



1967

SURFACE WATER DATA

YUKON TERRITORY AND NORTHWEST TERRITORIES

WATER SURVEY OF CANADA

INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES
OTTAWA • CANADA



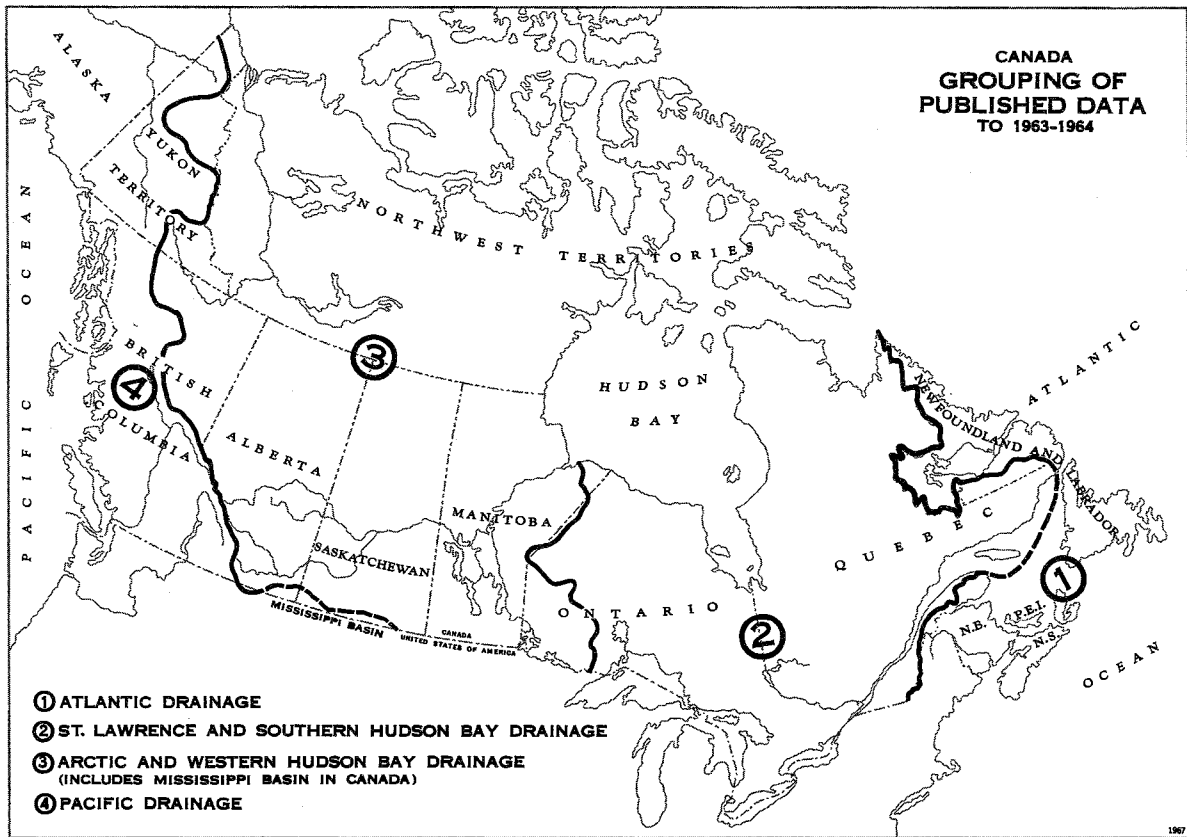
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NORTHWEST TERRITORIES**

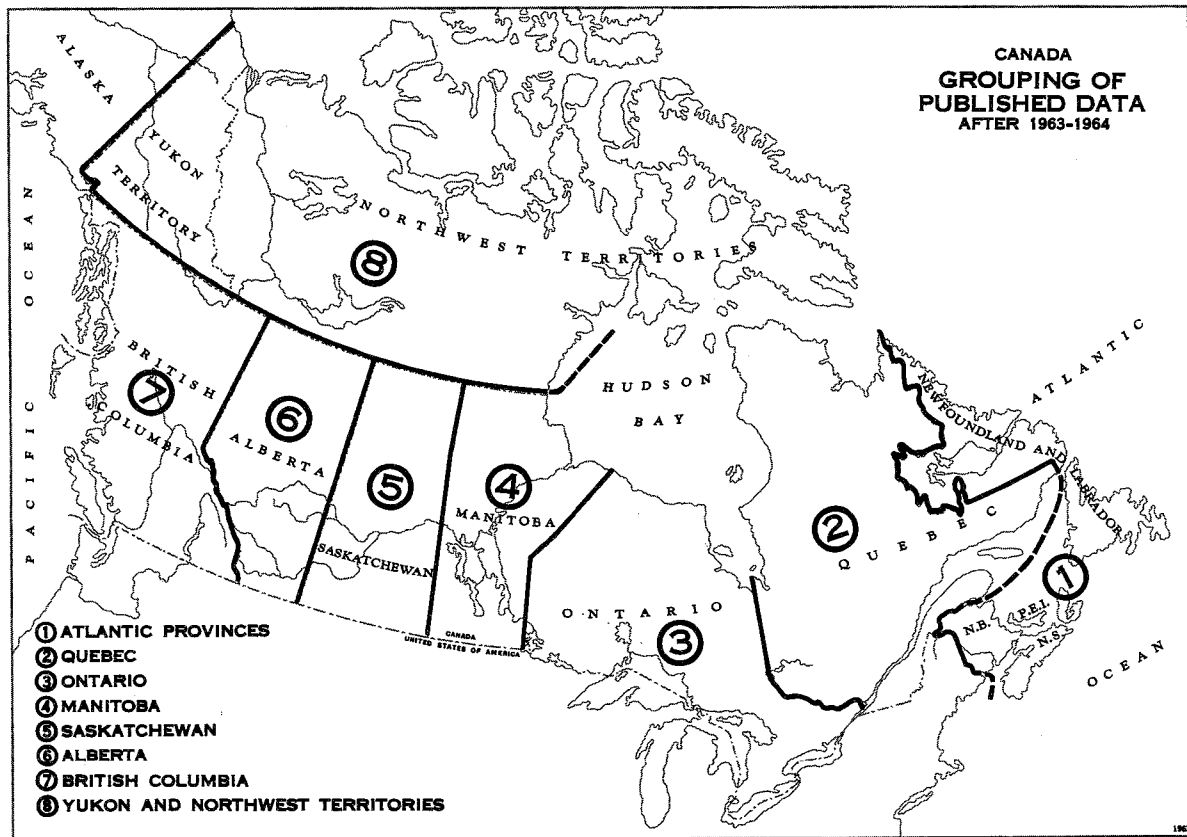
WATER YEAR 1967

INLAND WATERS BRANCH
DEPARTMENT OF ENERGY, MINES AND RESOURCES

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PREFACE

This Publication was prepared by personnel of the Water Survey of Canada under the direction of the Director, Inland Waters Branch, Department of Energy, Mines and Resources, Ottawa.

The basic data were collected and compiled under the supervision of the District Engineers at Calgary, Alberta; Winnipeg, Manitoba and Vancouver, British Columbia.

The co-operation received from various organizations is gratefully acknowledged.

CALENDAR FOR THE 1967 WATER YEAR

OCTOBER 1966

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NOVEMBER 1966

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JANUARY 1967

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JUNE 1967

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AUGUST 1967

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SEPTEMBER 1967

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INTRODUCTION

The Inland Waters Branch, Department of Energy, Mines and Resources, herein presents for the 1967 water year, the results of the hydrometric Survey investigations which were made in the Yukon and Northwest Territories by the Water Survey of Canada. The data for some gauging stations are presented on a calendar year rather than a water year basis.

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

During the 1967 water year, the hydrometric surveys in the Yukon and Northwest Territories were conducted by the Water Survey of Canada under agreement with the Territories.

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to the following organizations:

Federal - Northern Canada Power Commission,
Department of Transport;
United States Geological Survey.

Private - Anvil Mining Corporation;
Consolidated Mining and Smelting Company;
Asbestos Corporation Limited;
Crest Exploration Limited.

SCOPE OF THIS PUBLICATION

This publication is one of a series containing hydrometric survey data for the Yukon and Northwest Territories.

Data for the 1964 water year and those preceding were published in the Water Resources Paper series and each issue was designated with an official number in that series.

Publications containing data for the 1965 and subsequent water years are to be identified by the type of data collected, such as surface water data or sediment survey data, by the name of the Province(s) or the Territories in which the data were collected, and the water year to which the data apply.

Details on individual stations and related records, as well as recent data which have not yet been published, may be obtained upon application to:

District Engineer, Water Survey of Canada, Inland Waters Branch, Department of Energy, Mines and Resources, 700 Calgary Power Building, Calgary, Alberta.	District Engineer, Water Survey of Canada, Inland Waters Branch, Department of Energy, Mines and Resources, 518 Federal Building, Winnipeg 1, Manitoba.
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District Engineer,
Water Survey of Canada,
Inland Waters Branch,
Department of Energy,
Mines and Resources,
325 Granville Street,
Vancouver 2, B.C.

or to the Director, Inland Waters Branch, Department of Energy, Mines and Resources, Ottawa 4, Ontario.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

A program for the collection and publication of surface water and sediment data has been carried on for a number of years. Data for the 1964 water year and earlier years were published in the Water Resources Paper series. Subsequent data are being published in a new format adopted for published data of the Water Survey of Canada.

To facilitate uniform publication of surface water data, Canada was divided into four main drainages, and a separate Water Resources Paper was published for each drainage. Each paper containing surface water data was identified by a specific number, the name of the drainage and the year(s) in which the data were collected.

The new format which has now been adopted represents a departure from the Water Resources Paper series. In the new format, Canada is divided into eight regions. The provinces each represent a separate region except for the Atlantic Provinces which together form one region, and the Yukon and Northwest Territories which make up another. In the new series, the publication will be identified by the province(s) or territories covered and the year in which the data were collected.

The publications containing sediment data are being published in the new format but in a single publication for all of Canada, as heretofore.

During the years 1947 to 1960, some sediment data were collected for several prairie rivers to meet the needs of particular projects. The first Paper containing sediment data incorporates a selection of these data and also data for part of the year ending September 30, 1961 at stations established for the continuing program. The second issue is a biennial publication covering only the continuing program for the 1962 and 1963 water years. The third issue is an annual publication and all future issues will be published on an annual basis. For ease in identification, the papers containing sediment data prior to 1965, are designated with the letter "S" and a number as follows:

Water Resources Papers Nos.

- S-1 (see above)
- S-2 (1961-62 & 1962-63)
- S-3 (1963-64)

Flood Reports

Several damaging floods have occurred in recent years in various regions of Canada. For three recent floods, data have been published in special issues of the Water Resources Papers so as to make available detailed streamflow data and pertinent meteorological observations in a form convenient for reference. Similar reports will be prepared from time to time as studies are brought to completion. The flood reports currently available are designated by the letter "F" together with the number of the paper containing the related surface water data.

Water Resources Papers Nos.

- 113F - Flood of June 1953 in the South Saskatchewan River Basin.
- 121F - Flood of 1957 in the Carrot River Basin.
- 134F - Floods of 1961 in New Brunswick.

Copies of these publications may be obtained on application to the Director, Inland Waters Branch, Department of Energy, Mines and Resources, Ottawa 4, Ontario.

DEFINITION OF TERMS AND ABBREVIATIONS

"Acre-foot" (ac-ft) is the volume of water required to cover an area of one acre to a depth of one foot. It is equal to 43,560 cubic feet.

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic-foot per second" (cfs) is a unit expressing rate of discharge. One cfs is equal to one cubic foot of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in a later paragraph under "Convenient Equivalents of Measurement".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Stage-discharge relationship" is the relation between the gauge height and the discharge at a gauging station.

"Water year" is the twelve month period from October to September 30, e.g., the water year ending September 30, 1967 is referred to as the 1967 water year.

METHOD OF TABULATION OF HYDROMETRIC SURVEY DATA

For most gauging stations where a systematic record of stage or discharge was obtained during the year under review, the following data are given where available:

1. Description of the station;
2. Table of daily stage or discharge;
3. Summary of monthly and annual data.

1. The description of the station contains the following:

Location - refers specifically to the location of the gauge unless otherwise indicated and for most stations also represents closely the location of the discharge measurement section. However, if the gauge and the discharge measurement section are located an appreciable distance apart, the location of the discharge measurement section is indicated in relation to that of the gauge under "Drainage Area".

Drainage Area - refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream above the station.

Gauge - is the installation used to obtain water level data. For the purpose of reference herein, the gauges are indicated as follows:

- (a) "Recording" - water-stage recorder from which continuous water levels are obtained.

- (b) "Manual" - a non-recording type of gauge from which observations of stage normally are obtained once daily.

Period of Record - refers to the length and continuity of record obtained at the gauging station.

Reference is made to any change in the name of the gauging station from that shown in previous publications.

When reference is made in the description of one station to records which have been obtained at some other station on the same river, such reference appears under "Remarks".

Mean Discharge - refers to the mean discharge for the number of years indicated. It is based only on complete years (or complete periods) of record at those gauging stations for which at least five complete water years (or periods) of record have been obtained.

Extremes Recorded - refers to the extremes of stage or discharge for the period of record. The maximum and minimum instantaneous values are given where available; otherwise, the daily extremes are given.

Revisions - refers to changes made in previously published records. The period for which records were revised is shown. When the revised records have been published, the publication in which they appear is indicated. Where such revisions have not been published, the District Engineer who can provide copies of the revised records is specified. Where the revision consists of a change in drainage area, the publication in which the revision first was published is indicated.

Remarks - contains a statement pertaining to the accuracy of the current discharge data and includes pertinent information not covered elsewhere.

ACCURACY OF DISCHARGE DATA

The accuracy of discharge data depends upon (1) the stability of the stage-discharge relationship, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge and interpretation of records.

In order to give some indication of the quality of the currently published discharge records, the probable accuracy is indicated as "excellent", "good", "fair" or "poor".

The following outline was used as a guide in the definition of the quality of the discharge records:

- (a) Excellent: Records obtained during open water periods at a station, (i) which is equipped with a recording gauge, (ii) which has a stable control, and (iii) which has a well-defined stage-discharge relationship.

OR

Records obtained during periods of ice conditions at a station which meets the above requirements during open-water periods and for which, under ice conditions (i) an intense discharge measurement program was carried out to define the ice effect, (ii) the correction for backwater due to ice is very small or very consistent, and (iii) flow at the discharge measurement section is regular and free of slush ice.

- (b) Good: Records obtained during open water periods at a station, (i) where the stages are reasonably uniform and a water level observation is made at

least once daily, (ii) which may have minor shifting of the control, and (iii) which has a well defined stage-discharge relationship.

OR

Records obtained during periods of ice conditions at a station which meets the requirements for excellent or good records under open water conditions and for which, under ice conditions (i) discharge measurements are made with sufficient frequency to define the ice effect, (ii) the correction for backwater due to ice is small, and (iii) flow at the discharge measurement section is regular and relatively free of slush ice.

- (c) Fair: Records obtained at a station during open water periods, (i) when there is frequent occurrence of short periods of estimated records or infrequent occurrences of longer periods of record estimated by correlation with a hydrograph of a comparable stream, and (ii) when a shifting control, a poor discharge measurement section or a scarcity of discharge measurements results in a poorly-defined stage-discharge relationship.

OR

Records obtained during periods of ice conditions at a station which meets the requirements for excellent, good or fair records under open-water conditions or excellent or good records under ice conditions but for which the correction for backwater due to ice is relatively large or subject to frequent and substantial change.

- (d) Poor: Records obtained at a station during open water periods, (i) when long periods of record are estimated with some uncertainty, and (ii) when a poor control, a poor discharge measurement section or a scarcity of discharge measurements results in a poorly-defined stage-discharge relationship.

OR

Records obtained at a station during periods of ice conditions, (i) when discharge measurements are not made with sufficient frequency to define the ice effect, and (ii) when flow at the discharge measurement section is affected by slush ice.

2. The table of daily stage or discharge gives the daily stage in feet or the daily discharge in cubic feet per second at the gauging station.

Within the table of daily discharge, the maximum and minimum daily discharges for each month are underlined. When such maximum or minimum discharge occurs more than once during the month, it is underlined only for the earliest date of occurrence.

For streams in which the discharge at times is very small, the number "0.0t" is used to indicate a discharge below the last significant figure; "0.0" is used if the discharge ceases completely.

The following standard symbols are used opposite the daily stage or discharge, to which they apply. If the symbol applies to not more than two periods, one of which must be

more than 15 days, only a footnote indicating the terminal dates is given.

"a", manual gauge observation - indicates that one or more manual gauge observations per day were obtained and used as the mean for the day at a gauging station equipped with a recording gauge.

"b", ice conditions - indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the normal stage-discharge relationship.

"e", estimated - indicating any estimated data. For gauging stations at which discharge data are collected, it indicates that the discharge was determined by some indirect method such as interpolation, comparison with other streams or by correlation with meteorological data.

3. A summary of monthly and annual data is given below the table of daily data.

ORDER OF LISTING GAUGING STATIONS

In this publication, gauging stations are listed in an upstream to downstream order. All stations on the main stem are listed first; these are followed by the stations in the drainage basin of the most upstream tributary. Stations in the drainage basin of the next downstream tributary are then listed; this is continued until all tributaries have been covered.

In the Table of Contents, the names of tributaries of the main stem are indented and the indentation indicated by one period; tributaries to these tributaries are further indented, using two periods, etc. This system enables stations in the same drainage basin to be selected at a glance.

CONVENIENT EQUIVALENTS OF MEASUREMENT

The following is a list of convenient equivalents of measurement for use in hydraulic computations:

1 mile equals 5,280 feet.
1 square mile equals 640 acres.
1 acre equals 43,560 square feet or 0.0015625 square mile.
1 cubic foot of water weighs approximately 62.4 pounds.
1 cubic foot equals 6.23 Imperial gallons; equals 7.48 United States gallons.
1 foot per second equals 0.682 mile per hour.
1 cubic foot per second for one day equals 1,983,471 acre-feet.
1 cubic foot per second for one day covers one square mile to a depth of 0.03719 inch.
1 foot equals 0.3048 metre.
1 acre equals 0.4047 hectare.
1 mile equals 1.60935 kilometres.
1 cubic meter per minute equals 0.5886 cubic foot per second.
1 horsepower equals 550 foot-pounds per second.
1 horsepower equals 76.0 kilogram metres per second.
1 horsepower equals 746 watts or 0.746 kilowatt.
1 cubic foot per second acting through 1 foot of head gives 0.1135 horsepower or 0.0847 kilowatt.

Available water power at a site may be determined approximately as follows:

Cubic feet per second x fall in feet ÷ 10 = net horsepower from water wheel, realizing 88% of theoretical power.

DEZADEASH RIVER AT HAINES JUNCTION - STATION No. 8AA-3

Location: Lat. 60° 44' 54", long. 137° 30' 19", Yukon Territory, at the Haines Road bridge, three tenths of a mile south of Mile 1016, Alaska Highway, and eighty-four miles west of Whitehorse.

Drainage Area: 3,200 square miles.

Gauge: Manual.

Period of Record: December 1952 to September 1967.

Mean Discharge: (14 years) 1,600 cfs.

Extremes Recorded: Maximum daily discharge, 10,100 cfs on June 28, 1961. Minimum daily discharge, 238 cfs (estimated), March 22 to 24, 1967.

Remarks: Records good during open-water periods and poor during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	1,620	805	575	470	365	275	240	686	4,800	3,620 e	3,700 e	2,100
2.....	1,570 e	800	575	470	360	275	240	718	4,340	3,570	3,600 e	2,070 e
3.....	1,520	790	570	465	360	270	242	750	4,340	3,870	3,450 e	2,040
4.....	1,540	780	565	465	355	268	243	885	4,750 e	4,050 e	3,400 e	2,000
5.....	1,550	775	560	460	350	265	245	1,210	5,210	4,200	3,320 e	1,990 e
6.....	1,510	770	555	460	350	265	255	1,400 e	5,570	3,760	3,200 e	1,970 e
7.....	1,460	760	550	455	345	260	270	1,520 e	4,800	3,600 e	3,150 e	1,960
8.....	1,450 e	755	540	450	340	260	280	1,650	4,270	3,470	3,050 e	1,940 e
9.....	1,440 e	740	540	450	335	255	300	1,700	4,340	3,320 e	3,000 e	1,910 e
10.....	1,420	735	540	450	330	255	310	2,440	4,600 e	3,260	2,900 e	1,890
11.....	1,390	720	540	445	325	252	335	2,260 e	4,850 e	3,300	2,850 e	1,880
12.....	1,360	710	535	445	325	251	360	2,180	5,080	3,800 e	2,780 e	1,870 e
13.....	1,310	700	535	440	320	250	380	2,050	4,990	4,180	2,700 e	1,860 e
14.....	1,250	690	535	440	320	250	401	1,950 e	4,820	4,240	2,680 e	1,860
15.....	1,240 e	685	535	440	315	250	420	1,910	4,680	4,220	2,630	3,140
16.....	1,230	680	530	440	310	248	440	1,910 e	4,820	4,200	2,580 e	3,100
17.....	1,170	670	530	435	310	247	450	1,910	4,840 e	4,000 e	2,540	3,100 e
18.....	1,140 e	660	520	434	305	246	460	1,820	4,860 e	3,830	2,490 e	3,090
19.....	1,090 e	650	515	433	305	345	480	1,760	4,870	3,740 e	2,460 e	3,070
20.....	1,060	645	510	425	300	243	490	1,760 e	4,800	3,660	2,430	3,000 e
21.....	940	640	505	420	300	240	500	1,760 e	4,760 e	3,580 e	2,370 e	2,930
22.....	777	630	500	410	300	238	520	1,760	4,730	3,430	2,320 e	2,850 e
23.....	795 e	620	500	405	295	238	530	1,820	4,540	3,410 e	2,270	2,780
24.....	813	615	495	400	290	238	550	1,960	4,400 e	3,390	2,250 e	2,720
25.....	820 e	610	495	400	285	240	570	2,290	4,250 e	3,370	2,220 e	2,630
26.....	820	605	495	395	285	240	580	2,370	4,180	3,050	2,200	2,530 e
27.....	822	600	495	385	280	240	600	2,440	3,950 e	2,930	2,140 e	2,430
28.....	820	595	490	380	280	240	620	2,500	3,830	4,070	2,090	2,350 e
29.....	820	590	485	375	-	240	640 e	2,900 e	3,960	3,950 e	2,100 e	2,270
30.....	815	580	480	370	-	240	656	3,570	3,780	3,870	2,120	2,220
31.....	810	-	475	370	-	240	-	4,200 e	-	3,830	2,110 e	-
Total	36,372	20,605	16,270	13,282	8,940	7,764	12,607	60,009	138,010	114,770	83,100	71,550
Mean	1,170	687	525	428	319	250	420	1,940	4,600	3,700	2,680	2,380
Acre-feet	72,140	40,870	32,270	26,340	17,730	15,400	25,010	119,000	273,700	227,600	164,800	141,900

For the Year.....Maximum daily discharge, 5,570 cfs on June 6
 Minimum daily discharge, 238 cfs, March 22 to 24
 Mean discharge, 1,600 cfs
 Total discharge, 1,157,000 ac-ft

Ice conditions October 26 to April 28.

e - Estimated.

AISHIHIK RIVER NEAR WHITEHORSE - STATION No. 8AA-1

Location: Lat. 60° 51' 40", long. 137° 03' 40", Yukon Territory, about one-quarter mile upstream from the Alaska Highway bridge at Mile 997, approximately two miles north of mouth, sixty-nine miles west of Whitehorse.

Drainage Area: 1,620 square miles.

Gauge: Manual.

Period of Record: Mainly continuous, May 1950 to September 1967.

Mean Discharge: (16 years) 519 cfs.

Extremes Recorded: Maximum daily discharge, 5,050 cfs (estimated) on June 20, 1962. Minimum daily discharge, 79 cfs, March 20 to April 18, 1952.

Remarks: Records fair during open-water periods and poor during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	605	380	280	228	180	144	127	245	2,430	1,550 e	1,560	1,080
2.....	590	380	280	228	178	144	127	270	1,980	1,560 e	1,500	1,070
3.....	587	375	275	228	176	144	127	290	2,070	1,600 e	1,450	1,050
4.....	593	370	275	226	174	142	127	310	2,240	1,700 e	1,450	1,030
5.....	581	365	275	224	172	142	127	330	2,860	1,680 e	1,410	1,020
6.....	557	360	270	222	170	140	128	350	2,750	1,600 e	1,380	1,010
7.....	569	360	270	222	170	140	128	390	2,080	1,500 e	1,360	992
8.....	557	355	270	220	168	138	128	476	1,860	1,340 e	1,320	984
9.....	545	350	265	220	166	136	128	506	2,100	1,350 e	1,300	1,000
10.....	539	350	265	218	164	136	129	488	2,620	1,360 e	1,280	1,030
11.....	539	345	260	215	162	136	129	551 e	3,050	1,400 e	1,280	1,060
12.....	479	340	260	215	160	136	130	602	2,280	1,480 e	1,250	972
13.....	515	335	255	210	160	135	132	683	2,100	1,550 e	1,240	964
14.....	503	335	255	210	160	135	138	655	2,170	1,600 e	1,210	980
15.....	479	330	250	210	160	134	140	648	2,030	1,620 e	1,210	1,510
16.....	497	325	250	208	158	134	144	669	2,150	1,580 e	1,210	1,520
17.....	515	320	250	206	156	133	148	676	2,280	1,500	1,210	1,680
18.....	473	320	250	204	154	132	150	634	2,050	1,470	1,170	1,680
19.....	500	315	245	202	152	132	155	648	1,980	1,450	1,160	1,680
20.....	488	310	245	202	152	132	158	725	1,780	1,350	1,180	1,120
21.....	446	310	245	200	150	130	162	662	1,780	1,330	1,180	1,080
22.....	440	305	245	195	150	130	166	683	1,780 e	1,310	1,160	1,030
23.....	446	300	240	194	150	130	170	711	1,780 e	1,390	1,150	1,020
24.....	428	300	240	192	150	130	175	795	1,750 e	1,370	1,130	998
25.....	440	298	240	190	150	130	184	972	1,730 e	1,330	1,110	948
26.....	427	295	238	188	148	129	192	1,000	1,700 e	1,310	1,110	916
27.....	415	290	236	186	146	128	198	1,020	1,680 e	1,290	1,080	900
28.....	405	285	234	184	144	127	210	1,080	1,650 e	1,500	1,090	879
29.....	395	285	232	182	-	127	220	1,420	1,620 e	1,540	1,070	872
30.....	390	285	230	180	-	127	230	2,480	1,580 e	2,040	1,040	865
31.....	385	-	230	180	-	127	-	3,690	-	1,750	1,040	-
Total	15,328	9,873	7,855	6,389	4,480	4,160	4,607	24,659	61,910	46,400	38,290	32,940
Mean	494	329	253	206	160	134	154	795	2,060	1,500	1,240	1,100
Acre-feet	30,400	19,580	15,580	12,670	8,890	8,250	9,140	48,910	122,800	92,030	75,950	65,340

For the Year.....Maximum daily discharge, 3,690 cfs on May 31
 Minimum daily discharge, 127 cfs, March 28 to April 5
 Mean discharge, 704 cfs
 Total discharge, 509,500 ac-ft

Ice conditions October 26 to May 7.

e - Estimated.

YUKON RIVER AT WHITEHORSE - STATION No. 9AB-1

Location: Lat. 60° 42' 50", long. 135° 02' 35", Yukon Territory, at Robert Campbell Bridge.

Drainage Area: 7,500 square miles.

Gauge: Manual, relocated on October 1, 1960 at different datum, one-half mile upstream from former location. Gauge heights are referred to an assumed datum.

Period of Record: Miscellaneous measurements only, 1915; gauge heights only, May to October 1902 to 1927 and continuous May 1928 to September 1943; discharges, continuous, October 1943 to September 1967. Records prior to 1847 were published under the title "Lewes River at Whitehorse" and in 1948 and 1949 under the title "Yukon (Lewes) River at Whitehorse".

Mean Discharge: (24 years) 8,580 cfs.

Extremes Recorded: Maximum daily discharge, 22,800 cfs on August 9 and 10, 1953. Maximum daily gauge height, 10.00 feet on November 14, 1935. Minimum daily discharge, 1,150 cfs on May 19, 1962 and May 21, 1964. Minimum daily gauge height, -1.00 feet, May 8 to 12, 1913. (Gauge heights referred to location and datum then in use).

Remarks: Records good. Flow may be affected by dam at outlet of Marsh Lake and by operation of power plant.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	14,600	10,900	6,780	5,300	3,600	3,010	2,500	2,940	6,520	13,600 e	14,800	16,400
2.....	14,500	11,300	6,520	5,280	3,830	2,770	2,460	3,010	4,580	13,600	14,900	16,400 e
3.....	14,400	11,300	6,540	5,420	3,480	2,850	2,510	2,960	5,020 e	13,600	14,800	16,400 e
4.....	14,700	10,800	6,090	5,460	3,400	2,800	2,320	3,190	5,460 e	13,500	14,800	16,400
5.....	14,400	10,500	6,010	4,980	3,600	2,830	2,400	3,240	5,810	13,800	14,900	16,500
6.....	14,700	10,600	6,600	5,060	3,480	2,950	2,650	3,220	6,600	13,700	14,800	16,600
7.....	14,300	10,600	5,540	5,280	3,280	2,430	2,690	2,910 e	6,520	14,000	14,800	16,700
8.....	14,300 e	10,500	5,450	5,050	3,510	2,980	2,590	2,600	6,880	13,800	15,000	16,400
9.....	14,300	9,720	5,450	4,980	3,420	2,790	2,890	3,320	6,720	13,500	15,300	16,600
10.....	14,500	10,300	5,500	4,980	3,400	3,050	2,780	3,000	6,600	13,600	15,500	16,400
11.....	13,800	10,700	5,890	4,570	3,480	2,600	2,780	3,030	7,200	13,600	15,600 e	16,200
12.....	13,900 e	10,300	5,170	4,920	3,500	3,020	2,900	3,390	7,240	13,600	15,700	16,500
13.....	14,100	8,300	5,540	4,850	3,780	2,830	2,880	3,060	7,820	13,500	15,700	16,900
14.....	14,100	6,500	5,560	4,830	3,430	2,940	2,780	3,110	8,170	13,900	15,600	16,400
15.....	14,100	7,560	5,540	4,640	3,660	2,720	2,920	3,660	8,570	13,600	16,200	16,400
16.....	14,000	7,520	5,750	4,820	3,400	2,800	2,850	3,290	8,740	13,900 e	15,700	16,700 e
17.....	13,900	7,620	5,600	4,550	3,200	2,650	2,720	3,700	9,140	14,300	16,200	17,000
18.....	13,400	7,800	5,860	4,740	3,280	2,660	2,740	3,870	9,820	13,900	16,100	17,000
19.....	13,100	8,010	5,720	4,600	3,330	2,840	2,790	3,560	9,540	14,000	16,100	17,100
20.....	13,100	8,000	5,530	4,510	3,310	2,640	2,840	3,880	10,300	14,200	16,200	18,100
21.....	12,600	7,890	5,720	4,670	2,880	2,540	3,000	3,410	10,900	14,200	16,100	18,300
22.....	12,600	8,040	6,160	4,150	2,960	2,640	2,730	3,880	10,800	14,500	16,800	18,500
23.....	12,400	8,150	5,730	4,430	2,980	2,540	2,850	3,660	11,700	13,900	15,800	18,300
24.....	12,100	7,170	5,790	4,350	2,920	2,490	3,050	3,760 e	11,900 e	14,000	16,100 e	18,500
25.....	12,100	8,600	5,700	4,320	2,940	2,790	2,750	3,850	12,200	13,900	16,400 e	18,600
26.....	12,100	8,700	5,540	3,930	2,920	2,570	2,920	4,120	12,800	14,200	16,700	18,500
27.....	11,800	8,390	5,510	3,890	2,870	2,410	3,100	4,370	13,300	13,300	16,300	17,800
28.....	10,600	4,760	5,460	3,780	2,740	2,470	3,010	4,420	13,600	14,100	16,000	18,000
29.....	9,490	6,410	5,490	3,500	-	2,600	2,900	3,850	13,500	14,700	16,000	17,400
30.....	11,800	6,740	5,420	3,900	-	2,560	3,190	4,370	13,700	14,900	16,300	17,700
31.....	11,600	-	5,340	3,570	-	2,380	-	5,060	-	14,800	16,100	-
Total	411,390	263,680	178,500	143,310	92,580	84,150	83,490	109,690	271,650	432,900	487,300	514,700
Mean	13,300	8,790	5,760	4,620	3,310	2,710	2,780	3,540	9,060	14,000	15,700	17,200
Acre-feet	816,000	523,000	354,100	284,300	183,600	166,900	165,600	217,600	538,800	858,700	966,600	1,021,000

For the Year.....Maximum daily discharge, 18,600 cfs on September 25
 Minimum daily discharge, 2,320 cfs on April 4
 Mean discharge, 8,420 cfs
 Total discharge, 6,096,000 ac-ft

e - Estimated. Ice conditions November 16 to May 3.
 Flow data for period November 16 to May 3 were supplied by Northern Canada Power Commission and represent flows through Whitehorse Rapids Power Plant.

YUKON RIVER ABOVE FRANK CREEK - STATION No. 9AB-9

Location: Lat. 61° 33' 30", long. 135° 06' 50", Yukon Territory, about one mile above Frank Creek, about twelve miles above confluence with Teslin River and fifty-five miles southeast of Carmacks.

Drainage Area: 12,000 square miles.

Gauge: Recording; relocated May 30, 1962, eleven miles upstream from former location.

Period of Record: Miscellaneous measurement only, in 1951 and mainly continuous, June 1953 to September 1967. Records prior to 1962 were published under the title "Yukon River at Hootalinqua near Carmacks" and prior to 1965 under Station No. 9AH-2.

Mean Discharge: (12 years) 11,500 cfs.

Extremes Recorded: Maximum instantaneous discharge, 29,200 cfs at 11.30 a.m. on August 29, 1961. Minimum daily discharge, 2,500 cfs on March 28, 1956.

Remarks: Records excellent during open-water periods and fair during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	19,100	14,800 e	9,100	6,800	4,750	3,850	3,610	4,120	7,830	19,700	21,500	22,200
2.....	19,000	14,600 e	9,000	6,750	4,700	3,850	3,620	4,160	8,160	20,000	21,500	22,100
3.....	19,000	14,300 e	8,900	6,650	4,650	3,800	3,630	4,200	8,220	20,300	21,600	22,100
4.....	19,000	14,100 e	8,700	6,600	4,600	3,800	3,640	4,250	8,310	20,600	21,600	22,100
5.....	18,900	14,000 e	8,500	6,500	4,550	3,750	3,650	4,300	8,700 e	20,800	21,700	22,100
6.....	18,900	13,900	8,400	6,400	4,500	3,750	3,650	4,350	9,200 e	21,000	21,700	22,300
7.....	18,700	13,800	8,300	6,350	4,450	3,750	3,660	4,400	9,980	21,000	21,700	22,200
8.....	18,700	13,700	8,200	6,300	4,400	3,750	3,670	4,470	10,100	21,200	21,800	22,100
9.....	18,600	13,400	8,100	6,200	4,400	3,700	3,680	4,540	10,300	21,200	21,900	22,000
10.....	18,600	13,100	8,000	6,150	4,350	3,700	3,690	4,600	10,500	21,200	21,800	22,000
11.....	18,500	12,900	7,900	6,050	4,350	3,650	3,700	4,640	10,700	21,100	21,900	21,900
12.....	18,400	12,700	7,800	6,000	4,300	3,650	3,710	4,680	10,900	21,000	21,900	21,900
13.....	18,400	12,400	7,700	5,950	4,300	3,650	3,720	4,720	11,200	21,000	22,000	22,000
14.....	18,300	12,200	7,600	5,900	4,250	3,650	3,730	4,760	11,500	21,100	22,100	21,800
15.....	18,200	12,000	7,500	5,800	4,200	3,650	3,740	4,800 e	11,900	21,100	22,100	21,800
16.....	18,100	11,900	7,450	5,750	4,200	3,650	3,750	4,850 e	12,100	21,100	22,200	21,600
17.....	17,900	11,800	7,400	5,650	4,200	3,650	3,760	4,950 e	12,500	21,200	22,200	21,500
18.....	17,800	11,600	7,350	5,600	4,200	3,650	3,770	5,000 e	12,900	21,200	22,300	21,800
19.....	17,800	11,300	7,300	5,550	4,150	3,650	3,780	5,100 e	13,400	21,300	22,200	22,000
20.....	17,600	11,100	7,250	5,450	4,100	3,600	3,790	5,300 e	13,800	21,400	22,300	22,300
21.....	17,500 a	10,900	7,200	5,400	4,050	3,600	3,800	5,500 e	14,400	21,400	22,300	22,600
22.....	17,100 e	10,700	7,150	5,300	4,050	3,600	3,820	5,600 e	14,900	21,400	22,200	22,900
23.....	16,800 e	10,500	7,100	5,250	4,050	3,600	3,840	5,800 e	15,500	21,400	22,300	23,200
24.....	16,500 e	10,300	7,050	5,200	4,000	3,600	3,860	6,100 e	16,000	21,400	22,300	23,400
25.....	16,300 e	10,100	7,050	5,100	3,950	3,600	3,880	6,300 e	16,600	21,400	22,400	23,700
26.....	16,000 e	10,000	7,000	5,150	3,900	3,600	3,900	6,600 e	17,100	21,400	22,400	24,000
27.....	15,900 e	9,900	7,000	5,100	3,900	3,600	3,950	6,940 a	17,700	21,300	22,300	24,000
28.....	15,600 e	9,700	7,000	4,950	3,900	3,600	4,000	6,970	18,400	21,400	22,200	24,100
29.....	15,300 e	9,500	6,950	4,900	-	3,600	4,040	7,100	18,800	21,400	22,200	24,000
30.....	15,000 e	9,300	6,900	4,850	-	3,600	4,080	7,370	19,300	21,400	22,200	24,000
31.....	14,900 e	-	6,850	4,800	-	3,600	-	7,630	-	21,500	22,200	-
Total	546,400	360,500	237,700	178,400	119,400	113,750	113,120	164,100	380,900	653,900	683,000	675,700
Mean	17,600	12,000	7,670	5,750	4,260	3,670	3,770	5,290	12,700	21,100	22,000	22,500
Acre-feet	1,084,000	715,100	471,500	353,900	236,800	225,600	224,400	325,500	755,500	1,297,000	1,355,000	1,340,000

For the Year..... Maximum instantaneous discharge, 24,300 cfs at 4 p.m. on September 26
 Minimum daily discharge, 3,600 cfs, March 20 to 31
 Mean discharge, 11,600 cfs
 Total discharge, 8,384,000 ac-ft

Ice conditions November 6 to May 14.

a - Manual gauge observations.

e - Estimated.

YUKON RIVER AT CARMACKS - STATION No. 9AH-1

Location: Lat. 62° 05' 45", long. 136° 16' 18", Yukon Territory, at Whitehorse-Mayo Highway bridge, three-quarters of a mile upstream from Carmacks.

Drainage Area: 33,600 square miles.

Gauge: Recording, installed in October 1959 three-quarters of a mile upstream from former manual gauge location.

Period of Record: Mainly continuous, July 1951 to September 1967.

Mean Discharge: (15 years) 26,400 cfs.

Extremes Recorded: Maximum daily discharge, 127,000 cfs on June 24, 1962. Minimum daily discharge, 4,800 cfs, March 15 to 27, 1952.

Revisions: 1951 to 1956, WRP 128.

Remarks: Records excellent during open-water periods and fair during ice periods.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	35,600	20,800	16,700	14,900	9,600	9,900	7,300	9,500	57,300	76,600	52,100	38,200
2.....	35,500	20,900	16,500	14,900	9,800	9,750	7,300	9,800	58,800	74,600	50,900	38,400
3.....	35,300	20,700	16,300	14,800	10,000	9,600	7,300	10,200	59,100	73,100	50,400	38,700
4.....	35,300	20,400	15,900	14,600	10,100	9,500	7,300	10,700	60,000	72,000	49,500	38,800
5.....	35,700	19,900	15,700	14,500	10,200	9,350	7,300	11,000	61,300	71,000	48,800	39,000
6.....	36,700	19,600	15,200	14,300	10,300	9,200	7,300	11,800	61,400	70,000	47,900	38,900
7.....	36,500	18,700	15,000	14,000	10,300	9,000	7,350	12,200	67,600	68,400	47,200	38,600
8.....	36,400	18,000	14,800	13,800	10,400	8,900	7,380	12,800	69,300	66,500	46,500	38,400
9.....	36,800	17,400	14,500	13,600	10,400	8,700	7,400	13,500	67,400	64,000	45,900	38,400
10.....	36,800	16,700	14,100	13,300	10,400	8,600	7,400	14,000	68,400	63,100	45,700	38,600
11.....	37,200	16,000	13,900	13,000	10,400	8,500	7,400	14,800	72,200	61,800	45,200	38,700
12.....	37,100	15,400	13,800	12,800	10,400	8,450	7,450	15,500	74,300	61,100	44,800	38,500
13.....	36,800	14,800	13,700	12,600	10,400	8,350	7,500	16,400	74,500	60,600	44,600	38,200
14.....	37,000	14,400	13,700	12,400	10,400	8,200	7,550	17,300	74,900	59,000	44,000	38,500
15.....	37,200	14,200	12,800	12,200	10,400	8,100	7,600	18,000	74,000	58,800	43,500	38,400
16.....	36,800	14,000	14,000	11,900	10,400	7,950	7,600	19,500	76,800	58,700	43,000	38,500
17.....	36,800	13,900	14,200	11,700	10,400	7,850	7,650	20,500	78,800	58,200	42,600	38,800
18.....	36,700	13,900	14,400	11,400	10,400	7,700	7,650	21,800	79,900	57,500	42,000	38,700
19.....	36,100	14,000	14,600	11,100	10,400	7,600	7,700	22,500	80,900	56,900	41,600	38,800
20.....	35,700	14,400	14,700	10,800	10,400	7,500	7,800	24,000	82,300	55,700	41,200	39,100
21.....	35,200	14,800	14,800	10,600	10,400	7,400	7,850	25,000	82,700	55,100	41,100	39,500
22.....	34,400	15,100	14,900	10,300	10,300	7,350	8,000	28,200	84,400	54,200	40,800	39,600
23.....	34,100	15,500	15,000	10,100	10,300	7,300	8,100	30,300	86,600	53,500	40,500	39,700
24.....	33,800	15,800	15,100	9,990	10,200	7,250	8,200	30,900	86,500	53,000	40,200	40,000
25.....	33,000	16,100	15,100	9,600	10,200	7,250	8,300	32,000	84,700	52,000	40,000	40,300
26.....	32,100	16,400	15,200	9,400	10,100	7,300	8,500	34,000	83,600	51,300	39,900	40,300
27.....	31,000	16,500	15,100	9,300	10,100	7,300	8,600	34,500	83,300	51,800	39,800	40,600
28.....	25,000	16,700	15,000	9,250	10,000	7,300	8,800	35,900	83,400	53,700	39,500	40,600
29.....	21,000	16,800	15,000	9,250	-	7,300	9,000	39,000	82,600	53,000	39,100	40,300
30.....	20,500	16,900	15,000	9,350	-	7,300	9,200	44,200	79,900	52,400	38,800	40,200
31.....	20,600	-	15,000	9,400	-	7,300	-	55,100	-	52,800	38,500	-
Total	1,048,700	498,700	460,700	369,140	287,100	253,050	233,780	694,900	2,236,900	1,871,000	1,355,600	1,173,300
Mean	33,800	16,600	14,900	11,900	10,300	8,160	7,790	22,400	74,600	60,400	43,700	39,100
Acre-feet	2,080,000	989,200	913,800	732,200	569,500	501,900	463,700	1,378,000	4,437,000	3,711,000	2,689,000	2,327,000

For the Year.....Maximum instantaneous discharge, 88,000 cfs at 9.15 p.m. on June 23
 Minimum daily discharge, 7,250 cfs on March 24 and 25
 Mean discharge, 28,700 cfs
 Total discharge, 20,790,000 ac-ft

Ice conditions October 28 to May 19.

YUKON RIVER ABOVE WHITE RIVER NEAR DAWSON - STATION No. 9CD-1

Location: Lat. 63° 08' 59", long. 139° 33' 10", Yukon Territory, two and one-half miles above confluence of White and Yukon Rivers, sixty-four miles south of Dawson.

Drainage Area: 58,400 square miles.

Gauge: Recording, installed in September 1965, fourteen and one-half miles downstream from former manual gauge location.

Period of Record: Miscellaneous measurements only in 1965 water year; mainly continuous, September 1956 to September 1964 and October 1965 to September 1967. Records prior to 1962 were published under the title "Yukon River at Kirkman Creek near Stewart River" and from 1962 to 1965 under the title "Yukon River at Kirkman Creek".

Mean Discharge: (8 years) 44,100 cfs.

Extremes Recorded: Maximum daily discharge, 272,000 cfs on June 25, 1962. Minimum daily discharge, 8,000 cfs on March 31, 1959.

Remarks: Records good during open-water periods and fair during ice period.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	44,400 ^e	26,200	20,700	19,000	12,000	12,300	8,750	12,500	142,000	133,000	89,200	55,200
2.....	44,500 ^e	26,100	20,300	18,800	12,100	12,100	8,800	13,000	151,000	129,000	88,800	56,200
3.....	44,600 ^a	25,900	20,100	18,500	12,200	12,000	8,800	13,900	158,000	128,000	88,200	56,700
4.....	44,800	25,200	20,000	18,200	12,400	11,800	8,800	14,600	164,000	127,000	86,400	57,700
5.....	45,000	24,600	19,300	18,000	12,700	11,500	8,800	15,400	168,000	123,000	83,700	59,000
6.....	45,400	24,000	19,000	17,900	12,900	11,400	8,850	16,300	173,000	120,000	81,400	59,500
7.....	46,600	23,200	18,700	17,500	13,000	11,300	8,900	17,300	172,000	116,000	79,200	60,200
8.....	47,100	22,000	18,200	17,100	13,100	11,100	8,950	18,500	168,000	111,000	76,800	59,700
9.....	47,100	21,200	18,000	17,000	13,200	10,900	9,000	20,000	161,000	106,000	75,800	59,300
10.....	47,600	20,200	17,500	16,700	13,200	10,600	9,000	22,800	151,000	102,000	74,400	60,400
11.....	48,400	19,900	17,400	16,200	13,200	10,500	9,050	25,000	146,000	99,800	72,200	60,100
12.....	48,900	19,000	17,500	16,000	13,100	10,400	9,100	27,000	146,000	98,000	69,900	59,300
13.....	48,900	18,400	17,800	15,600	13,100	10,300	9,150	31,500	143,000	98,600	67,600	58,100
14.....	48,300	18,200	18,100	15,200	13,100	10,200	9,200	37,000	140,000	99,300	66,300	57,200
15.....	47,600	18,000	18,500	15,000	13,100	10,100	9,300	46,000	138,000	95,100	66,200	56,600
16.....	47,800	17,900	19,000	14,800	13,100	10,000	9,400	59,700	133,000	95,300	65,100	56,500
17.....	47,100	17,900	19,400	14,300	13,100	9,950	9,450	63,800	133,000	94,800	65,100	56,500
18.....	46,600	18,000	19,700	14,000	13,100	9,800	9,600	61,700	134,000	94,600	65,100	56,600
19.....	46,300	18,200	19,800	13,700	13,100	9,700	9,620	61,100	136,000	96,000	64,200	56,600
20.....	45,800	18,500	19,900	13,300	13,100	9,600	9,700	71,600	138,000	96,200	62,900	56,600
21.....	44,500	19,000	19,900	13,100	13,000	9,550	9,800	67,800	141,000	92,100	62,300	57,080
22.....	43,600	19,300	19,900	12,900	12,900	9,420	9,950	70,500	141,000	89,500	62,300	57,900
23.....	43,200	19,800	19,900	12,600	12,900	9,400	10,000	79,500	142,000	86,200	62,700	57,900
24.....	42,100	20,000	19,900	12,300	12,800	9,300	10,200	84,300	143,000	83,700	61,300	57,900
25.....	39,000	20,800	19,800	12,100	12,800	9,200	10,300	86,700	139,000	81,900	60,000	58,000
26.....	36,500	20,800	19,800	11,900	12,800	9,100	10,500	91,400	137,000	80,300	57,900	57,900
27.....	32,500	21,000	19,700	11,800	12,700	9,020	10,600	95,100	135,000	82,900	57,300	57,000
28.....	27,000	21,100	19,600	11,800	12,600	9,000	11,100	99,400	135,000	85,000	56,600	56,600
29.....	26,000	21,000	19,500	11,800	-	8,900	11,700	103,000	136,000	88,800	55,900	56,700
30.....	25,800	20,900	19,300	11,900	-	8,850	12,000	109,000	137,000	90,000	55,300	56,300
31.....	26,000	-	19,100	12,000	-	8,800	-	122,000	-	89,500	54,800	-
Total	1,319,000	626,300	595,300	461,000	360,400	316,090	288,370	1,657,400	4,381,000	3,112,600	2,134,900	1,731,200
Mean	42,500	20,900	19,200	14,900	12,900	10,200	9,610	53,500	146,000	100,000	68,900	57,700
Acre-feet	2,616,000	1,242,000	1,181,000	914,400	714,900	627,000	572,000	3,287,000	8,690,000	6,174,000	4,235,000	3,434,000

For the Year..... Maximum instantaneous discharge, 179,000 cfs at 4.15 p.m. on June 5
Minimum daily discharge, 8,750 cfs on April 1
Mean discharge, 46,500 cfs
Total discharge, 33,690,000 ac-ft

Ice conditions October 25 to May 15.

a - Manual gauge observation.

e - Estimated.

YUKON RIVER AT DAWSON - STATION No. 9EB-1

7

Location: Lat. 64° 04' 12", long. 139° 25' 30", Yukon Territory, twelve hundred feet upstream from city garbage dump, one and one-quarter miles below mouth of Klondike River.

Drainage Area: 106,000 square miles.

Gauge: Manual; relocated in April 1961 approximately one mile downstream from former location.

Period of Record: Gauge heights only, June to September 1944; discharges, continuous, March 1945 to September 1952 and August to October 1954, and mainly continuous, June 1956 to September 1967. Prior to October 1964, records were published under Station No. 9EA-1.

Mean Discharge: (17 years) 78,400 cfs.

Extremes Recorded: Maximum daily discharge, 526,000 cfs on June 11, 1964. Minimum daily discharge, 6,350 cfs on February 22 and 23, 1951.

Remarks: Records good during open-water periods and fair during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	62,200	30,000	<u>27,200</u>	<u>23,600</u>	<u>13,000</u>	<u>14,100</u>	<u>11,000</u>	<u>16,400</u>	269,000	<u>241,000</u>	<u>180,000</u> e	110,000
2.....	62,200	<u>31,000</u>	27,000	23,000	13,200	14,000	11,100	17,800	305,000	240,000	178,000	118,000
3.....	61,900	31,000	26,800	22,800	13,400	14,000	11,200	19,500	313,000	234,000	175,000	123,000
4.....	62,000	30,500	26,500	22,400	13,600	13,900	11,200	21,000	341,000	227,000	170,000	128,000
5.....	61,600	30,000	25,800	21,800	13,800	13,700	11,300	23,000	340,000	217,000	163,000	132,000
6.....	61,300	29,000	25,500	21,300	14,200	13,600	11,300	25,000	<u>347,000</u>	208,000	154,000	130,000
7.....	60,000	28,000	25,100	20,300	14,500	13,400	11,400	27,500	<u>343,000</u>	200,000	149,000	127,000
8.....	59,200	27,000	24,600	19,800	14,800	13,000	11,400	30,000	336,000	191,000	148,000	122,000
9.....	58,300	26,000	24,000	19,400	<u>14,900</u>	<u>12,800</u>	<u>11,500</u>	<u>33,000</u>	<u>302,000</u>	<u>178,000</u>	<u>147,000</u>	<u>124,000</u> e
10.....	57,600	25,200	23,500	18,900	<u>14,900</u>	12,700	11,500	36,000	289,000	168,000	143,000	125,000
11.....	57,600	24,600	22,800	18,500	14,800	12,600	11,600	40,000	282,000	167,000	134,000	<u>132,000</u>
12.....	57,000 e	24,000	22,400	18,000	14,700	12,400	11,700	43,000	295,000	165,000	132,000	126,000
13.....	56,500 e	23,800	<u>22,000</u>	17,500	14,600	12,200	11,800	47,000	261,000	183,000	<u>130,000</u> e	124,000
14.....	56,000 e	23,400	22,000	17,000	14,500	12,000	11,900	52,000	260,000	207,000	129,000	121,000
15.....	55,500 e	23,200	22,000	16,500	14,400	11,800	12,000	57,000	250,000	205,000	131,000	120,000
16.....	55,000 e	<u>23,100</u>	22,000	16,000	14,200	11,600	12,100	66,000	230,000	185,000	132,000	119,000 e
17.....	54,500 e	23,100	22,500	15,500	14,000	11,500	12,200	78,000	<u>223,000</u>	183,000	139,000	118,000 e
18.....	54,000 e	23,300	23,000	15,200	14,000	11,400	12,300	90,000	228,000	190,000	149,000	116,000
19.....	53,500 e	23,600	23,400	14,800	14,000	11,300	12,400	94,000	238,000	205,000	<u>148,000</u> e	114,000 e
20.....	53,000 e	23,800	23,800	14,600	14,000	11,200	12,500	105,000	247,000	189,000	148,000	112,000 e
21.....	51,000 e	24,200	24,000	14,400	14,100	11,100	12,700	110,000	256,000	182,000	139,000	110,000 e
22.....	49,000 e	24,800	24,400	14,200	14,200	11,000	12,900	123,000	256,000	177,000	145,000 e	109,000 e
23.....	47,000 e	25,200	24,800	14,000	14,300	11,000	13,100	137,000	262,000	169,000	151,000	108,000
24.....	45,000 e	25,700	24,800	13,800	14,300	10,900	13,300	<u>154,000</u> e	263,000	158,000	132,000	106,000
25.....	41,000 e	26,000	24,800	13,400	14,400	<u>10,800</u>	13,500	171,000	256,000	<u>150,000</u>	131,000	104,000 e
26.....	38,000 e	26,400	24,800	13,200	14,200	10,800	13,800	177,000	252,000	157,000	127,000	102,000
27.....	35,000 e	26,800	24,800	13,000	14,100	10,800	14,000	191,000	250,000	169,000	122,000	100,000 e
28.....	31,500	27,000	24,800	13,000	14,100	10,800	14,500	194,000	238,000	179,000	120,000	98,600
29.....	29,000	27,100	24,400	13,000	-	10,900	15,000	202,000	234,000	178,000	117,000	95,900
30.....	<u>28,500</u>	27,200	24,200	<u>12,900</u>	-	10,900	<u>15,500</u>	211,000	245,000	180,000 e	114,000	<u>92,500</u> e
31.....	29,000	-	24,000	12,900	-	11,000	-	<u>230,000</u>	-	181,000	<u>109,000</u>	-
Total	1,582,900	784,000	751,700	524,700	397,200	373,200	371,700	2,821,200	8,211,000	5,863,000	4,386,000	3,467,000
Mean	51,100	26,100	24,200	16,900	14,200	12,000	12,400	91,000	274,000	189,000	141,000	116,000
Acre-feet	3,140,000	1,555,000	1,491,000	1,041,000	787,800	740,200	737,300	5,596,000	16,290,000	11,630,000	8,700,000	6,877,000

For the Year.....Maximum daily discharge, 347,000 cfs on June 6
Minimum daily discharge, 10,800 cfs, March 25 to 28
Mean discharge, 80,900 cfs
Total discharge, 58,590,000 ac-ft

Ice conditions October 28 to May 21.

e - Estimated.

MARSH LAKE NEAR WHITEHORSE - STATION No. 9AB-4

Location: Lat. 60° 30' 44", long. 134° 19' 22", Yukon Territory, twelve miles east-southeast of control dam and twenty-nine miles southeast of Whitehorse.

Gauge: Recording; installed in July 1966. Elevations are referred to Geodetic Survey of Canada datum, Publication 24-B (1960).

Period of Record: Periods of varying length, 1950 to 1967.

Extremes Recorded: Maximum daily elevation, 2,155.08 feet on August 25, 1961. Minimum daily elevation, 2,143.94 feet on May 18, 1966.

Daily Elevations in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	51.26	49.66	47.79	46.60	45.58	45.13	44.66	44.66	45.76	50.72	51.55	52.41
2.....	51.29	49.65	47.74	46.57	45.56	45.12	44.66	44.62	45.86	50.74	51.58	52.47
3.....	51.28	49.48	47.69	46.54	45.51	45.10	44.66	44.62	45.96	50.74	51.59	52.49
4.....	51.25	49.46	47.66	46.51	45.41	45.10	44.66	44.62	46.08	50.74	51.61	52.52
5.....	51.17	49.34	47.60	46.45	45.36	45.11	44.72	44.66	46.24	50.76	51.66	52.51
6.....	51.22	49.26	47.58	46.43	45.35	45.12	44.79	44.68	46.36	50.76	51.69	52.51
7.....	51.22	49.16	47.56	46.33	45.33	45.13	44.86	44.70	46.50	50.76	51.76	52.48
8.....	51.25	49.11	47.52	46.33	45.31	45.14	44.91	44.69	46.60	50.73	51.81	52.46
9.....	51.26	48.99	47.48	46.30	45.29	45.14	45.00	44.68	46.69	50.71	51.86	52.46
10.....	51.23	48.96	47.47	46.26	45.28	45.14	45.05	44.70	46.81	50.66	51.90	52.44
11.....	51.12	48.86	47.45	46.26	45.28	45.13	45.09	44.72	46.96	50.60	51.98	52.40
12.....	51.04	48.76	47.39	46.23	45.28	45.08	45.13	44.66	47.06	50.61	52.08	52.39
13.....	51.05	48.67	47.38	46.20	45.27	45.16	45.13	44.80	47.22	50.66	52.14	52.44
14.....	51.02	48.63	47.34	46.16	45.27	45.06	45.18	44.85	47.38	50.71	52.18	52.37
15.....	50.92	48.64	47.31	46.11	45.26	45.04	45.16	44.91	47.56	50.81	52.22	52.36
16.....	50.85	48.66	47.28	46.07	45.26	45.03	44.99	44.91	47.76	50.90	52.22	52.53
17.....	50.78	48.65	47.25	46.04	45.25	45.02	44.96	44.94	47.91	50.98	52.23	52.81
18.....	50.64	48.63	47.20	46.01	45.24	45.00	44.94	45.01	48.13	51.04	52.32	53.11
19.....	50.57	48.58	47.15	45.96	45.23	44.99	44.94	45.04	48.32	51.09	52.33	53.33
20.....	50.50	48.53	47.11	45.93	45.23	44.96	44.94	45.06	48.56	51.16	52.35	53.43
21.....	50.42	48.44	47.09	45.88	45.20	44.92	44.94	45.10	48.78	51.20	52.40	53.47
22.....	50.29	48.39	47.05	45.88	45.20	44.91	44.91	45.13	49.03	51.19	52.42	53.49
23.....	50.26	48.37	46.95	45.82	45.18	44.89	44.89	45.16	49.28	51.16	52.42	53.52
24.....	50.16	48.36	46.90	45.80	45.19	44.86	44.86	45.19	49.53	51.16	52.45	53.48
25.....	50.06	48.30	46.80	45.76	45.17	44.85	44.81	45.21	49.77	51.19	52.46	53.43
26.....	49.96	48.23	46.80	45.74	45.16	44.82	44.80	45.24	50.01	51.25	52.46	53.42
27.....	49.89	48.10	46.70	45.71	45.16	44.79	44.76	45.26	50.26	51.26	52.45	53.34
28.....	49.81	48.04	46.68	45.66	45.14	44.76	44.74	45.27	50.46	51.28	52.40	53.26
29.....	49.74	47.98	46.67	45.61	-	44.75	44.69	45.34	50.56	51.34	52.37	53.16
30.....	49.70	47.88	46.64	45.61	-	44.71	44.67	45.47	50.71	51.39	52.38	53.09
31.....	49.63	-	46.60	45.60	-	44.70	-	45.58	-	51.46	52.39	-

For the Year.....Maximum instantaneous elevation, 53.54 feet at 6.15 p.m. on September 22
Minimum instantaneous elevation, 44.58 feet at 9 p.m. on April 2

Add 2,100.00 to obtain elevation in feet, Geodetic Survey of Canada Publication 24-B (1960).

M'CLINTOCK RIVER NEAR WHITEHORSE - STATION No. 9AB-8

9

Location: Lat. 60° 36' 56", long. 134° 27' 19", Yukon Territory, about four miles north of Alaska Highway bridge and twenty-two miles east southeast of Whitehorse.

Drainage Area: 597 square miles.

Gauge: Recording.

Period of Record: Periods of varying length, October 1955 to September 1967.

Mean Discharge: (5 years) 350 cfs.

Extremes Recorded: Maximum instantaneous discharge, 3,260 cfs on May 22, 1957 (from high water mark). Minimum daily discharge, 60 cfs, March 29 to April 12, 1959.

Remarks: Records excellent during open-water periods and poor during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	477 e	300	212	159	130	115	107	160	2,390	901	483	553
2.....	480 e	297	208	158	129	115	107	180	2,170	851	465	541
3.....	499 e	294	206	157	128	115	107	220	2,110	806	455	529
4.....	492 e	290	204	156	126	114	107	250	2,120	766	445	521
5.....	500 e	285	202	155	125	114	107	300	2,230	733	425	521
6.....	500 e	283	200	154	124	114	107	400	2,300	709	417	531
7.....	497 e	281	198	153	122	113	107	480	2,040	685	413	537
8.....	490 e	278	196	152	120	113	107	540	1,860	651	425	541
9.....	480 e	274	194	151	120	112	107	600	1,750	625	441	515
10.....	470 e	270	192	150	120	112	107	630	1,700	616	453	471
11.....	460 e	267	190	149	120	112	107	670 a	1,680	604	463	497
12.....	445 e	264	188	148	120	111	107	711	1,650	600	459	509
13.....	440 e	261	186	147	120	111	107	752	1,560	597	477	497
14.....	430 e	258	184	146	120	110	107	742	1,480	616	491	495
15.....	425 e	255	184	145	120	110	107	730	1,450	646	501	485
16.....	415 e	254	182	144	120	110	108	836	1,420	663	511	445
17.....	405 e	253	182	143	120	110	109	928	1,440	649	519	393
18.....	395 e	252	180	142	119	110	110	901	1,430	629	531	372
19.....	385 e	248	180	141	119	110	111	866	1,400	591	539	385
20.....	375 e	246	178	140	118	110	112	901	1,350	543	521	383 e
21.....	370 e	243	178	140	118	110	114	956	1,310	525	517	381 e
22.....	360 e	240	176	140	118	110	116	961	1,280	515	531	379 e
23.....	350 e	236	174	139	117	110	118	918	1,280	501	535	377 e
24.....	340 e	233	172	139	117	110	121	961	1,260	487	525	375 e
25.....	335 e	230	170	138	117	110	124	1,060	1,220	467	525	375 a
26.....	330	227	170	138	116	110	126	1,140	1,160	455	501	373
27.....	325	224	168	136	116	110	130	1,170	1,120	445	515	368
28.....	320	221	166	136	115	109	135	1,250	1,070	445	531	365 e
29.....	315	218	164	134	-	109	143	1,430	1,020	447	539	360 e
30.....	310	215	162	132	-	108	150	2,040	971	493	547	355 e
31.....	305	-	160	130	-	108	-	2,910	-	495	553	-
Total	12,720	7,697	5,706	4,492	3,374	3,445	3,432	26,593	47,221	18,756	15,253	13,429
Mean	410	257	184	145	120	111	114	858	1,570	605	492	448
Acre-feet	25,230	15,270	11,320	8,910	6,690	6,830	6,810	52,750	93,660	37,200	30,250	26,640

For the Year..... Maximum instantaneous discharge, 3,010 cfs at 1.30 p.m. on May 31
 Minimum daily discharge, 107 cfs, April 1 to 15
 Mean discharge, 444 cfs
 Total discharge, 321,600 ac-ft

Ice conditions October 26 to May 10.

a - Manual gauge observations.

e - Estimated.

LUBBOCK RIVER NEAR ATLIN - STATION No. 9AA-7

Location: Lat. 60° 04' 35", long. 133° 51' 30", Yukon Territory, two miles below Tarfu Creek, approximately five miles above mouth and thirty-five miles north of Atlin.

Drainage Area: 650 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurement only in 1952 water year; periods of varying length, 1955 to 1967.

Extremes Recorded: Maximum instantaneous discharge, 662 cfs at 9 p.m. on June 7, 1964. Minimum daily discharge, 19.9 cfs on March 11, 1959.

Remarks: Records fair. Flow may be affected by beaver activity and temporary damming.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	134	-	-	-	-	-	-	160 b	509	264	182	113
2.....	131	-	-	-	-	-	-	170 b	503	262	176	112
3.....	129	-	-	-	-	-	-	180 b	499	257	178	113
4.....	135	-	-	-	-	-	-	193 b	491	253	174	115
5.....	142	-	-	-	-	-	-	205 b	481	243	170	117
6.....	138	-	-	-	-	-	-	220 b	473	238	169	116
7.....	137	-	-	-	-	-	-	242 b	465	228	158	115
8.....	134	-	-	-	-	-	-	266	457	227	154	117
9.....	132	-	-	-	-	-	-	270	446	219	145	125
10.....	130	-	-	-	-	-	-	289	433	218	140	123
11.....	131	-	-	-	-	-	-	310	427	217	136	124
12.....	130	-	-	-	-	-	-	337	415	223	134	123
13.....	126	-	-	-	-	-	-	369	401	240	126	122
14.....	124	-	-	-	-	-	-	409	385	246	123	124
15.....	124	-	-	-	-	-	-	437	380	244	122	126
16.....	124	-	-	132 b	-	-	-	481	377	238	124	130
17.....	124	-	-	-	-	-	-	512	369	230	119	128
18.....	128	-	-	-	-	-	-	526	355	228	118	123
19.....	131	-	-	-	-	-	-	528	343	227	118	124
20.....	132	-	-	-	-	-	-	531	331	220	119	125
21.....	131	-	-	-	-	-	-	531	319	214	115	128
22.....	130 b	-	-	-	-	-	-	521	327	213	114	129
23.....	129 b	-	-	-	-	-	-	517	323	212	116	128
24.....	128 b	-	-	-	-	-	-	513	313	209	113	126
25.....	127 b	-	-	-	-	-	-	503	301	199	112	125
26.....	126 b	-	-	-	-	-	-	490	293	197	110	123 e
27.....	125 b	-	-	-	-	-	-	479	288	192	108	121 e
28.....	124 b	-	-	-	-	-	-	476	280	192	110	120 e
29.....	123 b	-	-	-	-	-	-	473	274	189	109	118 e
30.....	122 b	-	-	-	-	-	-	497	270	195	108	117 e
31.....	121 b	-	-	-	-	-	-	507	-	190	110	-
Total	4,002	-	-	-	-	-	-	12,142	11,528	6,924	4,110	3,650
Mean	129	-	-	-	-	-	-	392	384	223	133	122
Acre-feet	7,940	-	-	-	-	-	-	24,080	22,870	13,730	8,150	7,240

For the Period..... Maximum instantaneous discharge, 533 cfs at 7 a.m. on May 21
Minimum instantaneous discharge, 107 cfs at 2 a.m. on August 30

b - Ice conditions.

e - Estimated.

BENNETT LAKE AT CARCROSS - STATION No. 9AA-4

Location: Lat. 60° 09' 50", long. 134° 42' 20", Yukon Territory, at outlet, on White Pass and Yukon Railway bridge at Carcross.

Gauge: Manual; elevations are referred to Geodetic Survey of Canada datum. Publication 24-B (1960).

Period of Record: Mainly continuous, July 1947 to September 1967.

Extremes Recorded: Maximum daily elevation, 2,155.48 feet on August 25 and 26, 1961. Minimum daily elevation, 2,145.25 feet, April 27 to May 9, 1966.

Daily Elevations in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	51.70	50.05	-	-	-	-	-	46.01	46.11	-	-	-
2.....	-	-	48.15	-	-	-	-	46.01	46.10	-	-	-
3.....	51.68	-	-	47.56	-	46.17	-	46.01	46.11	-	-	-
4.....	51.68	49.95	-	-	-	-	-	46.01	46.10	-	-	-
5.....	51.68	-	-	-	-	-	-	46.01	46.12	-	-	-
6.....	51.65	-	48.10	47.46	46.86	46.12	46.06	46.01	46.13	-	-	-
7.....	51.60	-	-	-	-	-	46.03	46.00	46.13	-	-	-
8.....	51.50	49.75	-	-	-	-	46.03	46.00	46.14	-	-	-
9.....	-	-	-	-	-	-	46.04	46.01	47.14	-	-	-
10.....	51.40	-	-	47.26	46.76	46.07	46.03	46.02	48.13	-	-	-
11.....	51.35	49.55	-	-	-	-	46.06	46.02	48.13	-	-	-
12.....	51.30	-	-	-	-	-	46.06	46.04	48.13	-	-	52.82
13.....	51.25	-	48.01	47.26	46.66	46.02	46.04	46.01	48.13	-	-	-
14.....	51.20	-	-	-	-	-	46.03	46.04	48.12	-	-	-
15.....	51.15	49.45	-	-	-	-	46.03	46.04	48.13	-	-	-
16.....	-	-	47.96	-	-	-	46.03	46.04	48.13	-	-	-
17.....	51.10	-	-	47.21	46.66	45.97	46.04	46.07	48.95	-	-	-
18.....	51.05	49.05	-	-	-	-	46.03	46.07	48.95	-	-	-
19.....	50.95	-	-	-	-	-	46.04	46.07	48.96	-	-	-
20.....	50.85	-	47.86	47.16	46.56	45.92	46.05	46.07	48.97	-	-	-
21.....	50.75	-	-	-	-	-	46.04	46.07	48.97	-	-	-
22.....	50.65	48.75	-	-	-	-	46.03	46.07	49.00	-	-	-
23.....	-	-	47.81	-	-	-	46.03	46.11	49.03	-	-	-
24.....	50.50	-	-	47.06	46.47	45.87	46.03	46.13	49.05	-	-	-
25.....	50.40	48.45	-	-	-	-	46.02	46.13	49.08	-	-	-
26.....	50.30	-	-	-	-	-	46.01	46.19	49.10	-	-	-
27.....	50.20	-	47.76	46.96	46.37	45.82	46.01	46.19	49.13	-	-	-
28.....	50.10	-	-	-	-	-	46.01	46.19	49.14	-	-	-
29.....	50.10	48.25	47.71	-	-	-	46.01	46.28	49.96	-	-	-
30.....	50.10	-	-	-	-	-	46.01	46.47	49.97	-	-	-
31.....	-	-	-	46.96	-	45.77	-	46.06	-	-	-	-

For the Period..... Maximum daily elevation, 52.82 feet on September 12
Minimum daily elevation, 45.77 feet on March 31

Add 2,100.00 to obtain elevation in feet, Geodetic Survey of Canada datum, Publication 24-B (1960).

WHEATON RIVER NEAR CARCROSS - STATION No. 9AA-12

Location: Lat. 60° 08' 05", long. 134° 53' 45", Yukon Territory, three and one-quarter miles above mouth and seven miles southwest of Carcross.

Drainage Area: 337 square miles.

Gauge: Recording.

Period of Record: Periods of varying length, October 1955 to August 1965 and continuous, October 1965 to September 1967.

Extremes Recorded: Maximum daily discharge, 2,420 cfs (estimated) on June 10, 1964. Minimum daily discharge, 31.6 cfs on March 14, 1956.

Remarks: Records good during open-water periods and poor during ice period.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	262	<u>138</u>	<u>83.0</u>	<u>70.0</u>	<u>57.0</u>	<u>50.8</u>	47.5	180	<u>456</u>	539	<u>578</u>	407
2.....	246	135	82.0	68.7	56.5	50.6	47.5	220	503	499	556	396
3.....	234	132	81.5	68.3	56.0	50.4	47.0	240	583	482	521	342
4.....	280	130	81.0	67.8	55.5	50.2	47.0	249	685	465	490	319
5.....	<u>312</u>	128	80.5	67.5	55.0	50.0	47.0	252	1,140	444	478	293
6.....	265	124	80.0	67.2	54.8	49.8	47.0	180	1,270	440	456	271
7.....	246	120	78.8	66.8	54.6	49.6	47.0	149	1,020	423	452	258
8.....	240	118	78.4	66.4	54.4	49.4	47.0	142	815	<u>396</u>	478	255
9.....	223	116	78.2	66.0	54.2	49.2	47.0	165	900	396	530	299
10.....	220	115	78.0	65.0	54.0	49.0	46.5	169	1,180	396	530	287
11.....	209	112	77.5	64.5	53.8	48.9	46.5	175	1,220	478	452	262
12.....	190	110	77.0	64.0	53.6	48.8	46.5	180	1,190	695	407	<u>249</u>
13.....	198	108	76.5	63.5	53.4	48.7	46.5	177	1,230	890	388	271
14.....	190	106	76.0	63.0	53.2	48.6	46.5	173	1,410	<u>1,380</u>	396	262
15.....	184	105	75.5	62.5	53.0	48.5	<u>46.0</u>	177	1,530	895	427	541
16.....	186	104	75.2	62.0	52.8	48.4	46.0	177	1,580	781	407	<u>1,470</u>
17.....	180	102	75.0	61.8	52.6	48.3	46.0	171	1,670	771	415	<u>1,210</u>
18.....	175	100	74.8	61.4	52.4	48.2	47.0	149	1,800	685	423	1,180
19.....	169	98.0	74.5	61.0	52.2	48.1	48.0	144	1,860	569	392	992
20.....	165	95.5	74.2	60.8	52.0	48.0	49.0	144	1,820	552	385	733
21.....	165	93.5	73.9	60.4	52.0	48.0	49.5	142	<u>1,870</u>	534	366	622
22.....	163	92.0	73.5	60.0	52.0	48.0	51.0	<u>135</u>	1,740	552	352	556
23.....	165	90.0	73.0	59.8	52.0	48.0	52.5	135	1,440	552	335	495
24.....	163	88.5	72.5	59.4	52.0	48.0	54.0	140	1,430	525	322	482
25.....	158	87.0	72.0	59.0	52.0	<u>47.5</u>	56.0	155	1,320	495	299	388
26.....	155	86.0	71.8	58.8	51.8	47.5	60.0	159	1,200	521	296	374
27.....	150	85.5	71.5	58.6	51.5	47.5	64.0	159	1,100	543	287	352
28.....	148	85.0	71.2	58.3	<u>51.0</u>	47.5	70.0	188	930	578	277	326
29.....	145	84.0	70.8	58.0	-	47.5	80.0	283	737	631	<u>271</u>	309
30.....	142	<u>83.5</u>	70.5	57.8	-	47.5	<u>90.0</u>	404	605	704	309	303
31.....	140	-	<u>70.2</u>	<u>57.5</u>	-	47.5	-	478	-	654	342	-
Total	6,068	3,171.5	2,348.5	1,945.8	1,495.3	1,508.0	1,565.5	5,991	36,234	18,465	12,617	14,504
Mean	196	106	75.8	62.8	53.4	48.6	52.2	193	1,210	596	407	483
Acre-feet	12,040	6,290	4,660	3,860	2,970	2,990	3,110	11,880	71,870	36,630	25,030	28,770

For the Year.....Maximum instantaneous discharge, 1,960 cfs at 8.30 a.m. on June 19

Minimum daily discharge, 46.0 cfs, April 15 to 17

Mean discharge, 290 cfs

Total discharge, 210,100 ac-ft

Ice conditions October 25 to May 4.

WATSON RIVER NEAR CARCROSS - STATION No. 9AA-9

Location: Lat. 60° 13' 00", long. 134° 43' 50", Yukon Territory, four miles upstream from mouth and four miles north of Carcross.

Drainage Area: 452 square miles.

Gauge: Recording; installed in April 1966, twenty feet upstream from former manual gauge location.

Period of Record: Miscellaneous measurements, 1962 to 1965; mainly continuous, February 1955 to September 1961 and December 1965 to September 1967.

Extremes Recorded: Maximum daily discharge, 1,120 cfs on June 17, 1959. Minimum daily discharge, 10.0 cfs on April 1, 1956.

Remarks: Records good during open-water periods and fair during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	190	130	81.0	65.0	55.0	49.0	45.9	362	576	400	407	184
2.....	198 e	128	80.0	64.5	54.8	49.0	45.8	474	489	372	368	191
3.....	205 e	126	79.0	64.3	54.6	49.0	45.8	484	463	354	346	206
4.....	220 e	123	78.0	64.0	54.4	49.0	45.7	516	480	336	332	206
5.....	225 e	120	77.5	63.5	54.2	49.0	45.6	533	531	324	314	202
6.....	225 e	118	77.0	63.2	53.9	49.0	45.5	516	727	314	304	194
7.....	222 e	116	76.5	63.0	53.7	48.9	45.5	468	754	306	298	192
8.....	218 e	114	76.0	62.5	53.5	48.8	45.5	386	623	295	285	190
9.....	212 e	112	75.5	62.0	53.3	48.7	45.5	266	526	285	272	192
10.....	208 e	110	75.0	61.5	53.0	48.5	45.5	222	564	277 a	274	201
11.....	202 e	108	74.0	61.0	52.8	48.3	45.5	230	682	280 e	277	199
12.....	198 e	106	73.5	60.5	52.6	48.2	45.5	217	709	350 e	264	191
13.....	190 e	104	73.0	60.2	52.4	48.0	45.5	205	695	420 e	256	187
14.....	188 e	102	72.5	60.0	52.2	47.8	45.5	199	679	543 a	242	187
15.....	184 e	100	72.0	59.5	52.0	47.5	46.0	191	744	807	235	192
16.....	180 e	98.0	71.5	59.0	51.8	47.4	46.0	177	772	598	228	222
17.....	176 e	97.0	71.0	58.5	51.5	47.3	46.5	174	805	516	220	388
18.....	172 e	95.0	70.5	58.0	51.2	47.2	47.0	173	843	475	212	446
19.....	168 e	94.0	70.0	57.5	51.0	47.1	47.5	153	910	440	210	528
20.....	166 e	93.0	69.5	57.0	50.5	47.0	48.0	142	917	404	211	470
21.....	162 e	91.0	69.0	57.0	50.3	46.9	49.0	140	879	376	216	405
22.....	160 e	90.0	68.5	56.6	50.0	46.8	50.0	138	893	362	212	378
23.....	156 e	89.0	68.0	56.5	49.9	46.7	55.0	132	810	352	208	357
24.....	153 e	87.5	67.6	56.4	49.7	46.6	55.5	125	713	340	212	333
25.....	150	86.0	67.2	56.3	49.5	46.5	56.0	135	691	328	222	316
26.....	148	85.0	67.0	56.2	49.3	46.4	58.0	151	639	314	202	300
27.....	146	84.0	66.5	56.1	49.1	46.3	60.0	163	593	304	198	288
28.....	142	83.5	66.3	56.0	49.0	46.2	75.0	167	554	312	191	276
29.....	140	83.2	66.0	55.6	-	46.1	110	195	502	330	185	264
30.....	138	82.9	65.5	55.5	-	46.0	240	276	448	335	185	252
31.....	134	-	65.0	55.3	-	46.0	-	540	-	415	185	-
Total	5,576	3,056.1	2,229.6	1,842.2	1,455.2	1,475.2	1,727.8	8,250	20,211	11,864	7,771	8,137
Mean	180	102	71.9	59.4	52.0	47.6	57.6	266	674	383	251	271
Acre-feet	11,060	6,060	4,420	3,650	2,890	2,930	3,430	16,360	40,090	23,530	15,410	16,140

For the Year..... Maximum instantaneous discharge, 978 cfs at 2 p.m. on June 20
 Minimum daily discharge, 45.5 cfs, April 6 to 14
 Mean discharge, 202 cfs
 Total discharge, 146,000 ac-ft

Ice conditions October 25 to April 30.

a - Manual gauge observations.

e - Estimated.

TAGISH CREEK NEAR CARCROSS - STATION No. 9AA-11

Location: Lat. 60° 17' 30", long. 134° 17' 55", Yukon Territory, two miles upstream from mouth and two miles southwest of Tagish.
Drainage Area: 31 square miles.

Gauge: Recording, installed on October 15, 1965 at former manual gauge location.

Period of Record: Miscellaneous measurements, 1963 to 1965; mainly open water, 1955 to 1962 and continuous, October 1965 to September 1967.

Extremes Recorded: Maximum daily discharge, 144 cfs on May 21, 1957. Minimum daily discharge, 1.1 cfs on January 29, 1959.

Revisions: 1955 and 1956, WRP 124.

Remarks: Records good during open-water periods and poor during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	9.4	<u>6.5</u>	<u>5.8</u>	<u>5.2</u>	<u>4.6</u>	<u>4.6</u>	<u>5.2</u>	30.0	<u>40.7</u>	11.6	<u>10.0</u>	7.7
2.....	9.1	6.5	5.8	5.1	4.6	4.6	5.3	35.0	38.5	11.6	9.8	7.6
3.....	8.8 a	6.4	5.7	5.1	4.6	4.6	5.3	38.0	34.1	11.4	9.7	7.7
4.....	9.7 e	6.4	5.7	5.1	4.6	4.6	5.4	40.0	31.7	11.1	9.5	7.6
5.....	<u>10.6 a</u>	6.4	5.7	5.1	4.6	4.6	5.4	39.0	29.4	11.1	9.2	7.5
6.....	10.1	6.4	5.6	5.0	4.6	4.6	5.4	37.0	27.4	10.7	9.3	7.5
7.....	9.8	6.4	5.6	5.0	4.6	4.6	5.5	32.0	23.8	10.5	9.2	<u>7.4</u>
8.....	9.6	6.3	5.6	5.0	4.6	4.6	5.6	30.0	21.4	10.5	9.0	7.5
9.....	9.3	6.3	5.6	5.0	4.6	4.6	5.6	34.5	20.3	10.0	9.0	8.1
10.....	9.1	6.2	5.6	5.0	4.6	4.6	5.7	35.5	20.8	<u>9.8</u>	8.9	8.0
11.....	8.8	6.2	5.6	5.0	4.6	4.6	5.8	33.5	22.4	11.4	8.7	7.8
12.....	8.7	6.2	5.5	5.0	4.6	4.6	5.9	31.5	20.5	11.0	8.5	7.6
13.....	8.3	6.2	5.5	5.0	4.6	4.7	6.0	37.0	18.3	15.8	8.5	7.7
14.....	8.1	6.2	5.5	5.0	4.6	4.7	6.1	30.6	17.4	<u>23.2</u>	8.4	7.8
15.....	8.2	6.1	5.4	4.9	4.6	4.7	6.2	29.2	18.4	21.4	8.3	8.3
16.....	8.1	6.1	5.4	4.9	4.6	4.7	6.3	24.6	20.9	18.4	8.2	9.7
17.....	8.0	6.1	5.4	4.9	4.6	4.7	6.4	24.3	18.9	15.3	8.0	9.5
18.....	8.0	6.1	5.4	4.9	4.6	4.8	6.5	18.8	20.1	13.3	7.8	9.3
19.....	7.1	6.0	5.4	4.8	4.6	4.8	6.6	19.4	16.2	12.4	7.8	10.2
20.....	7.0	6.0	5.4	4.8	4.6	4.8	6.7	19.2	15.4	11.8	8.1	9.6
21.....	7.0	6.0	5.4	4.8	4.6	4.8	6.8	19.8	14.4	11.4	8.1	9.7
22.....	7.0	6.0	5.3	4.8	4.6	4.8	7.0	<u>16.4</u>	14.7	11.4	8.0	9.2
23.....	6.9	6.0	5.3	4.8	4.6	4.9	7.2	16.9	15.0	11.3	8.1	9.8
24.....	6.9	5.9	5.3	4.8	4.6	4.9	7.4	18.6	14.0	11.0	8.1	10.0
25.....	6.8	5.9	5.3	4.8	4.6	4.9	7.7	27.1	13.3	10.6	8.0	9.7
26.....	6.8	5.9	5.3	4.8	4.6	5.0	8.0	24.1	13.1	10.3	7.8	10.1
27.....	6.7	<u>5.8</u>	<u>5.2</u>	4.7	4.6	5.0	8.4	24.1	12.6	10.5	7.7	10.1
28.....	6.7	5.8	5.2	4.7	4.6	5.0	9.0	30.4	12.6	11.1	7.7	9.8
29.....	<u>6.6</u>	5.8	5.2	4.7	-	5.1	9.6	38.9	12.5	11.1	7.7	9.8
30.....	<u>6.6</u>	5.8	5.2	4.7	-	5.1	<u>13.0</u>	<u>59.6</u>	<u>11.8</u>	10.7	7.6	<u>10.3</u>
31.....	6.6	-	5.2	<u>4.6</u>	-	<u>5.2</u>	-	53.0	-	10.6	<u>7.5</u>	-
Total	250.4	183.9	169.1	152.0	128.8	147.8	201.0	948.0	610.6	382.3	262.2	262.6
Mean	8.1	6.1	5.5	4.9	4.6	4.8	6.7	30.6	20.4	12.3	8.5	8.8
Acre-feet	497	365	335	301	255	293	399	1,880	1,210	758	520	521

For the Year..... Maximum instantaneous discharge, 70.0 cfs at 5.10 p.m. on May 30
 Minimum daily discharge, 4.6 cfs, January 31 to March 12
 Mean discharge, 10.1 cfs
 Total discharge, 7,330 ac-ft

Ice conditions October 18 to May 13.

a - Manual gauge observations.

e - Estimated.

TAKHINI RIVER AT OUTLET OF KUSAWA LAKE - STATION No. 9AC-4

15

Location: Lat. 60° 36' 37", long. 136° 07' 26", Yukon Territory, at outlet of Kusawa Lake, thirty-seven miles west of Whitehorse.

Drainage Area: 1,570 square miles.

Gauge: None at outlet of Kusawa Lake. Gauge heights obtained at Station No. 9AC-5, Kusawa Lake near Whitehorse.

Period of Record: Miscellaneous measurements, 1956 to 1958; mainly continuous, August 1952 to September 1956 and June 1958 to September 1967. Records prior to 1965 were published under the title "Takhini River at Outlet of Kusawa Lake near Whitehorse".

Mean Discharge: (7 years) 1,940 cfs.

Extremes Recorded: Maximum instantaneous discharge, 9,880 cfs at 6.30 a.m. on June 21, 1964. Minimum daily discharge, 128 cfs on April 11 and 12, 1956.

Remarks: Records excellent except for estimated flows which are good.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	2,440	1,450	722	418	272	270	217	227	810	7,410	5,410	4,010
2.....	2,430	1,410	681	414	269	270	223	227	895	7,040	5,370	4,000
3.....	2,390	1,350	671	406	265	270	217	231	1,030 e	6,740	5,320	4,010
4.....	2,380	1,330	671	402	260	270	221	235	1,190 e	6,440	5,320	4,010
5.....	2,390	1,270	646	386	256	267	223	240	1,350 e	6,140	5,300	3,980
6.....	2,400	1,240	637	386	254	264	225	244	1,520 e	5,860	5,250	3,920
7.....	2,340	1,240	627	369	254	270	227	249	1,690 e	5,540	5,230	3,850
8.....	2,370	1,210	613	348	249	270	227	254	1,870 e	5,300	5,210	3,740
9.....	2,290	1,180	599	344	249	261	231	254	2,070 e	5,050	5,270	3,750
10.....	2,260	1,170	585	348	247	252	231	261	2,260 e	4,850	5,200	3,690
11.....	2,190	1,120	576	341	247	252	233	269	2,470 e	4,730	5,200	3,620
12.....	2,180	1,080	580	341	252	252	235	285 e	2,690 e	4,700	5,210	3,590
13.....	2,140	1,020	580	344	254	243	233	300 e	2,980 a	4,730	5,100	3,550
14.....	2,130	966	576	338	254	240	235	340 e	3,250	4,960	5,020	3,450
15.....	2,030	978	576	338	256	234	233	365 e	3,580	5,120	4,900	3,580
16.....	1,970	966	539	327	258	234	227	390 e	3,890	5,210	4,860	4,110
17.....	1,960	954	534	320	260	227	229	430 e	4,230	5,300	4,800	4,630
18.....	1,820	930	525	317	260	229	229	464 a	4,630	5,300	4,840	5,150
19.....	1,820	906	516	314	260	227	229	444	5,070	5,320	4,780	5,740
20.....	1,750	894	507	311	258	227	229	426	5,560	5,300	4,790	5,950
21.....	1,740	876	498	305	258	229	227	430	6,080	5,150	4,750	6,010
22.....	1,720	870	479	299	256	229	223	464	6,640	5,090	4,650	5,950
23.....	1,670	876	479	290	254	228 e	225	464	7,150	4,960	4,620	5,800
24.....	1,610	864	470	288	254	227 e	225	484	7,530	5,010	4,550	5,620
25.....	1,590	832	466	288	254	226 e	225	500	7,820	4,930	4,440	5,360
26.....	1,560	788	454	281	252	226 e	225	520	8,060	4,970	4,340	5,230
27.....	1,530	776	438	276	254	223 e	225	544	8,110	4,930	4,220	4,910
28.....	1,490	766	430	272	254	221 e	227	552	8,210	4,940	4,060	4,680
29.....	1,410	749	430	272	-	220 e	227	576	8,090	5,070	4,040	4,420
30.....	1,470	733	426	274	-	219	227	635	7,850	5,200	3,990	4,270
31.....	1,400	-	422	274	-	221	-	725	-	5,340	3,960	-
Total	60,870	30,794	16,953	10,231	7,170	7,498	6,810	12,029	128,575	166,630	150,000	134,580
Mean	1,960	1,030	547	330	256	242	227	388	4,290	5,380	4,840	4,490
Acre-feet	120,700	61,080	33,630	20,290	14,220	14,870	13,510	23,860	255,000	330,500	297,500	266,900

For the Year..... Maximum instantaneous discharge, 8,280 cfs at 11.40 a.m. on June 28
 Minimum instantaneous discharge, 213 cfs at 12.30 p.m. on April 1
 Mean discharge, 2,010 cfs
 Total discharge, 1,452,000 ac-ft

Ice conditions November 15 to March 22.

a - Manual gauge observations.

e - Estimated.

Location: Lat. 60° 51' 08", long. 135° 44' 21", Yukon Territory, at Alaska Highway bridge, six miles upstream from Little River and twenty-nine miles northwest of Whitehorse.

Drainage Area: 2,640 square miles.

Gauge: Recording; installed in October 1964.

Period of Record: Mainly continuous, August 1948 to September 1967.

Mean Discharge: (18 years) 2,230 cfs.

Extremes Recorded: Maximum daily discharge, 17,200 cfs on September 2, 1949. Minimum daily discharge, 153 cfs on February 19, 1951.

Remarks: Records good. The drainage area of 2,640 square miles does not include an area of 76.6 square miles deducted for the Fish Lake Diversion. Flow affected by diversion.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	2,720	1,610	820	570	323	358	292	423	2,480	7,920	6,100	4,280
2.....	2,740	1,630	811	540	319	346	292	482	2,600	7,680	6,080	4,310
3.....	2,700	1,590	802	544	314	361	292	537	2,820	7,420	5,980	4,310
4.....	2,700	1,510	793	515	308	361	292	570	2,880	7,200	5,940	4,350
5.....	2,700 e	1,480	784	506	302	365	298	600	3,540	7,020	5,920	4,340
6.....	2,700 e	1,350	762	511	332	373	304	680	3,870	6,790	5,820	4,300
7.....	2,700 e	1,250	745	516	351	376	310	740	3,710	6,510	5,780	4,200
8.....	2,610 e	1,100	722	521	341	370	289	790	3,550	6,290	5,770	4,140
9.....	2,610 e	980	694	526	343	362	307	880	3,710	6,060	5,730	4,070
10.....	2,610 e	960	704	510	342	352	313	950	4,160	5,850	5,730	4,060
11.....	2,610 e	970	685	494	342	342	315	1,030	4,530	5,700	5,690	3,970
12.....	2,520 e	990	681	478	341	333	317	1,040	4,660	5,690	5,680	3,920
13.....	2,520 e	1,000	666	492	340	330	304	1,050	4,890	5,740	5,610	3,920
14.....	2,500 e	1,010	672	483	339	327	292	1,060	5,240	6,230	5,500	3,780
15.....	2,380	953	678	459	344	324	296	1,060	5,440	6,320	5,400	3,800
16.....	2,310	1,060	683	313	349	332	300	1,040	5,840	6,350	5,320	4,170
17.....	2,240	1,040	676	432	354	329	304	1,030	6,330	6,380	5,240	4,780
18.....	2,160	1,110	670	403	339	335	323	1,010	6,700	6,270	5,230	5,360
19.....	2,100	1,060	663	398	341	337	317	1,020	7,300	6,220	5,190	5,800
20.....	2,060	1,040	651	393	344	339	330	1,000	7,610	6,130	5,160	6,050
21.....	1,980	1,010	631	488	352	342	337	1,030	8,020	6,030	5,190	6,100
22.....	1,910	988	625	382	353	345	334	1,030	8,190	5,870	5,080	6,130
23.....	1,900	993	575	376	362	349	335	1,020	8,360	5,770	5,010	6,060
24.....	1,830	999	592	370	370	336	336	1,050	8,540	5,720	4,960	5,950
25.....	1,760	988	589	364	374	324	338	1,110	8,660	5,700	4,860	5,800
26.....	1,740	977	585	359	378	312	345	1,170	8,680	5,630	4,760	5,690
27.....	1,830	894	581	346	383	299	352	1,230	8,700	5,630	4,640	5,460
28.....	1,990	832	578	347	370	300	358	1,290	8,590	5,650	4,470	5,250
29.....	1,660	858	576	337	-	291	370	1,480	8,420	5,730	4,380	4,980
30.....	1,600	839	574	332	-	285	389	2,110	8,240	5,980	4,350	4,800
31.....	1,610	-	571	328	-	271	-	2,700	-	6,080	4,250	-
Total	70,000	33,071	20,839	13,533	9,650	10,406	9,581	32,212	176,260	193,540	164,820	144,130
Mean	2,260	1,100	672	437	345	336	319	1,040	5,880	6,240	5,320	4,800
Acre-feet	138,800	65,600	41,330	26,840	19,140	20,640	19,000	63,890	349,600	383,900	326,900	285,900

For the Year..... Maximum instantaneous discharge, 8,760 cfs at 9.30 a.m. on June 26

Minimum daily discharge, 271 cfs on March 31

Total discharge, 2,410 cfs

Mean discharge, 1,742,000 ac-ft

Ice conditions November 13 to May 13.

e - Estimated.

KUSAWA LAKE NEAR WHITEHORSE - STATION No. 9AC-5

17

Location: Lat. 60° 35' 16", long. 136° 08' 38", Yukon Territory, on west shore, one and seven-tenths miles from outlet and thirty-eight miles west-southwest of Whitehorse.

Gauge: Recording; gauge heights are referred to an assumed datum.

Period of Record: Periods of varying length, 1952 to 1967.

Extremes Recorded: Maximum instantaneous gauge height, 10.49 feet at 4 p.m. on July 4, 1953. Minimum daily gauge height, 1.64 feet on April 30, 1965.

Remarks: For discharge from Kusawa Lake, see Takhini River at outlet of Kusawa Lake near Whitehorse.

Daily Gauge Heights in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	5.75	4.46	3.33	2.67	2.22	2.13	1.82	1.87	3.42	9.21	8.30	7.32
2.....	5.73	4.40	3.25	2.66	2.21	2.13	1.85	1.87	3.59	9.05	8.28	7.31
3.....	5.69	4.31	3.23	2.64	2.19	2.13	1.82	1.89	-	8.92	8.25	7.32
4.....	5.68	4.28	3.23	2.63	2.17	2.13	1.84	1.91	-	8.79	8.25	7.32
5.....	5.69	4.20	3.18	2.59	2.15	2.12	1.85	1.93	-	8.66	8.24	7.29
6.....	5.70	4.16	3.16	2.59	2.14	2.11	1.86	1.95	-	8.53	8.21	7.24
7.....	5.63	4.16	3.14	2.54	2.14	2.13	1.87	1.97	-	8.37	8.20	7.17
8.....	5.66	4.11	3.11	2.48	2.12	2.13	1.87	1.99	-	8.24	8.19	7.07
9.....	5.56	4.07	3.08	2.47	2.12	2.10	1.89	1.99	-	8.09	8.22	7.08
10.....	5.53	4.05	3.05	2.48	2.11	2.07	1.89	2.02	-	7.96	8.18	7.03
11.....	5.44	3.96	3.03	2.46	2.11	2.07	1.90	2.05	-	7.88	8.18	6.96
12.....	5.42	3.90	3.04	2.46	2.13	2.07	1.91	-	-	7.86	8.19	6.94
13.....	5.38	3.80	3.04	2.47	2.14	2.04	1.90	-	-	7.88	8.12	6.90
14.....	5.36	3.71	3.03	2.45	2.14	2.03	1.91	-	6.62	8.03	8.07	6.81
15.....	5.24	3.78	3.03	2.45	2.15	2.01	1.90	-	6.93	8.13	7.99	6.93
16.....	5.16	3.76	2.95	2.42	2.16	2.01	1.87	-	7.21	8.19	7.97	7.40
17.....	5.15	3.74	2.94	2.40	2.17	1.98	1.88	-	7.50	8.24	7.93	7.81
18.....	4.98	3.70	2.92	2.39	2.17	1.99	1.88	2.66 a	7.81	8.24	7.95	8.15
19.....	4.98	3.66	2.90	2.38	2.17	1.98	1.88	2.61	8.10	8.25	7.91	8.47
20.....	4.89	3.64	2.88	2.37	2.16	1.98	1.88	2.56	8.38	8.24	7.92	8.57
21.....	4.87	3.61	2.86	2.35	2.16	1.99	1.87	2.57	8.63	8.15	7.89	8.60
22.....	4.84	3.60	2.82	2.33	2.15	1.99	1.85	2.66	8.88	8.11	7.82	8.57
23.....	4.77	3.61	2.82	2.30	2.14	1.96	1.86	2.66	9.10	8.03	7.80	8.50
24.....	4.69	3.59	2.80	2.29	2.14	1.95	1.86	2.71	9.26	8.06	7.75	8.41
25.....	4.66	3.53	2.79	2.29	2.14	1.93	1.86	2.75	9.38	8.01	7.67	8.27
26.....	4.61	3.45	2.76	2.26	2.13	1.90	1.86	2.80	9.48	8.04	7.59	8.20
27.....	4.57	3.43	2.72	2.24	2.14	1.88	1.86	2.86	9.50	8.01	7.49	8.00
28.....	4.51	3.41	2.70	2.22	2.14	1.86	1.87	2.88	9.54	8.02	7.36	7.84
29.....	4.40	3.38	2.70	2.22	-	1.85	1.87	2.94	9.49	8.10	7.34	7.65
30.....	4.49	3.35	2.69	2.23	-	1.83	1.87	3.07	9.39	8.18	7.30	7.53
31.....	4.39	-	2.68	2.23	-	1.84	-	3.25	-	8.26	7.27	-

For the Year..... Maximum instantaneous gauge height, 9.57 feet at 11.40 a.m. on June 28
Minimum instantaneous gauge height, 1.80 feet at 12.30 p.m. on April 1

a - Manual gauge observation.

TESLIN LAKE AT TESLIN - STATION No. 9AE-2

Location: Lat. 60° 09' 52", long. 132° 42' 12", Yukon Territory, at bridge across Nisutlin Bay, six-tenths of a mile east of Teslin.

Gauge: Manual; elevations are referred to Geodetic Survey of Canada datum, Publication 24-B (1960).

Period of Record: Periods of varying length, 1944 to 1949 and 1951 to 1967.

Extremes Recorded: Maximum daily elevation, 2,252.93 feet, on July 3, 1962. Minimum daily elevation, 2,228.63 feet on February 9, 1952.

Remarks: For discharge from Teslin Lake, see Teslin River near Teslin.

Daily Elevations in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	36.89	-	-	-	-	-	-	31.62	41.54	-	-	36.66
2.....	37.00	-	-	-	-	-	-	31.58	-	45.33	-	-
3.....	37.08	36.68	-	-	-	-	-	31.57	42.51	-	39.52	36.51
4.....	32.17	-	-	-	-	-	-	31.66	-	44.84	-	-
5.....	37.26	36.17	-	33.68	-	32.75	-	-	43.63	44.61	39.31	36.50
6.....	37.42	-	-	-	-	-	-	31.78	44.47	-	-	-
7.....	37.62	-	-	-	33.10	-	-	-	45.18	44.13	-	-
8.....	-	-	-	-	-	32.70	-	-	45.38	-	38.96	36.45
9.....	37.75	-	-	33.61	-	-	32.01	32.25	-	43.56	-	-
10.....	37.88	-	34.36	-	-	-	-	-	46.05	43.16	-	36.43
11.....	37.99	-	-	-	33.06	32.66	-	32.68	-	42.79	-	-
12.....	-	-	34.29	-	-	-	31.93	-	46.50	42.39	-	36.40
13.....	-	-	-	-	-	-	-	33.34	46.62	-	38.47	-
14.....	37.93	-	-	33.46	-	32.54	-	-	-	42.15	-	36.37
15.....	32.93	-	34.36	-	33.02	-	31.84	-	46.72	42.02	-	-
16.....	37.91	35.28	-	-	-	-	-	-	46.79	-	38.01	36.35
17.....	37.89	-	34.39	-	-	-	-	-	-	41.75	-	-
18.....	37.84	-	-	-	32.95	32.44	-	-	46.99	41.46	37.83	-
19.....	37.79	35.11	-	-	-	-	-	-	-	-	-	36.33
20.....	37.70	-	34.30	-	-	-	-	36.29	47.20	-	-	-
21.....	37.63	-	-	-	32.91	-	31.75	-	-	41.21	-	-
22.....	37.53	-	-	-	-	32.32	-	36.95	47.16	-	-	36.37
23.....	37.44	-	-	-	-	-	-	-	-	-	-	-
24.....	37.33	-	34.02	-	-	-	31.71	37.46	47.14	40.86	-	36.40
25.....	37.20	-	-	-	32.83	-	-	-	-	-	-	-
26.....	-	-	-	-	-	32.23	31.63	38.21	-	40.48	-	-
27.....	-	-	33.88	-	-	-	-	-	-	-	-	-
28.....	-	-	-	33.27	-	-	-	39.23	-	-	-	36.47
29.....	36.71	-	-	-	-	32.16	31.58	-	-	40.04	-	-
30.....	-	-	33.70	-	-	-	-	-	-	-	-	36.56
31.....	-	-	-	-	-	-	-	-	-	-	-	-

For the Year.....Maximum daily elevation, 47.20 feet on June 20
Minimum daily elevation, 31.57 feet on May 3

Add 2,200.00 to obtain elevation in feet, Geodetic Survey of Canada datum, Publication 24-B (1960).

TESLIN RIVER NEAR TESLIN - STATION No. 9AE-1

Location: Lat. 60° 29' 07", long. 133° 18' 04", Yukon Territory, at Johnsons Crossing, two and one-half miles below outlet of Teslin Lake and thirty miles northwest of Teslin.

Drainage Area: 11,700 square miles.

Gauge: Manual.

Period of Record: April to September 1944, September 1945 to August 1946, February 1948 to November 1954 and April 1955 to September 1967.

Mean Discharge: (18 years) 10,600 cfs.

Extremes Recorded: Maximum daily discharge, 65,000 cfs on June 28, 1962. Minimum daily discharge, 1,350 cfs on February 24, 1956.

Remarks: Records good during open-water periods and fair during periods of estimated flows and ice effect. For elevations on Teslin Lake, see Teslin Lake at Teslin.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	12,000	11,100	6,570	4,930	3,030	2,620	2,300	2,320	24,100	40,400	19,200	10,400
2.....	12,300	10,800	6,500	4,900	3,000	2,610	2,300	2,350	25,900	39,700	19,100	10,200
3.....	12,400	10,500	6,400	4,850	2,990	2,600	2,300	2,600	28,000	37,000	18,600	10,100
4.....	12,500	10,300	6,350	4,800	2,980	2,590	2,290	2,500	30,500	35,900	18,300	9,970
5.....	12,600	10,200	6,280	4,780	2,960	2,570	2,290	2,520	32,300	34,900	17,800	9,840
6.....	12,900	10,200	6,200	4,750	2,930	2,540	2,280	2,570	34,200	34,000	17,400	9,900
7.....	13,200	9,950	6,130	4,700	2,900	2,520	2,280	2,650	35,300	32,700	17,100	9,930
8.....	13,700	9,750	6,050	4,600	2,890	2,510	2,270	2,800	38,400	32,000	16,800	9,990
9.....	14,000	9,380	6,010	4,550	2,880	2,500	2,260	3,100	39,500	30,900	16,500	10,000
10.....	14,100	9,530	5,970	4,490	2,870	2,490	2,250	3,230	41,300	29,900	16,200	9,860
11.....	14,200	9,490	5,940	4,430	2,840	2,480	2,240	3,610	42,200	28,600	15,900	9,770
12.....	14,200	9,310	5,860	4,350	2,820	2,470	2,240	4,080	43,100	27,700	15,200	9,750
13.....	14,300	9,330	5,810	4,250	2,810	2,460	2,230	4,690	44,000	27,300	14,700	9,790
14.....	14,300	9,310	5,780	4,150	2,800	2,450	2,240	5,190	44,000	27,200	14,600	9,770
15.....	14,300	9,290	5,750	4,050	2,790	2,440	2,250	5,990	45,000	26,700	14,300	9,750
16.....	14,200	9,270	5,680	4,000	2,780	2,430	2,250	6,690	45,400	26,300	14,100	9,770
17.....	14,100	8,320	5,610	3,900	2,780	2,420	2,260	7,600	45,400 e	26,000	14,000	9,790
18.....	13,800	7,600	5,570	3,800	2,770	2,410	2,260	8,160	45,500	25,700	13,600	9,750
19.....	13,800	7,560	5,540	3,750	2,760	2,400	2,270	9,550	45,600	25,300	13,200	9,750
20.....	13,700	7,520	5,500	3,650	2,750	2,400	2,270	10,200	46,100	25,100	12,800	9,770
21.....	13,700	7,480	5,450	3,550	2,730	2,390	2,270	11,000	46,200	24,300	12,800	9,790
22.....	13,600	7,440	5,390	3,450	2,720	2,380	2,270	11,800	46,300	23,600	12,500	9,880
23.....	13,400	7,400	5,350	3,400	2,710	2,370	2,280	12,500	46,500	23,200	12,300	9,990
24.....	13,000	7,290	5,300	3,350	2,700	2,360	2,280	13,000	46,400	22,500	11,800	10,100
25.....	12,700	7,160	5,230	3,300	2,690	2,350	2,280	13,600	45,800	21,700	11,600	10,200
26.....	12,600	6,870	5,200	3,250	2,680	2,340	2,280	14,700	45,000	21,400	11,500	10,100
27.....	12,300	6,820	5,150	3,200	2,670	2,330	2,290	15,800	44,400 e	21,000	11,300	10,100
28.....	11,900	6,720	5,100	3,180	2,650	2,320	2,290	16,700	43,900	20,700	11,100	10,200
29.....	11,600	6,620	5,050	3,120	-	2,310	2,300	17,800	42,400	20,100	11,000	10,200
30.....	11,500	6,580	5,000	3,100	-	2,300	2,300	19,800	42,100	19,800	10,800	10,100
31.....	11,300	-	4,960	3,060	-	2,300	-	21,500	-	19,500	10,600	-
Total	408,200	259,090	176,680	123,640	78,880	75,660	68,170	260,600	1,224,800	851,100	446,700	298,510
Mean	13,200	8,640	5,700	3,990	2,820	2,440	2,270	8,410	40,800	27,500	14,400	9,950
Acre-feet	809,700	513,900	350,400	245,200	156,500	150,100	135,200	516,900	2,429,000	1,688,000	886,000	592,100

For the Year..... Maximum daily discharge, 46,500 cfs on June 23
 Minimum daily discharge, 2,230 cfs on April 13
 Mean discharge, 11,700 cfs
 Total discharge, 8,473,000 ac-ft

Ice conditions November 28 to May 1.

e - Estimated.

TESLIN RIVER NEAR WHITEHORSE - STATION No. 9AF-1

Location: Lat. 61° 29' 25", long. 134° 46' 35", Yukon Territory, approximately eight miles upstream from mouth, nine miles downstream from Mason Landing and fifty-four miles north-northeast of Whitehorse.

Drainage Area: 13,700 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurements only, 1951 and 1953 to 1955; mainly continuous, October 1955 to September 1967.

Mean Discharge: (8 years) 11,700 cfs.

Extremes Recorded: Maximum instantaneous discharge, 65,700 cfs at 12.15 p.m. on June 28, 1962. Minimum daily discharge, 1,800 cfs, February 24 to March 4, 1956.

Remarks: Records excellent during open-water periods and fair during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	13,700	12,500	7,400	5,300	3,380	3,010	2,820	4,600	27,900	43,700	21,700	12,700
2.....	13,700	12,300	7,300	5,250	3,320	3,010	2,840	4,800	29,200	42,400	21,300	12,600
3.....	13,800	12,200	7,200	5,150	3,310	3,000	2,860	4,950	29,800	41,200	21,000	12,400
4.....	14,000	12,100	7,100	5,100	3,300	3,000	2,900	5,000	31,800	39,900	20,600	12,400
5.....	14,600	12,000	7,050	5,000	3,270	2,990	2,910	5,000	34,100	38,900	20,100	12,300
6.....	14,700	11,800	7,000	4,950	3,250	2,960	2,920	5,000	36,600	37,800	19,600	12,100
7.....	14,900	11,600	6,900	4,880	3,240	2,940	2,930	5,080	38,300	36,800	19,200	12,000
8.....	15,200	11,300	6,800	4,800	3,230	2,930	2,940	5,200	39,600	35,700	18,900	11,900
9.....	15,500	11,300	6,750	4,720	3,220	2,920	2,940	5,450	41,100	34,700	18,600	11,900
10.....	15,800	11,300	6,650	4,650	3,210	2,910	2,950	5,750	42,800	33,600	18,100	11,900
11.....	16,000	11,300	6,600	4,600	3,200	2,900	2,960	6,200	44,100	32,600	17,700	11,800
12.....	16,000	11,300	6,550	4,580	3,190	2,900	3,000	6,900	44,900	32,000	17,400	11,700
13.....	16,100	11,200	6,500	4,450	3,190	2,890	3,020	7,300	45,700	31,000	17,000	11,600
14.....	16,300	11,100	6,400	4,350	3,180	2,880	3,090	7,900	46,300	30,400	16,700	11,700
15.....	16,300	11,000	6,350	4,250	3,140	2,880	3,130	8,500	46,800	30,100	16,400	11,600
16.....	16,300	10,800	6,300	4,150	3,120	2,870	3,200	9,200	47,700	29,600	16,000	11,700
17.....	16,300	10,400	6,200	4,050	3,110	2,870	3,250	10,000	48,100	29,000	15,700	11,600
18.....	16,100	10,000	6,150	4,000	3,110	2,870	3,300	11,100	48,600	28,600	15,300	11,600
19.....	15,900	9,400	6,100	3,930	3,100	2,860	3,360	12,000	49,000	28,000	15,000	11,600
20.....	15,500	9,000	6,020	3,850	3,100	2,850	3,450	12,700	49,100	27,400	14,800	11,700
21.....	15,200	8,800	5,950	3,800	3,100	2,830	3,550	13,200	49,500	26,900	14,500	11,500
22.....	15,000	8,650	5,900	3,720	3,090	2,820	3,600	14,100	50,000	26,400	14,300	11,400
23.....	14,800	8,370	5,800	3,690	3,080	2,820	3,700	14,900	50,600	25,900	14,000	11,600
24.....	14,500	8,200	5,750	3,660	3,050	2,810	3,800	15,500	49,800	25,100	13,800	11,700
25.....	14,100	8,050	5,700	3,640	3,040	2,810	3,900	16,500	49,200	24,600	13,600	11,600
26.....	13,900	8,000	5,620	3,500	3,030	2,810	4,000	17,600	48,300	24,200	13,500	11,600
27.....	13,500	7,850	5,580	3,480	3,030	2,810	4,080	18,300	47,600	23,700	13,300	11,700
28.....	13,300	7,700	5,500	3,450	3,010	2,810	4,200	19,500	47,000	23,200	13,200	11,600
29.....	13,100	7,600	5,450	3,420	-	2,810	4,350	20,900	45,900	22,800	13,100	11,600
30.....	12,900	7,450	5,400	3,390	-	2,810	4,450	23,400	44,600	22,600	13,000	11,700
31.....	12,700	-	5,350	3,380	-	2,810	-	26,400	-	22,200	12,900	-
Total	459,700	304,570	195,320	131,140	88,600	89,390	100,400	342,930	1,304,000	951,000	510,300	354,800
Mean	14,800	10,200	6,300	4,230	3,160	2,880	3,350	11,100	43,500	30,700	16,500	11,800
Acre-feet	911,800	604,100	387,400	260,100	175,700	177,300	199,100	680,200	2,586,000	1,886,000	1,012,000	703,700

For the Year..... Maximum instantaneous discharge, 51,100 cfs at 2.30 a.m. on June 23
 Minimum daily discharge, 2,810 cfs, March 24 to 31
 Mean discharge, 13,200 cfs
 Total discharge, 9,583,000 ac-ft

Ice conditions October 22 to May 3.

Estimated May 4 to 25.

BIG SALMON RIVER NEAR CARMACKS - STATION No. 9AG-1

21

Location: Lat. 61° 52' 45", long. 134° 52' 00", Yukon Territory, two and one-half miles above mouth, and approximately forty-nine miles east-southeast of Carmacks (corrected).

Drainage Area: 2,640 square miles.

Gauge: Recording, relocated in June 1962 one and one-quarter miles upstream from original location (corrected).

Period of Record: Miscellaneous measurements only, 1951 and 1959 to 1961; periods of varying length, 1953 to 1958 and 1962 to 1967.

Mean Discharge: (5 years) 2,480 cfs.

Extremes Recorded: Maximum instantaneous discharge, 24,200 cfs at 12.15 p.m. on June 23, 1962. Minimum daily discharge, 470 cfs, April 4 to 12, 1957.

Remarks: Records excellent except for flows less than 4,500 cfs which are poor.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	1,760	1,190	910	780	660	565	510	500	11,800	8,220	5,980	3,110
2.....	1,760	1,170	910	770	660	565	510	500	11,700	7,380	5,710	3,310
3.....	1,780	1,140	910	770	660	560	510	500	11,300	7,080	5,490	3,320
4.....	1,800	1,120	900	770	650	560	510	500	11,500	7,280	5,260	3,360
5.....	1,810	1,100	900	760	650	560	509	510	12,000	7,120	5,070	3,480
6.....	1,830	1,090	890	760	640	555	505	520	13,300	7,000	4,910	3,390
7.....	1,860	1,080	890	750	640	550	505	530	13,600	6,640	4,720	3,260
8.....	1,900	1,070	890	750	640	550	505	580	11,500	6,230	4,570	3,160
9.....	1,980	1,060	880	750	630	545	500	600	10,300	5,930	4,440	3,160
10.....	2,100	1,040	880	740	630	545	500	660	10,800	5,840	4,320	3,220
11.....	2,230	1,020	870	740	620	540	500	740	12,500	5,890	4,210	3,310
12.....	2,280	1,020	860	740	620	540	500	900	12,500	5,710	4,440	3,190
13.....	2,210	1,010	860	730	620	540	500	1,100	11,600	5,730	4,400	3,160
14.....	2,100	1,010	860	730	610	535	500	1,250	11,300	5,890	4,090	3,210
15.....	2,030	1,000	850	720	610	535	500	1,430	11,900	6,020	3,970	3,220
16.....	1,990	1,000	850	720	605	530	500	1,740	13,300	5,930	3,840	3,500
17.....	1,900	990	840	710	600	530	500	2,100	13,900	5,770	3,720	3,760
18.....	1,860	980	840	710	600	530	500	2,500	14,600	5,730	3,620	3,650
19.....	1,790	980	840	700	600	530	500	2,860	15,100	5,490	3,530	3,630
20.....	1,760	970	830	700	595	525	500	2,750	15,000	5,220	3,530	3,760
21.....	1,700	970	830	700	590	525	500	3,060	15,100	5,010	3,440	3,670
22.....	1,630 a	960	820	690	590	520	500	3,500	15,600	4,860	3,440	3,500
23.....	1,600	960	820	690	590	520	500	3,460	16,100	4,930	3,390	3,380
24.....	1,530	950	810	690	580	520	500	3,690	15,100	5,240	3,360	3,320
25.....	1,490	950	800	690	580	520	500	4,420	14,000	4,930	3,360	3,260
26.....	1,410	940	800	686	580	520	500	4,720	13,700	5,030	3,340	3,180
27.....	1,360	940	800	685	570	520	500	4,880	12,500	5,930	3,340	3,140
28.....	1,370	930	790	680	570	515	500	5,450	12,600	6,690	3,340	3,100
29.....	1,280	930	790	680	-	515	500	7,120	11,200	6,300	3,260	3,050
30.....	1,230	920	780	670	-	510	500	10,000	9,730	6,230	3,180	3,000
31.....	1,200	-	780	670	-	510	-	12,000	-	6,350	3,110	-
Total	54,530	30,490	26,280	22,331	17,190	16,585	15,064	85,070	385,130	187,600	126,380	99,760
Mean	1,760	1,020	848	720	614	535	502	2,740	12,800	6,050	4,080	3,330
Acre-feet	108,200	60,480	52,130	44,290	34,100	32,900	29,880	168,700	763,900	372,100	250,700	197,900

For the Year..... Maximum instantaneous discharge, 16,200 cfs at 7 a.m. on June 23
 Minimum daily discharge, 500 cfs, April 9 to May 4
 Mean discharge, 2,920 cfs
 Total discharge, 2,115,000 ac-ft

Ice conditions October 27 to May 18.

Estimated October 1 to 21 and 23 to 26.

a - Manual gauge observation.

Location: Lat. 61° 59' 12", long. 132° 26' 54", Yukon Territory, fifty feet upstream from steel suspension bridge and one mile downstream from mouth of Ross River.

Drainage Area: 7,670 square miles.

Gauge: Recording; installed in April 1960 one mile upstream from former manual gauge location.

Period of Record: Miscellaneous measurement only in 1951; mainly open water, October 1954 to September 1959 and continuous, December 1959 to September 1967.

Mean Discharge: (7 years) 7,070 cfs.

Extremes Recorded: Maximum instantaneous discharge, 71,000 cfs at 2 p.m. on June 7, 1964 (from high-water mark). Minimum daily discharge, 463 cfs on March 28, 1959.

Remarks: Records good during open-water periods and fair during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	4,220	2,000	1,290	900	680	610	540	1,800	45,700	23,700	10,900	5,730
2.....	4,240	2,000	1,280	900	680	610	540	2,100	50,900	23,300	10,900	5,700
3.....	4,360	1,980	1,260	890	680	600	540	2,450	50,400	21,100	10,600	5,870
4.....	4,460	1,970	1,240	890	670	600	535	2,800	47,400	19,000	10,200	6,300
5.....	4,890	1,950	1,210	880	670	600	534	3,250	44,400	17,500	9,800	6,590
6.....	5,340	1,930	1,200	860	660	600	535	3,800	41,100	16,200	9,280	6,800
7.....	6,360	1,900	1,190	850	660	590	540	4,400	38,700	15,200	8,720	7,080
8.....	6,680	1,880	1,180	840	660	590	540	5,050	36,900	14,000	8,220	6,910
9.....	6,510	1,820	1,160	840	660	590	540	5,900	34,900	13,300	7,860	6,710
10.....	6,360	1,800	1,140	830	660	580	540	6,900	31,600	12,500	7,400	6,480
11.....	6,070	1,780	1,120	820	650	580	540	7,900	29,300	11,900	7,070	6,360
12.....	5,780	1,730	1,110	810	650	580	540	9,000	28,300	11,700	6,940	6,510
13.....	5,420	1,710	1,100	800	640	580	540	10,500	26,700	11,600	7,560	6,590
14.....	5,110	1,690	1,090	800	640	570	540	12,500 ^e	24,300	11,300	8,680	6,480
15.....	4,670	1,650	1,080	790	640	570	540	14,400	22,900	11,000	8,480	6,560
16.....	4,620	1,620	1,070	790	640	560	540	13,800	22,500	11,200	8,160	6,740
17.....	4,390	1,600	1,060	780	640	560	540	15,500	22,600	11,100	7,860	6,710
18.....	4,130	1,580	1,050	770	630	560	540	16,400	23,400	10,600	7,530	6,860
19.....	3,990	1,550	1,030	770	630	560	550	15,400	23,800	10,400	7,130	7,130
20.....	3,810	1,520	1,020	760	630	560	560	14,600	24,000	10,000	6,650	7,200
21.....	3,630	1,510	1,000	750	630	560	580	15,300	24,000	9,440	6,300	7,300
22.....	3,500	1,480	990	750	630	550	620	16,500	23,900	8,950	6,010	7,300
23.....	2,800	1,450	980	740	620	550	660	18,200	23,300	8,620	5,670	7,160
24.....	2,000	1,430	970	740	620	550	700	19,700	22,500	8,320	5,500	6,940
25.....	1,600	1,410	960	730	620	550	760	20,600	21,600	8,090	5,250	6,800
26.....	1,600	1,390	950	720	620	550	870	21,600	20,200	7,960	5,170	6,710
27.....	1,650	1,370	950	720	620	550	1,000	22,700	19,300	8,090	5,170	6,680
28.....	1,900	1,350	940	710	620	550	1,170	23,800	19,700	8,450	5,110	6,590
29.....	2,040	1,330	930	700	-	540	1,370	26,500	20,000	9,110	5,450	6,510
30.....	2,030	1,310	920	690	-	540	1,550	31,300	21,300	9,870	5,900	6,650
31.....	2,010	-	910	682	-	540	-	38,000	-	10,300	5,840	-
Total	126,170	49,690	33,380	24,502	18,050	17,680	20,094	422,650	885,600	383,800	231,310	199,950
Mean	4,070	1,660	1,080	790	645	570	670	13,600	29,500	12,400	7,460	6,660
Acre-feet	250,300	98,560	66,210	48,600	35,800	35,070	39,860	838,300	1,757,000	761,300	458,800	396,600

For the Year:.....Maximum instantaneous discharge, 51,600 cfs at 7.30 p.m. on June 2
 Minimum daily discharge, 534 cfs on April 5
 Mean discharge, 6,610 cfs
 Total discharge, 4,786,000 ac-ft

Ice conditions October 22 to May 19.

e - Estimated.

Location: Lat. 62° 49' 47", long. 136° 34' 50", Yukon Territory, at Pelly River bridge on Whitehorse-Mayo Highway, about one and three-quarter miles downstream from Mica Creek.

Drainage Area: 19,700 square miles.

Gauge: Recording; installed on June 16, 1961, approximately one-quarter mile downstream from former manual gauge location.

Period of Record: Mainly continuous, October 1951 to September 1967.

Mean Discharge: (12 years) 14,300 cfs.

Extremes Recorded: Maximum daily discharge, 152,000 cfs on May 28, 1957. Minimum daily discharge, 1,020 cfs, March 17 to 23, 1956.

Remarks: Records good during open-water periods and fair during ice period.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	8,380	4,100	2,630	2,090	1,870	1,680	1,600	3,000	78,600	45,600	25,400	14,200
2.....	8,500	4,050	2,610	2,080	1,870	1,680	1,600	3,300	86,100	46,300	25,700	14,300
3.....	8,590	4,000	2,590	2,070	1,860	1,670	1,600	4,000	93,600	46,000	25,400	14,500
4.....	8,680	3,900	2,570	2,060	1,860	1,670	1,600	4,600	101,000	43,500	24,800	15,200
5.....	8,800	3,850	2,550	2,050	1,850	1,670	1,600	5,500	105,000	40,700	23,800	16,400
6.....	8,840	3,800	2,530	2,040	1,840	1,670	1,590	6,200	103,000	37,800	23,000	17,500
7.....	9,010	3,750	2,510	2,030	1,830	1,660	1,590	7,000	96,300	34,900	21,900	17,700
8.....	9,360	3,700	2,490	2,020	1,820	1,660	1,590	9,000	88,000	32,700	20,900	17,400
9.....	9,900	3,650	2,470	2,010	1,810	1,660	1,580	9,900 a	81,600	30,200	19,900	17,300
10.....	10,800	3,600	2,450	2,000	1,800	1,660	1,580	11,500 a	75,800	28,500	19,000	17,000
11.....	10,900	3,550	2,430	1,990	1,800	1,650	1,580	13,000 e	71,600	27,300	18,300	16,700
12.....	10,800	3,500	2,410	1,980	1,800	1,650	1,570	15,000 e	68,100	26,500	17,500	16,300
13.....	10,400	3,450	2,390	1,970	1,790	1,650	1,560	16,300	65,000	26,000	16,900	16,000
14.....	9,980	3,400	2,370	1,960	1,790	1,640	1,550	26,000	60,400	25,500	16,500	15,800
15.....	9,540	3,350	2,350	1,950	1,780	1,640	1,540	24,800	55,800	24,900	16,200	15,800
16.....	9,180	3,300	2,330	1,950	1,780	1,640	1,540	26,700	53,100	24,800	16,600	15,800
17.....	8,900	3,250	2,310	1,940	1,770	1,630	1,540	27,300	52,200	24,300	16,700	15,800
18.....	8,500	3,200	2,290	1,940	1,770	1,630	1,540	26,400	52,400	24,400	16,400	16,200
19.....	8,470	3,150	2,270	1,930	1,760	1,630	1,540	26,600	53,600	24,300	16,100	16,200
20.....	7,780	3,100	2,250	1,920	1,750	1,620	1,540	27,000	53,800	23,900	15,800	16,700
21.....	8,050	3,000	2,230	1,920	1,740	1,620	1,540	26,700	53,200	23,600	15,400	16,800
22.....	7,660	2,980	2,210	1,920	1,730	1,620	1,550	27,700	53,000	22,500	15,100	16,600
23.....	6,160	2,940	2,190	1,910	1,720	1,610	1,560	31,400	53,300	21,300	14,500	16,400
24.....	4,740	2,900	2,170	1,910	1,710	1,610	1,600	35,600	51,300	20,600	14,200	16,200
25.....	3,440 a	2,850	2,150	1,900	1,700	1,600	1,650	40,000	49,000	20,100	13,900	15,800
26.....	3,440	2,800	2,150	1,900	1,700	1,600	1,750	42,900	47,600	20,200	13,600	15,400
27.....	3,500	2,780	2,140	1,900	1,690	1,600	1,850	44,800	46,600	20,900	13,400	15,200
28.....	4,000	2,740	2,130	1,880	1,680	1,600	2,100	47,200	46,400	21,500	13,400	14,800
29.....	4,250	2,700	2,120	1,880	-	1,600	2,300	51,200	46,400	22,500	13,300	14,700
30.....	4,250	2,650	2,100	1,880	-	1,600	2,500	58,100	45,500	23,600	13,400	14,400
31.....	4,200	-	2,100	1,880	-	1,600	-	68,900	-	24,400	13,800	-
Total	239,000	99,990	72,490	60,860	49,870	50,720	49,830	767,600	1,987,300	879,300	550,800	479,100
Mean	7,710	3,330	2,340	1,960	1,780	1,640	1,660	24,800	66,200	28,400	17,800	16,000
Acre-feet	474,000	198,300	143,800	120,700	98,920	100,600	98,840	1,523,000	3,942,000	1,744,000	1,092,000	950,300

For the Year..... Maximum instantaneous discharge, 106,000 cfs at 11.45 a.m. on June 5
 Minimum daily discharge, 1,540 cfs, April 15 to 21
 Mean discharge, 14,500 cfs
 Total discharge, 10,490,000 ac-ft

Ice conditions October 26 to May 8.

a - Manual gauge observations.

e - Estimated.

ROSS RIVER AT ROSS RIVER - STATION No. 9BA-1

Location: Lat. 61° 59' 40, long. 132° 22' 40", Yukon Territory, approximately two and one-half miles above confluence with Pelly River.

Drainage Area: 2,800 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurements only, 1958 to 1960; mainly continuous, December 1960 to September 1967.

Extremes Recorded: Maximum daily discharge, 24,400 cfs on June 10, 1964. Minimum daily discharge, 153 cfs (estimated), April 6 to 9, 1967.

Remarks: Records good during open-water periods and fair during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	1,340	600	400	288	214	185	158	500	9,780	5,920	3,780	2,100
2.....	1,350	600	395	285	212	184	157	560	13,100	5,580	3,710	2,080
3.....	1,410	600	390	282	211	183	156	640	16,600	5,410	3,500	2,160
4.....	1,420	600	385	280	210	182	155	720	17,600	5,240	3,300	2,260
5.....	1,460	600	380	278	209	181	154	820	18,000	5,130	3,160	2,340
6.....	1,540	600	375	274	209	180	153	950	17,100	5,020	2,960	2,440
7.....	1,760	590	370	270	205	179	153	1,100	15,800	4,910	2,830	2,480
8.....	1,890	580	365	267	204	178	153	1,200	14,800	4,740	2,670	2,460
9.....	1,910	570	360	265	203	177	153	1,300	13,500	4,580	2,500	2,400
10.....	1,890	560	358	262	202	176	154	1,500	12,200	4,500	2,380	2,360
11.....	1,810	550	365	258	202	175	155	1,750	11,400	4,420	2,320	2,280
12.....	1,740	545	350	255	201	174	155	2,300	10,200	4,250	2,280	2,340
13.....	1,650	540	348	253	200	173	155	2,700	9,380	4,150	2,300	2,340
14.....	1,580	525	342	250	200	172	156	3,500	8,580	4,040	2,500	2,340
15.....	1,500	515	340	248	199	171	156	4,400	7,780	3,930	2,480	2,340
16.....	1,470	510	338	246	198	171	157	5,300	7,380	3,620	2,420	2,300
17.....	1,420	500	334	244	197	170	158	7,000	7,380	3,480	2,400	2,320
18.....	1,420	490	330	242	196	170	159	7,380	7,780	3,330	2,340	2,380
19.....	1,340	485	328	240	195	169	163	7,000	7,380	3,330	2,300	2,480
20.....	1,340	475	322	238	194	168	168	6,620	7,250	3,160	2,220	2,590
21.....	1,280	470	320	232	193	167	172	7,000	7,120	2,960	2,100	2,630
22.....	1,150	462	316	231	192	166	185	7,780	7,000	2,780	2,020	2,630
23.....	1,000	455	314	230	191	165	195	7,780	6,900	2,630	1,950	2,550
24.....	900	445	311	228	191	164	210	7,780	6,800	2,570	1,880	2,480
25.....	700	440	309	226	191	163	220	7,780	6,700	2,520	1,840	2,420
26.....	590	430	305	224	190	163	235	7,780	6,620	2,500	1,840	2,380
27.....	580	425	300	223	189	162	250	7,780	6,500	2,590	1,840	2,360
28.....	580	420	298	221	188	161	300	7,780	6,380	2,720	1,860	2,280
29.....	600	410	295	220	-	160	350	7,780	6,260	2,990	1,980	2,260
30.....	610	405	292	218	-	159	400	7,780	6,090	3,280	2,100	2,280
31.....	610	-	290	216	-	159	-	8,580	-	3,450	2,120	-
Total	39,840	15,397	10,525	7,694	5,586	5,307	5,645	142,840	299,360	119,730	75,880	71,060
Mean	1,290	513	340	248	200	171	188	4,610	9,980	3,860	2,450	2,370
Acre-feet	79,020	30,540	20,880	15,260	11,080	10,530	11,200	283,300	593,800	237,500	150,500	140,900

For the Year..... Maximum daily discharge, 18,000 cfs on June 5

Minimum daily discharge, 153 cfs, April 6 to 9

Mean discharge, 2,190 cfs

Total discharge, 1,585,000 ac-ft

Ice conditions October 22 to May 17.

Estimated May 18 to July 18.

ROSE CREEK BELOW FARO CREEK - STATION No. 9BC-3

25

Location: Lat. 62° 20' 30", long. 133° 24' 30", (revised), Yukon Territory, approximately one thousand feet below Faro Creek and forty-five miles west-northwest of Ross River P.O.

Gauge: Manual.

Period of Record: Mainly continuous, August and September 1966 and December 1966 to September 1967.

Extremes Recorded: Maximum daily discharge, 1,150 cfs on May 31, 1967. Minimum daily discharge, 6.1 cfs on March 10, 1967.

Remarks: Records fair.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	-	-	-	-	-	-	-	-	1,070	105	108	41.0
2.....	-	-	-	-	-	-	-	-	810	99.0	93.0	38.2
3.....	-	-	-	-	-	-	-	-	616	155	87.8	79.4
4.....	-	-	-	-	-	-	6.3 b	-	732	110	82.5	60.5
5.....	-	-	-	-	-	-	-	-	801	129	77.2	59.5
6.....	-	-	12.3 b	-	-	-	-	-	783	121	77.2	62.6
7.....	-	-	-	-	-	-	-	-	512	100	78.3	68.8
8.....	-	-	12.4 b	-	-	-	-	-	323	90.9	82.5	78.3
9.....	-	-	-	-	-	-	-	-	334	90.9	77.2	93.0
10.....	-	-	-	-	-	6.1 b	-	-	591	105	77.2	79.4
11.....	-	-	-	-	-	-	-	-	543	95.4	74.1	71.0
12.....	-	-	-	-	-	-	-	-	292	115	77.2	79.4
13.....	-	-	-	-	-	-	-	-	246	93.0	71.0	71.0
14.....	-	-	-	-	-	-	-	-	292	94.2	68.8	68.8
15.....	-	-	-	-	-	-	-	-	431	135	64.6	72.0
16.....	-	-	-	-	-	-	-	-	467	115	61.5	73.0
17.....	-	-	-	-	-	-	-	-	414	110	59.5	71.0
18.....	-	-	-	-	-	-	-	-	467	105	59.5	77.2
19.....	-	-	-	-	-	-	-	-	337	105	61.5	80.4
20.....	-	-	-	-	-	-	-	-	273	82.5	53.5	72.0
21.....	-	-	-	-	-	-	-	-	278	101	46.8	69.9
22.....	-	-	-	-	-	-	-	-	204	72.0	51.5	66.8
23.....	-	-	-	-	-	-	-	-	200	80.4	53.5	67.8
24.....	-	-	-	-	-	-	-	-	180	86.7	45.8	66.8
25.....	-	-	-	-	-	-	-	-	169	82.5	42.0	64.6
26.....	-	-	-	-	-	-	-	-	196	86.7	42.0	61.5
27.....	-	-	-	-	-	-	-	-	202	82.5	36.3	51.5
28.....	-	-	-	-	-	-	-	792	200	83.6	32.5	61.5
29.....	-	-	-	-	-	-	-	595	163	105	34.4	59.5
30.....	-	-	-	-	-	-	-	1,110	121	173	36.3	57.5
31.....	-	-	-	-	-	-	-	1,150	-	163	34.4	-
Total	-	-	-	-	-	-	-	-	12,247	3,272.3	1,947.6	2,023.9
Mean	-	-	-	-	-	-	-	-	408	106	62.8	67.5
Acre-feet	-	-	-	-	-	-	-	-	24,290	6,490	3,860	4,010

For the Period..... Maximum daily discharge, 1,150 cfs on May 31
Minimum daily discharge, 6.1 cfs on March 10

b - Ice conditions.

KLUANE RIVER AT OUTLET OF KLUANE LAKE - STATION No. 9CA-2

Location: Lat. 61° 25' 37", long. 139° 02' 46", Yukon Territory, at outlet of Kluane Lake, five miles north-northwest of Burwash Landing.

Drainage Area: 1,730 square miles.

Gauge: None at outlet of Kluane Lake. Elevations obtained at Station No. 9CA-1, Kluane Lake near Burwash Landing.

Period of Record: Mainly continuous, December 1952 to September 1967. Records prior to 1965 were published under the title "Kluane River at Outlet of Kluane Lake near Burwash Landing".

Mean Discharge: (12 years) 2,550 cfs.

Extremes Recorded: Maximum instantaneous discharge, 11,900 cfs at 6.15 p.m. on August 10, 1966. Minimum daily discharge, 34.0 cfs, March 21 to 28, 1956.

Remarks: Records good during open-water periods and fair during ice period. Flow may be affected when Duke River is in flood.

In June 1967, the greater portion of the flow from Kaskawulsh Glacier was diverted by natural means from Slims River to Kaskawulsh River. This diversion out of the basin will reduce the flow of Kluane River.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	2,710	1,000	570	370	317	314	299	375	2,040	7,090	6,800	3,620
2.....	2,590	980	560	365	317	314	298	385	2,220	7,130	6,800	3,600
3.....	2,590	960	550	360	317	313	298	395	2,360	7,220	6,760	3,570
4.....	2,580	940	540	355	317	313	297	410	2,500	7,220	6,650	3,520
5.....	2,400	920	530	350	317	312	297	420	2,750	7,140	6,540	3,390
6.....	2,290	900	520	350	317	312	296	430	2,970	6,960	6,360	3,260
7.....	2,290	880	515	345	317	311	296	450	3,130	6,940	6,250	3,000
8.....	2,260	870	505	340	316	311	295	470	3,290	6,840	5,980	3,120
9.....	2,110	850	500	340	316	310	295	490	3,450	6,740	5,890	3,150
10.....	2,180	840	495	335	316	310	296	520	3,790	6,670	5,800	3,090
11.....	2,110	820	485	330	316	309	297	550	4,060	6,690	5,720	3,060
12.....	1,870	800	480	330	316	309	298	580	4,310	6,920	5,450	2,760
13.....	1,720	790	470	325	316	308	299	610	4,560	6,960	5,360	2,680
14.....	1,730	770	465	325	316	308	299	640	4,780	6,940	5,290	2,550
15.....	1,550	750	460	320	316	307	300	670	4,990	6,960	5,200	2,580
16.....	1,690	740	455	320	316	307	302	700	5,220	6,860	5,120	2,540
17.....	1,620	730	445	320	316	306	305	740	5,560	6,740	5,030	2,450
18.....	1,590	710	440	318	316	306	308	780	5,780	6,800	4,920	2,340
19.....	1,500	700	435	318	316	305	310	820	6,100	6,820	4,810	2,440
20.....	1,460	680	430	318	316	305	312	860	6,340	6,730	4,700	2,420
21.....	1,410	670	425	318	316	304	315	900	6,600	6,710	4,620	2,420
22.....	1,340	660	420	318	315	304	320	940	6,900	6,690	4,540	2,320
23.....	1,340	650	410	318	315	303	325	980	7,040	6,650	4,470	2,230
24.....	1,330	640	405	318	315	303	330	1,030	7,180	6,460	4,230	2,190
25.....	1,280	630	400	317	315	302	335	1,100	7,280	6,360	4,100	2,070
26.....	1,250	620	395	317	315	302	340	1,200	7,380	6,230	4,060	1,980
27.....	1,220	610	390	317	315	301	345	1,300	7,310	6,230	4,040	2,050
28.....	1,210	600	385	317	315	301	350	1,460	7,260	6,420	3,980	2,050
29.....	1,220	590	380	317	-	300	360	1,590	7,200	6,780	3,750	2,030
30.....	1,170	580	375	317	-	300	370	1,730	7,120	6,860	3,720	2,020
31.....	1,010	-	370	317	-	299	-	1,870	-	6,860	3,690	-
Total	54,620	22,880	14,205	10,225	8,848	9,509	9,387	25,395	151,470	210,620	160,630	80,500
Mean	1,760	763	458	330	316	307	313	819	5,050	6,790	5,180	2,680
Acre-feet	108,300	45,380	28,180	20,280	17,550	18,860	18,620	50,370	300,400	417,800	318,600	159,700

For the Year.....Maximum instantaneous discharge, 7,630 cfs at 5.15 p.m. on June 26

Minimum daily discharge, 295 cfs, April 8 and 9

Mean discharge, 2,080 cfs

Total discharge, 1,504,000 ac-ft

Ice conditions November 1 to May 27.

Location: Lat. 61° 03' 18", long. 138° 30' 12", Yukon Territory, at Horseshoe Bay, at Mile 1064 on Alaska Highway, twenty-seven miles southeast of Burwash Landing.

Gauge: Recording, installed in October 1963, approximately two miles north-northwest of former manual gauge location. Elevations are referred to Geodetic Survey of Canada datum, Publication 24-B (1960).

Period of Record: Mainly continuous, January 1953 to September 1967.

Extremes Recorded: Maximum daily elevation, 2,564.64 feet on August 18 and 19, 1957. Minimum daily elevation, 2,556.22 feet on February 17, 1954.

Remarks: For discharge from Kluane Lake, see "Kluane River at outlet of Kluane Lake". Elevations may be affected by backwater when Duke River is in flood. In June 1967, the greater portion of the flow from Kaskawulsh Glacier was diverted by natural means from Slims River to Kaskawulsh River. This diversion out of the basin will affect the regime of Kluane Lake.

Daily Elevations in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	9.65	8.39	8.11	8.03	8.01	7.91	7.85	7.84	9.18	12.04	11.89	10.04
2.....	9.57	8.41	8.12	8.04	8.01	7.91	7.86	7.86	9.31	12.06	11.89	10.03
3.....	9.57	8.40	8.11	8.07	8.01	7.91	7.87	7.89	9.41	12.10	11.87	10.01
4.....	9.56	8.46	8.11	8.05	8.01	7.91	7.87	7.92	9.51	12.10	11.81	9.98
5.....	9.44	8.36	8.12	8.05	7.97	7.91	7.86	7.94	9.67	12.06	11.75	9.89
6.....	9.36	8.41	8.11	8.04	7.97	7.90	7.87	8.01	9.81	11.97	11.66	9.80
7.....	9.36	8.34	8.10	8.04	7.97	7.91	7.87	8.02	9.91	11.96	11.60	9.63
8.....	9.34	8.37	8.07	8.05	7.95	7.91	7.87	8.02	10.01	11.91	11.46	9.71
9.....	9.23	8.36	8.06	8.04	7.95	7.91	7.87	8.05	10.11	11.86	11.41	9.73
10.....	9.28	8.32	8.05	8.04	7.94	7.92	7.86	8.07	10.31	11.82	11.36	9.69
11.....	9.23	8.31	8.04	8.06	7.94	7.90	7.86	8.11	10.47	11.83	11.32	9.67
12.....	9.06	8.32	8.04	8.04	7.94	7.96	7.88	8.15	10.61	11.95	11.17	9.46
13.....	8.95	8.31	8.04	8.04	7.95	7.93	7.88	8.18	10.75	11.97	11.12	9.40
14.....	8.96	8.30	8.04	8.04	7.95	7.94	7.86	8.20	10.87	11.96	11.08	9.31
15.....	8.83	8.27	8.02	8.03	7.95	7.95	7.86	8.23	10.99	11.97	11.03	9.33
16.....	8.93	8.23	8.02	8.02	7.94	7.94	7.86	8.29	11.11	11.92	10.98	9.30
17.....	8.88	8.19	8.01	8.02	7.93	7.93	7.86	8.33	11.29	11.86	10.93	9.24
18.....	8.86	8.21	8.04	8.01	7.91	7.92	7.87	8.34	11.40	11.89	10.86	9.16
19.....	8.79	8.21	8.05	8.04	7.91	7.92	7.85	8.38	11.56	11.90	10.79	9.23
20.....	8.76	8.19	8.07	8.07	7.91	7.92	7.86	8.40	11.68	11.85	10.72	9.22
21.....	8.72	8.17	8.07	8.04	7.91	7.92	7.89	8.43	11.81	11.84	10.67	9.22
22.....	8.66	8.11	8.06	8.01	7.91	7.92	7.88	8.47	11.96	11.83	10.62	9.14
23.....	8.66	8.12	8.06	8.01	7.91	7.93	7.88	8.52	12.03	11.81	10.58	9.07
24.....	8.65	8.11	8.08	8.01	7.91	7.93	7.87	8.56	12.10	11.71	10.43	9.04
25.....	8.61	8.13	8.06	8.01	7.91	7.91	7.86	8.61	12.15	11.66	10.35	8.95
26.....	8.58	8.13	8.04	8.01	7.91	7.89	7.84	8.67	12.19	11.59	10.32	8.88
27.....	8.56	8.13	8.03	8.01	7.91	7.88	7.82	8.71	12.16	11.59	10.31	8.93
28.....	8.55	8.11	8.04	8.01	7.91	7.88	7.82	8.76	12.13	11.69	10.27	8.93
29.....	8.56	8.10	8.03	8.01	-	7.88	7.82	8.86	12.10	11.88	10.13	8.92
30.....	8.51	8.11	8.03	8.01	-	7.87	7.83	8.96	12.06	11.92	10.11	8.91
31.....	8.36	-	8.04	8.01	-	7.86	-	9.06	-	11.92	10.09	-

For the Year..... Maximum instantaneous elevation, 12.31 feet at 5.15 p.m. on June 26
 Minimum instantaneous discharge, 7.74 feet at 3.30 a.m. on March 12

Add 2,550.00 to obtain elevation in feet, Geodetic Survey of Canada datum, Publication 24B (1960).

STEWART RIVER AT MAYO - STATION No. 9DC-2

Location: Lat. 63° 35' 26", long. 135° 54' 03", Yukon Territory, one hundred yards west of White Pass and Yukon Route warehouse at Mayo and one-quarter mile upstream from mouth of Mayo River.

Drainage Area: 12,100 square miles.

Gauge: Manual.

Period of Record: Miscellaneous measurements only, 1947 and 1948; mainly continuous, January 1949 to September 1967.

Mean Discharge: (14 years) 13,600 cfs.

Extremes Recorded: Maximum daily discharge, 145,000 cfs (estimated) on June 10, 1964. Minimum daily discharge, 630 cfs, January 10 to 13, 1966.

Remarks: Records good during open-water periods and fair during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	<u>10,100</u>	<u>3,170</u>	<u>1,770</u>	<u>1,350</u>	1,190	<u>1,200</u>	<u>1,310</u>	<u>2,340</u>	67,800	<u>54,200</u>	27,800	20,300
2.....	9,610	3,050	1,740	1,350	1,190	1,200	1,350	2,910	93,400	46,400	26,300	20,600
3.....	9,450	2,960	1,710	1,350	1,180	1,220	1,340	3,430	96,600	40,200	24,200	22,800
4.....	9,320	2,900	1,680	1,320	1,190	1,230	1,410	3,970	<u>97,400</u>	37,000	23,500	27,300
5.....	9,220	2,870	1,660	1,330	1,190	1,300	1,410	4,210	88,300	34,100	23,300	<u>28,600</u>
6.....	9,320	2,870	1,620	1,300	1,190	1,280	1,410	5,230	72,600	30,800	21,600	27,900
7.....	9,710	2,810	1,600	1,290	1,180	1,270	1,420	6,140	65,600	27,600	20,200	27,200
8.....	9,790	2,700	1,590	1,290	1,190	1,260	1,370	7,460	68,900	25,400	19,000	25,500
9.....	9,320	2,640	1,580	1,270	<u>1,170</u>	1,230	1,470	9,150	72,800	24,000	18,000	23,600
10.....	8,980	2,600	1,570	1,240	1,170	1,220	1,480	10,700	59,800	22,900	17,100	22,100
11.....	8,750	2,520	1,550	1,230	1,190	1,220	1,440	11,100	50,500	22,000	17,100	21,300
12.....	8,520	2,520	1,540	1,240	1,210	1,250	1,440	12,700	55,500	21,800	17,800	22,900
13.....	8,240	2,480	1,530	1,240	1,190	1,260	1,450	14,300	56,400	21,600	17,700	24,200
14.....	7,920	2,420	1,510	1,240	1,180	1,240	1,460	27,800	43,200	22,900	<u>17,000</u>	23,000
15.....	7,400	2,330	1,500	1,240	1,190	1,230	1,480	27,700	<u>37,400</u>	24,200	20,700	21,900
16.....	7,120	2,270	1,490	1,230	1,180	1,230	1,550	21,900	37,500	22,500	29,600	20,900
17.....	7,120	2,240	1,500	1,220	1,180	1,240	1,580	18,500	41,900	21,100	<u>36,000</u>	21,100
18.....	7,100	2,200	1,480	1,210	1,190	1,240	1,530	16,000 e	48,200	20,500	34,400	26,100
19.....	6,990	2,170	1,460	1,190	1,190	1,250	1,520	14,000 e	52,000	<u>19,800</u>	29,500	27,700
20.....	6,700	2,140	1,450	1,200	1,200	1,240	1,510	11,800 e	51,700	21,400	25,800	25,500
21.....	6,310	2,100	1,420	1,230	1,190	1,230	1,520	12,600 e	52,000	21,600	23,100	24,800
22.....	5,140	2,040	1,410	1,210	1,190	1,250	1,540	14,100 e	56,000	20,500	21,700	23,000
23.....	4,250	2,010	1,390	1,210	1,200	1,260	1,580	17,100	48,900	20,000	22,800	21,400
24.....	4,020	2,000	1,400	1,200	1,200	1,270	1,590	22,200	43,700	21,000	23,800	20,300
25.....	3,780	1,950	1,400	1,200	<u>1,230</u>	1,280	1,610	24,400	44,900	24,800	22,600	19,000
26.....	3,700	1,920	1,390	1,200	1,220	1,280	1,640	24,000	42,100	26,200	21,300	18,100
27.....	3,620	1,930	1,380	1,200	1,230	1,290	1,670	25,200	38,000	24,200	20,200	17,300
28.....	3,540	1,890	1,370	1,200	1,210	1,290	1,690	28,000	42,200	23,000	19,800	16,500
29.....	3,420	1,830	1,370	1,200	-	1,290	1,730	34,100	42,900	24,000	22,200	15,800
30.....	3,350	<u>1,800</u>	1,360	1,200	-	1,290	<u>1,830</u>	42,600	49,100	26,900	22,400	<u>15,000</u>
31.....	<u>3,270</u>	-	<u>1,350</u>	<u>1,190</u>	-	<u>1,300</u>	-	<u>55,100</u>	-	28,100	21,200	-
Total	215,080	71,330	46,770	38,570	33,410	38,840	45,330	530,740	1,717,300	820,700	707,700	671,700
Mean	6,940	2,380	1,510	1,240	1,190	1,250	1,510	17,100	57,200	26,500	22,800	22,400
Acre-feet	426,600	141,500	92,770	76,500	66,270	77,040	89,910	1,053,000	3,406,000	1,628,000	1,404,000	1,332,000

For the Year.....Maximum daily discharge, 97,400 cfs on June 4
 Minimum daily discharge, 1,170 cfs on February 9 and 10
 Mean discharge, 13,500 cfs
 Total discharge, 9,794,000 ac-ft

Ice conditions October 22 to May 9.

e - Estimated.

Location: Lat. 63° 22' 56", long. 136° 40' 59", Yukon Territory, at Mile 213.2 on the Whitehorse-Mayo Highway, three hundred yards upstream from mouth of Crooked Creek.

Drainage Area: 13,500 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurements only in 1958; October 1960 and continuous, June 1961 to September 1967.

Mean Discharge: (6 years) 15,500 cfs.

Extremes Recorded: Maximum instantaneous discharge, 153,000 cfs at 2.30 a.m. on June 11, 1964. Minimum daily discharge, 1,650 cfs, January 20 to April 11, 1966.

Remarks: Records good during open-water periods and fair during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	11,300	4,250	2,700	2,190	2,030	2,010	2,050	3,000	69,200	54,700	30,000	22,500
2.....	11,000	4,160	2,670	2,180	2,030	2,010	2,060	3,600	85,000	49,800	29,100	22,000
3.....	10,600	4,060	2,620	2,170	2,020	2,010	2,070	4,100	90,500	43,200	27,000	23,600
4.....	10,500	3,990	2,510	2,160	2,020	2,010	2,080	4,600	91,300	39,700	25,900	27,100
5.....	10,300	3,920	2,510	2,160	2,020	2,010	2,080	5,200	87,700	35,800	25,800	30,500
6.....	10,200	3,850	2,530	2,150	2,020	2,010	2,090	6,200	76,400	33,200	24,100	30,400
7.....	10,400	3,780	2,680	2,140	2,020	2,010	2,090	7,200	67,200	29,400	22,300	29,800
8.....	10,800	3,700	2,670	2,140	2,020	2,010	2,090	8,250	66,600	26,700	20,800	28,600
9.....	10,600	3,650	2,660	2,130	2,020	2,010	2,090	9,800	70,800	25,300	19,700	26,600
10.....	10,100	3,600	2,650	2,120	2,020	2,010	2,100	10,800	64,100	24,300	18,800	25,100
11.....	9,970	3,530	2,590	2,110	2,020	2,020	2,100	12,000	54,000	23,400	18,300	23,900
12.....	9,730	3,490	2,410	2,110	2,020	2,020	2,110	11,300	54,100	22,700	18,600	23,900
13.....	9,490	3,430	2,680	2,100	2,020	2,020	2,120	17,400	58,200	22,400	19,000	25,600
14.....	9,250	3,370	2,400	2,100	2,020	2,020	2,130	24,800	49,300	23,000	18,300	25,900
15.....	8,890	3,300	2,390	2,100	2,020	2,020	2,140	30,200	40,100	24,700	19,800	24,700
16.....	8,470	3,240	2,380	2,090	2,010	2,020	2,160	26,600	37,800	24,100	27,800	23,700
17.....	8,320	3,210	2,370	2,090	2,010	2,020	2,180	22,000	41,100	22,400	35,000	22,900
18.....	8,320	3,160	2,350	2,080	2,010	2,020	2,180	18,000	46,800	21,700	36,900	24,600
19.....	8,320	3,120	2,340	2,080	2,010	2,020	2,190	15,800	51,600	21,100	33,000	29,600
20.....	7,930	3,070	2,320	2,070	2,010	2,020	2,200	13,900	52,800	21,700	28,900	28,500
21.....	7,600 e	3,020	2,300	2,070	2,010	2,020	2,210	12,800	52,200	22,900	25,900	27,300
22.....	6,260	2,990	2,290	2,070	2,010	2,020	2,230	14,000	55,000	22,100	24,100	25,600
23.....	5,300	2,960	2,280	2,060	2,010	2,030	2,260	18,000	52,400	21,100	23,700	24,100
24.....	5,100	2,930	2,270	2,070	2,010	2,030	2,280	22,800	45,600	21,700	25,000	22,600
25.....	4,950	2,890	2,260	2,070	2,010	2,030	2,300	26,600	45,300	24,200	24,700	20,900
26.....	4,850	2,850	2,250	2,070	2,010	2,030	2,320	27,300	44,100	28,000	23,400	19,800
27.....	4,750	2,820	2,240	2,060	2,010	2,040	2,350	27,800	40,100	26,600	22,300	19,000
28.....	4,600	2,780	2,230	1,940	2,010	2,040	2,390	30,200	41,700	25,300	21,700	18,200
29.....	4,550	2,750	2,220	1,960	-	2,040	2,420	35,000	43,200	25,200	23,000	17,400
30.....	4,450	2,730	2,210	2,000	-	2,040	2,500	43,200	48,800	27,700	24,300	16,400
31.....	4,350	-	2,200	2,020	-	2,050	-	53,200	-	29,700	23,600	-
Total	251,250	100,600	75,180	64,860	56,450	62,670	65,570	565,650	1,723,000	863,800	760,800	730,800
Mean	8,100	3,350	2,430	2,090	2,020	2,020	2,190	18,200	57,400	27,900	24,500	24,400
Acre-feet	498,400	199,500	149,100	128,600	112,000	124,300	130,100	1,122,000	3,418,000	1,713,000	1,509,000	1,450,000

For the Year..... Maximum instantaneous discharge, 91,600 cfs at 5 p.m. on June 4
 Minimum daily discharge, 1,940 cfs on January 28
 Mean discharge, 14,600 cfs
 Total discharge, 10,550,000 ac-ft

Ice conditions October 23 to May 10.

e - Estimated.

STEWART RIVER AT MOUTH - STATION No. 9DD-3

Location: Lat. 63° 16' 55", long. 139° 14' 56", Yukon Territory, approximately fifteen hundred feet below Tenderfoot Creek and six miles southeast of Stewart River P.O.

Gauge: Recording.

Period of Record: Miscellaneous measurements only, 1951 and 1956 to 1963; continuous, October 1963 to September 1967.

Extremes Recorded: Maximum instantaneous discharge, 199,000 cfs at 5.45 a.m. on June 13, 1964. Minimum daily discharge, 2,050 cfs on April 1, 1957.

Remarks: Records excellent during open-water periods and fair during ice period.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	11,800	<u>4,800</u>	<u>3,220</u>	<u>2,500</u>	<u>2,290</u>	<u>2,260</u>	<u>2,290</u>	<u>3,350</u>	61,800	49,500	31,400	26,700
2.....	<u>12,100</u>	4,750	3,190	2,490	2,290	2,260	2,290	3,900	77,800	<u>54,000</u>	31,600	25,900
3.....	11,800	4,650	3,160	2,480	2,290	2,260	2,290	4,500	94,200	49,200	31,100	26,400
4.....	11,400	4,550	3,130	2,470	2,290	2,260	2,290	5,200	<u>100,000</u>	43,400	29,700	28,100
5.....	11,200	4,480	3,100	2,460	2,290	2,260	2,290	5,850	99,100	39,900	28,600	31,500
6.....	11,000	4,400	3,070	2,450	2,290	2,260	2,290	6,850	93,200	37,100	28,300	<u>33,800</u>
7.....	10,900	4,350	3,030	2,440	2,290	2,260	2,300	7,800	83,400	34,200	26,700	<u>33,200</u>
8.....	11,000	4,270	3,000	2,430	2,290	2,260	2,300	9,000	73,600	31,100	24,900	32,500
9.....	11,400	4,200	2,980	2,410	2,280	2,260	2,300	10,500	70,500	28,700	23,800	31,400
10.....	11,300	4,120	2,950	2,400	2,280	2,260	2,300	12,000	72,300	27,300	22,700	30,700
11.....	10,900	4,050	2,930	2,390	<u>2,270</u>	2,270	2,310	13,800	64,700	26,400	21,800	29,600
12.....	10,600	4,000	2,900	2,390	2,270	2,270	2,310	15,500	55,000	25,600	<u>21,200</u>	28,800
13.....	10,400	3,950	2,870	2,380	2,270	2,270	2,310	18,000	55,100	24,900	21,600	29,000
14.....	10,200	3,900	2,850	2,380	2,270	2,280	2,320	22,100	57,500	24,600	22,000	30,400
15.....	9,960	3,840	2,820	2,370	2,270	2,280	2,320	23,900	48,500	24,900	21,500	30,200
16.....	9,840	3,800	2,790	2,360	2,270	2,280	2,330	33,000	41,800	26,300	22,500	29,100
17.....	9,720	3,740	2,760	2,350	2,270	2,280	2,340	36,300	<u>40,400</u>	25,900	28,800	29,300
18.....	9,500	3,700	2,730	2,340	2,270	2,280	2,360	36,300	43,000	25,200	35,500	28,700
19.....	9,200	3,660	2,710	2,330	2,270	2,280	2,380	36,200	47,800	25,500	<u>36,900</u>	30,600
20.....	9,000	3,600	2,690	2,320	2,270	2,280	2,390	36,100	51,700	25,100	33,800	33,400
21.....	8,700	3,570	2,670	2,310	2,270	2,280	2,400	36,000	52,100	25,200	30,700	32,000
22.....	8,400	3,520	2,660	2,310	2,270	2,280	2,410	35,800	51,600	25,800	28,600	30,900
23.....	7,200	3,490	2,650	2,310	2,270	2,280	2,440	35,500	53,800	24,800	27,300	29,100
24.....	5,800	3,460	2,630	2,300	2,270	2,280	2,470	34,400	50,200	<u>23,900</u>	27,200	27,600
25.....	5,550	3,420	2,610	2,300	2,270	2,280	2,490	33,500	44,800	24,300	28,100	26,100
26.....	5,450	3,380	2,590	2,300	2,270	2,280	2,510	33,500	44,800	26,300	27,800	24,600
27.....	5,350	3,340	2,580	2,300	2,270	2,280	2,550	35,600	43,400	30,000	26,700	23,600
28.....	5,200	3,310	2,570	2,300	2,270	2,280	2,590	37,600	40,600	29,600	25,600	22,800
29.....	5,100	3,280	2,550	<u>2,290</u>	-	<u>2,290</u>	2,670	40,400	42,600	28,500	25,200	21,900
30.....	5,000	<u>3,250</u>	2,530	<u>2,290</u>	-	<u>2,290</u>	<u>2,900</u>	45,400	44,000	28,100	26,100	<u>21,000</u>
31.....	<u>4,950</u>	-	<u>2,510</u>	2,290	-	2,290	-	<u>52,700</u>	-	29,800	27,100	-
Total	279,920	116,830	87,430	73,440	63,740	70,480	71,740	760,550	1,799,300	945,100	844,800	858,900
Mean	9,030	3,890	2,820	2,370	2,280	2,270	2,390	24,500	60,000	30,500	27,300	28,600
Acre-feet	555,200	231,700	173,400	145,700	126,400	139,800	142,300	1,509,000	3,569,000	1,875,000	1,676,000	1,704,000

For the Year.....Maximum instantaneous discharge, 101,000 cfs at 7 p.m. on June 4
 Minimum daily discharge, 2,260 cfs, March 1 to 10
 Mean discharge, 16,400 cfs
 Total discharge, 11,850,000 ac-ft

Ice conditions October 18 to May 13.

KLONDIKE RIVER ABOVE BONANZA CREEK - STATION No. 9EA-3

Location: Lat. 64° 02' 34", long. 139° 24' 28", Yukon Territory, at bridge on Mayo-Dawson Road, about one mile above mouth and one and one-half miles southeast of Dawson City.

Gauge: Manual.

Period of Record: June 1965 to September 1967.

Extremes Recorded: Maximum daily discharge, 16,000 cfs on July 5, 1965. Minimum daily discharge, 307 cfs (estimated) on April 4 and 5, 1967.

Remarks: Records good during open-water periods and poor during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	1,420	765	430	356	341	324	310	506	12,900	3,920	3,070 e	3,900
2.....	1,420	770	420	355	341	324	309	1,580 e	14,500	3,860	3,180	4,410
3.....	1,420	780	410	355	340	324	309	2,650 e	13,500	3,580	4,830	4,890
4.....	1,420	782	402	354	340	324	307	3,720 e	12,200	3,400	4,120	4,640
5.....	1,410	775	400	354	340	324	307	4,800	11,600	3,220	3,370	4,470
6.....	1,400	760	395	354	339	324	310	5,060	10,800	2,950	2,870	4,220
7.....	1,330	740	385	354	339	324	315	6,360	11,100	2,760	2,740	4,040
8.....	1,310	720	381	354	339	324	325	5,540	8,140	2,340	3,060	4,180
9.....	1,320	700	378	352	339	324	336	7,060	6,640	2,280	3,960	4,760 e
10.....	1,330	675	375	350	338	323	350	8,680	7,270	1,810	4,240	5,340
11.....	1,260	655	372	350	337	322	362	8,580 e	7,570	1,930	4,470	6,670
12.....	1,230	630	370	350	336	321	375	8,490	7,060	2,230	6,750	6,540
13.....	1,200	605	369	350	335	320	380	7,870	5,640	2,080	6,640 e	6,280
14.....	1,160	599	369	349	334	320	389	5,540	5,760	1,940	6,540	6,460
15.....	1,130	582	367	349	332	320	390	4,780	6,130	1,820	6,560	6,410
16.....	1,110	565	365	349	331	320	390	3,770	6,560	2,000	5,660	7,250 e
17.....	1,080	555	365	349	330	320	390	2,900	7,080	1,930	5,000	8,090 e
18.....	1,040	542	363	349	330	320	390	2,010	6,980	3,060	4,680	8,930
19.....	1,020	535	362	349	330	320	390	2,130	6,750	3,450	4,160	8,220 e
20.....	990	522	361	349	330	320	390	2,360	5,930	3,180	4,220	7,500 e
21.....	965	515	360	348	330	320	390	2,640	5,590	2,980	4,890	6,790 e
22.....	940	500	360	347	330	320	390	3,940	5,020	2,960	4,960 e	6,070 e
23.....	920	498	359	345	330	320	390	4,510	5,110	3,100	5,020	5,360
24.....	900	488	359	344	330	319	390	5,110	4,510	3,130	4,890	5,140 e
25.....	880	480	358	342	329	318	395	5,590	4,020	3,200	4,680	4,930
26.....	860	475	357	342	328	315	400	4,980	4,020	3,500	4,490	4,660
27.....	840	462	356	342	328	315	410	5,980	3,960	4,510	4,240	4,390 e
28.....	823	455	356	342	327	314	430	7,240	4,160	4,550	4,000	4,120
29.....	800	448	356	342	-	312	450	9,100	4,470	3,820	4,020	3,750
30.....	790	440	356	342	-	311	475	10,300	4,140	3,450	3,540	3,660 e
31.....	775	-	356	342	-	311	-	10,500	-	2,960	4,100	-
Total	34,493	18,018	11,572	10,809	9,353	9,917	11,144	164,276	219,110	91,900	138,950	166,070
Mean	1,110	601	373	349	334	320	371	5,300	7,300	2,960	4,480	5,540
Acre-feet	68,420	35,740	22,950	21,440	18,550	19,670	22,100	325,800	434,600	182,300	275,600	329,400

For the Year..... Maximum daily discharge, 14,500 cfs on June 2
 Minimum daily discharge, 307 cfs on April 4 and 5
 Mean discharge, 2,430 cfs
 Total discharge, 1,757,000 ac-ft

Ice conditions October 12 to May 4.

e - Estimated.

PORCUPINE RIVER AT OLD CROW - STATION No. 9FD-1

Location: Lat. 67° 34' 00", long. 139° 50' 00", Yukon Territory, at Old Crow settlement, about two miles downstream from mouth of Old Crow River.

Drainage Area: 20,900 square miles.

Gauge: Manual.

Period of Record: Mainly continuous, June 1961 to September 1964 and open water only, 1965 to 1967.

Extremes Recorded: Maximum daily discharge, 237,000 cfs on June 4, 1964. Minimum daily discharge, 614 cfs on March 12, 1965.

Remarks: Records poor. The gauge datum and the stage-discharge relation has not been checked subsequent to September 1965.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	3,080	-	-	-	-	-	-	-	88,000e	-	-	-
2.....	2,880	-	-	-	-	-	-	-	110,000e	-	-	-
3.....	2,610	-	-	-	-	-	-	-	135,000e	-	-	-
4.....	2,300	-	-	-	-	-	-	-	155,000	-	-	-
5.....	2,240 e	-	-	-	-	-	-	-	158,000	-	-	-
6.....	2,170	-	-	-	-	-	-	-	134,000	-	-	-
7.....	2,060 e	-	-	-	-	-	-	-	116,000	-	-	-
8.....	1,940	-	-	-	-	-	-	-	105,000	-	-	-
9.....	1,570 e	-	-	-	-	-	-	-	136,000	-	-	-
10.....	1,200 e	-	-	-	-	-	-	-	113,000	-	-	-
11.....	846	-	-	-	-	-	-	77,500	98,700	-	-	-
12.....	255	-	-	-	-	-	-	70,600	88,600	-	-	-
13.....	314	-	-	-	-	-	-	69,000 e	71,000e	-	-	-
14.....	370	-	-	-	-	-	-	67,600	54,900	-	-	-
15.....	370 e	-	-	-	-	-	-	57,300	52,900	-	-	-
16.....	370 e	-	-	-	-	-	-	44,400	53,200e	-	-	-
17.....	370 e	-	-	-	-	-	-	35,900	53,400	-	-	-
18.....	370	-	-	-	-	-	-	33,700	50,000	-	-	-
19.....	283	-	-	-	-	-	-	25,300	46,600	-	-	-
20.....	-	-	-	-	-	-	-	20,900	44,500	-	-	-
21.....	-	-	-	-	-	-	-	13,600	36,200	-	-	-
22.....	-	-	-	-	-	-	-	12,800	30,300	-	-	-
23.....	-	-	-	-	-	-	-	10,400	25,600	-	-	-
24.....	-	-	-	-	-	-	-	11,100	28,700	-	-	-
25.....	-	-	-	-	-	-	-	16,600	30,000e	-	-	-
26.....	-	-	-	-	-	-	-	21,300	32,300	-	-	-
27.....	-	-	-	-	-	-	-	37,100	-	-	-	-
28.....	-	-	-	-	-	-	-	43,000e	-	-	-	-
29.....	-	-	-	-	-	-	-	52,000e	-	-	-	-
30.....	-	-	-	-	-	-	-	64,000e	-	-	-	-
31.....	-	-	-	-	-	-	-	76,000e	-	-	-	-

For The Period..... Maximum daily discharge, 158,000 cfs on June 5
Minimum daily discharge, 225 cfs on October 12

e - Estimated.

MISCELLANEOUS DISCHARGE MEASUREMENTS MADE IN YUKON RIVER DRAINAGE BASIN
FOR THE 1967 WATER YEAR

Date	Stream	Tributary to	Location	Discharge cfs
June 5, 1967	Faro Creek	Rose Creek	At Anvil Camp	101
April 18, 1967	Steele Creek	Donjek River	8 miles above mouth	8.3
January 3, 1967	Takhini River	Yukon River	Below Ibex River	642
February 8, 1967	"	"	"	383
February 21, 1967	"	"	"	367
May 1, 1967	"	"	"	472
October 13, 1966	Takhini River	Yukon River	Above Mendenhall River	2,110
February 20, 1967	"	"	"	256
February 21, 1967	Takhini River	Yukon River	Above Slough Exit	355
December 15, 1966	White River	Yukon River	7 miles above mouth	2,610
April 25, 1967	"	"	"	2,700
March 9, 1967	White River	Yukon River	8 miles above mouth	1,980
January 24, 1967	Yukon River	Bering Sea	Below Teslin River	8,840
April 3, 1967	"	"	"	6,540

LIARD RIVER AT UPPER CROSSING - STATION No. 10AA-1

Location: Lat. 60° 03' 00", long. 128° 54' 00", Yukon Territory, at Alaska Highway bridge, seven miles west of Watson Lake P.O.

Drainage Area: 12,500 square miles.

Gauge: Manual.

Period of Record: June 1960 to September 1967.

Mean Discharge: (7 years) 14,400 cfs.

Extremes Recorded: Maximum daily discharge, 107,000 cfs on June 12, 1961. Minimum daily discharge, 1,750 cfs, March 23 to 28, 1966.

Remarks: Records good during open-water periods and fair during periods of estimated flows and ice effect.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	11,400	7,600	5,300	4,000	3,000	2,460	2,100	3,000	51,100	36,000	18,000	10,200
2.....	11,900	7,400	5,250	3,950	3,000	2,420	2,100	3,150	56,300	34,500	17,700	10,300
3.....	12,300	7,300	5,200	3,900	2,980	2,400	2,100	3,300	62,600	32,000	17,400	10,500
4.....	11,600	7,150	5,100	3,850	2,960	2,390	2,100	3,700	63,000	30,000	16,900	11,000
5.....	13,400	7,000	5,050	3,800	2,940	2,380	2,100	4,100	58,600	27,500	16,400	11,500
6.....	16,100	6,900	5,000	3,750	2,920	2,370	2,090	4,700	67,100	26,500	15,900	11,700
7.....	17,400	6,800	4,960	3,700	2,900	2,360	2,090	5,400	70,000	25,500	15,600	11,600
8.....	17,100	6,700	4,900	3,700	2,880	2,350	2,090	6,300	67,900	24,000	15,200	11,500
9.....	16,500	6,600	4,850	3,700	2,840	2,340	2,090	7,400	63,000	23,000	14,800	11,400
10.....	16,200	6,500	4,800	3,650	2,800	2,320	2,090	8,600	61,000	23,000	14,400	11,200
11.....	15,700	6,450	4,780	3,600	2,800	2,300	2,090	10,000	57,600	23,500	13,800	10,900
12.....	15,200	6,400	4,750	3,600	2,780	2,280	2,090	11,500	58,500	24,900	13,900	10,800
13.....	14,700	6,300	4,700	3,550	2,760	2,270	2,090	13,300	57,100	25,800	14,100	10,600
14.....	13,900	6,250	4,680	3,550	2,740	2,260	2,090	16,300	53,000	28,000	14,000	10,500
15.....	13,600	6,200	4,640	3,500	2,700	2,240	2,090	16,100	51,700	30,300	13,600	10,400
16.....	13,100	6,150	4,580	3,500	2,680	2,230	2,100	16,800	53,300	29,000	13,300	10,300
17.....	13,000	6,050	4,560	3,450	2,660	2,220	2,100	20,200	54,400	27,600	13,000	10,300
18.....	12,700	6,000	4,500	3,400	2,640	2,200	2,100	24,800	55,900	25,900	12,500	10,200
19.....	12,300	5,900	4,450	3,400	2,620	2,190	2,100	22,900	55,900	24,300	12,400	10,200
20.....	11,900	5,800	4,400	3,350	2,600	2,180	2,100	22,600	56,000	23,300	11,800	10,200
21.....	11,000	5,750	4,400	3,300	2,600	2,170	2,110	22,500	51,900	22,300	11,800	10,200
22.....	11,000	5,750	4,350	3,300	2,580	2,160	2,110	24,800	52,200	21,100	11,600	10,200
23.....	9,780	5,700	4,300	3,250	2,560	2,150	2,120	24,600	50,500	20,100	11,000	10,300
24.....	9,450	5,650	4,300	3,200	2,540	2,140	2,120	24,700	50,500	19,900	10,800	10,300
25.....	9,300	5,600	4,250	3,200	2,520	2,130	2,160	25,000	49,500	19,800	10,600	10,300
26.....	9,000	5,550	4,200	3,150	2,500	2,120	2,240	25,800	48,000	18,800	10,500	10,400
27.....	8,800	5,500	4,200	3,150	2,500	2,100	2,350	31,600	44,000	18,300	10,500	10,500
28.....	8,500	5,450	4,150	3,100	2,480	2,100	2,500	34,200	42,500	18,300	10,400	10,500
29.....	8,300	5,400	4,100	3,100	-	2,100	2,600	36,000	40,500	18,600	10,200	10,600
30.....	8,000	5,350	4,050	3,050	-	2,100	2,800	43,100	38,500	18,700	10,200	10,500
31.....	7,800	-	4,000	3,050	-	2,100	-	49,100	-	18,300	10,200	-
Total	380,930	187,150	142,750	107,750	76,480	69,530	65,010	565,550	1,642,100	758,800	412,500	319,100
Mean	12,300	6,240	4,600	3,480	2,730	2,240	2,170	18,200	54,700	24,500	13,300	10,600
Acre-feet	755,600	371,200	283,100	213,700	151,700	137,900	128,900	1,122,000	3,257,000	1,505,000	818,200	632,900

For the Year:.....Maximum daily discharge, 70,000 cfs on June 7
 Minimum daily discharge, 2,090 cfs, April 6 to 15
 Mean discharge, 13,000 cfs
 Total discharge, 9,377,000 ac-ft

Ice conditions October 25 to May 12.

Estimated June 25 to July 11 and August 23 to September 30.

FRANCES RIVER NEAR WATSON LAKE - STATION No. 10AB-1

Location: Lat. 60° 28' 09", long. 129° 08' 08", Yukon Territory, approximately one and one-quarter miles above Middle Canyon, thirteen miles north of mouth, and twenty-six miles north-northwest of Watson Lake P.O.

Drainage Area: 4,950 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurement only in 1962; mainly continuous, March 1963 to September 1967.

Extremes Recorded: Maximum instantaneous discharge, 39,100 cfs at noon on June 12, 1964. Minimum daily discharge, 714 cfs on April 10, 1965.

Remarks: Records excellent during open-water periods and poor during ice period.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	4,760	3,450	2,050	1,600	1,230	950	805	1,040	20,900	20,900	7,620	4,720
2.....	4,790	3,350	2,000	1,600	1,220	950	800	1,250	23,200	20,000	7,620	4,720
3.....	4,780	3,250	2,000	1,580	1,210	940	800	1,350	24,700	19,100	7,590	4,760
4.....	4,810	3,200	1,980	1,560	1,200	930	800	1,450	28,800	18,200	7,590	4,760
5.....	5,080	3,100	1,980	1,550	1,190	925	800	1,550	26,900	17,300	7,350	4,860
6.....	5,450	3,000	1,980	1,540	1,180	920	795	1,650	28,300	16,300	7,290	4,890
7.....	5,480	2,950	1,960	1,530	1,170	915	795	1,800	28,900	15,400	7,140	4,890
8.....	5,730	2,900	1,920	1,510	1,160	910	790	2,000	28,800	14,600	6,960	4,890
9.....	5,830	2,850	1,900	1,500	1,150	900	790	2,200	28,200	13,800	6,700	4,890
10.....	5,860	2,750	1,880	1,500	1,140	895	790	2,450	27,600	13,400	6,530	4,920
11.....	5,940	2,700	1,880	1,480	1,120	890	785	2,800	27,300	13,000	6,450	4,920
12.....	5,890	2,650	1,880	1,480	1,100	880	780	3,000	26,700	12,500	6,420	4,920
13.....	5,760	2,600	1,860	1,460	1,090	870	780	3,300	25,900	12,200	6,370	4,940
14.....	5,690	2,550	1,860	1,450	1,080	860	780	3,700	25,300	12,100	6,340	4,990
15.....	5,560	2,500	1,840	1,440	1,070	860	775	4,160 a	25,100	11,700	6,260	4,960
16.....	5,540	2,480	1,820	1,430	1,060	850	775	4,620	25,400	11,200	6,200	4,940
17.....	5,460	2,460	1,800	1,420	1,050	844	775	5,420	25,400	10,900	6,120	4,940
18.....	5,360	2,400	1,790	1,400	1,040	840	775	5,940	25,500	10,500	6,020	4,890
19.....	5,290	2,380	1,780	1,380	1,030	840	775	6,150	25,900	10,300	5,890	4,860
20.....	5,090	2,360	1,770	1,380	1,020	840	775	6,450	26,100	9,950	5,840	4,860
21.....	5,040	2,320	1,760	1,370	1,020	835	770	7,020	26,500	9,460	5,660	4,860
22.....	4,840	2,260	1,750	1,360	1,010	835	770	7,710	26,600	9,290	5,640	4,890
23.....	4,640	2,240	1,720	1,350	1,000	830	770	8,450	26,400	9,060	5,560	4,940
24.....	4,320	2,220	1,700	1,340	1,000	830	770	8,900	26,100	8,730	5,460	4,940
25.....	4,210	2,200	1,690	1,320	990	830	775	9,460	25,700	8,390	5,390	4,920
26.....	4,030	2,180	1,680	1,300	980	825	775	10,200	25,100	8,140	5,220	4,890
27.....	3,930	2,160	1,670	1,280	975	825	790	10,700	24,100	7,860	5,140	4,920
28.....	3,850	2,120	1,660	1,280	970	820	830	11,500	23,000	7,620	5,090	5,060
29.....	3,750	2,100	1,650	1,260	-	820	900	12,800	22,400	7,590	4,940	5,120
30.....	3,650	2,080	1,630	1,250	-	815	990	15,500	21,800	7,590	4,860	5,140
31.....	3,550	-	1,610	1,240	-	810	-	18,600	-	7,590	4,760	-
Total	153,960	77,760	56,450	44,140	30,455	26,884	23,880	183,120	769,600	374,670	192,020	147,200
Mean	4,970	2,590	1,820	1,420	1,090	867	796	5,910	25,700	12,100	6,190	4,910
Acre-feet	305,400	154,200	112,000	87,550	60,410	53,320	47,370	363,200	1,526,000	743,100	380,900	292,000

For the Year.....Maximum instantaneous discharge, 29,300 cfs at 9 p.m. on June 7
 Minimum daily discharge, 770 cfs, April 21 to 24
 Mean discharge, 5,700 cfs
 Total discharge, 4,125,000 ac-ft

Ice conditions October 28 to May 14.

a - Manual gauge observation.

SNAKE RIVER ABOVE IRON CREEK - STATION No. 10MB-1

Location: Lat. 65° 17' 45", long. 133° 24' 10", Yukon Territory, approximately five miles above Iron Creek.

Drainage Area: 1,070 square miles.

Gauge: Recording.

Period of Record: Mainly open water, 1963 to 1967.

Extremes Recorded: Maximum daily discharge, 11,400 cfs (estimated) on June 7, 1964. Minimum daily discharge, 0.0 cfs on April 28, 1964, March 17, 1966, and April 20, 1967.

Remarks: Records fair.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	1,000	-	-	-	-	-	-	-	-	4,550	2,730	2,510
2.....	968	-	-	-	-	-	-	-	-	4,480	2,960	2,560
3.....	942	-	-	-	-	-	-	-	-	3,530	3,360	2,390
4.....	934	-	-	-	-	-	-	-	-	2,740	2,780	2,190
5.....	942	-	-	-	-	-	-	-	-	2,470	2,440	2,060
6.....	902	-	-	-	-	-	-	-	-	2,580	2,220	2,030 a
7.....	-	-	-	-	-	-	-	-	-	2,650	2,040	-
8.....	-	-	-	-	-	-	-	-	-	2,740	2,030	-
9.....	-	-	-	-	-	-	-	-	-	2,920	2,300	-
10.....	-	-	-	-	-	-	-	-	-	2,740	3,250	-
11.....	-	-	-	-	-	-	-	-	-	3,490	2,890	-
12.....	-	-	-	-	-	-	-	-	-	3,510	2,980	-
13.....	-	-	-	-	-	-	-	-	-	2,940	6,970	-
14.....	-	-	-	-	-	-	-	-	-	7,360 a	2,640	8,840
15.....	-	-	-	-	-	-	-	-	-	7,780	2,580	9,560
16.....	-	-	-	-	-	-	-	-	-	8,670	2,620	6,910
17.....	-	-	-	-	-	-	-	-	-	8,670	2,580	5,190
18.....	-	-	-	-	-	-	-	-	-	8,530	4,480	4,200
19.....	-	-	-	-	-	-	-	-	-	9,350	4,090	3,530
20.....	-	-	-	-	-	-	0.0 b	-	-	8,950	3,270	3,120
21.....	-	-	-	-	-	-	-	-	-	6,060	3,470	2,870
22.....	-	-	-	-	-	-	-	-	-	6,780	4,410	2,910
23.....	-	-	-	-	-	-	-	-	-	8,370	5,280	2,870
24.....	-	-	-	-	-	-	-	-	-	6,810	3,750	2,780
25.....	-	-	-	-	-	-	-	-	-	7,070	2,910	2,560
26.....	-	-	-	-	-	-	-	-	-	5,310	2,460	2,370
27.....	-	-	-	-	-	-	-	-	-	4,950	2,870	2,200
28.....	-	-	-	-	-	-	-	-	-	5,810	3,510	2,090
29.....	-	-	-	-	-	-	-	-	-	5,500	3,060	1,980
30.....	-	-	-	-	-	-	-	-	-	4,320	3,420	1,870
31.....	-	-	-	-	-	-	-	-	-	-	2,960	2,170
Total	-	-	-	-	-	-	-	-	-	101,700	106,970	-
Mean	-	-	-	-	-	-	-	-	-	3,280	3,450	-
Acre-feet	-	-	-	-	-	-	-	-	-	201,700	212,200	-

For the Period..... Maximum instantaneous discharge, 10,800 cfs at 11.59 p.m. on June 19
Minimum daily discharge, 0.0 cfs on April 20

a - Manual gauge observations. b - Ice conditions.

MISCELLANEOUS DISCHARGE MEASUREMENTS MADE IN MACKENZIE RIVER DRAINAGE BASIN
FOR THE YEAR 1967

Date	Stream	Tributary to	Location	Discharge cfs
September 8	Iron Creek	Snake River	4 miles downstream from Base Camp	190
April 19	North Fork	Iron Creek	At Base Camp	0.6
April 19	North Fork	Iron Creek	2 miles below Base Camp	18.9
September 7	North Fork	Iron Creek	At Base Camp	105

MACKENZIE RIVER NEAR FORT PROVIDENCE - STATION No. 10FB-1

Location: Lat. 61° 16', long. 117° 32', Northwest Territories, about one hundred feet north of Mackenzie Highway at Mile 79.4.

Drainage Area: 375,000 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurements, 1958 to 1962 and continuous, July 1963 to September 1967.

Extremes Recorded: Maximum daily discharge, 312,000 cfs on July 9 and August 14, 1964. Minimum daily discharge, 60,500 cfs on February 22, 1959.

Remarks: Records good.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	252,000	180,000	103,000	103,000	94,000	76,000	66,000	103,000	202,000	291,000	292,000	267,000
2.....	252,000	173,000	104,000	103,000	94,000	75,000	65,000	107,000	197,000	294,000	290,000	264,000
3.....	248,000	166,000	105,000	103,000	93,000	74,000	65,000	110,000	195,000	295,000	288,000	252,000
4.....	249,000	158,000	105,000	103,000	93,000	74,000	65,000	112,000	178,000	297,000	287,000	257,000
5.....	240,000	142,000	105,000	103,000	92,000	73,000	64,000	114,000	160,000	298,000	288,000	262,000
6.....	252,000	129,000	106,000	102,000	91,000	73,000	64,000	117,000	165,000	299,000	286,000	261,000
7.....	252,000	127,000	106,000	102,000	91,000	72,000	64,000	120,000	167,000	300,000	289,000	261,000
8.....	247,000	126,000	107,000	102,000	90,000	71,000	63,000	122,000	154,000	301,000	287,000	262,000
9.....	239,000	127,000	107,000	102,000	89,000	70,900	63,000	126,000	156,000	302,000	280,000	261,000
10.....	247,000	128,000	107,000	102,000	88,000	71,000	63,000	129,000	148,000	301,000	277,000	256,000
11.....	248,000	130,000	107,000	101,000	88,000	71,000	63,000	132,000	182,000	303,000	273,000	254,000
12.....	248,000	132,000	106,000	101,000	87,000	70,000	63,000	134,000	245,000	304,000	267,000	256,000
13.....	248,000	133,000	106,000	101,000	87,000	70,000	62,500	137,000	261,000	302,000	272,000	254,000
14.....	244,000	136,000	107,000	101,000	86,000	70,000	61,200	139,000	270,000	304,000	276,000	248,000
15.....	236,000	141,000	107,000	101,000	85,000	69,000	61,800	141,000	275,000	301,000	281,000	248,000
16.....	246,000	145,000	107,000	100,000	84,000	69,000	62,500	144,000	274,000	301,000	281,000	248,000
17.....	254,000	151,000	107,000	100,000	84,000	69,000	61,800	146,000	276,000	300,000	277,000	253,000
18.....	258,000	148,000	107,000	100,000	83,000	68,000	52,300	148,000	279,000	298,000	275,000	255,000
19.....	259,000	146,000	107,000	100,000	83,000	68,000	63,400	150,000	279,000	296,000	277,000	230,000
20.....	251,000	143,000	106,000	100,000	82,000	68,000	67,000	152,000	276,000	295,000	278,000	241,000
21.....	244,000	122,000	106,000	99,800	82,000	68,000	70,000	154,000	281,000	293,000	275,000	246,000
22.....	232,000	114,000	106,000	99,600	81,000	68,000	73,000	156,000	281,000	293,000	272,000	249,000
23.....	221,000	117,000	106,000	99,300	80,000	68,000	78,000	157,000	282,000	291,000	273,000	251,000
24.....	204,000	112,000	105,000	99,100	79,000	67,000	81,000	160,000	284,000	294,000	272,000	251,000
25.....	190,000	109,000	105,000	98,900	78,000	67,000	84,000	161,000	284,000	294,000	269,000	252,000
26.....	193,000	108,000	105,000	98,000	78,000	67,000	87,000	162,000	284,000	293,000	266,000	246,000
27.....	196,000	107,000	105,000	97,000	77,000	67,000	90,000	166,000	290,000	295,000	263,000	242,000
28.....	198,000	106,000	104,000	97,000	77,000	66,000	93,000	164,000	293,000	300,000	263,000	220,000
29.....	197,000	106,000	104,000	96,000	-	66,000	97,000	174,000	291,000	300,000	264,000	221,000
30.....	193,000	105,000	104,000	96,000	-	66,000	100,000	194,000	288,000	296,000	265,000	237,000
31.....	186,000	-	104,000	95,000	-	66,000	-	196,000	-	292,000	264,000	-
Total	7,224,000	3,967,000	3,276,000	3,105,700	2,396,000	2,157,900	2,123,500	4,427,000	7,197,000	9,223,000	8,567,000	7,505,000
Mean	233,000	132,000	106,000	100,000	85,600	69,600	70,800	143,000	240,000	298,000	276,000	250,000
Acre-feet	14,330,000	7,868,000	6,498,000	6,160,000	4,752,000	4,280,000	4,212,000	8,781,000	14,280,000	18,290,000	16,990,000	14,890,000

For the Year..... Maximum daily discharge, 304,000 cfs on July 12
 Minimum daily discharge, 61,200 cfs on April 14
 Mean discharge, 168,000 cfs
 Total discharge, 121,300,000 ac-ft

Ice conditions October 21 to June 14.

MACKENZIE RIVER AT FORT SIMPSON - STATION No. 10GC-1

Location: Lat. 61° 52' 30", long. 121° 20' 40", Northwest Territories, in the Northern Canada Power Commission water treatment plant, about one mile below mouth of the Liard River.

Drainage Area: 491,000 square miles.

Gauge: Recording.

Period of Record: Mainly July to September, 1938 to 1960; continuous, October 1960 to June 1962; part-year records, 1963 to 1967.

Extremes Recorded: Maximum daily discharge, 830,000 cfs on May 30, 1961. Minimum daily discharge, 66,300 cfs on March 30, 1961.

Remarks: Records good during open-water periods and poor during ice period. Discharge records for the period 1938 to 1959 are available upon application to the District Engineer at Calgary. Records for 1965 water year were published in 1966 Publication.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	302,000	247,000	147,000	120,000	115,000	93,000	81,000	-	-	521,000	422,000	326,000
2.....	301,000	250,000	145,000	120,000	114,000	93,000	81,000	-	-	516,000	422,000	325,000
3.....	301,000	241,000	144,000	120,000	113,000	92,000	80,000	-	-	510,000	421,000	321,000
4.....	301,000	233,000	142,000	120,000	113,000	91,000	80,000	-	-	495,000	415,000	318,000
5.....	300,000	232,000	140,000	120,000	113,000	90,000	80,000	-	-	477,000	409,000	319,000
6.....	295,000	203,000	138,000	120,000	110,000	89,000	80,000	-	-	465,000	403,000	320,000
7.....	298,000	202,000	137,000	120,000	110,000	88,000	79,000	-	-	463,000	397,000	321,000
8.....	300,000	202,000	135,000	120,000	109,000	87,000	79,000	-	520,000	465,000	392,000	323,000
9.....	297,000	202,000	133,000	120,000	108,000	87,000	78,000	-	521,000	466,000	394,000	323,000
10.....	300,000	201,000	132,000	120,000	107,000	87,000	78,000	-	527,000	463,000	399,000	323,000
11.....	307,000	201,000	130,000	120,000	107,000	87,000	78,000	-	518,000	458,000	398,000	320,000
12.....	309,000	200,000	127,000	120,000	106,000	86,000	78,000	-	503,000	456,000	390,000	317,000
13.....	307,000	200,000	126,000	120,000	105,000	86,000	77,000	-	493,000	456,000	386,000	313,000
14.....	306,000	200,000	125,000	120,000	104,000	85,000	80,000	-	492,000	456,000	381,000	307,000
15.....	303,000	198,000	123,000	120,000	103,000	85,000	82,000	-	494,000	456,000	380,000	306,000
16.....	300,000	193,000	123,000	120,000	103,000	85,000	84,000	-	500,000	460,000	377,000	303,000
17.....	298,000	187,000	122,000	120,000	102,000	85,000	85,000	-	506,000	470,000	373,000	300,000
18.....	295,000	181,000	122,000	120,000	101,000	84,000	87,200	-	513,000	485,000	370,000	298,000
19.....	299,000	175,000	121,000	120,000	100,000	84,000	90,000	-	524,000	490,000	367,000	295,000
20.....	298,000	170,000	120,000	120,000	99,000	84,000	93,000	-	540,000	484,000	363,000	291,000
21.....	297,000	165,000	120,000	120,000	99,800	84,000	-	-	551,000	480,000	360,000	293,000
22.....	292,000	163,000	120,000	120,000	97,000	84,000	-	-	556,000	480,000	357,000	293,000
23.....	286,000	161,000	120,000	120,000	97,000	83,000	-	-	556,000	469,000	355,000	291,000
24.....	286,000	159,000	120,000	120,000	96,000	83,000	-	-	552,000	453,000	351,000	292,000
25.....	279,000	157,000	120,000	120,000	96,000	83,000	-	-	550,000	438,000	347,000	291,000
26.....	271,000	155,000	120,000	120,000	95,000	83,000	-	-	546,000	428,000	344,000	291,000
27.....	256,000	154,000	120,000	119,000	94,000	83,000	-	-	542,000	424,000	340,000	289,000
28.....	252,000	153,000	120,000	118,000	93,000	83,000	-	-	532,000	422,000	336,000	288,000
29.....	245,000	150,000	120,000	117,000	-	82,000	-	-	527,000	421,000	331,000	280,000
30.....	241,000	148,000	120,000	117,000	-	82,000	-	-	523,000	422,000	328,000	279,000
31.....	248,000	-	120,000	116,000	-	82,000	-	-	-	423,000	326,000	-
Total	8,970,000	5,683,000	3,952,000	3,707,000	2,909,000	2,660,000	-	-	-	14,372,000	11,634,000	9,156,000
Mean	289,000	189,000	127,000	120,000	104,000	85,800	-	-	-	464,000	375,000	305,000
Acre-feet	17,790,000	11,270,000	7,839,000	7,353,000	5,770,000	5,276,000	-	-	-	28,500,000	23,100,000	18,200,000

For the Period..... Maximum instantaneous discharge, 558,000 cfs at 10 p.m. on June 22

Ice conditions November 7 to June 5.

MACKENZIE RIVER NEAR WRIGLEY - STATION No. 10HC-1

Location: Lat. 63° 15' 58", long. 123° 35' 50", Northwest Territories, on right bank of river, opposite Wrigley Settlement.

Gauge: Recording, gauge heights are referred to an assumed datum. Gauge heights for 1963 may be converted to present datum by subtracting 60.00 feet.

Period of Record: Gauge heights only, February to June 1963 and continuous, October 1963 to September 1967.

Extremes Recorded: Maximum instantaneous gauge height, 64.38 feet at 5.30 p.m. on May 13, 1963. Minimum instantaneous gauge height, 13.63 feet at 7 p.m. on November 12, 1966.

Daily Gauge Heights in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	21.17	17.15	21.74	22.20	-	-	-	17.33	32.47	32.80	26.60	22.30
2.....	21.23	17.53	21.94	22.13	-	-	-	17.62	33.16	31.59	26.60	22.28
3.....	21.30	17.79	22.02	22.08	-	-	-	18.01	33.41	30.89	26.45	22.26
4.....	21.28	17.89	22.13	22.02	-	-	-	18.57	33.59	30.46	22.35	22.18
5.....	21.29	17.67	22.24	21.92	-	-	-	19.64	33.64	30.07	26.31	22.13
6.....	21.22	17.12	22.26	21.90	-	-	-	21.24	33.35	29.40	26.08	22.11
7.....	21.17	16.56	22.17	21.86	-	-	-	22.84	32.83	28.74	25.78	22.07
8.....	21.15	16.38	22.06	21.84	-	-	-	24.12	32.77	28.47	25.69	22.07
9.....	21.22	15.77	21.97	21.80	-	-	-	25.78	32.36	28.35	25.43	22.13
10.....	21.22	14.96	21.98	21.67	-	-	-	29.42	31.67	28.41	25.19	22.16
11.....	21.27	14.57	22.10	21.58	-	-	-	33.64	31.44	28.37	25.26	22.12
12.....	21.38	14.43	22.22	21.50	-	-	-	46.42	31.16	28.14	25.23	22.07
13.....	21.51	16.02	22.34	21.42	-	-	-	40.17	30.60	27.90	25.11	21.99
14.....	21.60	16.69	22.40	21.33 a	-	-	-	29.17	30.08	27.76	24.93	21.78
15.....	21.56	16.93	22.47	-	-	-	-	28.92	29.65	27.74	24.68	21.63
16.....	21.47	17.39	22.57	-	-	-	-	28.91	29.63	27.68	24.48	21.43
17.....	21.31	17.15	22.65	-	-	-	-	29.68	29.77	27.71	24.40	21.27
18.....	21.18	16.94	22.72	-	-	-	-	29.59	29.94	27.91	24.32	21.18
19.....	21.09	16.73	22.73	-	-	-	-	29.86	30.13	28.41	24.18	21.08
20.....	21.05	16.52	22.73	-	-	-	16.27 a	16.27	34.66	30.45	28.76	24.04
21.....	21.04	16.69	22.73	-	-	-	16.28	31.35	30.95	28.93	23.90	20.88
22.....	21.00	17.80	22.72	-	-	-	16.31	28.33	31.40	28.76	23.78	20.88
23.....	20.86	19.31	22.69	-	-	-	16.33	27.97	31.67	28.57	23.64	20.92
24.....	20.41	20.36	22.67	-	-	-	16.36	28.03	31.72	28.33	23.55	20.86
25.....	20.41	20.87	22.63	-	-	-	16.43	28.03	31.65	27.84	23.48	20.79
26.....	20.02	21.20	22.59	-	-	-	16.51	29.47	31.47	27.25	23.37	20.78
27.....	19.85	21.33	22.52	-	-	-	16.62	30.12	31.37	26.72	23.21	20.78
28.....	19.16	21.18	22.47	-	-	-	16.76	29.44	31.27	26.47	23.03	20.78
29.....	18.60	21.14	22.39	-	-	-	16.92	28.95	31.22	26.35	22.82	20.74
30.....	18.11	21.41	22.32	-	-	-	17.10	29.14	32.59	26.43	22.64	20.60
31.....	17.85	-	22.27	-	-	-	-	30.68	-	26.46	22.47	-

For the Period.....Maximum instantaneous gauge height, 54.03 feet at 11.55 p.m. on May 12
Minimum instantaneous gauge height, 13.63 feet at 7 p.m. on November 12

Record missing from January 15 to April 18 as clock stopped.

a - Manual gauge observations.

MACKENZIE RIVER AT NORMAN WELLS - STATION No. 10KA-1

Location: Lat. 65° 16' 54", long. 126° 50' 58", Northwest Territories, on right bank about one thousand feet upstream from Pacific Western Airlines float plane dock.

Drainage Area: 606,000 square miles, referred to discharge measurement section located about sixteen miles upstream from gauge.

Gauge: Recording.

Period of Record: Periods of varying length, 1943 to 1956 and 1961 to 1967; miscellaneous measurement only in 1960.

Extremes Recorded: Maximum daily discharge, 960,000 cfs on July 17, 1963. Minimum daily discharge, 97,800 cfs at various times in March 1962.

Remarks: Records fair. Discharge records for the period 1943 to 1956 have been computed and are available upon application to the District Engineer at Calgary.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	364,000e	287,000	134,000	146,000	135,000	129,000	114,000	107,000	663,000	789,000	530,000	390,000
2.....	363,000e	280,000	133,000	146,000	136,000	129,000	113,000	109,000	741,000	773,000	530,000	391,000
3.....	362,000e	273,000	133,000	146,000	136,000	129,000	113,000	111,000	781,000	726,000	522,000	398,000
4.....	361,000e	262,000	133,000	146,000	136,000	129,000	112,000	115,000	793,000	689,000	516,000	396,000
5.....	360,000e	251,000	134,000	145,000	135,000	128,000	112,000	121,000	790,000	674,000	513,000	400,000
6.....	359,000e	241,000	135,000	145,000	134,000	128,000	112,000	131,000	788,000	653,000	504,000	400,000
7.....	358,000a	230,000	136,000	145,000	134,000	127,000	112,000	150,000	779,000	628,000	496,000	397,000
8.....	357,000e	213,000	138,000	145,000	134,000	127,000	112,000	174,000	791,000	601,000	491,000	395,000
9.....	356,000e	198,000	138,000	145,000	133,000	126,000	112,000	186,000	786,000	589,000	484,000	392,000
10.....	355,000e	181,000	136,000	144,000	131,000	126,000	110,000	204,000	750,000	585,000	477,000	393,000
11.....	354,000e	169,000	134,000	144,000	133,000	125,000	110,000	224,000	718,000	586,000	468,000	394,000
12.....	353,000e	159,000	132,000	144,000	133,000	124,000	110,000	250,000	701,000	580,000	466,000	404,000
13.....	352,000e	149,000	133,000	143,000	132,000	124,000	110,000	268,000	681,000	573,000	467,000	408,000
14.....	351,000e	140,000	134,000	143,000	133,000	124,000	109,000	285,000	655,000	569,000	460,000	402,000
15.....	350,000e	134,000	134,000	142,000	133,000	123,000	109,000	306,000	634,000	560,000	463,000	393,000
16.....	349,000e	130,000	136,000	141,000	133,000	122,000	108,000	328,000	627,000	554,000	458,000	387,000
17.....	348,000e	129,000	137,000	140,000	133,000	121,000	108,000	344,000	634,000	548,000	458,000	379,000
18.....	347,000e	125,000	139,000	140,000	133,000	119,000	108,000	361,000	648,000	546,000	456,000	378,000
19.....	346,000e	122,000	140,000	139,000	133,000	117,000	108,000	383,000	657,000	555,000	451,000	378,000
20.....	345,000e	121,000	141,000	139,000	134,000	118,000	107,000	403,000	663,000	605,000	446,000	373,000
21.....	344,000e	120,000	143,000	138,000	134,000	118,000	107,000	424,000	674,000	653,000	440,000	368,000
22.....	344,000	118,000	144,000	137,000	133,000	118,000	107,000	442,000	684,000	633,000	436,000	365,000
23.....	343,000	117,000	144,000	138,000	133,000	117,000	106,000	462,000	681,000	610,000	430,000	362,000
24.....	336,000	112,000	145,000	139,000	132,000	117,000	105,000	480,000	694,000	588,000	426,000	360,000
25.....	328,000	112,000	145,000	139,000	132,000	117,000	105,000	500,000	708,000	577,000	424,000	358,000
26.....	321,000	116,000	143,000	139,000	131,000	117,000	105,000	520,000	697,000	558,000	421,000	358,000
27.....	311,000	123,000	147,000	138,000	131,000	117,000	105,000	539,000	695,000	538,000	418,000	356,000
28.....	308,000	128,000	147,000	137,000	131,000	116,000	106,000	559,000	700,000	520,000	415,000	356,000
29.....	305,000	133,000	147,000	137,000	-	116,000	106,000	580,000	696,000	510,000	410,000	356,000
30.....	300,000	134,000	146,000	136,000	-	115,000	106,000	600,000	744,000	508,000	404,000	356,000
31.....	292,000	-	146,000	136,000	-	114,000	-	619,000	-	513,000	401,000	-
Total	10,616,000	5,007,000	4,307,000	4,382,000	3,731,000	3,777,000	3,267,000	10,285,000	21,253,000	18,591,000	14,281,000	11,443,000
Mean	342,000	167,000	139,000	141,000	133,000	122,000	109,000	332,000	708,000	600,000	461,000	381,000
Acre-feet	21,060,000	9,930,000	8,543,000	8,692,000	7,400,000	7,492,000	6,480,000	20,400,000	42,150,000	36,870,000	28,330,000	22,700,000

For the Year..... Maximum daily discharge, 793,000 cfs on June 4
 Minimum daily discharge, 105,000 cfs, April 24 to 27
 Mean discharge, 304,000 cfs
 Total discharge, 220,000,000 ac-ft

Ice conditions October 25 to May 31.

a - Manual gauge observation.

e - Estimated.

MACKENZIE RIVER AT FORT GOOD HOPE - STATION No. 10LD-1

Location: Lat. 66° 15' 30", long. 128° 38' 20", Northwest Territories, at southern end of settlement, one hundred feet north of Jackfish Creek on Roman Catholic Church property.

Gauge: Recording; gauge heights are referred to an assumed datum.

Period of Record: Gauge heights only, periods of varying length, 1963 to 1967.

Daily Gauge Heights in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	5.99	-	-	-	-	-	-	-	-	-	12.89	8.43
2.....	5.98	-	-	-	-	-	-	-	-	-	13.10	8.35
3.....	6.03	-	-	-	-	-	-	-	-	20.20	13.16	8.40
4.....	6.10 a	-	-	-	-	-	-	-	-	19.28	13.16	8.81
5.....	-	-	-	-	-	-	-	-	-	18.15	12.91	8.85
6.....	-	-	-	-	-	-	-	-	-	17.39	12.62	8.84
7.....	-	-	-	-	-	-	-	-	-	16.82	12.35	8.83
8.....	-	-	-	-	-	-	-	-	-	16.18	11.98	8.75
9.....	-	-	-	-	-	-	-	-	-	15.43	11.68	8.65
10.....	-	-	-	-	-	-	-	-	-	14.91	11.43	8.50
11.....	-	-	-	-	-	-	-	-	-	14.67	11.12	8.49
12.....	-	-	-	-	-	-	-	-	19.62 a	14.75	10.77	8.64
13.....	-	-	-	-	-	-	-	-	18.86	14.93	10.67	8.96
14.....	-	-	-	-	-	-	-	-	18.31	14.75	10.74	9.10
15.....	-	-	-	-	-	-	-	-	17.66	14.35	11.26	8.95
16.....	-	-	-	-	-	-	-	-	17.28	13.92	11.84	8.54
17.....	-	-	-	-	-	-	-	-	17.25	13.59	11.86	8.19
18.....	-	-	-	-	-	-	-	-	17.39	13.37	11.53	7.91
19.....	-	-	-	-	-	-	-	-	17.68	13.29	11.17	7.64
20.....	-	-	-	-	-	-	-	-	17.98	13.92	10.86	7.61
21.....	-	-	-	-	-	-	-	-	18.17	15.55	10.66	7.48
22.....	-	-	-	-	-	-	-	-	18.12	16.49	10.37	7.23
23.....	-	-	-	-	-	-	-	-	18.18	16.35	10.17	7.09
24.....	-	-	-	-	-	-	-	-	18.40	15.86	9.94	6.88
25.....	-	-	-	-	-	-	-	-	18.58	15.19	9.71	6.80
26.....	-	-	-	-	-	-	-	-	18.87	14.63	9.48	6.67
27.....	-	-	-	-	-	-	-	-	18.84	14.11	9.30	6.52
28.....	-	-	-	-	-	-	-	-	-	13.59	9.12	6.37
29.....	-	-	-	-	-	-	-	-	-	13.21	8.96	6.33
30.....	-	-	-	-	-	-	-	-	-	12.70	8.74	6.41
31.....	-	-	-	-	-	-	-	-	-	12.61	8.46	-

a - Manual gauge observations.

MACKENZIE RIVER (PEEL CHANNEL) AT AKLAVIK - STATION No. 10MC-1

Location: Lat. 68° 13' 10", long. 135° 00' 00", Northwest Territories, located on N.T. dock in town of Aklavik, on left bank of Peel Channel, Mackenzie River delta.

Gauge: Manual.

Period of Record: Gauge heights only, June to September 1967.

Extremes Recorded: Maximum daily gauge height, 18.56 feet on June 16, 1967.

Daily Gauge Heights in Feet for the 1967 Calendar Year

Day	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	-	-	-	-	-	-	-	13.84	12.57	-	-	-
2.....	-	-	-	-	-	-	15.50	13.79	12.42	-	-	-
3.....	-	-	-	-	-	-	15.39	13.49	12.18	-	-	-
4.....	-	-	-	-	-	-	15.38	13.29	12.86	-	-	-
5.....	-	-	-	-	-	-	15.39	13.16	12.85	-	-	-
6.....	-	-	-	-	-	-	15.40	13.06	12.81	-	-	-
7.....	-	-	-	-	-	-	15.35	13.18	12.68	-	-	-
8.....	-	-	-	-	-	-	15.20	13.17	12.67	-	-	-
9.....	-	-	-	-	-	-	15.20	13.16	12.73	-	-	-
10.....	-	-	-	-	-	-	15.30	12.97	12.93	-	-	-
11.....	-	-	-	-	-	-	15.05	13.26	12.68	-	-	-
12.....	-	-	-	-	-	-	14.80	13.29	12.37	-	-	-
13.....	-	-	-	-	-	-	14.58	13.68	12.66	-	-	-
14.....	-	-	-	-	-	-	14.35	13.87	12.71	-	-	-
15.....	-	-	-	-	-	-	14.20	13.79	12.70	-	-	-
16.....	-	-	-	-	-	18.56	13.95	13.68	12.71	-	-	-
17.....	-	-	-	-	-	18.18	13.80	13.99	-	-	-	-
18.....	-	-	-	-	-	17.63	13.69	14.14	-	-	-	-
19.....	-	-	-	-	-	17.12	13.50	14.18	-	-	-	-
20.....	-	-	-	-	-	16.90	13.47	14.04	-	-	-	-
21.....	-	-	-	-	-	17.42	13.74	13.94	-	-	-	-
22.....	-	-	-	-	-	16.21	13.80	13.87	-	-	-	-
23.....	-	-	-	-	-	16.11	14.15	13.68	-	-	-	-
24.....	-	-	-	-	-	16.01	14.65	13.50	-	-	-	-
25.....	-	-	-	-	-	16.12	14.60	13.39	-	-	-	-
26.....	-	-	-	-	-	16.20	14.50	13.26	-	-	-	-
27.....	-	-	-	-	-	16.19	-	13.19	-	-	-	-
28.....	-	-	-	-	-	16.21	-	13.08	-	-	-	-
29.....	-	-	-	-	-	16.19	-	12.87	-	-	-	-
30.....	-	-	-	-	-	15.99	13.99	13.16	-	-	-	-
31.....	-	-	-	-	-	-	13.86	12.86	-	-	-	-

For the Period.....Maximum daily gauge height, 18.56 feet on June 16
 Minimum daily gauge height, 12.18 feet on September 3

GREAT SLAVE LAKE AT YELLOWKNIFE BAY - STATION No. 7SB-1

Location: Lat. 62° 26' 30", long. 114° 21' 00", Northwest Territories, at Consolidated Mining and Smelting Company dock.

Gauge: Recording; elevations are referred to approximate Geodetic Survey of Canada datum. Records prior to October 1963 may be converted to present datum by adding 21.05 feet.

Period of Record: Periods of varying length, June 1938 to September 1967.

Extremes Recorded: Maximum daily elevation, 516.26 feet on October 6, 1962. Minimum daily elevation, 512.54 feet on April 5 and 28, 1946. Referred to present datum.

Daily Elevations in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	-	-	-	-	-	-	514.25	513.90	514.49	515.34	515.56	515.26
2.....	-	-	-	-	-	-	514.23	513.87	514.52	515.35	515.57	515.29
3.....	-	-	-	-	-	-	514.22	513.86	514.56	515.35	515.51	515.14
4.....	-	-	-	-	-	-	514.23	513.86	514.56	515.35	515.47	515.21
5.....	-	-	-	-	-	-	514.24	513.84	514.64	515.43	515.53	515.28
6.....	-	-	-	-	-	-	514.19	513.81	514.66	515.48	515.42	515.19
7.....	-	-	-	-	-	-	514.21	513.82	514.72	515.49	515.49	515.21
8.....	-	-	-	-	-	-	514.21	513.82	514.74	515.51	515.54	515.27
9.....	-	-	-	-	-	-	514.17	513.82	514.79	515.53	515.52	515.22
10.....	-	-	-	-	-	-	514.16	513.80	514.86	515.55	515.48	515.21
11.....	-	-	-	-	-	-	514.13	513.79	514.87	515.56	515.50	515.14
12.....	-	-	-	-	-	-	514.13	513.77	514.92	515.61	515.42	515.15
13.....	-	-	514.37 a	-	-	-	514.15	513.81	514.95	515.55	515.45	515.25
14.....	-	-	-	-	-	-	514.11	513.78	514.94	515.56	515.38	515.11
15.....	-	-	-	-	-	-	514.08	513.81	514.97	515.59	515.38	515.13
16.....	-	-	-	-	-	-	514.04	513.78	515.02	515.61	515.42	515.00
17.....	-	-	-	-	-	-	514.05	513.79	515.06	515.60	515.53	515.00
18.....	-	-	-	514.36 a	-	-	514.06	513.83	515.05	515.59	515.44	515.08
19.....	-	-	-	-	-	-	514.03	513.83	515.09	515.63	515.49	514.80
20.....	-	-	-	514.35	-	514.23 a	514.01	513.87	515.03	515.62	515.52	514.93
21.....	-	-	-	514.35	-	-	514.01	513.87	515.09	515.62	515.51	514.90
22.....	-	-	-	514.35	-	-	513.98	513.93	515.12	515.57	515.37	514.82
23.....	-	-	-	514.34	-	-	513.96	514.01	515.15	515.48	515.38	514.88
24.....	-	-	-	514.35 a	-	-	514.04	514.10	515.15	515.49	515.37	514.87
25.....	-	-	-	-	-	-	514.09	514.15	515.16	515.54	515.37	514.93
26.....	-	-	-	-	-	-	514.03	514.25	515.17	515.57	515.38	515.12
27.....	-	-	-	-	-	-	514.01	514.25	515.24	515.56	515.36	514.93
28.....	-	-	-	-	514.34 a	-	513.99	514.29	515.29	515.57	515.27	514.83
29.....	-	-	-	-	-	514.35 a	513.96	514.34	515.34	515.58	515.31	514.79
30.....	-	-	-	-	-	514.34	513.89	514.40	515.31	515.57	515.37	514.89
31.....	-	-	-	-	-	514.34	-	514.47	-	515.56	515.26	-

For the Period:.....Maximum daily elevation, 515.63 feet on July 19

a - Manual gauge observations.

GREAT SLAVE LAKE AT SNOWDRIFT - STATION No. 7QB-1

Location: Lat. 62° 24' 15", long. 110° 44' 30", Northwest Territories, on the main dock at Snowdrift.

Gauge: Manual; elevations are referred to approximate Geodetic Survey of Canada datum. Elevations prior to 1963 can be converted to present datum by adding 415.61 feet.

Period of Record: Part-year records 1959 to 1966; occasional observations only in 1967.

Extremes Recorded: Maximum daily elevation, 516.45 feet on September 1, 1962. Minimum daily elevation, 513.90 feet on November 1, 1961. Referred to present datum.

Remarks: The following elevations in feet, were recorded during 1967; 515.17, June 17; 515.51, June 30; 515.47, August 30; and 514.79, October 11.

Location: Lat. 61° 10', long. 113° 42', Northwest Territories.

Gauge: Recording, installed June 1967; elevations are referred to approximate Geodetic Survey of Canada datum. To convert data 1957 to 1965 to present datum, subtract 11.69 feet; data prior to 1957, add 509.89 feet.

Period of Record: Mainly open water 1934, 1935, 1938 to 1955 and 1957 to 1967.

Extremes Recorded: Maximum daily elevation, 516.39 feet on July 24, 1954. Minimum daily elevation, 512.69 feet on May 17 and 18, 1946. Referred to present datum.

Revisions: 1950 to 1955, WRP 125.

Remarks: Elevations are referred to brass cap in Dominion Observatory monument, elevation 527.69 feet (approximate Geodetic datum). Extreme stage of July 24, 1954 was the result of northwest wind at 36 m.p.h.

Daily Elevations in Feet for the 1967 Calendar Year

Day	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	-	-	-	-	-	514.32	-	-	-	-	514.71	514.33
2.....	-	-	-	-	-	514.27	-	-	-	-	514.46	514.18
3.....	-	-	-	-	-	514.32	-	-	-	-	514.51	514.12
4.....	-	-	-	-	-	514.47	-	-	-	-	514.51	514.17
5.....	-	-	-	-	-	514.32	-	-	-	-	514.39	514.22
6.....	-	-	-	-	-	514.52	-	-	-	-	514.31	514.16
7.....	-	-	-	-	-	514.81	-	-	-	-	514.48	514.16
8.....	-	-	-	-	-	514.62	-	-	-	-	514.51	514.10
9.....	-	-	-	-	-	514.62	-	-	-	-	514.23	514.15
10.....	-	-	-	-	-	514.60	-	-	-	-	514.46	514.20
11.....	-	-	-	-	-	514.78	-	-	-	-	514.45	514.19
12.....	-	-	-	-	-	514.82	-	-	-	-	514.35	514.19
13.....	-	-	-	-	-	514.88	-	-	-	-	514.30	514.03
14.....	-	-	-	-	-	514.92	-	-	-	-	514.20	514.10
15.....	-	-	-	-	-	514.97	-	-	-	-	514.30	514.13
16.....	-	-	-	-	-	515.00	-	-	-	-	514.35	514.17
17.....	-	-	-	-	-	514.92	-	-	-	-	514.37	514.17
18.....	-	-	-	-	-	514.97	-	515.38 a	-	-	514.22	514.16
19.....	-	-	-	-	-	-	-	-	-	-	514.30	514.11
20.....	-	-	-	-	-	-	-	-	-	-	514.25	514.09
21.....	-	-	-	-	-	515.13 a	-	-	-	-	514.20	514.10
22.....	-	-	-	-	-	515.14	-	-	-	-	514.35	514.07
23.....	-	-	-	-	-	515.13	-	-	-	514.55 a	514.04	514.00
24.....	-	-	-	-	-	515.11	-	-	-	514.57	514.84	514.04
25.....	-	-	-	-	-	515.11 a	-	-	514.86 a	514.37	514.64	514.06
26.....	-	-	-	-	-	-	-	-	-	514.49	514.34	514.03
27.....	-	-	-	-	-	-	-	-	-	514.35	514.20	514.03
28.....	-	-	-	-	-	-	-	-	-	514.59	514.07	514.01
29.....	-	-	-	-	-	-	-	-	-	514.72	514.32	514.02
30.....	-	-	-	-	-	-	-	-	-	514.54	514.34	513.97
31.....	-	-	-	-	-	-	-	-	-	514.64	-	514.01

For the Period.....Maximum daily elevation, 515.14 feet on June 22
Minimum daily elevation, 513.97 feet on December 30

a - Manual gauge observations.

Location: Lat. 60° 51', long. 115° 48', Northwest Territories, on the west channel of the Hay River.

Gauge: Recording; elevations are referred to Geodetic Survey of Canada datum. Records for 1965 and 1966 water years, can be converted to present datum by adding 510.00 feet.

Period of Record: Miscellaneous elevations during the water year 1959 to 1960 and periods of varying length, July 1961 to September 1967.

Extremes Recorded: Maximum daily elevation, 516.22 feet on September 1, 1962. Minimum daily elevation, 513.62 feet on April 23, 1962.

Remarks: Elevations are referred to bench mark in base of 8-inch poplar, elevation 522.60 feet, approximate Geodetic Survey of Canada datum (from levels to GSC Bench Mark No. 906H).

Daily Elevations in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	515.56	514.82	514.72	514.79	514.83	514.73	514.50	514.30	514.93	515.81	-	-
2.....	515.40	514.87	514.75	514.83	514.87	514.74	514.59	514.32	514.97	515.83	-	-
3.....	515.39	514.89	514.71	514.77	514.69	514.72	514.61	514.32	514.93	515.88	-	-
4.....	515.36	514.93	514.73	514.72	514.79	514.73	514.52	514.35	514.98	515.97	-	-
5.....	515.64	515.04	514.71	514.80	514.74	514.74	514.54	514.36	515.02	515.94	-	-
6.....	515.37	514.75	514.71	514.84	514.72	514.62	514.57	-	515.13	515.99	-	-
7.....	515.32	514.75	514.73	514.84	514.83	514.74	514.52	-	515.08	516.02	-	-
8.....	515.34	514.79	514.71	514.80	514.87	514.74	514.54	-	515.16	516.05	-	-
9.....	515.55	514.78	514.70	514.72	514.75	514.64	514.56	-	515.22	516.05	-	-
10.....	515.32	514.71	514.66	514.90	514.71	514.60	514.53	-	515.27	516.02	-	-
11.....	515.36	514.66	514.66	514.77	514.72	514.59	514.58	-	515.29	516.02	-	-
12.....	515.46	514.68	514.79	514.75	514.75	514.65	514.64	-	515.32	516.01	-	-
13.....	515.17	514.61	514.72	514.71	514.71	514.62	514.49	-	515.36	516.08	-	-
14.....	515.12	514.68	514.76	514.65	514.74	514.53	514.49	-	515.41	516.04	-	-
15.....	515.25	514.76	514.81	514.68	514.76	514.52	514.53	-	515.44	516.03	-	-
16.....	515.37	514.72	514.80	514.70	514.74	514.54	514.44	-	515.45	516.09	-	-
17.....	515.43	514.64	514.81	514.73	514.73	514.63	514.39	-	515.51	516.08	-	-
18.....	515.26	514.67	514.81	514.71	514.76	514.59	514.39	-	515.46	516.04	-	-
19.....	515.27	514.74	514.73	514.87	514.78	514.63	514.40	514.57	515.52	515.99	-	-
20.....	515.40	514.72	514.75	514.85	514.68	514.55	514.42	514.58	515.53	516.00	-	-
21.....	515.48	514.65	514.75	514.78	514.67	514.61	514.45	514.60	515.54	516.03	-	-
22.....	515.20	514.66	514.72	514.72	514.74	514.62	514.48	514.64	515.52	516.02	-	-
23.....	515.05	514.71	514.80	514.71	514.78	514.61	514.42	514.62	515.62	516.12	-	-
24.....	515.16	514.76	514.85	514.75	514.79	514.56	514.39	514.70	515.63	516.19	-	-
25.....	514.80	514.71	514.69	514.72	514.82	514.54	514.39	514.73	515.71	516.02 a	-	-
26.....	515.04	514.72	514.66	514.75	514.71	514.59	514.37	514.79	515.74	-	-	-
27.....	515.05	514.63	514.79	514.75	514.84	524.63	514.36	514.86	515.82	-	-	-
28.....	515.07	514.64	514.81	514.74	514.82	514.65	514.38	514.88	515.82	-	-	-
29.....	515.09	514.60	514.81	514.75	-	514.60	514.37	514.93	515.80	-	-	-
30.....	515.13	514.67	514.86	514.75	-	514.56	514.30	514.91	515.77	-	-	-
31.....	514.91	-	514.88	514.81	-	514.56	-	514.87	-	-	-	-

a - Manual gauge observations.

Location: Lat. 63° 30' 43", long. 116° 00' 21", Northwest Territories, in Northern Canada Power Commission power house at the dam on Bigspruce Lake, about ninety miles northwest of Yellowknife.

Drainage Area: 5,880 square miles.

Period of Record: October 1949 to September 1967.

Mean Discharge: (18 years) 1,660 cfs.

Extremes Recorded: Maximum daily discharge, 8,355 cfs, August 2 to 8, 1959. Minimum daily discharge, 269 cfs, April 21 to 25, 1966.

Remarks: Discharge data computed by Northern Canada Power Commission from turbine and spillway ratings and observations of forebay storage. The discharges represent natural inflow to Bigspruce Lake less evaporation from the lake; they approximate the natural outflow from the lake but have not been corrected for variations in storage in the natural lake. Records for the years 1950 to 1959 were published in WRP 127.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	1,340	1,160	1,020	940	942	808	651	489	1,180	1,810	3,760	3,590
2.....	1,340	1,160	1,020	940	942	808	651	489	1,180	1,810	3,760	3,590
3.....	1,340	1,160	1,020	940	942	808	651	489	1,180	1,810	3,760	3,590
4.....	1,340	1,160	1,020	940	942	808	651	489	1,180	1,810	3,760	3,590
5.....	1,340	1,160	1,020	940	942	808	651	489	1,180	1,810	3,760	3,590
6.....	1,630	1,280	1,120	854	674	582	546	454	1,180	2,280	2,880	3,200
7.....	1,630	1,280	1,120	854	674	582	546	454	1,180	2,280	2,880	3,200
8.....	1,630	1,280	1,120	854	674	582	546	454	1,180	2,280	2,880	3,200
9.....	1,630	1,280	1,120	854	674	582	546	454	1,180	2,280	2,880	3,200
10.....	1,630	1,280	1,120	854	674	582	546	454	1,180	2,280	2,880	3,200
11.....	1,490	1,200	1,090	888	894	797	749	693	1,150	2,840	3,740	3,140
12.....	1,490	1,200	1,090	888	894	797	749	693	1,150	2,840	3,740	3,140
13.....	1,490	1,200	1,090	888	894	797	749	693	1,150	2,840	3,740	3,140
14.....	1,490	1,200	1,090	888	894	797	749	693	1,150	2,840	3,740	3,140
15.....	1,490	1,200	1,090	888	894	797	749	693	1,150	2,840	3,740	3,140
16.....	1,270	1,100	1,030	900	660	576	475	636	808	3,140	3,580	2,760
17.....	1,270	1,100	1,030	900	660	576	475	636	808	3,140	3,580	2,760
18.....	1,270	1,100	1,030	900	660	576	475	636	808	3,140	3,580	2,760
19.....	1,270	1,100	1,030	900	660	576	475	636	808	3,140	3,580	2,760
20.....	1,270	1,100	1,030	900	660	576	475	636	808	3,140	3,580	2,760
21.....	1,460	1,350	1,100	861	745	485	590	989	1,130	3,400	3,700	1,890
22.....	1,460	1,350	1,100	861	745	485	590	989	1,130	3,400	3,700	1,890
23.....	1,460	1,350	1,100	861	745	485	590	989	1,130	3,400	3,700	1,890
24.....	1,460	1,350	1,100	861	745	485	590	989	1,130	3,400	3,700	1,890
25.....	1,460	1,350	1,100	861	745	485	590	989	1,130	3,400	3,700	1,890
26.....	1,080	1,060	922	858	934	934	489	1,010	1,110	3,550	3,490	2,660
27.....	1,080	1,060	922	858	934	934	489	1,010	1,110	3,550	3,490	2,660
28.....	1,080	1,060	922	858	934	934	489	1,010	1,110	3,550	3,490	2,660
29.....	1,080	1,060	922	858	-	934	489	1,010	1,110	3,550	3,490	2,660
30.....	1,080	1,060	922	858	-	934	489	1,010	1,110	3,550	3,490	2,660
31.....	1,080	-	922	858	-	934	-	1,010	-	3,550	3,490	-
Total	42,430	35,750	32,332	27,363	22,377	21,894	17,500	22,365	32,790	88,650	109,240	86,200
Mean	1,370	1,190	1,040	883	799	706	583	721	1,090	2,860	3,520	2,870
Acre-feet	84,160	70,910	64,130	54,270	44,380	43,430	34,710	44,360	65,040	175,800	216,700	171,000

For the Year..... Mean discharge, 1,480 cfs
Total discharge, 1,069,000 ac-ft

POCKET LAKE OUTLET NEAR YELLOWKNIFE - STATION No. 7SB-8

Location: Lat. 62° 30' 36", long. 114° 22' 16", Northwest Territories, about four miles north of Yellowknife and about one-quarter mile above confluence with Baker Creek.

Drainage Area: 0.058 square mile.

Gauge: Recording.

Period of Record: April to October 1967.

Remarks: Records excellent. Control is a 2.0-foot head, 90° V notch weir. No flow during 1967.

MUSKEG CREEK NEAR YELLOWKNIFE - STATION No. 7SB-7

Location: Lat. 62° 32' 10", long. 114° 23' 28", Northwest Territories, about six and one-half miles north of Yellowknife and located in the Baker Creek Watershed.

Drainage Area: 0.091 square mile.

Gauge: Recording.

Period of Record: April to August 1967.

Extremes Recorded: Minimum daily discharge, 0.00 cfs at various times.

Remarks: Records poor. Control is a 2.0-foot head, 90° V notch weir.

Daily Discharge in Cubic Feet per Second for the 1967 Calendar Year

Day	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	-	-	-	0.00	0.00	0.00	0.00	0.00	-	-	-	-
2.....	-	-	-	0.00	0.00	0.00	0.00	0.00	-	-	-	-
3.....	-	-	-	0.00	0.00	0.00	0.00	0.00	-	-	-	-
4.....	-	-	-	0.00	0.00	0.00	0.00	0.00	-	-	-	-
5.....	-	-	-	0.00	0.00 ^t	0.00	0.00	0.00	-	-	-	-
6.....	-	-	-	0.00	0.01	0.00	0.00	0.00	-	-	-	-
7.....	-	-	-	0.00	0.04	0.00	0.00	0.00	-	-	-	-
8.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
9.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
10.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
11.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
12.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
13.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
14.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
15.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
16.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
17.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
18.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
19.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
20.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
21.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
22.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
23.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
24.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
25.....	-	-	-	0.00	-	0.00	0.00	0.00	-	0.00	-	-
26.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
27.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
28.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
29.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
30.....	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
31.....	-	-	-	-	-	-	0.00	0.00	-	-	-	-
Total	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
Mean	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-
Acre-feet	-	-	-	0.00	-	0.00	0.00	0.00	-	-	-	-

t - Discharge of 0.005 or less.

YELLOWKNIFE RIVER AT INLET TO PROSPEROUS LAKE - STATION No. 7SB-3

Location: Lat. 62° 40' 10", long. 114° 15' 45", Northwest Territories, below Bluefish Lake dam at inlet at north end of Prosperous Lake and about fifteen miles north of Yellowknife on Yellowknife Bay, Great Slave Lake.

Drainage Area: 4,350 square miles.

Period of Record: January to October 1939, January to July 1940, and January 1941 to September 1967.

Mean Discharge: (26 years) 956 cfs.

Extremes Recorded: Maximum daily discharge (regulated), 3,440 cfs on July 28, 1964. Minimum daily discharge (regulated), 146 cfs on July 2, 1943.

Revisions: 1939, WRP 117; 1942, WRP 125.

Remarks: Data supplied by Consolidated Mining and Smelting Company. Since January 26, 1941, published figures are the sum of the flow past Bluefish Lake Dam about Prosperous Lake and the flow diverted to the power plant at site Y2.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	784	640	559	756	630	626	594	592	1,048	1,228	1,976	1,442
2.....	775	640	557	748	626	632	595	592	1,121	1,222	1,987	1,425
3.....	773	638	556	748	623	636	595	592	1,204	1,216	2,005	1,383
4.....	771	634	553	740	620	637	595	592	1,294	1,209	1,976	1,360
5.....	769	633	552	740	619	636	593	592	1,313	1,203	1,958	1,342
6.....	767	626	551	737	618	637	594	592	1,329	1,198	1,947	1,325
7.....	765	620	547	736	615	638	592	588	1,349	1,186	1,935	1,308
8.....	770	616	549	726	608	637	590	588	1,372	1,180	1,922	1,289
9.....	774	611	549	726	604	630	589	586	1,390	1,166	1,904	1,264
10.....	757	607	548	716	599	622	590	586	1,414	1,168	1,887	1,241
11.....	749	603	548	727	591	616	589	586	1,443	1,162	1,868	1,229
12.....	741	598	548	707	590	611	587	584	1,462	1,161	1,857	1,211
13.....	734	594	549	699	589	607	587	582	1,485	1,162	1,845	1,194
14.....	730	591	551	698	588	601	586	584	1,503	1,167	1,834	1,176
15.....	723	589	439	689	589	600	585	582	1,503	1,174	1,799	1,170
16.....	722	585	559	699	590	598	586	582	1,502	1,179	1,764	1,158
17.....	721	584	561	691	590	594	586	584	1,501	1,190	1,727	1,147
18.....	714	579	564	675	591	591	587	583	1,472	1,233	1,708	1,131
19.....	705	575	572	663	590	586	586	583	1,472	1,410	1,696	1,122
20.....	700	573	576	657	590	584	587	582	1,443	1,499	1,678	1,108
21.....	697	570	583	652	589	581	587	585	1,442	1,552	1,648	1,096
22.....	694	568	601	648	584	581	587	586	1,412	1,588	1,637	1,061
23.....	687	569	619	642	581	584	590	588	1,382	1,679	1,608	1,046
24.....	689	569	640	639	588	585	589	590	1,363	1,739	1,583	1,027
25.....	684	571	666	641	594	587	587	592	1,194	1,798	1,560	1,014
26.....	679	568	691	641	602	587	585	590	1,341	1,858	1,535	997
27.....	671	567	718	639	610	591	586	589	1,290	1,888	1,507	991
28.....	663	565	728	637	621	594	585	588	1,270	1,917	1,500	988
29.....	656	562	725	638	-	594	583	587	1,252	1,934	1,482	985
30.....	649	561	715	638	-	594	583	586	1,238	1,934	1,471	980
31.....	641	-	765	635	-	593	-	587	-	1,946	1,460	-
Total	22,354	17,806	18,439	21,328	16,829	18,790	17,655	18,200	40,804	44,146	54,264	35,210
Mean	721	594	595	688	601	606	588	587	1,360	1,420	1,750	1,170
Acre-feet	44,340	35,320	36,570	42,300	33,380	37,270	35,020	36,100	80,930	87,560	107,600	69,840

For the Year..... Maximum daily discharge, 2,005 cfs on August 3
 Minimum daily discharge, 439 cfs on December 15
 Mean discharge, 893 cfs
 Total discharge, 646,200 ac-ft

LOCKHART RIVER AT OUTLET FROM ARTILLERY LAKE - STATION No. 7RD-1

Location: Lat. 62° 53' 20", long. 108° 28' 20", Northwest Territories, approximately two hundred and thirty air miles northeast of Fort Smith.

Drainage Area: 10,300 square miles.

Gauge: Recording.

Period of Record: September 1944, August 1945 to September 1949 and May 1963 to September 1967; miscellaneous measurements in 1950, 1951 and 1962.

Mean Discharge: (6 years) 4,340 cfs.

Extremes Recorded: Maximum daily discharge, 8,690 cfs on October 18, 1963. Minimum daily discharge, 2,190 cfs on May 5, 1947.

Remarks: Records fair.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	5,520	-	-	4,020 e	-	3,230	2,870	2,600	2,640	3,820	-	5,670
2.....	5,480	-	-	4,000 e	-	3,160	2,830	2,590	2,790	3,820	-	5,610
3.....	5,540	-	-	3,990 e	-	3,180	2,880	2,610	2,750	3,820	-	5,480
4.....	5,610	-	-	3,970 a	-	3,160	2,860	2,640	2,730	3,840	-	5,500
5.....	5,690	-	-	4,000	-	3,120	2,880	2,690	2,790	3,880	-	5,500
6.....	5,590	-	-	4,010	-	3,080	2,900	2,700	2,880	3,880	-	5,560
7.....	5,480	-	4,450 a	4,010	-	3,120	2,820	2,630	2,990	3,900	-	5,610
8.....	5,440	-	-	4,030	-	3,100	2,840	2,610	3,010	3,900	-	5,580
9.....	5,580	-	-	4,010	-	3,080	2,870	2,590	3,050	3,970	-	5,540
10.....	5,460	-	-	4,000	-	3,040	2,860	2,570	3,120	3,980	-	5,540
11.....	5,560	-	-	4,050	-	3,020	2,880	2,540	3,180	3,970	-	5,560
12.....	5,650	-	-	4,050	-	3,040	2,910	2,550	3,210	3,980	-	5,560
13.....	5,370	-	-	4,010	-	3,060	2,880	2,550	3,280	4,010	-	5,540
14.....	5,300	-	-	3,950	-	3,020	2,840	2,550	3,350	4,050	-	5,520
15.....	5,390	-	-	3,940	-	2,970	2,810	2,470	3,400	4,090	-	5,520
16.....	5,430	-	-	3,920	-	2,960	2,780	2,470	3,430	4,140	-	5,520
17.....	5,460	-	-	3,900	-	3,010	2,750	2,490	3,490	4,170	-	5,540
18.....	5,260	-	-	3,880	-	3,040	2,760	2,490	3,490	4,220	-	5,540
19.....	5,340	-	-	3,860	-	3,040	2,720	2,450	3,540	4,290	-	5,730
20.....	5,330 e	-	-	3,860	-	3,010	2,720	2,470	3,580	4,330	-	5,690
21.....	5,310 e	-	-	3,860	-	3,000	2,730	2,490	3,560	4,330	-	5,610
22.....	5,290 e	-	-	3,840	-	3,010	2,750	2,490	3,560	4,330	-	5,690
23.....	5,280 e	-	-	3,780	-	2,970	2,750	2,460	3,590	4,350	-	5,610
24.....	5,260 e	-	-	3,740	-	3,000	2,710	2,420	3,640	4,450	-	5,590
25.....	5,240 e	-	-	3,700	-	2,950	2,690	2,450	3,680	4,600	-	5,590
26.....	5,220 e	-	-	3,700	-	2,950	2,700	2,450	3,740	4,620 e	-	5,580
27.....	5,200 e	-	-	3,680	3,210 a	2,930	2,690	2,470	3,760	4,650 e	-	5,560
28.....	5,180 e	-	-	3,680	3,260	2,930	2,690	2,530	3,780	4,670 e	-	5,590
29.....	5,170 e	-	-	3,680	-	2,920	2,710	2,550	3,880	4,690 e	5,430 a	5,540
30.....	5,150 e	-	-	3,660	-	2,870	2,670	2,590	3,880	4,720 e	5,430	5,540
31.....	5,130 e	-	-	3,650	-	2,880	-	2,610	-	4,740 e	5,500	-
Total	166,910	-	-	120,430	-	93,850	83,750	78,770	99,770	130,210	-	167,210
Mean	5,380	-	-	3,880	-	3,030	2,700	2,540	3,330	4,200	-	5,570
Acre-feet	331,100	-	-	238,900	-	186,200	166,100	156,200	197,900	258,300	-	331,700

a - Manual gauge observations.

e - Estimated.

NONACHO LAKE NEAR SNOWDRIFT - STATION No. 7QD-2

Location: Lat. 61° 43' 05", long. 109° 40' 00", Northwest Territories, sixty air miles southeast of Snowdrift, one hundred and forty-five air miles northeast of Fort Smith, on northeast tip of small island.

Gauge: Recording; gauge heights are referred to an assumed datum. Gauge heights prior to 1965 may be converted to present datum, by subtracting 80.00 feet.

Period of Record: Periods of varying length, 1962 to 1967.

Extremes Recorded: Maximum daily gauge height, 14.93 feet on August 3, 1962 (referred to present datum). Minimum daily gauge height, 10.6 feet on May 10, 1966.

Remarks: Gauge heights are referred to a one-inch diameter steel pin in bedrock, painted red, elevation 104.19 feet assumed datum.

Daily Gauge Heights in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	13.33	13.00	-	12.25	11.68	11.22	10.78	10.44	11.08	12.79	13.84	13.82
2.....	13.31	13.00	-	12.21	11.67	11.20	10.78	10.43	11.20	12.87	13.85	13.78
3.....	13.30	13.00	-	12.20	11.63	11.20	10.76	10.41	11.25	12.88	13.85	13.75
4.....	13.29	13.00	-	12.18	11.61	11.18	10.74	10.38	11.28	12.92	13.86	13.74
5.....	13.30	13.00	-	12.16	11.61	11.17	10.73	10.36	11.35	12.99	13.85	13.76
6.....	13.28	13.00	-	12.13	11.59	11.14	10.72	10.38	11.40	13.05	13.85	13.74
7.....	13.28	13.00	-	12.12	11.55	11.14	10.72	10.42	11.48	13.11	13.85	13.72
8.....	13.27	13.00	12.68	12.10	11.54	11.11	10.71	10.44	11.56	13.14	13.85	13.71
9.....	13.27	13.00	12.68	12.08	11.52	11.10	10.71	10.46	11.61	13.16	13.84	13.71
10.....	13.27	13.00	12.67	12.07	11.51	11.07	10.68	10.46	11.67	13.18	13.85	13.68
11.....	13.27	13.00	12.66	12.08	11.48	11.06	10.68	10.46	11.72	13.20	13.85	13.67
12.....	13.27	12.99	12.64	12.05	11.46	11.05	10.66	10.44	11.80	13.23	13.82	13.66
13.....	13.27	12.97	12.63	12.01	11.44	11.04	10.65	10.45	11.86	13.32	13.84	13.65
14.....	13.26	12.96	12.61	11.99	11.43	11.01	10.62	10.46	11.90	13.33	13.85	13.62
15.....	13.26	12.96	12.57	11.95	11.41	10.99	10.62	10.48	11.99	13.34	13.84	13.61
16.....	13.26	12.94	12.56	11.93	11.41	10.99	10.55	10.53	12.04	13.37	13.82	13.59
17.....	13.24	12.93	12.53	11.92	11.40	10.95	10.52	10.53	12.09	13.38	13.83	13.57
18.....	13.22	12.93	12.52	11.91	11.37	10.94	10.52	10.53	12.19	13.38	13.79	13.55
19.....	13.22	12.92	12.51	11.90	11.34	10.92	10.52	10.55	12.23	13.38	13.81	13.55
20.....	13.20	12.91	12.50	11.89	11.34	10.91	10.50	10.56	12.29	13.41	13.80	13.55
21.....	13.19	12.89	12.48	11.88	11.32	10.90	10.51	10.58	12.37	13.42	13.83	13.54
22.....	13.16	12.87	12.45	11.85	11.29	10.87	10.50	10.64	12.39	13.41	13.85	13.53
23.....	13.16	-	12.42	11.83	11.28	10.86	10.50	10.65	12.43	13.44	13.84	13.49
24.....	13.14	-	12.41	11.82	11.28	10.86	10.50	10.68	12.48	13.55	13.87	13.47
25.....	13.02	-	12.39	11.80	11.27	10.85	10.47	10.74	12.52	13.64	13.85	13.44
26.....	12.99	-	12.35	11.79	11.27	10.85	10.48	10.79	12.66	13.70	13.84	13.42
27.....	12.99	-	12.33	11.75	11.25	10.82	10.46	10.84	12.69	13.78	13.84	13.38
28.....	12.99	-	12.33	11.75	11.25	10.82	10.45	10.87	12.70	13.80	13.81	13.32
29.....	12.99	-	12.29	11.72	-	10.81	10.45	10.94	12.76	13.81	13.80	13.26
30.....	13.00	-	12.25	11.69	-	10.79	10.45	10.99	12.77	13.82	13.80	13.27
31.....	13.00	-	12.27	11.69	-	10.76	-	11.05	-	13.82	13.82	-

For the Period..... Maximum daily gauge height, 13.87 feet on August 24
 Minimum daily gauge height, 10.36 feet on May 5

Record from November 23 to December 7 missing as clock stopped.

TALTSON RIVER AT OUTLET TSU LAKE - STATION No. 7QD-1

Location: Lat. 60° 38' 50", long. 111° 56' 35", Northwest Territories, forty-four air miles from Fort Smith, at outlet on west side of Tsu Lake.

Drainage Area: 23,900 square miles gross; 19,900 square miles excluding Tazin Lake basin. A substantial portion of runoff in the Tazin Lake basin is diverted to the Athabasca Lake basin via Charlot River.

Gauge: Recording.

Period of Record: March 1952 to July 1954 and March 1962 to September 1967.

Mean Discharge: (5 years) 6,570 cfs.

Extremes Recorded: Maximum instantaneous discharge, 16,400 cfs at 10 p.m. on July 25, 1962. Minimum daily discharge, 2,010 cfs on April 24, 1953.

Remarks: Records good.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	11,400	11,000	9,350 e	7,810 e	6,020	4,780	3,860	3,260	6,840	8,960	11,600	11,700
2.....	11,400	11,000	9,300 e	7,760 e	6,010	4,740	3,850	3,270	7,010	9,000	11,600	11,700
3.....	11,400	10,900	9,250 e	7,710 e	5,930	4,720	3,850	3,240	7,140	9,070	11,700	11,700
4.....	11,500	10,900	9,200 e	7,660 e	5,860	4,710	3,820	3,240	7,210	9,160	11,700	11,600
5.....	11,400	10,800	9,140 e	7,610 e	5,830	4,650	3,800	3,260	7,330	9,280	11,700	11,500
6.....	11,400	10,700	9,100 e	7,560 a	5,800	4,620	3,740	3,310	7,360	9,360	11,800	11,500
7.....	11,400	10,600	9,040 e	7,550	5,730	4,610	3,730	3,320	7,410	9,500	11,800	11,500
8.....	11,500	10,600	9,000 a	7,470	5,690	4,580	3,720	3,390	7,470	9,580	11,900	11,300
9.....	11,500	10,500	8,950 e	7,410	5,660	4,550	3,670	3,420	7,540	9,720	11,900	11,300
10.....	11,500	10,400	8,900 e	7,390	5,610	4,490	3,640	3,470	7,600	9,770	11,900	11,200
11.....	11,500	10,400	8,850 e	7,360	5,520	4,450	3,610	3,580	7,640	9,800	12,000	11,100
12.....	11,500	10,300	8,800 e	7,310	5,480	4,450	3,580	3,620	7,680	9,850	12,000	11,100
13.....	11,400	10,200	8,750 e	7,260	5,430	4,430	3,580	3,730	7,740	9,990	12,000	11,000
14.....	11,400	10,200	8,700 e	7,170	5,360	4,400	3,580	3,840	7,810	10,100	12,000	11,000
15.....	11,400	10,100	8,650 e	7,080	5,320	4,310	3,590	3,920	7,880	10,100	12,000	10,900
16.....	11,400	10,100	8,600 e	7,010	5,250	4,290	3,550	4,060	7,940	10,200	12,000	10,800
17.....	11,400	10,000	8,550 e	6,950	5,220	4,270	3,500	4,170	8,040	10,200	12,000	10,700
18.....	11,300	9,990	8,500 e	6,860	5,180	4,270	3,510	4,310	8,180	10,300	12,000	10,700
19.....	11,300	9,910	8,450 e	6,800	5,140	4,260	3,500	4,450	8,260	10,400	11,900	10,700
20.....	11,300	9,890	8,400 e	6,700	5,070	4,190	3,480	4,560	8,310	10,500	11,900	10,600
21.....	11,300	9,850	8,350 e	6,640	5,020	4,130	3,430	4,710	8,400	10,600	11,900	10,500
22.....	11,300	9,800	8,300 e	6,560	5,010	4,100	3,430	4,890	8,430	10,700	11,900	10,500
23.....	11,300	9,740	8,250 e	6,490	5,000	4,070	3,400	5,080	8,490 e	10,800	11,900	10,400
24.....	11,300	9,690 e	8,200 e	6,390	4,940	4,040	3,350	5,350	8,560 e	10,900	11,800	10,300
25.....	11,200	9,640 e	8,160 e	6,320	4,890	4,040	3,340	5,540	8,620 e	11,000	11,800	10,300
26.....	11,200	9,590 e	8,110 e	6,260	4,880	4,030	3,310	5,800	8,680 e	11,100	11,800	10,100
27.....	11,200	9,540 e	8,060 e	6,220	4,880	4,020	3,270	5,970	8,740 e	11,200	11,800	10,100
28.....	11,100	9,490 e	8,010 e	6,190	4,880	4,020	3,260	6,170	8,800 e	11,300	11,800	10,100
29.....	11,100	9,440 e	7,960 e	6,170	-	3,980	3,260	6,350	8,860 a	11,300	11,700	10,000
30.....	11,100	9,390 e	7,910 e	6,150	-	3,960	3,240	6,520	8,940	11,400	11,700	9,940
31.....	11,000	-	7,860 e	6,080	-	3,920	-	6,720	-	11,500	11,700	-
Total	351,400	304,660	266,650	215,900	150,610	134,080	106,450	136,520	238,910	316,640	367,200	325,840
Mean	11,300	10,200	8,600	6,960	5,380	4,330	3,550	4,400	7,960	10,200	11,800	11,000
Acre-feet	697,000	604,300	528,900	428,200	298,700	265,900	211,100	270,800	473,900	628,000	728,300	646,300

For the Year..... Maximum daily discharge, 12,000 cfs, August 10 to 18
 Minimum daily discharge, 3,240 cfs on April 30 and May 3 and 4
 Mean discharge, 7,990 cfs
 Total discharge, 5,781,000 ac-ft

a - Manual gauge observations.

e - Estimated.

SLAVE RIVER AT BELL ROCK - STATION No. 7NB-3

Location: Lat. 60° 01' 35", long. 112° 05' 30", Northwest Territories, on landing dock at Bell Rock, ten miles north of Fort Smith.
Gauge: Manual; gauge heights are referred to an assumed datum. Data to 1963 may be converted to present datum by subtracting 10.00 feet.

Period of Record: Gauge heights only, mainly open water, 1948 to 1967.

Extremes Recorded: Maximum daily gauge height, 32.18 feet on May 18, 1967 (from high water mark). Minimum daily gauge height, 5.19 feet on February 25, 1966.

Remarks: This station was established when Station No. 7NB-2, Slave River at Fort Smith, was abandoned. Gauge heights are referred to bolt head on top of spruce stump about one hundred and fifty feet south of Northern Transportation Company office, gauge height 35.80 feet.

Daily Gauge Heights in Feet for the 1967 Calendar Year

Day	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	-	-	-	-	-	13.22	-	12.12	8.50	-	-	-
2.....	-	-	-	-	-	13.31	-	11.97	-	7.02	-	-
3.....	-	-	-	-	-	13.27	15.91	11.88	-	6.91	-	-
4.....	-	-	-	-	-	-	15.78	11.83	-	6.70	-	-
5.....	-	-	-	-	-	14.27	15.58	-	8.07	6.56	-	-
6.....	-	-	-	-	-	14.39	15.30	-	7.97	-	-	-
7.....	-	-	-	-	-	14.83	15.40	-	7.82	-	-	-
8.....	-	-	-	-	-	15.07	15.21	11.51	7.62	6.60	-	-
9.....	-	-	-	-	-	15.57	-	11.39	7.55	-	-	-
10.....	-	-	-	-	-	15.79	14.75	11.28	-	-	-	-
11.....	-	-	-	-	-	-	14.32	11.09	7.48	-	-	-
12.....	-	-	-	-	-	15.45	14.17	10.91	7.51	-	-	-
13.....	-	-	-	-	-	15.74	14.05	-	7.54	-	-	-
14.....	-	-	-	-	-	15.89	13.85	10.53	7.48	-	-	-
15.....	-	-	-	-	-	15.96	13.83	10.39	7.36	-	-	-
16.....	-	-	-	-	-	16.04	-	10.30	7.34	-	-	-
17.....	-	-	-	-	-	16.08	13.21	10.22	-	-	-	-
18.....	-	-	-	-	-	-	13.07	10.18	7.54	-	-	-
19.....	-	-	-	-	-	15.80	12.93	10.14	-	-	-	-
20.....	-	-	-	-	-	15.82	12.85	-	-	-	-	-
21.....	-	-	-	-	-	15.68	12.80	10.06	6.57	-	-	-
22.....	-	-	-	-	-	15.90	12.79	9.83	6.72	-	-	-
23.....	-	-	-	-	-	15.94	-	9.64	7.06	-	-	-
24.....	-	-	-	-	-	16.08	12.61	9.48	-	-	-	-
25.....	-	-	-	-	-	-	12.54	9.32	-	-	-	-
26.....	-	-	-	-	-	16.29	12.47	9.20	6.70	-	-	-
27.....	-	-	-	-	-	16.13	12.41	-	6.54	-	-	-
28.....	-	-	-	-	-	16.34	12.41	-	-	-	-	-
29.....	-	-	-	-	13.41	16.67	12.37	8.75	-	-	-	-
30.....	-	-	-	-	14.57	16.09	-	8.67	-	-	-	-
31.....	-	-	-	-	14.95	-	12.27	8.58	-	-	-	-

For the Period..... Maximum daily gauge height, 32.18 feet on May 18 (from high water mark)

LITTLE BUFFALO RIVER NEAR PINE POINT HIGHWAY - STATION No. 7PB-2

Location: Lat. 60° 02' 54", long. 112° 41' 59", Northwest Territories, one and one-quarter miles below Pine Point Highway.

Gauge: Recording.

Period of Record: Mainly June to October, 1965 to 1967.

Extremes Recorded: Maximum daily discharge, 1,540 cfs on May 13, 1966 (a higher discharge may have occurred before May 13).
Minimum daily discharge, 5.4 cfs on August 23, 1965.

Remarks: Records good.

Daily Discharge in Cubic Feet per Second for the 1967 Calendar Year

Day	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.....	-	-	-	-	<u>92.2</u>	<u>514</u>	225	439	<u>235</u>	<u>155</u>	194	-
2.....	-	-	-	-	297	504	202	<u>443</u>	218	157	188	-
3.....	-	-	-	-	466	499	188	434	199	160	177 a	-
4.....	-	-	-	-	514	494	180	434	188	160	-	-
5.....	-	-	-	-	509	490	188	408	174	157	-	-
6.....	-	-	-	-	494	490	185	399	164	157	-	-
7.....	-	-	-	-	485	490	180	399	160	160	-	-
8.....	-	-	-	-	485	490	180	394	157	169	-	-
9.....	-	-	-	-	518	485	177	386	157	177	-	-
10.....	-	-	-	-	568	475	177	373	155	182	-	-
11.....	-	-	-	-	<u>604</u>	471	185	369	157	194	-	-
12.....	-	-	-	-	578	462	180	369	160	215	-	-
13.....	-	-	-	-	553	448	177	361	164	235	-	-
14.....	-	-	-	-	523	439	174	356	164	249	-	-
15.....	-	-	-	-	499	434	169	352	160	260	-	-
16.....	-	-	-	-	466	421	169	352	157	263	-	-
17.....	-	-	-	-	462	416	164	356	150	263	-	-
18.....	-	-	-	-	504	430	167	361	146	263	-	-
19.....	-	-	-	-	504	421	167	365	142	263	-	-
20.....	-	-	-	-	523	408	162	373	140	263	-	-
21.....	-	-	-	-	528	386	157	373	<u>138</u>	261	-	-
22.....	-	-	-	-	538	365	155	369	<u>148</u>	259	-	-
23.....	-	-	-	-	548	344	<u>152</u>	361	160	256	-	-
24.....	-	-	-	-	548	320	<u>182</u>	352	167	252	-	-
25.....	-	-	-	-	548	300	340	348	169	246	-	-
26.....	-	-	-	-	543	278	369	340	172	238	-	-
27.....	-	-	-	-	528	263	365	332	167	228	-	-
28.....	-	-	-	-	538	260	348	320	162	222	-	-
29.....	-	-	-	75.2 a	538	242	344	300	157	215	-	-
30.....	-	-	-	87.5	533	<u>238</u>	<u>369</u>	278	155	209	-	-
31.....	-	-	-	-	528	-	394	<u>256</u>	-	202	-	-
Total	-	-	-	-	15,562.2	12,277	6,774	11,352	4,942	6,690	-	-
Mean	-	-	-	-	502	409	218	366	165	216	-	-
Acre-feet	-	-	-	-	30,870	24,350	13,430	22,520	9,800	13,270	-	-

For the Period..... Maximum daily discharge, 604 cfs on May 11
Minimum daily discharge, 92.2 cfs on May 1
Mean discharge, 313 cfs
Total discharge, 114,240 ac-ft

Ice conditions April 29 to May 14 and October 20 to November 3.

a - Manual gauge observations.

HAY RIVER NEAR HAY RIVER - STATION No. 7OB-1

Location: Lat. 60° 44' 45", long. 115° 51' 20", Northwest Territories, about six and one-half miles above Hay River.

Drainage Area: 18,500 square miles.

Gauge: Recording.

Period of Record: Periods of varying length, 1929 to 1931 and continuous, June 1963 to September 1967; miscellaneous measurements only in 1921 and 1952.

Extremes Recorded: Maximum instantaneous discharge, 36,000 cfs at 8.30 p.m. on May 10, 1967. Minimum daily discharge, 13.3 cfs on March 4, 1952.

Remarks: Records good.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	644	462	220	120	134	126	35.0	114	16,600	3,970	5,350	1,030
2.....	618	480	218	120	142	124	34.0	218	15,300	3,810	5,140	976
3.....	600	505	216	122	148	114	33.0	421	14,100	3,690	5,290	920
4.....	588	438	216	120	150	108	32.0	700	13,200	3,630	6,140	912
5.....	588	412	208	116	152	100	34.0	1,300	12,300	3,910	6,760	859
6.....	594	403	200	114	150	94.0	36.0	2,150	11,500	3,690	6,880	824
7.....	582	382	190	110	148	89.0	41.0	2,660	10,800	3,630	6,600	789
8.....	600	370	178	108	150	86.0	49.0	12,540 e	10,200	3,520	6,120	761
9.....	630	367	174	104	150	86.0	54.0	22,400 e	9,780	3,440	5,680	754
10.....	637	373	166	100	150	85.0	55.0	32,300	9,390	3,390	5,450	634
11.....	644	346	162	96.0	148	84.0	57.0	33,800	9,030	3,440	5,160	698
12.....	644	319	154	94.0	142	81.0	56.0	30,600	8,630	3,560	4,730	668
13.....	624	295	152	92.0	89.0	79.0	57.0	30,400	8,340	3,640	4,320	632
14.....	612	259	148	90.0	136	77.0	58.0	30,500	8,010	3,640	3,930	615
15.....	606	256	144	88.0	164	76.0	59.0	30,200	7,610	3,680	3,580	595
16.....	612	248	136	87.0	168	75.0	60.0	28,900	7,260	3,730	3,250	585
17.....	624	250	132	85.0	164	72.0	62.0	27,300	6,890	3,700	2,970	580
18.....	618	246	134	84.0	154	68.0	62.0	26,200	6,600	3,770	2,740	560
19.....	594	246	132	84.0	150	66.0	62.0	26,200	6,280	3,740	2,490	555
20.....	612	242	128	89.0	152	65.0	60.0	26,800	6,000	3,680	2,300	550
21.....	475	240	134	98.0	152	64.0	56.0	27,100	5,660	3,620	2,120	540
22.....	358	240	146	106	150	62.0	57.0	27,600	5,420	3,650	1,960	560
23.....	352	236	150	114	144	60.0	64.0	28,000	5,120	3,870	1,840	570
24.....	391	234	148	118	142	60.0	72.0	27,900	5,020	4,210	1,720	590
25.....	495	238	138	120	138	56.0	78.0	27,000	4,800	4,300	1,610	595
26.....	500	240	136	130	140	52.0	86.0	25,800	4,690	4,220	1,480	600
27.....	510	240	134	126	136	50.0	88.0	24,600	4,470	4,090	1,380	610
28.....	480	240	122	126	130	45.0	89.0	23,300	4,420	4,380	1,300	615
29.....	466	236	120	124	-	42.0	100	21,700	4,330	5,270	1,210	605
30.....	480	226	124	124	-	39.0	108	19,800	4,210	5,540	1,160	605
31.....	475	-	118	126	-	38.0	-	18,100	-	5,530	1,090	-
Total	17,253	9,269	4,878	3,335	4,073	2,323	1,794	636,603	245,960	121,940	111,750	20,387
Mean	557	309	157	108	145	74.9	59.8	20,500	8,200	3,930	3,600	680
Acre-feet	34,220	18,380	9,680	6,610	8,080	4,610	3,560	1,263,000	487,900	241,900	221,700	40,440

For the Year.....Maximum instantaneous discharge, 36,000 cfs at 8.30 p.m. on May 10
 Minimum daily discharge, 32.0 cfs on April 4
 Mean discharge, 3,230 cfs
 Total discharge, 2,340,000 ac-ft

Ice conditions October 20 to May 6.

e - Estimated.

KAKISA RIVER AT OUTLET OF KAKISA LAKE - STATION No. 7UC-1

Location: Lat. 60° 55', long. 117° 25', Northwest Territories, at downstream boundary of Indian Settlement.

Drainage Area: 5,770 square miles.

Gauge: Recording.

Period of Record: June to November 1962 and continuous, September 1963 to September 1967.

Extremes Recorded: Maximum instantaneous discharge, 7,140 cfs at 10.10 p.m. on June 19, 1967. Minimum daily discharge, 290 cfs on May 1, 1967.

Remarks: Records good.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	1,270	1,180	940	618	434	350	325	290	4,220	5,190	2,750	1,830
2.....	1,270	1,180	930	610	434	345	325	295	4,380	4,990	2,730	1,890
3.....	1,270	1,180	910	594	416	345	325	295	4,600	4,830	2,700	1,890
4.....	1,270	1,180	900	586	410	345	335	300	4,800	4,720	2,620	1,670
5.....	1,380	1,150	890	586	422	335	335	315	5,080	4,640	2,570	1,690
6.....	1,180	1,150	870	570	416	325	335	325	5,320	4,490	2,610	1,690
7.....	1,240	1,150	860	570	416	330	335	345	5,650	4,410	2,540	1,660
8.....	1,310	1,130	850	556	416	325	340	360	5,740	4,200	2,610	1,620
9.....	1,300	1,140	840	549	404	320	335	392	5,910	4,100	2,700	1,600
10.....	1,230	1,130	830	549	398	325	340	428	6,070	4,120	2,570	1,670
11.....	1,230	1,110	821	549	404	320	340	464	6,250	3,980	2,820	1,600
12.....	1,230	1,100	812	542	398	320	345	514	6,320	3,900	2,640	1,590
13.....	1,230	1,070	812	528	392	325	345	563	6,440	3,780	2,480	1,590
14.....	1,220	1,060	812	507	380	325	340	618	6,510	3,700	2,330	1,590
15.....	1,220	1,050	794	496	380	320	330	695	6,440	3,640	2,200	1,580
16.....	1,220	1,050	794	482	386	320	320	758	6,550	3,600	2,200	1,530
17.....	1,220	1,050	767	482	380	325	335	850	6,600	3,550	2,200	1,440
18.....	1,220	1,040	758	470	380	325	335	970	6,620	3,530	2,130	1,500
19.....	1,210	1,040	731	470	375	330	335	1,070	6,620	3,530	2,150	1,780
20.....	1,210	1,040	722	470	375	325	325	1,180	6,580	3,400	2,100	1,530
21.....	1,210	1,020	713	464	370	325	315	1,350	6,410	3,360	2,120	1,460
22.....	1,210	1,010	695	464	360	325	320	1,530	6,370	3,260	2,060	1,510
23.....	1,200	1,000	686	458	365	320	305	1,740	6,280	3,200	1,960	1,420
24.....	1,200	1,000	677	470	355	310	305	1,940	6,230	3,150	2,020	1,380
25.....	1,200	980	677	464	360	315	300	2,180	6,160	2,970	2,020	1,370
26.....	1,200	970	668	464	355	315	305	2,430	5,930	2,890	2,070	1,450
27.....	1,200	950	659	458	360	320	295	2,700	5,800	2,710	2,020	1,440
28.....	1,190	950	659	452	360	320	295	2,980	5,740	2,730	1,950	1,770
29.....	1,190	950	642	446	-	325	295	3,300	5,650	2,820	1,880	1,410
30.....	1,190	940	634	440	-	325	295	3,600	5,410	2,820	1,880	1,310
31.....	1,190	-	626	434	-	325	-	3,960	-	2,770	1,890	-
Total	38,110	31,950	23,979	15,798	10,901	10,105	9,710	38,737	176,680	114,980	71,520	47,460
Mean	1,230	1,060	774	510	389	326	324	1,250	5,890	3,710	2,310	1,580
Acre-feet	75,590	63,370	47,560	31,330	21,620	20,040	19,260	76,830	350,400	228,100	141,900	94,140

For the Year.....Maximum instantaneous discharge, 7,140 cfs at 10.10 p.m. on June 19
 Minimum daily discharge, 290 cfs on May 1
 Mean discharge, 1,620 cfs
 Total discharge, 1,170,000 ac-ft

Ice conditions November 22 to April 29.

Estimated October 1 to 3 and October 12 to November 3.

TROUT RIVER NEAR OUTLET OF TROUT LAKE - STATION No. 10FA-1

Location: Lat. 60° 46' 00", long. 121° 06' 30", Northwest Territories, about one and one-half miles below Outlet of Trout Lake and seventy-five miles south of Fort Simpson.

Gauge: Recording.

Period of Record: Miscellaneous measurements only in 1965 and 1966 and February to September 1967.

Remarks: Records good during open-water periods and poor during ice period.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	-	-	-	-	58.0	71.0	139	192	5,310	2,270	868	324
2.....	-	-	-	-	58.0	71.0	141	192	5,180	2,240	882	364
3.....	-	-	-	-	59.0	73.0	143	195	5,160	2,170	728	288
4.....	-	-	-	-	59.0	76.0	145	198	4,990	1,970	770	332
5.....	-	-	-	-	60.0	78.0	148	216	5,060	2,120	742	356
6.....	-	-	-	-	60.0	80.0	150	225	4,970	2,080	670	332
7.....	-	-	-	-	61.0	82.0	152	267	4,820	1,970	791	352
8.....	-	-	-	-	61.0	84.0	154	312	4,770	1,860	819	340
9.....	-	-	-	-	62.0	86.0	157	400	4,750	1,820	812	344
10.....	-	-	-	-	62.0	89.0	159	505	4,500	1,760	721	360
11.....	-	-	-	-	63.0	92.0	161	676	4,450	1,710	882	267
12.....	-	-	-	60.0 a	63.0	94.0	163	958	4,400	1,640	812	320
13.....	-	-	-	60.0	63.0	96.0	166	1,400	4,350	1,500	604	392
14.....	-	-	-	59.0	64.0	98.0	168	1,770	4,200	1,570	520	320
15.....	-	-	-	59.0	64.0	100	170	2,190	4,100	1,530	485	320
16.....	-	-	-	58.0	65.0	103	172	2,710	3,940	1,530	550	267
17.....	-	-	-	58.0	65.0	105	175	3,120	3,860	1,500	616	261
18.....	-	-	-	58.0	66.0	107	177	3,500	3,800	1,720	490	297
19.....	-	-	-	57.0	66.0	109	179	3,780	3,620	1,580	520	279
20.....	-	-	-	57.0	67.0 a	112	181	4,040	3,360	1,250	470	261
21.....	-	-	-	57.0	67.0	114	183	4,310	3,350	1,270	460	207
22.....	-	-	-	56.0	68.0	116	186	4,310	3,320	1,090	400	225
23.....	-	-	-	56.0 a	68.0	118	189	4,740	3,240	861	412	258
24.....	-	-	-	55.0	69.0	121	190	4,920	3,070	990	470	243
25.....	-	-	-	55.0	69.0	123	192	5,040	2,930	942	538	267
26.....	-	-	-	55.0	70.0	125	195	5,180	2,810	942	532	352
27.....	-	-	-	56.0	70.0	127	197	5,240	2,740	903	425	255
28.....	-	-	-	56.0	71.0	130	199	5,290	2,770	950	404	237
29.....	-	-	-	57.0	-	132	202	5,290	2,580	950	412	213
30.....	-	-	-	57.0	-	134	204	5,290	2,350	910	408	168
31.....	-	-	-	57.0	-	136	-	5,330	-	833	316	-
Total	-	-	-	-	1,798.0	3,182.0	5,137	81,786	118,750	46,431	18,529	8,801
Mean	-	-	-	-	64.0	103	171	2,640	3,960	1,500	598	293
Acre-feet	-	-	-	-	3,570	6,310	10,190	162,200	223,500	92,090	36,750	17,460

For the Period..... Maximum daily discharge, 5,330 cfs on May 31
 Minimum daily discharge, 55.0 cfs on January 24, 25 and 26

Ice conditions October 22 to April 29.

a - Manual gauge observations.

LIARD RIVER AT FORT LIARD - STATION No. 10ED-1

Location: Lat. 60° 14' 35", long. 123° 28' 45", Northwest Territories, at Hudson's Bay Company Post, approximately three quarters of a mile downstream from Petitot River.

Drainage Area: 85,700 square miles.

Gauge: Recording, (installed in June 1966 at former manual gauge location).

Period of Record: Gauge heights only, mainly open water, 1942 to 1958; discharges, periods of varying length, October 1958 to September 1967. Records prior to 1965 were published under Station No. 10DB-1.

Extremes Recorded: Maximum daily discharge, 581,000 cfs on July 11, 1963 (a discharge of 654,000 cfs was observed at 6.30 p.m. on July 11, 1963). Minimum daily discharge, 7,400 cfs, March 15 to 17, 1966.

Remarks: Records fair except for estimated flows.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	51,900	26,300	14,500	12,000	14,100	9,500	9,200	23,000	225,000	175,000	101,000	57,500
2.....	52,900	26,000	14,300	12,000	14,000	9,300	9,200	25,200	245,000	166,000	99,500	56,400
3.....	53,400	25,200	14,100	12,000	14,000	9,100	9,200	27,800	254,000	148,000	95,600	56,500
4.....	54,000	25,000	14,000	12,100	13,900	9,000	9,300	30,500	253,000	137,000	91,600	57,300
5.....	54,400	24,700	13,900	12,100	13,900	9,000	9,300	42,000 e	252,000	137,000	88,100	59,800
6.....	53,900	24,000	13,900	12,200	13,800	8,900	9,400	54,000 e	247,000	140,000	85,900	62,500
7.....	54,400	23,800	13,800	12,200	13,700	8,900	9,500	65,000 e	249,000	143,000	89,400	63,100
8.....	59,200	23,100	13,700	12,300	13,500	8,900	9,600	77,000 e	254,000	138,000	98,400	62,600
9.....	66,200	22,700	13,600	12,400	13,300	8,800	9,700	88,000 e	259,000	131,000	96,100	61,500
10.....	67,800	22,200	13,400	12,500	13,100	8,800	9,800	100,000 e	257,000	126,000	97,400	59,900
11.....	66,800	21,900	13,200	12,600	13,000	8,800	9,900	112,000 e	242,000	126,000	92,600	58,200
12.....	64,900	21,500	13,000	12,700	12,800	8,800	10,000	117,000 e	228,000	127,000	89,200	56,200
13.....	62,900	21,000	12,900	12,800	12,600	8,900	10,000	122,000 e	221,000	125,000	87,200	55,000
14.....	60,600	20,300	12,800	12,900	12,400	8,900	10,200	127,000 e	218,000	129,000	86,100	54,500
15.....	58,600	20,000	12,700	13,000	12,200	8,900	10,300	132,000 e	215,000	144,000	84,100	53,200
16.....	56,400	19,800	12,600	13,100	12,000	9,000	10,500	137,000 e	209,000	164,000	80,500	52,000
17.....	54,700	19,300	12,500	13,200	11,900	9,000	10,700	142,000 e	209,000	173,000	77,500	51,800
18.....	53,500	19,000	12,400	13,300	11,700	9,000	10,900	147,000 e	218,000	165,000	75,200	51,600
19.....	52,100	18,700	12,300	13,400	11,500	9,000	11,000	152,000 e	228,000	154,000	73,600	51,900
20.....	50,800	18,200	12,200	13,500	11,300	9,000	11,200	157,000 e	232,000	151,000	71,300	52,000
21.....	49,400	18,000	12,100	13,600	11,100	9,100	11,400	162,000 e	231,000	141,000	69,200	51,600
22.....	47,400	17,700	12,100	13,700	11,000	9,100	11,700	167,000 e	227,000	129,000	67,600	51,400
23.....	45,100	17,300	12,000	13,700	10,900	9,100	12,300	172,000 e	224,000	119,000	66,100	51,300
24.....	42,100	17,000	12,000	13,800	10,800	9,100	13,400	177,000 e	223,000	111,000	65,900	51,400
25.....	43,200	16,400	12,000	13,900	10,600	9,100	14,300	182,000 e	218,000	109,000	64,400	50,800
26.....	42,100	16,000	11,900	13,900	10,300	9,200	15,700	187,000 e	209,000	108,000	62,500	50,300
27.....	35,800	15,700	11,900	14,000	10,000	9,200	16,800	192,000 e	205,000	107,000	60,600	50,200
28.....	31,700	15,200	11,900	14,000	9,830	9,200	18,300	197,000 e	198,000	104,000	59,100	50,500
29.....	30,200	15,000	11,900	14,000	-	9,200	19,400	202,000 e	189,000	101,000	57,500	52,200
30.....	27,800	14,800	11,900	14,100	-	9,200	20,700	207,000 e	178,000	99,500	58,300	54,600
31.....	27,000	-	11,900	14,100	-	9,200	-	212,000	-	99,500	58,800	-
Total	1,571,200	605,800	397,400	405,100	343,230	280,200	352,900	3,924,500	6,817,000	4,127,000	2,450,300	1,647,800
Mean	50,700	20,200	12,800	13,100	12,300	9,040	11,800	127,000	227,000	133,000	79,000	54,900
Acre-feet	3,116,000	1,202,000	788,200	803,500	680,800	555,800	700,000	7,784,000	13,520,000	8,186,000	4,860,000	3,268,000

For the Year.....Maximum instantaneous discharge, 261,000 cfs at 9 p.m. on June 9
Minimum daily discharge, 8,800 cfs, March 9 to 12
Mean discharge, 62,800 cfs
Total discharge, 45,460,000 ac-ft

Ice conditions October 31 to May 4.

Estimated May 5 to 30.

Manual gauge observations March 2 to April 17.

Location: Lat. 61° 38' 00", long. 125° 48' 00", Northwest Territories, three miles above Virginia Falls and ninety miles northwest of Nahanni Butte.

Drainage Area: 5,650 square miles.

Gauge: Recording.

Period of Record: Periods of varying length, 1960 to 1967.

Extremes Recorded: Maximum daily discharge, 58,800 cfs on June 13, 1964 (a higher discharge probably occurred in 1961). Minimum daily discharge, 564 cfs on April 21, 1967.

Remarks: Records good from June to September.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	-	-	-	-	-	-	-	-	30,600 ^e	40,400	19,000	9,620
2.....	-	-	-	-	-	1,210	-	-	30,600	31,900	16,900	10,700
3.....	-	-	-	-	-	-	-	-	29,500	26,300	16,000	11,800
4.....	-	-	-	-	-	-	-	-	27,500	23,100	15,000	11,800
5.....	-	-	-	-	-	-	-	-	26,100	21,000	14,100	10,700
6.....	-	-	-	-	-	-	-	-	25,400	19,300	13,500	9,880
7.....	-	-	-	-	-	-	-	-	31,300	18,000	13,900	9,270
8.....	-	-	-	-	-	-	-	-	34,800	17,500	13,500	8,780
9.....	-	-	-	-	-	-	-	-	28,300	18,500	12,600	8,240
10.....	-	-	1,860	-	-	-	-	-	23,600	19,200	12,700	7,920
11.....	-	-	-	-	-	-	-	-	24,500	18,900	12,300	7,950
12.....	-	-	-	-	-	-	-	-	26,300	18,400	12,500	8,350
13.....	-	-	-	-	-	-	-	-	22,400	18,800	15,000	7,920
14.....	-	-	-	-	-	-	-	-	20,700	18,800	14,400	7,510
15.....	-	-	-	-	-	-	-	-	22,800	18,600	13,800	7,190
16.....	-	-	-	-	-	-	-	-	28,600	17,600	13,700	7,040
17.....	-	-	-	-	-	-	-	-	36,600	16,600	14,500	7,610
18.....	-	-	-	-	-	-	-	-	42,300	17,400	14,000	8,510
19.....	-	-	-	-	-	-	-	-	43,000	18,500	13,100	8,320
20.....	-	-	-	-	-	-	-	-	46,400	24,800	12,500	7,920
21.....	-	-	-	-	-	-	564	-	50,200	24,400	12,300	7,570
22.....	-	-	-	-	-	-	-	-	46,100	19,800	11,900	7,380
23.....	-	-	-	-	-	-	-	-	43,000	17,000	10,900	7,070
24.....	-	-	-	1,210	-	-	-	-	44,700	16,300	10,400	6,780
25.....	-	-	-	-	-	-	-	-	40,900	14,700	10,200	6,600
26.....	-	-	-	-	-	-	-	-	35,700	13,200	9,620	6,460
27.....	-	-	-	-	-	-	-	-	35,200	13,700	9,100	6,350
28.....	-	-	-	-	-	-	-	-	38,900	14,900	9,310	6,190
29.....	-	-	-	-	-	-	-	-	41,400	17,900	9,970	6,350
30.....	-	-	-	-	-	-	-	-	42,300	18,700	9,570	6,520
31.....	-	-	-	-	-	-	-	-	-	20,500	9,150	-
Total	-	-	-	-	-	-	-	-	1,019,700	614,700	395,420	244,300
Mean	-	-	-	-	-	-	-	-	34,000	19,800	12,800	8,140
Acre-feet	-	-	-	-	-	-	-	-	2,023,000	1,219,000	784,300	484,600

e - Estimated.

SOUTH NAHANNI RIVER ABOVE CLAUSEN CREEK - STATION No. 10EG-1

Location: Lat. 61° 15' 10", long. 124° 02' 10", Northwest Territories, about one-half mile upstream from Clausen Creek and forty miles above mouth.

Drainage Area: 12,900 square miles, referred to gauging section located forty miles upstream from discharge measurement section.

Gauge: Recording.

Period of Record: Periods of varying length, October 1959 to September 1967. Records prior to October 1960 were published under the title "South Nahanni River near Nahanni Butte near Fort Liard".

Extremes Recorded: Maximum instantaneous discharge, 290,000 cfs about June 17 or 18, 1962 (from high-water mark). Minimum daily discharge, 1,690 cfs on March 25, 1961.

Remarks: Records poor.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	-	-	-	-	-	2,350	-	-	-	-	29,700	14,900
2.....	-	-	-	-	-	-	-	-	-	-	26,400	15,900
3.....	-	-	-	-	-	-	-	-	-	-	24,400	17,800
4.....	-	-	-	-	-	-	-	-	-	-	23,200	18,800
5.....	-	-	3,370	-	-	-	-	-	-	-	22,200	18,000
6.....	-	-	-	-	-	-	-	-	-	-	21,800	17,000
7.....	-	-	-	-	-	-	-	-	-	-	23,700	16,000
8.....	-	-	-	-	-	-	-	-	-	-	23,800	15,100
9.....	-	-	-	-	-	-	-	-	-	-	22,100	14,400
10.....	-	-	-	-	-	-	-	-	-	-	20,800	13,800
11.....	-	-	-	-	-	-	-	-	-	-	20,500	13,300
12.....	-	-	-	-	-	-	-	-	-	-	19,600	13,500
13.....	-	-	-	-	-	-	-	-	-	28,900	21,000	13,500
14.....	-	-	-	-	-	-	-	-	-	28,600	22,200	13,500 e
15.....	-	-	-	-	-	-	-	-	-	27,600	21,000	13,500 e
16.....	-	-	-	-	-	-	-	-	-	26,600	20,400	13,400 e
17.....	-	-	-	-	-	-	-	-	-	24,700	20,600	13,400 e
18.....	-	-	-	-	-	-	-	-	-	24,100	20,900	13,400 e
19.....	-	-	-	-	-	-	2,080	-	-	27,500	19,800	13,400
20.....	-	-	-	-	-	-	-	-	-	34,200	19,000	12,900
21.....	-	-	-	-	-	-	-	-	-	37,400	18,600	12,700 e
22.....	-	-	-	-	-	-	-	-	-	32,000	18,400	12,400 e
23.....	-	-	-	-	-	-	-	-	-	27,500	17,800	12,200 e
24.....	-	-	-	-	-	-	-	-	-	25,000	17,400	12,000 e
25.....	-	-	-	-	-	-	-	-	-	24,100	17,600	11,700 e
26.....	-	-	-	2,460	-	-	-	-	-	21,600	16,700	11,500 e
27.....	-	-	-	-	-	-	-	-	-	21,100	15,800	11,300 e
28.....	-	-	-	-	-	-	-	-	-	23,300	15,200	11,000 e
29.....	-	-	-	-	-	-	-	-	-	27,600	15,700	10,800 e
30.....	-	-	-	-	-	-	-	-	-	28,900	15,800	10,600 e
31.....	-	-	-	-	-	-	-	-	-	30,100	15,000	-
Total	-	-	-	-	-	-	-	-	-	-	627,100	411,700
Mean	-	-	-	-	-	-	-	-	-	-	20,200	13,700
Acre-feet	-	-	-	-	-	-	-	-	-	-	1,244,000	816,600

e - Estimated.

Location: Lat. 61° 32' 00", long. 125° 24' 20", Northwest Territories, two and one-half miles above confluence with South Nahanni River, and one hundred and fifty-two miles northeast of Watson Lake Post Office.

Drainage Area: 3,280 square miles.

Gauge: Recording.

Period of Record: Periods of varying length, 1960 to 1967.

Extremes Recorded: Maximum instantaneous discharge, 37,800 cfs at 3 p.m. on June 13, 1963. Minimum daily discharge, 460 cfs (estimated), April 1 to 30, 1962.

Remarks: Records good.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	-	-	-	-	-	-	-	-	-	-	3,690	2,340
2.....	-	-	-	-	-	-	-	-	-	-	3,450	2,690
3.....	-	-	-	-	-	-	-	-	-	-	3,280	<u>3,130</u>
4.....	-	-	-	-	-	-	-	-	-	-	3,180	3,130
5.....	-	-	-	-	-	-	-	-	8,350	-	3,110	3,040
6.....	-	-	-	-	-	-	-	-	-	-	3,370	2,830
7.....	-	-	-	-	-	-	-	-	-	-	<u>4,910</u>	2,350
8.....	-	-	-	-	-	-	-	-	-	-	4,520	2,480
9.....	-	-	-	-	-	-	-	-	-	-	3,960	2,370
10.....	-	-	-	-	-	-	-	-	-	-	3,610	2,290
11.....	-	-	-	-	-	-	-	-	-	-	3,530	2,200
12.....	-	-	-	-	-	-	-	-	-	-	3,390	2,150
13.....	-	-	-	-	-	-	-	-	-	-	3,630	2,050
14.....	-	-	-	-	-	-	-	-	-	-	3,350	2,000
15.....	-	-	-	-	-	-	-	-	-	-	3,090	1,950
16.....	-	-	-	-	-	-	-	-	-	-	3,050	1,890
17.....	-	-	-	-	-	-	-	-	-	3,550	3,110	1,900
18.....	-	-	-	-	-	-	-	-	-	3,570	3,000	1,930
19.....	-	-	-	-	-	-	-	-	-	4,260	2,920	1,910
20.....	-	-	-	-	-	-	-	-	-	5,570	2,850	1,920
21.....	-	-	-	-	-	-	-	-	-	4,810	2,810	1,900
22.....	-	-	-	-	-	-	-	-	-	4,300	2,860	1,920
23.....	-	-	-	-	-	-	-	-	-	3,850	2,770	<u>1,890</u>
24.....	-	-	-	-	-	-	-	-	-	3,670	2,690	1,900 e
25.....	-	-	-	-	-	-	-	-	-	3,630	2,720	1,920 e
26.....	-	-	-	-	-	-	-	-	-	3,290	2,620	1,940 e
27.....	-	-	-	-	-	-	-	-	-	3,260	2,490	1,950 e
28.....	-	-	-	-	-	-	-	-	-	3,610	2,490	1,970 e
29.....	-	-	-	-	-	-	-	-	-	3,960	2,460	1,980
30.....	-	-	-	-	-	-	-	-	-	3,920	2,380	2,080
31.....	-	-	-	-	-	-	-	-	-	3,830	<u>2,300</u>	-
Total	-	-	-	-	-	-	-	-	-	-	97,650	66,000
Mean	-	-	-	-	-	-	-	-	-	-	3,150	2,200
Acre-feet	-	-	-	-	-	-	-	-	-	-	193,700	130,900

WILLOWLAKE RIVER NEAR THE MOUTH - STATION No. 10GB-1

Location: Lat. 62° 39' 10", long. 122° 54' 50", Northwest Territories, nine miles above the junction with the Mackenzie River.

Drainage Area: 8,330 square miles.

Gauge: Recording.

Period of Record: Periods of varying length, December 1963 to May 1965 and continuous, June 1965 to September 1967.

Extremes Recorded: Maximum daily discharge, 34,400 cfs on May 14 and 15, 1967. Minimum daily discharge, 50.0 cfs on March 8 and 9, 1966.

Remarks: Records fair.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	670	610	398	310	217	231	256	401	18,600	3,620	1,390	758
2.....	695	595	398	304	215	232	253	407	17,600	3,530	1,390	764
3.....	705	582	392	296	215	231	254	464	16,900	3,440	1,410	752
4.....	730	566	389	290	214	230	255	610	17,000	3,350	1,390	730
5.....	764	550	383	286	214	228	257	1,130	18,200	3,260	1,370	720
6.....	842	534	371	282	215	226	259	2,950	18,200	3,170	1,520	730
7.....	926	522	362	272	215	226	262	4,600	17,800	3,080	1,750	720
8.....	1,040	510	356	269	216	229	263	7,580	17,100	2,990	1,690	705
9.....	1,120	502	356	268	216	232	264	14,000	16,300	2,900	1,580	690
10.....	1,150	490	353	267	218	235	266	16,300	15,100	2,820	1,460	690
11.....	1,210	482	350	264	218	229	267	22,500	13,800	2,730	1,370	680
12.....	1,240	478	344	261	218	244	267	27,300	12,500	2,640	1,330	670
13.....	1,250	470	342	261	218	248	266	32,800	11,100	2,550	1,250	655
14.....	1,250	461	338	260	219	252	269	34,400	9,800	2,460	1,210	640
15.....	1,240	455	336	256	219	254	272	34,400	8,840	2,330	1,170	630
16.....	1,160	452	338	254	219	256	276	31,800	8,130	2,230	1,130	635
17.....	1,090	446	338	251	220	258	282	27,400	7,470	2,090	1,090	650
18.....	776	440	336	248	220	260	288	23,700	6,890	2,000	1,050	645
19.....	550	440	332	245	221	262	294	22,600	6,370	1,920	1,020	635
20.....	550	437	326	243	221	264	294	23,800	5,960	1,860	993	615
21.....	558	431	324	240	222	264	296	26,500	5,530	1,770	958	610
22.....	574	431	324	237	222	262	302	29,200	5,120	1,730	930	615
23.....	586	425	322	234	222	259	310	29,500	4,760	1,650	916	635
24.....	605	419	318	231	222	257	324	27,800	4,510	1,590	888	615
25.....	625	413	320	229	222	255	340	26,400	4,270	1,540	860	610
26.....	635	413	324	227	224	256	353	24,800	4,060	1,510	836	615
27.....	645	413	322	224	227	256	371	23,800	3,970	1,450	824	610
28.....	650	416	322	221	230	257	392	23,100	3,880	1,440	812	605
29.....	650	419	320	220	-	258	401	22,700	3,790	1,400	806	615
30.....	640	410	318	218	-	260	410	21,700	3,700	1,400	788	630
31.....	630	-	314	217	-	258	-	20,000	-	1,410	770	-
Total	25,756	14,212	10,666	7,885	6,139	7,669	8,863	604,642	307,250	71,860	35,951	19,874
Mean	831	474	344	254	219	247	295	19,500	10,200	2,320	1,160	662
Acre-feet	51,090	28,190	21,160	15,640	12,180	15,210	17,580	1,199,000	609,400	142,500	71,310	39,420

For the Year..... Maximum daily discharge, 34,400 cfs on May 14 and 15
 Minimum daily discharge 214 cfs on February 4 and 5
 Mean discharge, 3,070 cfs
 Total discharge, 2,223,000 ac-ft

Ice conditions October 17 to May 14.

Estimated June 27 to July 13.

REDSTONE RIVER NEAR THE MOUTH - STATION No. 10HB-1

Location: Lat. 64° 11' 00", long. 124° 40' 20", Northwest Territories, about nine miles above confluence with MacKenzie River, approximately eighty-eight miles downstream on the Mackenzie River from Wrigley.

Drainage Area: 6,080 square miles.

Gauge: Recording.

Period of Record: Part year records, 1963 to 1967.

Extremes Recorded: Maximum daily discharge, 37,000 cfs on June 23, 1967.

Remarks: Records poor.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	5,440	-	-	-	-	-	-	-	-	-	-	6,500
2.....	5,920	-	-	-	-	-	-	-	-	-	-	7,220
3.....	5,710	-	-	-	-	-	-	-	-	-	-	8,390
4.....	5,540	-	-	-	-	-	-	-	-	-	-	8,440
5.....	5,410	-	-	-	-	-	-	-	-	-	-	8,060
6.....	5,330	-	-	-	-	-	-	-	-	-	-	7,530
7.....	5,300	-	-	-	-	-	-	-	-	-	-	6,990
8.....	5,210	-	-	-	-	-	-	-	-	-	-	6,570
9.....	5,140	-	-	-	-	-	-	-	-	-	-	6,210
10.....	5,080	-	-	-	-	-	-	-	-	-	-	6,660
11.....	5,010	-	-	-	-	-	-	-	-	-	-	10,400
12.....	4,950	-	-	-	-	-	-	-	-	-	11,400	10,100
13.....	-	-	-	-	-	-	-	-	10,200 a	-	11,400	8,690
14.....	-	-	-	730 ab	-	-	-	-	10,100	-	10,300	7,650
15.....	-	-	-	727 ab	-	-	-	-	11,500	-	9,890	6,920
16.....	-	-	-	-	-	-	-	-	15,400	-	10,300	6,400
17.....	-	-	-	-	-	-	-	-	18,500	-	10,800	6,230
18.....	-	-	-	-	-	-	-	-	19,000	-	10,100	6,120
19.....	-	-	-	-	-	-	-	-	19,400	-	9,270	5,920
20.....	-	-	-	-	-	-	-	-	22,800	-	8,880	5,860
21.....	-	-	-	-	-	-	-	-	30,700	-	8,690	6,040
22.....	-	-	-	-	-	-	-	-	35,000	-	8,590	6,230
23.....	-	-	-	-	543 ab	-	-	-	37,000	-	8,340	6,020
24.....	-	-	-	-	-	-	-	-	33,900	-	8,190	5,980
25.....	-	-	-	-	-	-	-	-	35,900	-	8,420	5,820
26.....	-	-	-	-	-	-	-	-	35,800	-	8,120	5,740
27.....	-	-	-	-	-	-	-	-	34,800	-	7,770	5,800
28.....	-	-	-	-	-	-	-	-	36,700	-	7,460	5,980
29.....	-	-	-	-	-	-	-	-	-	-	7,080	7,060
30.....	-	-	-	-	-	-	-	-	-	-	6,750	6,720
31.....	-	-	-	-	-	-	-	-	-	-	6,530	-

a - Manual gauge observations.

b - Ice conditions.

GREAT BEAR RIVER AT OUTLET OF GREAT BEAR LAKE - STATION No. 10JC-3

Location: Lat. 65° 08' 10", long. 123° 30' 50", Northwest Territories, at outlet of Great Bear Lake, approximately one-quarter mile downstream from Northern Transportation Company Limited docks.

Drainage Area: 56,300 square miles.

Gauge: None at outlet of Great Bear Lake; gauge heights are taken from recording gauge at Station No. 10JC-2, Great Bear Lake at Fort Franklin.

Period of Record: Periods of varying length, 1961 and 1962; continuous, October 1964 to September 1966 and July to September 1967.

Extremes Recorded: Maximum daily discharge, 30,100 cfs on August 12, 1962. Minimum daily discharge, 15,100 cfs on April 16, 1966.

Remarks: Records poor. Wind on the lake can cause large changes in the water level. Monthly mean discharge figures have been prepared and are available upon application to the District Engineer at Calgary.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	23,000	-	-	-	-	-	-	-	-	-	19,100	20,600
2.....	24,000	-	-	-	-	-	-	-	-	-	18,800	19,900
3.....	23,700	-	-	-	-	-	-	-	-	-	18,600	20,400
4.....	24,600	-	-	-	-	-	-	-	-	-	18,800	20,900
5.....	23,700	-	-	-	-	-	-	-	-	-	18,800	20,800
6.....	22,800	-	-	-	-	-	-	-	-	-	18,800	20,900
7.....	22,800	-	-	-	-	-	-	-	-	-	19,000	21,100
8.....	22,800	-	-	-	-	-	-	-	-	-	19,000	21,100
9.....	22,200	-	-	-	-	-	-	-	-	-	18,800	21,100
10.....	22,700	-	-	-	-	-	-	-	-	-	18,800	21,200
11.....	22,500	-	-	-	-	-	-	-	-	-	18,500	20,700
12.....	22,200	-	-	-	-	-	-	-	-	-	18,700	21,100
13.....	22,200	-	-	-	-	-	-	-	-	-	18,700	20,800
14.....	22,100	-	-	-	-	-	-	-	-	-	18,800	21,000
15.....	22,500	-	-	-	-	-	-	-	-	19,400	18,800	21,100
16.....	22,600	-	-	-	-	-	-	-	-	19,700	19,200	20,600
17.....	22,400	-	-	-	-	-	-	-	-	19,700	19,000	21,300
18.....	-	-	-	-	-	-	-	-	-	19,600	19,200	21,700
19.....	-	-	-	-	-	-	-	-	-	19,400	19,200	21,100
20.....	-	-	-	-	-	-	-	-	-	19,300	19,100	20,600
21.....	-	-	-	-	-	-	-	-	-	19,400	18,900	20,800
22.....	-	-	-	-	-	-	-	-	-	19,300	19,000	20,500
23.....	-	-	-	-	-	-	-	-	-	18,900	19,200	20,800
24.....	-	-	-	-	-	-	-	-	-	19,200	19,000	21,300
25.....	-	-	-	-	-	-	-	-	-	19,300	19,700	20,900
26.....	-	-	-	-	-	-	-	-	-	19,600	19,400	20,900
27.....	-	-	-	-	-	-	-	-	-	19,900	19,000	21,000
28.....	-	-	-	-	-	-	-	-	-	19,700	18,800	20,400
29.....	-	-	-	-	-	-	-	-	-	19,300	19,300	20,400
30.....	-	-	-	-	-	-	-	-	-	19,200	19,600	20,800
31.....	-	-	-	-	-	-	-	-	-	19,200	20,200	-
Total	-	-	-	-	-	-	-	-	-	-	589,800	625,800
Mean	-	-	-	-	-	-	-	-	-	-	19,000	20,900
Acre-feet	-	-	-	-	-	-	-	-	-	-	1,170,000	1,241,000

GREAT BEAR LAKE AT FORT FRANKLIN - STATION No. 10JC-2

Location: Lat. 65° 11' 30", long. 123° 25' 00", at settlement of Fort Franklin, Northwest Territories, about four miles northeast of Bear River outlet, at southwest end of Great Bear Lake.

Gauge: Recording; elevations are referred to approximate mean sea level datum.

Period of Record: Periods of varying length, 1961 to 1967.

Extremes Recorded: Maximum daily elevation, 391.21 feet on August 12, 1962. Minimum daily elevation, 389.12 feet on April 16, 1966.

Remarks: Elevations are tied by water level transfer to approximate mean sea level datum established by the Water and Power Bureau at Port Radium. Add 2,990 feet to convert to Eldorado Mining and Refining datum.

Daily Elevations in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	390.25	-	-	-	-	-	-	-	-	-	389.61	389.71
2.....	390.38	-	-	-	-	-	-	-	-	-	389.57	389.62
3.....	390.34	-	-	-	-	-	-	-	-	-	389.54	389.67
4.....	390.46	-	-	-	-	-	-	-	-	-	389.56	389.75
5.....	390.34	-	-	-	-	-	-	-	-	-	389.57	389.73
6.....	390.22	-	-	-	-	-	-	-	-	-	389.57	389.74
7.....	390.22	-	-	-	-	-	-	-	-	-	389.60	389.76
8.....	390.22	-	-	-	-	-	-	-	-	-	389.59	389.75
9.....	390.14	-	-	-	-	-	-	-	-	-	389.56	389.75
10.....	390.20	-	-	-	-	-	-	-	-	-	389.56	389.76
11.....	390.17	-	-	-	-	-	-	-	-	-	389.53	389.68
12.....	390.14	-	-	-	-	-	-	-	-	-	389.55	389.74
13.....	390.14	-	-	-	-	-	-	-	-	-	389.54	389.69
14.....	390.13	-	-	-	-	-	-	-	-	-	389.56	389.71
15.....	390.18	-	-	-	-	-	-	-	-	389.66	389.54	389.71
16.....	390.19	-	-	-	-	-	-	-	-	389.70	389.61	389.65
17.....	390.16	-	-	-	-	-	-	-	-	389.70	389.56	389.74
18.....	-	-	-	-	-	-	-	-	-	389.68	389.60	389.78
19.....	-	-	-	-	-	-	-	-	-	389.66	389.59	389.70
20.....	-	-	-	-	-	-	-	-	-	389.64	389.57	389.62
21.....	-	-	-	-	-	-	-	-	-	389.65	389.53	389.65
22.....	-	-	-	-	-	-	-	-	-	389.64	389.54	389.59
23.....	-	-	-	-	-	-	-	-	-	389.58	389.56	389.64
24.....	-	-	-	-	-	-	-	-	-	389.63	389.53	389.70
25.....	-	-	-	-	-	-	-	-	-	389.64	389.62	389.64
26.....	-	-	-	-	-	-	-	-	-	389.68	389.59	389.63
27.....	-	-	-	-	-	-	-	-	-	389.72	389.52	389.64
28.....	-	-	-	-	-	-	-	-	-	389.69	389.49	389.55
29.....	-	-	-	-	-	-	-	-	-	389.64	389.55	389.55
30.....	-	-	-	-	-	-	-	-	-	389.62	389.58	389.60
31.....	-	-	-	-	-	-	-	-	-	389.62	389.66	-

GREAT BEAR LAKE AT PORT RADIUM - STATION No. 10JA-1

Location: Lat. 66° 04', long. 117° 52', Northwest Territories, on Cameron Bay, in porch of Eldorado Mining and Refining Limited old powerhouse.

Gauge: Recording; elevations are referred to approximate mean sea level datum.

Period of Record: Part-year records, 1934, 1938, 1939, 1943 and 1944, 1946 to 1950 and 1953 to 1961; continuous, July 1961 to September 1967.

Extremes Recorded: Maximum daily elevation, 390.81 feet on August 17, 1961. Minimum daily elevation, 387.46 feet on April 27 and 29, 1948.

Remarks: Elevations are referred to Eldorado bench mark 'C'. Published records for 1934 can be converted to present datum by subtracting 86.39 feet. Elevations based on present datum can be converted to Eldorado Mining and Refining Limited datum at Port Radium by adding 2,990 feet.

Daily Elevations in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	389.99	389.46	389.50	389.42	389.24	389.17	389.10	388.98	-	-	389.48	389.45
2.....	389.98	389.73	389.48	389.39	389.28	389.17	389.04	388.98	-	-	389.53	389.61
3.....	389.93	389.66	389.48	389.42	389.32	389.16	389.11	389.00	-	-	389.59	389.63
4.....	389.87	389.53	389.47	389.37	389.23	389.15	389.10	389.03	-	-	389.54	389.54
5.....	389.87	389.66	389.47	389.33	389.30	389.18	389.13	389.00	-	-	389.52	389.58
6.....	389.81	389.64	389.42	389.37	389.29	389.18	389.11	389.10	-	-	389.52	389.59
7.....	389.87	389.66	389.43	389.38	389.22	389.15	389.07	389.04	-	-	389.45	389.55
8.....	389.89	389.61	389.46	389.39	389.27	389.15	389.08	389.06	-	-	389.53	389.54
9.....	389.91	389.62	389.43	389.39	389.25	389.20	389.10	389.06	-	-	389.53	389.57
10.....	389.88	389.63	389.42	389.34	389.25	389.17	389.06	389.04	-	-	389.53	389.56
11.....	389.91	389.61	389.39	389.44	389.29	389.12	388.99	389.00	-	389.37	389.61	389.58
12.....	389.88	389.62	389.34	389.43	389.25	389.09	389.09	389.02	-	389.44	389.56	389.55
13.....	389.76	389.62	389.37	389.44	389.22	389.25	389.15	389.08	-	389.35	389.62	389.58
14.....	389.84	389.55	389.40	389.43	389.19	389.14	389.07	389.06	-	389.35	389.58	389.58
15.....	389.79	389.49	389.33	389.37	389.20	389.10	389.10	388.98	-	389.36	389.60	389.58
16.....	389.65	389.53	389.41	389.31	389.22	389.08	389.11	389.00	-	389.38	389.53	389.59
17.....	389.73	389.49	389.41	389.32	389.18	389.14	389.04	389.00	-	389.39	389.51	389.51
18.....	389.63	389.56	389.44	389.29	389.13	389.10	389.02	388.94	-	389.40	389.41	389.54
19.....	389.64	389.54	389.44	389.31	389.16	389.17	389.06	388.98	-	389.39	389.44	389.58
20.....	389.66	389.53	389.44	389.35	389.22	389.18	389.02	389.04	-	389.43	389.50	389.59
21.....	389.69	389.55	389.43	389.36	389.22	389.11	389.02a	388.98	-	389.50	389.56	389.58
22.....	389.66	389.51	389.43	389.35	389.07	389.19	389.12a	389.04	-	389.47	389.58	389.59
23.....	389.62	389.48	389.40	389.32	389.13	389.10	389.05	389.06	-	389.58	389.53	389.57
24.....	389.80	389.43	389.42	389.35	389.20	389.14	389.05	388.98	-	389.48	389.53	389.55
25.....	389.68	389.48	389.50	389.40	389.23	389.13	389.05	389.06	-	389.54	389.47	389.52
26.....	389.75	389.44	389.38	389.34	389.19	389.12	389.04	388.98	-	389.49	389.48	389.52
27.....	389.68	389.51	389.38	389.40	389.13	389.05	388.98	389.02	-	389.47	389.52	389.52
28.....	389.66	389.52	389.42	389.34	389.22	389.10	388.98	389.06	-	389.44	389.50	389.60
29.....	389.58	389.43	389.29	389.30	-	389.10	389.04	388.96	-	389.47	389.46	389.54
30.....	389.61	389.45	389.34	389.28	-	389.07	389.00	-	-	389.52	389.47	389.53
31.....	389.61	-	389.38	389.30	-	389.11	-	-	-	389.48	389.46	-

For the Period..... Maximum daily elevation, 389.99 feet on October 1
Minimum daily elevation, 388.94 feet on May 18

a - Manual gauge observations.

CAMSELL RIVER AT OUTLET OF CLUT LAKE - STATION No. 10JA-2

65

Location: Lat. 65° 35' 45", long. 117° 45' 20", Northwest Territories, at outlet of Clut Lake on right bank at head of rapids, two miles above White Eagle Falls.

Drainage Area: 12,000 square miles.

Gauge: Recording.

Period of Record: Periods of varying length, 1963 and 1964 and continuous, August 1964 to September 1967.

Extremes Recorded: Maximum daily discharge, 5,780 cfs on August 21, 1964. Minimum daily discharge, 1,280 cfs on May 12, 1966.

Remarks: Records good.

Daily Discharge in Cubic in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	2,770	2,440	2,260	2,200	2,120	1,980	1,750	1,630	1,880	2,700	3,420	3,520
2.....	2,790	2,460	2,260	2,200	2,120	1,970	1,780	1,630	1,970	2,750	3,450	3,570
3.....	2,750	2,420	2,240	2,200	2,110	1,970	1,800	1,640	2,010	2,770	3,430	3,560
4.....	2,730	2,420	2,260	2,200	2,110	1,940	1,790	1,700	2,070	2,820	3,420	3,610
5.....	2,650	2,410	2,220	2,200	2,100	1,930	1,830	1,710	2,110	2,830	3,450	3,680
6.....	2,680	2,440	2,220	2,200	2,100	1,960	1,750	1,620	2,150	2,870	3,380	3,680
7.....	2,700	2,420	2,200	2,200	2,100	1,970	1,750	1,620	2,180	2,870	3,450	3,700
8.....	2,650	2,410	2,190	2,200	2,090	1,960	1,760	1,640	2,150	2,890	3,470	3,740
9.....	2,630	2,410	2,190	2,200	2,090	1,900	1,780	1,620	2,230	2,900	3,430	3,740
10.....	2,650	2,400	2,190	2,200	2,080	1,900	1,760	1,590	2,300	2,910	3,460	3,710
11.....	2,610	2,400	2,180	2,200	2,080	1,890	1,780	1,630	2,270	2,960	3,450	3,710
12.....	2,610	2,410	2,150	2,200	2,070	1,920	1,760	1,640	2,270	3,050	3,530	3,730
13.....	2,630	2,400	2,180	2,200	2,070	1,920	1,780	1,630	2,330	3,100	3,570	3,780
14.....	2,620	2,370	2,190	2,200	2,060	1,880	1,750	1,620	2,330	3,140	3,570	3,770
15.....	2,590	2,370	2,190	2,200	2,060	1,850	1,760	1,620	2,370	3,110	3,560	3,780
16.....	2,590	2,350	2,190	2,200 a	2,050	1,900	1,680	1,610	2,440	3,150	3,590	3,770
17.....	2,560	2,350	2,190	2,200	2,050	1,900	1,680	1,590	2,450	3,190	3,660	3,770
18.....	2,560	2,360	2,190	2,190	2,040	1,920	1,700	1,610	2,460	3,280	3,610	3,750
19.....	2,500	2,330	2,190	2,190	2,040	1,920	1,710	1,660	2,480	3,260	3,640	3,660
20.....	2,450	2,330	2,190	2,180	2,030	1,890	1,780	1,640	2,460	3,280	3,640	3,680
21.....	2,440	2,350	2,190	2,180	2,030	1,880	1,780	1,640	2,460	3,250	3,630	3,680
22.....	2,440	2,330	2,190	2,170	2,020	1,870	1,760	1,640	2,480	3,260	3,630	3,680
23.....	2,450	2,310	2,190	2,170	2,020	1,810	1,760	1,670	2,480	3,310	3,610	3,680
24.....	2,520	2,300	2,190	2,160	2,020	1,840	1,750	1,640	2,490	3,330	3,630	3,680
25.....	2,480	2,270	2,190	2,160	2,010	1,830	1,740	1,680	2,500	3,310	3,640	3,700
26.....	2,460	2,260	2,190	2,150	1,980	1,810	1,680	1,700	2,530	3,290	3,630	3,710
27.....	2,450	2,270	2,190	2,150	2,040	1,800	1,680	1,740	2,560	3,320	3,640	3,680
28.....	2,450	2,280	2,190	2,140	2,040	1,840	1,710	1,800	2,570	3,350	3,660	3,640
29.....	2,450	2,230	2,190	2,140	-	1,800	1,700	1,830	2,630	3,360	3,670	3,660
30.....	2,420	2,260	2,190	2,130	-	1,800	1,640	1,810	2,630	3,380	3,680	3,700
31.....	2,410	-	2,190	2,130	-	1,840	-	1,870	-	3,390	3,540	-
Total	79,690	70,760	68,160	67,640	57,730	58,590	52,330	51,670	70,240	96,380	110,140	110,720
Mean	2,570	2,360	2,200	2,180	2,060	1,890	1,740	1,670	2,340	3,110	3,550	3,690
Acre-feet	158,100	140,400	135,200	134,200	114,500	116,200	103,800	102,500	139,300	191,200	218,500	219,600

For the Year..... Maximum daily discharge, 3,780 cfs on September 13 and 15
 Minimum daily discharge, 1,590 cfs on May 10 and 17
 Mean discharge, 2,450 cfs
 Total discharge, 1,774,000 ac-ft

a - Manual gauge observation.
 Estimated December 16 to January 15 and January 17 to February 24.

MISCELLANEOUS DISCHARGE MEASUREMENTS MADE IN MACKENZIE RIVER DRAINAGE BASIN
 FOR THE YEAR 1967

Date	Stream	Tributary to	Location	Discharge cfs
June 16	Cameron River	Yellowknife River	At outlet Tibbitt Lake, Lat. 62° 31' N., long. 113° 19' W.	457

COPPERMINE RIVER AT OUTLET OF POINT LAKE - STATION No. 10PB-1

Location: Lat. 65° 25' 00", long. 114° 00' 10", Northwest Territories, one-half mile southeast of Fishing Camp on Redrock Lake.

Drainage Area: 7,830 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurements only in 1964 and periods of varying length, July 1965 to September 1967.

Extremes Recorded: Maximum daily discharge, 10,200 cfs on July 20, 1965. Minimum daily discharge, 1,340 cfs on May 2, 1966.

Remarks: Records poor.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	5,620	-	-	-	-	1,600	1,310	1,160	1,430	6,180	9,510	8,470
2.....	5,620	-	-	-	-	1,580	1,300 e	1,160	1,540	6,390	9,450	8,550
3.....	5,590	-	-	-	-	1,580	1,300 e	1,180	1,550	6,650	9,570	8,640
4.....	5,540	-	-	-	-	1,560	1,290 e	1,190	1,560	6,940	9,630	8,470
5.....	5,500	-	-	-	-	1,540	1,280 e	1,190	1,650	7,100	9,600	8,330
6.....	5,450	-	-	-	-	1,510	1,280 e	1,190	1,750	7,320	9,630	8,300
7.....	5,400	-	-	-	-	1,520	1,270 e	1,180	1,900	7,540	9,570	8,240
8.....	5,380	-	-	-	-	1,500	1,270 e	1,190	2,010	7,680	9,510	8,160
9.....	5,350	-	-	-	-	1,500	1,260 a	1,180	2,140	7,800	9,510	8,130
10.....	-	-	-	-	-	1,490	1,260	1,180	2,290	7,940	9,450	8,050
11.....	-	-	-	-	-	1,470	1,260	1,180	2,440	8,100	9,420	8,020
12.....	-	-	-	-	-	1,480	1,260	1,190	2,600	8,300	9,720	7,990
13.....	-	-	-	-	-	1,480	1,260	1,210	2,830	8,360	9,540	7,940
14.....	-	-	-	-	-	1,460	1,240	1,210	2,990	8,440	9,540	7,940
15.....	-	-	-	-	-	1,440	1,230	1,200	3,180	8,440	9,510	7,770
16.....	-	-	-	-	-	1,440	1,220	1,210	3,360	8,520	9,400	7,770
17.....	-	-	-	2,050 a	-	1,450	1,210	1,210	3,520	8,690	9,310	7,600
18.....	-	-	-	-	-	1,430	1,200	1,210	3,710	8,750	9,250	7,540
19.....	-	-	-	-	-	1,430	1,210	1,210	3,850	8,800	9,170	7,660
20.....	-	-	-	-	-	1,410	1,210	1,220	4,050	9,000	9,140	7,520
21.....	-	-	-	-	-	1,400	1,210	1,220	4,260	9,030	9,170	7,430
22.....	-	-	-	-	-	1,400	1,190	1,220	4,420	9,080	9,170	7,350
23.....	-	-	-	-	-	1,380	1,180	1,240	4,610	9,250	9,030	7,270
24.....	-	-	-	-	-	1,380	1,170	1,220	4,790	9,220	9,000	7,180
25.....	-	-	-	-	-	1,370	1,170	1,240	5,010	9,280	8,920	7,080
26.....	-	-	-	-	1,620 a	1,360	1,170	1,230	5,230	9,310	8,780	6,920
27.....	-	-	-	-	1,620	1,360	1,150	1,230	5,350	9,340	8,750	6,860
28.....	-	-	-	-	1,640	1,360	1,160	1,250	5,570	9,340	8,750	7,160
29.....	-	-	-	-	-	1,330	1,170	1,260	5,780	9,340	8,660	7,180
30.....	-	-	-	-	-	1,330	1,160	1,290	5,760	9,400	8,580	7,160
31.....	-	-	-	-	-	1,340	-	1,350	-	9,480	8,610	-
Total	-	-	-	-	-	44,880	36,850	37,600	101,130	259,010	286,880	232,680
Mean	-	-	-	-	-	1,450	1,230	1,210	3,370	8,360	9,250	7,760
Acre-feet	-	-	-	-	-	89,020	73,090	74,580	200,600	513,700	569,000	461,500

a - Manual gauge observations.

e - Estimated.

BACK RIVER BELOW DEEP ROSE LAKE - STATION No. 10RC-1

67

Location: Lat. 66° 05', long. 96° 30', District of Keewatin, Northwest Territories, below Deep Rose Lake.

Drainage Area: 33,100 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurements only, 1960, 1961 and 1964; periods of various length, July 1962 and 1963; continuous October 1964 to September 1967.

Extremes Recorded: Maximum daily discharge, 143,000 cfs (estimated) on July, 1963 (from high-water mark). Minimum instantaneous discharge, 97 cfs at 6 a.m. on June 8, 1967.

Remarks: Records good.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	49,000	16,600	6,370	3,080	1,780	1,250	1,150	1,080	209	36,900	52,800	33,000 e
2.....	48,200	16,300	6,140	3,000	1,750	1,250	1,150	1,060	200	65,300	51,800	32,400 e
3.....	47,500	15,800	5,930	2,950	1,730	1,250	1,130	1,060	193	89,700	51,000	31,800 e
4.....	46,200	14,700	5,750	2,820	1,710	1,250	1,130	1,060	186	113,000 e	50,400	31,600 e
5.....	46,000	14,000	5,590	2,750	1,680	1,250	1,130	1,030	172	129,000 e	49,600	31,400 e
6.....	45,200	13,400	5,410	2,720	1,660	1,230	1,130	1,030	130	135,000 e	48,200	31,100 e
7.....	44,200	13,100	5,150	2,700	1,630	1,230	1,130	1,030	119	141,000 e	47,200	30,700 e
8.....	42,900	13,300	4,970	2,680	1,610	1,230	1,130	1,030	102	141,000 e	46,400	30,300 e
9.....	40,500	13,700	4,810	2,620	1,560	1,230	1,130	1,010	108	138,000 e	45,800	30,000 e
10.....	38,100	14,000	4,760	2,600	1,510	1,230	1,130	11,010	119	131,000 e	45,000	29,700 e
11.....	38,000	14,200	4,630	2,580	1,440	1,230	1,130	1,010	137	125,000 e	44,200	29,300 e
12.....	37,900	14,300	4,500	2,520	1,390	1,200	1,130	986	158	118,000 e	43,400	28,900 e
13.....	37,000	14,200	4,370	2,480	1,320	1,200	1,130	986	209	112,000 e	43,000	28,600 e
14.....	34,900	14,200	4,290	2,450	1,270	1,200	1,130	938	386	106,000	41,900	28,200 e
15.....	31,400	14,000	4,240	2,430	1,250	1,200	1,130	890	794	100,000	40,800	27,800 e
16.....	30,500	13,700	4,190	2,380	1,250	1,200	1,130	866	1,350	95,300	39,700	27,300 e
17.....	36,100	13,300	4,140	2,330	1,250	1,200	1,100	818	2,400	91,600	39,300	27,100 e
18.....	32,200	12,700	4,080	2,280	1,250	1,180	1,100	750	4,840	87,000	39,400	26,800 e
19.....	26,000	12,000	3,980	2,230	1,250	1,180	1,100	730	7,980	82,500	38,400	26,600 e
20.....	24,800	11,400	3,930	2,230	1,250	1,180	1,100	650	10,900	78,500	37,900	26,300 e
21.....	25,200	10,700	3,820	2,210	1,250	1,180	1,100	570	13,200	76,600	37,500	26,000 e
22.....	24,800	9,930	3,770	2,190	1,250	1,180	1,100	474	14,400	73,400	37,200	25,500 e
23.....	24,500	9,210	3,720	2,140	1,250	1,180	1,100	374	15,800	70,000	38,200	25,200 e
24.....	24,300	8,430	3,670	2,110	1,250	1,180	1,100	362	17,800	66,700	38,200	25,100 e
25.....	24,700	8,060	3,620	2,090	1,250	1,150	1,080	290	20,200	64,300	38,300	24,800 e
26.....	24,400	7,780	3,510	2,040	1,250	1,150	1,080	314	23,700	62,600	35,500	24,600 e
27.....	23,500	7,360	3,410	1,990	1,250	1,150	1,080	290	26,400	61,600	35,500	24,300 e
28.....	21,800	7,100	3,330	1,950	1,250	1,150	1,080	290	28,900	59,400	34,400 e	24,000 e
29.....	20,100	6,840	3,250	1,900	-	1,150	1,080	245	31,400	57,700	33,800 e	23,600 e
30.....	18,600	6,580	3,200	1,850	-	1,150	1,080	218	33,000	56,600	33,500 e	23,300 e
31.....	17,300	-	3,150	1,800	-	1,150	-	218	-	54,400	33,100 e	-
Total	1,025,800	360,890	135,680	74,100	39,540	37,140	33,400	22,669	255,490	2,819,000	1,292,600	835,300
Mean	33,090	12,030	4,380	2,390	1,410	1,200	1,110	731	8,520	90,940	41,700	27,840
Acre-feet	2,035,000	715,800	269,100	147,000	78,430	73,670	66,250	44,960	506,800	5,592,000	2,564,000	1,657,000

For the Year..... Maximum daily discharge, 141,000 cfs on July 7 and 8
 Minimum instantaneous discharge, 97 cfs at 6 a.m. on June 8
 Mean discharge, 19,000 cfs
 Total discharge, 13,750,000 ac-ft

Ice conditions November 25 to May 13. e - Estimated.

MISCELLANEOUS DISCHARGE MEASUREMENTS MADE IN ARCTIC COAST DRAINAGE BASIN FOR THE YEAR 1967

Date	Stream	Tributary to	Location	Discharge cfs
August 10	Anderson River	-	Below Cornwath River, Lat 68° 30' 00" N., Long. 128° 41' W.	6,350 e
August 7	Burnside River	-	Near Mouth (Bathurst Inlet)	9,280
August 17	Contwoyto River	-	Outlet Contwoyto Lake	200 e
August 18	Ekalluk River	-	Near Mouth	2,690
August 19	"	-	"	2,490
August 5	Hood River	-	Near Mouth	7,660
August 10	Horton River	-	Near the Mouth, Lat. 69° 03' N.	3,890 e
August 18	No Name River Flowing into Hadley Bay (Victoria Island)	-	-	3,820
August 3	Tree River	-	Near Mouth	4,050
August 20	"	-	"	3,590
August 20	"	-	"	3,330

BAKER LAKE AT BAKER LAKE - STATION No. 6MA-1

Location: Lat. 64° 19' 00", long. 96° 01' 00", District of Keewatin, Northwest Territories, two hundred feet east of Meteorological Station Warehouse at Baker Lake Settlement.

Gauge: Recording; gauge heights are referred to an assumed datum.

Period of Record: Periods of varying length, 1965 to 1967.

Extremes Recorded: Maximum daily gauge height, 28.01 feet on June 28, 1966. Minimum daily gauge height, 23.40 feet on May 13, 1966.

Remarks: A tidal effect of approximately one-half foot has been ascertained at Baker Lake. Gauge heights give approximate elevation above mean sea level.

Daily Gauge Heights in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	-	-	-	24.30	24.50	-	-	-	23.81	26.67 a	26.00	24.63
2.....	-	-	-	24.35	24.45	-	-	-	23.87	26.74 a	25.83	24.92
3.....	-	-	-	24.35	24.35	-	-	-	23.91	26.75 a	25.63	25.14
4.....	-	-	-	24.35	24.25	-	-	-	23.91	-	25.63	24.93
5.....	-	-	-	24.35	24.25	-	-	-	23.90	-	25.65	24.83
6.....	-	-	-	24.35	24.30	-	-	-	23.90	-	25.64	24.89
7.....	-	-	-	24.40	24.25	-	-	-	23.85	-	25.63	24.98
8.....	-	-	-	24.45	-	-	-	-	23.73	26.80	25.77	24.98
9.....	-	-	-	24.50	-	-	-	-	23.71	27.10	25.78	25.12
10.....	-	-	-	24.50	-	-	-	-	23.73	27.19	25.77	25.19
11.....	-	-	-	24.55	-	-	-	24.09	23.77	27.10	25.79	25.09
12.....	-	-	-	24.60	-	-	-	24.16	23.85	26.98	25.89	25.09
13.....	-	-	24.50	24.65	-	-	-	24.22	23.93	26.84	25.61	25.07
14.....	-	-	24.65	24.65	-	-	-	24.23	23.96	26.80	25.40	25.04
15.....	-	-	24.60	24.65	-	-	-	24.17	-	26.72	25.12	24.83
16.....	-	-	24.50	24.65	-	-	-	24.11	-	26.63	24.90	24.75
17.....	-	-	24.50	24.55	-	-	-	24.13	-	26.55	24.83	-
18.....	-	-	24.60	24.45	-	-	-	24.05	-	26.50	25.02	-
19.....	-	-	24.65	24.40	-	-	-	23.99	-	26.42	25.12	-
20.....	-	-	24.65	24.35	-	-	-	23.94	-	26.42	25.20	-
21.....	-	-	24.65	24.35	-	-	-	23.89	-	26.35	25.37	24.46
22.....	-	-	24.60	24.25	-	-	-	23.88	-	26.43	25.42	24.33
23.....	-	-	24.45	24.25	-	-	-	-	-	-	25.37	24.45
24.....	-	-	24.40	24.20	-	-	-	-	-	26.39	25.23	25.05
25.....	-	-	24.30	24.25	-	-	-	-	-	26.43	25.20	25.28
26.....	-	-	24.20	24.25	-	-	-	-	25.92 a	26.38	25.12	25.20
27.....	-	-	24.10	24.30	-	-	-	-	26.30 a	26.17	25.07	25.10
28.....	-	-	24.15	24.40	-	-	-	-	26.49 a	26.18	25.06	24.70
29.....	-	-	24.15	24.45	-	-	-	24.00	26.59 a	26.20	24.95	24.43
30.....	-	-	24.20	24.45	-	-	-	23.93	26.62 a	26.18	24.77	24.43
31.....	-	-	24.25	24.45	-	-	-	23.89	-	26.09	24.70	-

For the Period.....Maximum instantaneous gauge height, 27.25 feet at 2 a.m. on July 10
Minimum instantaneous gauge height, 23.63 feet at 7.30 a.m. on June 10

a - Manual gauge observations.

MARJORIE LAKE AT OUTLET - STATION No. 6KC-2

69

Location: Lat. 64° 13' 40", long. 99° 28' 00", District of Keewatin, Northwest Territories, at Outlet of Marjorie Lake.

Gauge: Recording; gauge heights are referred to an assumed datum.

Period of Record: Mainly continuous, July 1966 to September 1967.

Extremes Recorded: Maximum instantaneous gauge height, 45.97 ft at 3 p.m. on July 9, 1967.

Remarks: Records for 1966, not previously published, are included in this publication.

Daily Gauge Heights in Feet for the 1966 Water Year

Date	July	Aug.	Sept.	Date	July	Aug.	Sept.	Date	July	Aug.	Sept.
1.....	-	-	-	11.....	-	-	-	21.....	-	-	44.77
2.....	-	-	-	12.....	-	-	-	22.....	-	-	44.81
3.....	-	-	-	13.....	-	-	-	23.....	-	-	44.82
4.....	-	-	-	14.....	-	-	-	24.....	-	-	44.82
5.....	-	-	-	15.....	-	-	44.86a	25.....	-	-	44.86
6.....	-	-	-	16.....	-	-	44.92	26.....	-	-	44.71
7.....	-	-	-	17.....	-	-	44.93	27.....	-	-	44.73
8.....	-	-	-	18.....	-	-	44.99	28.....	-	-	44.80
9.....	-	-	-	19.....	45.46 a	-	44.90	29.....	-	-	44.78
10.....	-	-	-	20.....	-	-	44.81	30.....	-	-	44.74
								31.....	-	-	-

a - Manual gauge observations.

Daily Gauge Heights in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	44.72	44.42	44.56	-	-	-	44.92	44.26	43.92	45.58	45.49	44.99
2.....	44.68	44.40	44.51	-	-	-	44.85	44.25	43.90	45.61	45.46	45.09
3.....	44.61	44.30	44.51	-	-	-	44.87	44.23	43.87	45.68	45.44	44.86
4.....	44.56	44.36	44.52	-	-	-	44.88	44.21	43.86	45.70	45.43	44.78
5.....	44.53	44.56	44.51	-	-	-	44.90	44.20	43.85	45.73	45.43	44.87
6.....	44.31	44.70	44.56	-	-	-	44.87	44.18	43.85	45.78	45.38	44.93
7.....	44.45	44.66	44.55	-	-	-	44.77	44.17	43.85	45.84	45.29	44.87
8.....	44.50	44.61	44.56	-	-	45.03	44.77	44.18	43.83	45.88	45.32	44.80
9.....	44.46	44.57	44.52	-	-	45.03	44.80	44.16	43.83	45.88	45.31	44.90
10.....	44.46	44.50	44.51	-	-	45.02	44.77	44.15	43.83	45.88	45.29	44.93
11.....	44.47	44.52	44.51	-	-	45.01	44.76	44.12	43.87	45.83	45.30	44.89
12.....	44.50	44.60	44.51	-	-	45.01	44.85	44.12	44.00	45.80	45.12	44.83
13.....	44.50	44.69	44.53	-	-	45.01	44.89	44.11	44.13	45.77	45.27	44.88
14.....	44.54	44.76	44.48	-	-	44.98	44.87	44.06	44.23	45.77	45.17	44.90
15.....	44.55	44.89	44.48	-	-	44.97	44.83	44.03	44.33	45.73	45.13	44.89
16.....	44.53	44.84	44.48	-	-	44.93	44.75	44.03	44.51	45.73	45.12	44.85
17.....	44.56	44.80	44.48	-	-	44.98	44.70	44.03	44.63	45.73	45.16	44.78
18.....	44.59	44.71	44.49	-	-	44.96	44.65	44.03	44.73	45.71	45.11	44.86
19.....	44.50	44.70	44.49	-	-	44.95	44.60	44.03	44.83	45.70	45.16	44.87
20.....	44.41	44.71	44.49	-	-	44.97	44.56	44.01	44.89	45.66	45.18	44.69
21.....	44.31	44.68	44.49	-	-	44.97	44.55	43.99	44.91	45.67	45.24	44.71
22.....	44.32	44.68	44.44	-	-	44.94	44.53	43.97	44.97	45.65	45.17	44.66
23.....	44.29	44.70	44.44	-	-	44.97	44.51	43.97	45.08	45.61	44.97	44.53
24.....	44.40	44.70	44.49	-	-	44.97	44.46	43.93	45.14	45.58	45.13	44.44
25.....	44.45	44.70	44.49	-	-	44.99	44.42	43.94	45.20	45.56	45.06	44.50
26.....	44.42	44.64	44.54	-	-	44.82	44.39	43.91	45.25	45.53	45.04	44.55
27.....	44.40	44.61	44.60	-	-	44.90	44.36	43.91	45.24	45.57	45.05	44.67
28.....	44.54	44.61	44.60	-	-	44.93	44.34	43.91	45.34	45.45	45.03	44.81
29.....	44.57	44.59	44.60	-	-	44.96	44.30	43.90	45.50	45.56	44.98	-
30.....	44.50	44.55	44.65	-	-	44.95	44.28	43.89	45.53	45.56	44.99	-
31.....	44.41	-	44.60	-	-	44.93	-	43.90	-	45.54	44.99	-

For the Period..... Maximum instantaneous gauge height, 45.97 feet at 3 p.m. on July 9

DUBAWNT RIVER BELOW MARJORIE LAKE - STATION No. 6KC-1

Location: Lat. 64° 21', long. 99° 47', District of Keewatin, Northwest Territories, below Marjorie Lake.

Drainage Area: 22,000 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurements, 1960, 1961 and 1967; periods of various length, July 1962 to September 1964; continuous, October 1964 to September 1966. Records prior to 1963 were published under the title "Dubawnt River above Aberdeen Lake".

Extremes Recorded: Maximum daily discharge, 37,400 cfs on July 22, 1962. Minimum daily discharge, 5,600 cfs on May 31, 1966.

Remarks: The following miscellaneous measurements were obtained in 1967: May 13, 7,530 cfs; July 21, 15,200 cfs; September 18, 13,400 cfs; September 21, 12,200 cfs.

KAZAN RIVER AT OUTLET OF ENNADAI LAKE - STATION No. 6LA-1

Location: Lat. 61° 15' 40", long. 100° 58' 20", District of Keewatin, Northwest Territories, at outlet of Ennadai Lake.

Drainage Area: 8,100 square miles.

Gauge: Discharges are related to gauge on Ennadai Lake, Station No. 6LA-2.

Period of Record: Periods of various lengths, 1962, 1963, 1965 and 1966, and miscellaneous measurements only in 1964; continuous, May 1966 to September 1967.

Extremes Recorded: Maximum instantaneous discharge, 9,230 cfs at 6 p.m. on June 30, 1966. Minimum daily discharge, 1,990 cfs, March 6 to 9, 1967.

Remarks: Records fair.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	4,310	4,010	3,490	2,920	2,730	2,060	2,120	2,460	2,850	7,020	6,700	5,220
2.....	4,300	4,030	3,410	2,880	2,700	2,040	2,140	2,460	3,080	7,320	6,640	5,430
3.....	4,310	4,010	3,390	2,860	2,660	2,030	2,170	2,460	3,220	7,020	6,590	5,290
4.....	4,280	3,970	3,380	2,860	2,600	2,020	2,170	2,470	3,300	7,020	6,560	4,990
5.....	4,170	3,970	3,360	2,860	2,570	2,000	2,170	2,510	3,460	7,230	6,500	5,190
6.....	4,130	3,990	3,330	2,850	2,550	1,990	2,170	2,550	3,780	7,290	6,780	5,190
7.....	4,260	3,990	3,330	2,820	2,540	1,990	2,170	2,550	4,120	7,270	6,370	4,620
8.....	4,280	3,970	3,320	2,800	2,520	1,990	2,160	2,550	4,310	7,290	6,640	5,380
9.....	4,150	3,940	3,300	2,740	2,440	1,990	2,160	2,550	4,530	7,050	6,700	5,430
10.....	4,170	3,920	3,280	2,720	2,370	2,000	2,160	2,540	4,690	6,930	6,640	5,380
11.....	4,220	3,880	3,270	2,700	2,370	2,020	2,160	2,540	4,850	7,170	6,480	5,360
12.....	4,130	3,850	3,260	2,690	2,370	2,030	2,160	2,540	5,060	7,050	6,480	5,260
13.....	4,120	3,810	3,220	2,680	2,340	2,040	2,170	2,570	5,220	7,020	6,340	5,430
14.....	4,210	3,750	3,210	2,680	2,300	2,060	2,190	2,560	5,290	7,020	6,150	5,460
15.....	4,330	3,700	3,200	2,660	2,250	2,070	2,200	2,540	5,340	6,990	5,980	5,480
16.....	4,240	3,680	3,180	2,660	2,240	2,070	2,210	2,520	5,530	6,990	6,100	5,480
17.....	3,880	3,680	3,150	2,660	2,250	2,060	2,240	2,510	5,580	6,990	6,180	5,480
18.....	3,990	3,750	3,120	2,660	2,260	2,040	2,260	2,520	5,920	6,840	5,980	5,430
19.....	4,130	3,700	3,100	2,650	2,250	2,030	2,300	2,520	5,700	6,990	5,850	5,460
20.....	4,130	3,700	3,090	2,650	2,230	2,020	2,320	2,470	5,780	7,080	5,980	5,190
21.....	4,010	3,750	3,080	2,650	2,200	2,000	2,320	2,460	5,900	7,140	6,020	5,260
22.....	4,100	3,700	3,060	2,650	2,160	2,020	2,330	2,470	6,020	7,170	5,980	4,810
23.....	4,150	3,670	3,040	2,640	2,150	2,040	2,330	2,460	6,080	7,200	5,700	5,720
24.....	4,310	3,670	3,040	2,650	2,150	2,120	2,340	2,470	6,100	7,140	5,460	5,820
25.....	4,530	3,680	3,030	2,650	2,150	2,100	2,380	2,410	6,080	7,260	5,680	5,700
26.....	4,300	3,680	3,020	2,690	2,150	2,070	2,400	2,430	6,500 e	6,930	5,480	5,780
27.....	4,310	3,620	3,000	2,700	2,140	2,070	2,430	2,430	6,870	6,700	5,430	5,800
28.....	4,040	3,570	2,970	2,720	2,120	2,080	2,440	2,410	6,990	6,610	5,410	5,850
29.....	3,990	3,510	2,960	2,760	-	2,100	2,460	2,440	6,990	6,870	5,380	6,480
30.....	3,990	3,520	2,960	2,780	-	2,080	2,460	2,550	6,960	6,870	5,430	5,650
31.....	4,010	-	2,940	2,780	-	2,100	-	2,700	-	6,960	5,410	-
Total	129,480	113,670	98,490	84,670	65,760	63,330	67,690	77,620	156,100	218,450	189,020	163,020
Mean	4,180	3,790	3,180	2,730	2,350	2,040	2,260	2,500	5,200	7,050	6,100	5,430
Acre-feet	256,800	225,500	195,400	167,900	130,400	125,600	134,300	154,000	309,600	433,300	374,900	323,300

For the Year.....Maximum instantaneous discharge, 7,700 cfs at 9 a.m. on July 25
 Minimum daily discharge, 1,990 cfs, March 6 to 9
 Mean discharge, 3,910 cfs
 Total discharge, 2,831,000 ac-ft

KAZAN RIVER ABOVE KAZAN FALLS - STATION No. 6LC-1

Location: Lat. 63° 40' 25", long. 95° 45' 30", District of Keewatin, Northwest Territories, approximately three miles above Kazan Falls.

Drainage Area: 22,700 square miles.

Gauge: Recording.

Period of Record: Miscellaneous measurements only 1960 to 1965 and continuous, July 1965 to September 1967. Records prior to 1964 were published as "above Baker Lake" and in 1964 as "below Kazan Falls".

Extremes Recorded: Maximum daily discharge, 64,000 cfs (estimated) on June 15, 1966 (a discharge of 103,000 cfs was measured on July 18, 1962). Minimum daily discharge, 2,000 cfs (estimated), May 1 to 5, 1966.

Remarks: Records fair.

Daily Discharge in Cubic Feet per Second for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	17,100	14,100	5,700	4,070	4,190	4,100	3,800	4,100	3,950	39,500	30,100	22,300
2.....	16,900	13,700	5,460	4,280	4,310	4,100	3,650	3,830	4,250	36,800	30,600	21,600
3.....	16,700	13,300	5,380	4,310	4,400	4,100	3,700	3,620	4,700	37,200	31,100	22,400
4.....	16,700	12,800	5,240	4,370	4,520	4,310	3,620	3,580	5,300	36,800	30,000	22,200
5.....	16,500	13,200	5,120	4,400	4,670	4,130	3,680	3,550	6,480	36,200	29,900	21,600
6.....	17,200	13,100	5,030	4,370	4,430	4,160	3,800	3,550	8,080	36,600	29,800	21,500
7.....	16,700	12,600	4,970	4,190	4,340	4,220	3,920	3,550	9,450	35,800	29,700	20,700
8.....	15,200	12,200	4,880	4,130	4,280	4,280	4,040	3,550	11,600	35,400	29,700	20,600
9.....	14,200	11,800	4,790	4,520	4,220	4,310	4,070	3,550	13,600	35,000	29,600	20,500
10.....	14,000	11,600	4,730	4,640	4,070	4,280	3,950	3,550	17,400	34,600	29,600	20,500
11.....	14,200	11,000	4,670	4,460	4,190	4,280	3,800	3,550	22,200	34,600	28,900	20,300
12.....	14,500	10,600	4,670	4,340	4,220	4,100	3,700	3,550	26,900	34,600	28,600	20,000
13.....	15,600	10,100	4,550	4,160	4,310	4,100	3,800	3,550	30,400	34,300	29,600	19,800
14.....	15,600	9,780	4,520	4,400	4,310	3,950	3,800	3,550	33,200	34,200	28,700	19,500
15.....	16,100	9,700	4,700	4,610	4,310	3,830	3,830	3,550	35,800	34,200	28,900	19,100
16.....	14,400	9,450	4,550	4,580	4,130	3,860	3,700	3,550	40,900	33,900	28,300	19,300
17.....	15,100	9,400	4,550	4,430	4,130	3,980	3,520	3,380	44,600	33,500	27,700	19,300
18.....	16,200	9,650	4,550	4,400	4,130	4,100	3,320	3,550	47,700	33,100	26,900	18,500
19.....	14,800	10,000	4,310	4,310	4,100	4,280	3,320	3,600	45,900	32,800	26,300	18,200
20.....	13,500	10,600	4,280	3,920	4,100	4,130	3,320	3,620	50,100	32,800	25,800	18,200
21.....	13,500	9,940	4,310	4,100	4,130	3,980	3,550	3,650	51,000	32,900	25,500	18,000
22.....	13,800	9,160	4,370	4,160	4,190	4,010	3,780	3,680	51,900	32,900	25,200	17,500
23.....	13,800	8,720	4,430	4,160	4,310	3,980	3,800	3,720	50,500	32,700	25,600	17,600
24.....	14,700	7,960	4,310	4,340	4,340	3,800	3,600	3,750	48,600	32,300	25,200	17,800
25.....	12,600	7,440	4,370	4,370	4,130	3,580	3,580	3,750	47,400	32,300	25,100	16,800
26.....	12,800	6,560	4,310	4,550	4,100	3,480	3,320	3,800	43,000	33,600	24,500	15,300
27.....	15,700	6,760	4,220	4,610	4,100	3,420	3,320	3,800	39,100	33,300	24,100	14,000
28.....	15,300	6,160	4,130	4,670	4,310	3,520	3,580	3,800	37,100	33,300	23,500	13,400
29.....	14,600	5,700	4,280	4,670	-	3,620	3,860	3,800	32,700	31,200	23,800	14,700
30.....	14,100	5,270	4,130	4,430	-	3,800	3,980	3,800	34,100	31,200	22,800	16,400
31.....	14,700	-	3,950	4,460	-	3,890	-	3,800	-	30,400	22,300	-
Total	466,800	302,350	143,460	135,410	118,970	123,680	110,710	113,230	897,910	1,058,000	847,900	567,600
Mean	15,100	10,100	4,630	4,370	4,250	3,990	3,690	3,650	29,900	34,100	27,400	18,900
Acre-feet	925,900	599,700	284,500	268,600	236,000	245,300	219,600	224,600	1,781,000	2,099,000	1,682,000	1,126,000

For the Year.....Maximum daily discharge, 51,900 cfs on June 22
 Minimum daily discharge, 3,320 cfs, April 18 to 20, 26 and 27.
 Mean discharge, 13,400 cfs
 Total discharge, 9,691,000 ac-ft

Ice conditions October 28 to June 14.

ENNADAI LAKE AT ENNADAI - STATION No. 6LA-2

Location: Lat. 61° 08' 00", long. 100° 53' 20", District of Keewatin, Northwest Territories, at Meteorological Station.

Gauge: Recording; elevations are referred to approximate mean sea level datum as obtained from Mines and Technical Surveys Map Sheet 65 S.W. Subtract 6.38 feet from 1962 and 1963 elevations to convert to present datum.

Period of Record: Periods of varying length, 1962, 1963, 1965 to 1967.

Extremes Recorded: Maximum instantaneous elevation, 1,015.77 feet on September 15, 1962 (referred to present datum). Minimum daily elevation, 1,012.52 feet on May 15, 1966.

Daily Elevations in Feet for the 1967 Water Year

Day	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1.....	13.88	13.71	13.41	-	13.35	13.20	13.24	12.96	12.98	15.03	14.92	14.34
2.....	13.87	13.72	13.40	-	13.36	13.27	13.21	12.95	13.13	15.13	14.90	14.43
3.....	13.88	13.71	13.41	-	13.34	13.28	13.23	12.95	13.23	15.03	14.88	14.37
4.....	13.86	13.69	13.43	-	13.31	13.28	13.22	12.91	13.28	15.03	14.87	14.24
5.....	13.80	13.69	13.43	-	13.30	13.27	13.21	12.89	13.38	15.10	14.85	14.33
6.....	13.78	13.70	13.44	-	13.30	13.26	13.21	12.93	13.58	15.12	14.95	14.33
7.....	13.85	13.70	13.43	-	13.30	13.27	13.19	12.92	13.77	15.12	14.80	14.05
8.....	13.86	13.69	13.44	-	13.29	13.28	12.17	12.90	13.88	15.08	14.90	14.41
9.....	13.79	13.67	13.43	-	13.29	-	13.18	12.88	14.00	15.04	14.91	14.43
10.....	13.80	13.66	13.43	-	13.27	-	13.16	12.88	14.09	15.00	14.90	14.41
11.....	13.83	13.64	13.42	-	13.28	-	13.15	12.87	14.17	15.08	14.84	14.40
12.....	13.78	13.62	13.43	-	13.29	13.28	13.17	12.85	14.27	15.04	14.84	14.36
13.....	13.77	13.60	-	-	13.29	13.28	13.16	12.83	14.34	15.03	14.79	14.43
14.....	13.82	13.56	-	-	13.29	13.27	13.15	12.82	14.37	15.03	14.72	14.44
15.....	13.89	13.53	-	-	13.27	13.28	13.14	12.83	14.39	15.02	14.65	14.45
16.....	13.84	13.52	-	-	13.28	13.29	13.12	12.78	14.47	15.02	14.70	14.45
17.....	13.64	13.52	-	-	13.29	13.28	13.12	12.76	14.49	15.02	14.73	14.45
18.....	13.70	13.56	-	-	13.33	13.28	13.12	12.73	14.63	14.97	14.65	14.43
19.....	13.78	13.53	-	-	13.33	13.27	13.12	12.74	14.54	15.02	14.60	14.44
20.....	13.79	13.53	-	-	13.33	13.26	13.10	12.70	14.57	15.05	14.65	14.33
21.....	13.71	13.56	-	-	13.33	13.22	13.08	12.69	14.62	15.07	14.67	14.36
22.....	13.76	13.53	-	-	13.33	13.23	13.06	12.70	14.67	15.08	14.65	14.15
23.....	13.79	13.51	-	-	13.33	13.22	13.08	12.69	14.69	15.09	14.54	14.55
24.....	13.88	13.51	-	-	13.32	13.32	13.06	12.70	14.70	15.07	14.44	14.59
25.....	14.00	13.52	-	-	13.34	13.27	13.04	12.66	14.69	15.11	14.53	14.54
26.....	13.87	13.52	-	13.22	13.34	13.28	13.03	12.67	-	15.00	14.45	14.57
27.....	13.89	13.48	-	13.22	13.33	13.26	13.00	12.67	14.98	14.92	14.43	14.58
28.....	13.73	13.45	-	13.23	13.33	13.27	12.98	12.66	15.02	14.89	14.42	14.60
29.....	13.70	13.41	-	13.27	-	13.26	12.99	12.68	15.02	14.98	14.41	14.84
30.....	13.70	13.42	-	13.30	-	13.26	12.96	17.76	15.01	14.98	14.43	14.52
31.....	13.71	-	-	13.34	-	13.25	-	12.88	-	15.01	14.42	-

For the Period..... Maximum instantaneous elevation, 15.25 feet at 9 a.m. on July 25
Minimum instantaneous elevation, 12.63 feet at 4.30 p.m. on May 28

Add 1,000.00 to obtain elevation in feet above approximate mean sea level datum.

MISCELLANEOUS DISCHARGE MEASUREMENTS MADE IN THELON RIVER DRAINAGE BASIN
FOR THE YEAR 1967

Date	Stream	Tributary to	Location	Discharge cfs
May 13	Thelon River	Baker Lake	Above Beverly Lake	1,670
July 21	"	"	"	21,900
September 18	"	"	"	13,300

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