4	3,400	20,200	5,400	19	6,540	12,100
5	3,320	20,100	5,330	20	7,910	11,600
6	3,310	20,600e	5,380	21	10,400	11,300
7	3,580	21,100e	5,080	22	11,300	10,500
8	3,730	21,600	4,930	23	12,100	9,550
9	3,840	21,700	4,630	24	13,600	9,050
10	3,860	24,100	4,380	25	13,600	8,570
11	3,950	22,300e	4,300	26	15,500	8,180
12	4,140	20,600e	4,410	27	18,200	7,820
13	4,810	18,800e	4,350	28	20,300	7,620
14	4,960	17,100e	4,100	29	19,100	7,460
15	4,720	15,300	3,890	30	17,300	7,170
				31	16,800	

8NM$_{50}$ Okanagan Lake at Penticton

Outlet of Okanagan Lake.

Water stage recorder

Mean Daily Stage in Feet

	MAY	JUNE	JULY		MAY	JUNE
1	4.32	7.96	9.48	16	5.26	9.28
2	4.32	8.12	9.45	17	5.35	9.35
3	4.38	8.25	9.41	18	5.45	9.40
4	4.40	8.39	9.41	19	5.55	9.41
5	4.44	8.50	9.37	20	5.61	9.45
6	4.55	8.60	9.32	21	5.75	9.48
7	4.59	8.70	9.30	22	5.92	9.52
8	4.65	8.78	9.30	23	6.08	9.54
9	4.70	8.88	9.30	24	6.33	9.58
10	4.74	9.00	9.31	25	6.57	9.58
11	4.85	9.05	9.32	26	6.77	9.58
12	4.91	9.08	9.30	27	6.99	9.57
13	4.98	9.13	9.28	28	7.21	9.57
14	5.07	9.18	9.27	29	7.42	9.55
15	5.18	9.22	9.26	30	7.60	9.52
				31	7.80	

Note: Add 1116.00 feet to obtain elevation above mean sea-level (1934 G.S.C. datum)

8NM$_{50}$ Okanagan River at Penticton

At outlet of Okanagan Lake.

Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	557	563	1,340	16	574	1,120
2	556	531	1,340	17	582	1,140
3	558	511	1,350	18	575	1,130
4	564	617	1,350	19	589	1,110
5	560	725	1,340	20	549	1,120
6	553	758	1,330	21	523	1,120
7	553	791	1,330	22	469	1,130
8	551	822	1,340	23	413	1,330
9	554	1,030	1,350	24	498	1,330
10	559	1,050	1,340	25	498	1,290
11	553	1,070	1,320	26	575	1,260
12	536	1,080	1,300	27	649	1,270
13	555	1,080	1,280	28	551	1,300
14	565	1,090	1,300	29	369	1,320
15	567	1,110	1,320	30	472	1,340
				31	574	

8NL7 Similkameen River at Princeton

On railway bridge, one mile from Princeton.
Staff gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	390	6,360	2,440	16	1,480	4,000
2	360	5,970	2,120	17	1,620	4,310
3	420	6,360	2,010	18	2,110	3,760
4	455	5,890	1,970	19	1,970	3,360
5	441	6,750	2,030	20	2,250	2,850
6	530	7,540	2,010	21	5,720	3,230
7	740	8,710	2,340	22	7,180	4,070
8	840	8,170	2,140	23	8,700	3,520
9	890	6,750	1,990	24	8,320	3,540
10	1,050	6,930	2,010	25	9,700	3,290
11	1,360	5,970	1,940	26	11,500	3,170
12	1,550	6,750	1,700	27	12,500	3,030
13	1,620	4,650	1,660	28	13,200	2,930
14	1,420	4,790	1,570	29	13,100	2,690
15	1,420	4,410	1,720	30	9,700	2,550
				31	8,080	

8NL8 Tulameen River at Coalmont

On highway bridge at Coalmont.

Chain gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	540	5,980	762	16	2,020	4,120
2	555	5,930	627	17	2,570	3,720
3	570	5,860	627	18	2,600	3,100
4	609	7,050	605	19	3,050	2,560
5	821	7,080	535	20	4,210	2,350
6	925	7,100	520	21	5,320	2,200
7	1,180	7,800	540	22	6,380	1,880
8	1,280	6,040	556	23	6,460	1,710
9	1,420	5,850	540	24	6,910	1,540
10	1,640	4,600	470	25	6,840	1,400
11	1,900	4,200	460	26	7,560	1,220
12	2,060	4,320	410	27	9,430	1,190
13	2,060	4,180	382	28	7,720	1,040
14	1,970	3,930	364	29	7,660	959
15	1,950	3,650	356	30	6,860	864
				31	6,770	

8EF1 Skeena River at Usk

One-half mile west of Usk.

Wire-weight gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	10,900	199,000	52,800	16	95,000	108,000
2	11,900	172,000	53,400	17	113,000	105,000
3	12,900	151,000	47,100	18	103,000	104,000
4	14,300	149,000	53,500	19	90,600	99,000
5	20,100	133,000	52,800	20	95,900	89,600
6	21,300	116,000	45,300	21	130,000	93,200
7	30,500	115,000	50,300	22	172,000	78,000
8	32,700	114,000e	54,100	23	233,000	69,600
9	36,200	113,000	52,800	24	249,000	66,600
10	47,200	118,000	51,500	25	290,000e	55,200
11	52,200	132,000	51,600	26	330,000	61,700
12	72,900	118,000	51,400	27	326,000	61,500
13	77,200	114,000	51,400	28	313,000	51,600
14	88,000	113,000	47,100	29	285,000	54,100
15	93,200	112,000	42,700	30	262,000	45,200
				31	226,000	

"e" Estimated

8EE5 Bulkley River at Smithers

On highway bridge 2 miles from Smithers.

Chain gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	2,540	31,000	9,640	16	18,000	21,800e
2	2,960	28,900e	9,160e	17	19,300e	21,100
3	3,500e	26,800	8,670	18	20,600	20,200e
4	4,050	25,600e	8,020	19	19,400e	19,200
5	5,200e	24,400	7,640e	20	18,100	18,200
6	6,340	23,500	7,250	21	22,400e	17,600e
7	7,620e	24,200e	7,740e	22	26,800	16,900
8	8,900	24,800	8,230	23	30,200	15,500e
9	9,530	23,200e	7,740e	24	33,300e	14,100
10	11,100e	21,500	7,250	25	36,400	13,400e
11	12,700	21,400e	7,720	26	37,600	12,700
12	14,100e	21,400	7,910e	27	37,000	12,500
13	15,500	20,600	8,100	28	39,400e	12,300e
14	16,800e	21,600e	8,100e	29	41,900	12,100
15	18,100	22,500	8,100	30	39,900	10,900e
				31	38,000	

"e" Estimated

8EG6 Kitsumgallum River near Terrace

7 miles from Terrace.

Water stage recorder

Mean Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		May	JUNE
1	1,560	19,500	6,990	16	7,550	14,900
2	1,620	16,800	6,500	17	8,420	15,400
3	1,680	14,500	6,280	18	8,550	15,700
4	1,800	13,100	6,310	19	8,090	15,500
5	2,010	11,900	6,090	20	8,060	14,600
6	2,320	11,400	5,960	21	9,980	13,400
7	2,700	12,700	6,220	22	12,300	11,800
8	2,970	14,400	6,640	23	13,200	10,100
9	3,200	13,900	6,640	24	15,800	8,760
10	3,560	13,000	6,580	25	16,300	7,850
11	4,250	13,100	6,810	26	17,800	7,460
12	4,780	13,100	7,100	27	18,800	7,520
13	5,240	13,100	7,130	28	20,700	7,670
14	6,260	13,300	7,080	29	22,600	7,460
15	7,010	14,200	6,990	30	23,200	7,490
				31	22,000	

7FD2 Peace River near Taylor

On Alaska Highway bridge 11 miles south of Fort St. John
Wire weight gauge

Daily Discharge in cubic feet per second

	MAY	JUNE	JULY		MAY	JUNE
1	34,600e	384,000e	63,100	16	134,000	135,000
2	35,000	360,000	64,200e	17	138,000	131,000
3	35,400e	326,000e	65,200	18	143,000	125,000
4	35,700e	293,000	70,300	19	150,000	120,000e
5	36,100e	260,000e	74,800	20	156,000	114,000
6	36,400	228,000	77,600	21	168,000	108,000
7	52,700	215,000e	87,800	22	198,000e	103,000
8	72,800e	202,000	80,600	23	238,000e	102,000
9	92,800	198,000	80,300	24	268,000e	100,000
10	77,000	189,000e	78,400e	25	308,000	94,700
11	74,500	176,000e	76,400	26	384,000	87,800e
12	83,200	163,000e	75,200e	27	401,000	80,900e
13	93,000	150,000	74,000	28	391,000	74,000
14	111,000	139,000	81,700	29	398,000e	70,000
15	122,000	138,000	78,000	30	406,000	66,600e
				31	407,000	

"e" Estimated

DEPARTMENT OF MINES AND RESOURCES — MINES, FORESTS AND SCIENTIFIC SERVICES BRANCH
DOMINION WATER AND POWER BUREAU
VANCOUVER. B.C.

Surveys _____
Plan _____
Checked _____
Traced _____
Approved _____
District Chief Engineer

FLOOD OF 1948
IN
BRITISH COLUMBIA

LEGEND

Discharge Station ●
Stage Station △

Report No. 1047
Corres. file _____
Date 15th March, 1949
Scale _____
PLAN No. _____

FRASER RIVER BASIN

LEGEND

Discharge Station ●

Stage Station △

Scale of Miles 10 0 10 20 30 40 50

Report No. 1047
Date: 15th March, 1949

COLUMBIA RIVER BASIN
(IN CANADA)

LEGEND

Discharge Station

Stage Station

Scale of Miles
10 0 10 20 30 40

Report No. 1047
Date: 15th March 1949