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SUMMARY OF RECORDS OF SURFACE WATERS OF UPPER COLUMBIA RIVER BASIN IN MONTANA AND IDAHO 1898–1938

BY

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INTRODUCTION

The Geological Survey, United States Department of the Interior, began to collect records of stream flow in the upper Columbia River Basin in Montana in July 1898, when gaging stations were established on the Bitterroot River near Missoula, the Blackfoot River near Bonner, and the Clark Fork at Missoula. The first gaging station in Idaho was established on the Priest River, at the town of Priest River, in June 1903. The work was expanded with the establishment of additional stations each succeeding year, the chief interest in records of stream flow in earlier years being in their value in investigations of irrigation projects on public lands. The work has been continued and enlarged until by September 30, 1938, records for periods of time varying in length had been collected by the Geological Survey and cooperating agencies at 113 gaging stations, of which 59 were still in operation on that date.

The purpose of this report is to bring together, in one volume, figures of monthly and yearly discharge for all gaging stations at which records have been collected in the upper Columbia River Basin in Montana and Idaho prior to October 1, 1938. Details of these records are contained in 45 volumes that have been issued from time to time by the Geological Survey. The monthly and yearly discharge given herein will serve most of the needs for stream-flow data, and the bibliography (pp. 3-15) will facilitate reference to more detailed information. Figures previously published for some of the items have been found to require revision or correction, and the revised or corrected figures are incorporated in this summary. Records for short periods not previously published have been estimated in order to complete the record for a year, if estimates for these periods could be made with reasonable accuracy.

COOPERATION

Since 1906 the Geological Survey has cooperated with the State engineer of Montana in the collection of stream-flow data. In 1909, the first appropriations for this work were made by the States of Montana and Idaho. Cooperative agreements have been entered into annually with each of the two States since that time, except that the State of Idaho furnished no financial assistance during the period 1915-18. Since 1931 full cooperation has been maintained between the Geological Survey and the Dominion Water and Power Bureau,

Department of Mines and Resources, Canada, in the operation of certain gaging stations on streams common to both the United States and Canada. The records from these stations, herein designated "international gaging stations," are collected in such a manner as to be equally acceptable and available in either country.

In the execution of the work other Federal bureaus and many municipal and private organizations have cooperated with the Geological Survey, either by furnishing data or by assisting in collecting data. Acknowledgment for cooperation by such agencies is given in the Geological Survey's annual series of papers on surface water supply.

ACKNOWLEDGMENTS

The part of the manuscript consisting of records of stream flow in Montana was prepared by H. C. Eagle with the assistance of C. D. Bue, under the direction of A. H. Tuttle. The part consisting of records of stream flow in Idaho was prepared by E. Hazel Haugse, under the direction of T. R. Newell.

EXPLANATION OF DATA

In the tables of monthly discharge the column headed "Maximum" gives the highest daily mean discharge and not the momentary discharge when the water surface was at crest stage. Likewise, the column headed "Minimum" gives the lowest daily mean discharge. The column headed "Mean" gives the average flow during the month.

The monthly mean for a gaging station represents the flow passing the gage, but the discharge in second-feet per square mile and run-off in inches as computed from that mean may not reflect the normal characteristics of the drainage basin if the flow is regulated, if water is diverted around the gage, or if the flow has been depleted by irrigation. The two last-named items have not been computed for a gaging station at which existing conditions do not approximate natural conditions at that station or for areas over which the rainfall averages less than 20 inches yearly. Discharge in second-feet per square mile and run-off in inches for earlier years have been computed for the first time for some stations; for others the figures previously obtained for these two items have been revised on the basis of a more accurate determination of drainage area.

Many gaging stations on streams in the irrigated areas are situated above most of the diversions from those streams, and therefore the discharge recorded does not show the water supply available for further development, as prior appropriations below the station must first be satisfied.

The data in this report consist of records of monthly and yearly discharge in a form available for ready reference. If need arises for more information than is given herein, detailed results may readily be found by consulting the publications cited on the following pages.

Records of stream flow in the upper Columbia River Basin prior to those for 1911 were published on the basis of the calendar year. Beginning with the report for 1911, the records have been published on the basis of the water year, which ends September 30. The numbers in the column headed "Year," therefore, refer to either the calendar year or the water year, depending on the basis on which the publication cited was prepared. The records for October to December 1910 were duplicated when the change was made.

The water-supply papers and other publications of the Geological Survey may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will, on application, furnish lists giving prices; or they may be consulted at the Geological Survey local offices in Helena, Mont., and Idaho Falls and Boise, Idaho, at the Geological Survey offices in other States, and at the public libraries in the principal cities.

Bibliography of stream-flow data in upper Columbia River Basin in Montana and Idaho

Publications of the Geological Survey are indicated by the following abbreviations: A, Annual Report; W, Water-Supply Paper. An asterisk (*) indicates that the records in the publication so marked have been revised in a later publication. A dagger (†) indicates that the figures of discharge per square mile and run-off in inches have been revised on the basis of the latest determination of drainage area. A double dagger (‡) indicates that the records do not include those of monthly discharge.

Gaging station	Year	Publication
Agency Creek near Jocko, Mont.....	1909	W 272, p. 103
	1910	W 292, p. 106
	1911	W 312, p. 108
	1912	W 332, p. 112
	1913	W 362, p. 105
	1914	W 392, p. 87
	1915	W 412, p. 147
	1916	W 442, p. 108
Ashley Creek near Kalispell, Mont.....	1931	W 722, p. 139
	1932	W 737, p. 127
	1933	W 752, p. 129
	1934	W 767, p. 123
	1935	W 792, p. 116
	1936	W 812, p. 111
	1937	W 832, p. 118
	1938	W 862, p. 122
Ashley Creek near Kila, Mont.....	1916	W 442, p. 85
Ball Creek near Bonners Ferry, Idaho....	1928	W 672, p. 64
	1929	W 692, p. 111
	1930	W 707, p. 115
	1931	W 722, p. 106
	1932	W 737, p. 95
	1933	W 752, p. 96
	1934	W 767, p. 91
Bear Creek near Victor, Mont.....	1938	W 862, p. 107
Big Creek near Polson, Mont.....	1917	W 462, p. 81
	1918	W 482, p. 73
	1919-20	W 512, p. 129
	1921	W 532, p. 118
	1922	W 552, p. 117
	1923	W 572, p. 104
	1924-25	W 612, p. 90
	1926	W 632, p. 89
	1927	W 652, p. 64

Bibliography of stream-flow data in upper Columbia River Basin in Montana and Idaho--Continued

Gaging station	Year	Publication
Big Creek near Polson, Mont.--Continued.	1928	W 672, p. 88
	1929	W 692, p. 144
	1930	W 707, p. 148
	1931	W 722, p. 141
	1932	W 737, p. 129
Big Knife Creek near Jocko, Mont.....	1909	W 272, p. 101
	1910	W 292, p. 103
	1911	W 312, p. 106
	1912	W 332, p. 110
	1913	W 362, p. 103
	1914	W 392, p. 86
	1915	W 412, p. 145
	1916	W 442, p. 107
Bitterroot River near Darby, Mont.....	1937	W 832, p. 100
	1938	W 862, p. 103
Bitterroot River near Grantsdale, Mont..	1902	W 85, p. 201
	1903	W 100, p. 408
	1904	W 135, p. 35
	1905	W 178, p. 21
	1906	W 214, p. 20
	1907	W 252, p. 90
Bitterroot River near Missoula, Mont....	1898	20th A, pt. 4, p. 492; ‡W 28, pp. 163, 168, 170
	1899	21st A, pt. 4, p. 419; ‡W 38, pp. 368, 369; ‡W 39, p. 454
	1900	22nd A, pt. 4, p. 441; ‡W 51, pp. 433, 434; ‡W 52, p. 522
	1901	‡W 66, p. 131; W 75, p. 199
	1903	W 100, p. 406
	1904	W 135, p. 37
Bitterroot River, East Fork of, at Conner, Mont. (Published as East Fork of Bitterroot River near Darby prior to 1937.)	1910	†W 292, p. 72
	1911	†W 312, p. 70
	1912	†W 332, p. 70
	1913	W 362, p. 64
	1914	W 392, p. 57
	1915	‡W 412, p. 115
	1937	W 832, p. 101
	1938	W 862, p. 104
Bitterroot River, West Fork of, near Darby, Mont.	1911	W 312, p. 68
	1912	W 332, p. 68
	1913	W 362, p. 62
	1914	W 392, p. 56
	1916	W 442, p. 75
	1917	W 462, p. 73 (Fragmentary record.)
Blackfoot River at Clearwater, Mont.....	1921	W 532, p. 106
	1922	W 552, p. 99
	1923	W 572, p. 88
Blackfoot River near Bonner, Mont.....	1898	20th A, pt. 4, p. 491; ‡W 28, pp. 163, 168, 170
	1899	21st A, pt. 4, p. 416; ‡W 38, pp. 362, 363; ‡W 39, p. 454
	1900	22nd A, pt. 4, p. 433; ‡W 51, pp. 430, 431; ‡W 52, p. 522
	1901	‡W 66, pp. 130, 177; W 75, p. 198
	1903	W 100, p. 410
	1904	W 135, p. 33
	1905	W 178, p. 19
Blackfoot River, North Fork of, near Ovando, Mont.	1921	W 532, p. 107
	1922	W 552, p. 101
	1923	W 572, p. 89
Blodgett Creek near Hamilton, Mont.....	1938	W 862, p. 105
Blodgett Creek near Jocko, Mont.....	1909	W 272, p. 105
Boulder Creek near Leonia, Idaho.....	1928	W 672, p. 57
	1929	W 692, p. 104
	1930	W 707, p. 106
	1931	W 722, p. 98
	1932	W 737, p. 87
	1933	W 752, p. 88
	1934	W 767, p. 83
	1935	W 792, p. 86
	1936	W 812, p. 81
	1937	W 832, p. 83
	1938	W 862, p. 85

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Gaging station	Year	Publication
Boundary Creek near Port Hill, Idaho....	1928	W 672, p. 72
	1929	W 692, p. 119
	1930	W 707, p. 123
	1931	W 722, p. 114
	1932	W 737, p. 103
	1933	W 752, p. 104
	1934	W 767, p. 99
	1935	W 792, p. 92
	1936	W 812, p. 87
	1937	W 832, p. 89
	1938	W 862, p. 91
Brush Creek near Copeland, Idaho.....	1928	W 672, p. 68
	1929	W 692, p. 115
	1930	W 707, p. 119
	1931	W 722, p. 110
	1932	W 737, p. 99
	1933	W 752, p. 100
	1934	W 767, p. 95
Burnt Fork Creek near Stevensville, Mont.	1920	W 512, p. 123
	1921	W 532, p. 112
	1922	W 552, p. 107
	1923	W 572, p. 94
	1924	W 592, p. 92
Caribou Creek near Moravia, Idaho.....	1928	W 672, p. 62
	1929	W 692, p. 109
	1930	W 707, p. 113
	1931	W 722, p. 104
	1932	W 737, p. 93
	1933	W 752, p. 94
	1934	W 767, p. 89
Clark Fork above Missoula, Mont.....	1929	W 692, p. 120
	1930	W 707, p. 124
	1931	W 722, p. 115
	1932	W 737, p. 104
	1933	W 752, p. 105
	1934	W 767, p. 100
	1935	W 792, p. 93
	1936	W 812, p. 88
	1937	W 832, p. 90
	1938	W 862, p. 92
Clark Fork at Missoula, Mont.....	1898	20th A, pt. 4, p. 491; ‡W 28, pp. 163, 169, 170
	1899	21st A, pt. 4, p. 418; ‡W 38, pp. 365, 366, 367; ‡W 39, p. 454
	1900	22nd A, pt. 4, p. 435; ‡W 51, pp. 432, 433; ‡W52, p. 522
	1901	‡W 66, pp. 131, 177; W 75, p. 198
	1902	W 85, p. 199
	1903	W 100, p. 403
	1904	W 135, p. 28
	1905	W 178, p. 16
	1906	W 214, p. 22
	1907	W 252, p. 83
Clark Fork at St. Regis, Mont.....	1911	W 312, p. 59
	1912	W 332, p. 59
	1913	W 362, p. 54
	1914	W 392, p. 49
	1915	W 412, p. 106
	1916	W 442, p. 68
	1917	W 462, p. 65
	1918	W 482, p. 62
	1919-20	W 512, p. 111
	1921	W 532, p. 88
	1922	W 552, p. 89
	1923	W 572, p. 78
	1929	W 692, p. 121
	1930	W 707, p. 126
	1931	W 722, p. 117
	1932	W 737, p. 106
	1933	W 752, p. 107
	1934	W 767, p. 102
	1935	W 792, p. 95
	1936	W 812, p. 90
	1937	W 832, p. 92
	1938	W 862, p. 94
Clark Fork below Missoula, Mont.....	1930	W 707, p. 125
	1931	W 722, p. 116
	1932	W 737, p. 105

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Gaging station	Year	Publication
Clark Fork below Missoula, Mont.--Con...	1933	W 752, p. 106
	1934	W 767, p. 101
	1935	W 792, p. 94
	1936	W 812, p. 89
	1937	W 832, p. 91
	1938	W 862, p. 93
Clark Fork near Heron, Mont.....	1928-29	W 692, p. 123
	1930	W 707, p. 128
	1931	W 722, p. 119
	1932	W 737, p. 108
	1933	W 752, p. 109
	1934	W 767, p. 104
	1935	W 792, p. 97
	1936	W 812, p. 92
	1937	W 832, p. 94
	1938	W 862, p. 96
Clark Fork near Plains, Mont.....	1911	W 312, p. 61
	1912	W 332, p. 61
	1913	W 362, p. 55
	1914	W 392, p. 50
	1915	W 412, p. 107
	1916	W 442, p. 69
	1917	W 462, p. 67
	1918	W 482, p. 63
	1919-20	W 512, p. 114
	1921	W 532, p. 89
	1922	W 552, p. 91
	1923	W 572, p. 80
	1924	W 592, p. 80
	1925	W 612, p. 76
	1926	W 632, p. 76
	1927	W 652, p. 53
	1928	W 672, p. 73
	1929	W 692, p. 122
	1930	W 707, p. 127
	1931	W 722, p. 118
	1932	W 737, p. 107
	1933	W 752, p. 108
	1934	W 767, p. 103
	1935	W 792, p. 96
	1936	W 812, p. 91
	1937	W 832, p. 93
	1938	W 862, p. 95
Clearwater River at Clearwater, Mont....	1921	W 532, p. 108
	1922	W 552, p. 102
	1923	W 572, p. 90
Coeur d'Alene River at Enaville, Idaho..	1911	W 312, p. 126
	1912	W 332, p. 141
	1913	W 362, p. 128
Coeur d'Alene River at Prichard, Idaho..	1912	W 332, p. 139
	1913	W 362, p. 127
	1914	W 392, p. 106
Coeur d'Alene River near Cataldo, Idaho.	1911	W 312, p. 128
	1912	W 332, p. 142
	1913	W 362, p. 130
	1920-21	W 532, p. 147
	1922	W 552, p. 127
	1923	W 572, p. 121
	1924	W 592, p. 109
	1925	W 612, p. 98
	1926	W 632, p. 97
	1927	W 652, p. 69
	1928	W 672, p. 94
	1929	W 692, p. 152
	1930	W 707, p. 159
	1931	W 722, p. 153
	1932	W 737, p. 142
	1933	W 752, p. 141
	1934	W 767, p. 134
	1935	W 792, p. 126
	1936	W 812, p. 121
	1937	W 832, p. 130
	1938	W 862, p. 134
Coeur d'Alene River, North Fork of, near Enaville, Idaho.	1912	W 332, p. 144
	1913	W 362, p. 140

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Gaging station	Year	Publication
Cow Creek near Bonners Ferry, Idaho.....	1928	W 672, p. 59
	1929	W 692, p. 106
	1930	W 707, p. 110
	1931	W 722, p. 101
	1932	W 737, p. 90
	1933	W 752, p. 91
	1934	W 767, p. 86
Crow Creek at Lozeau's ranch near Ronan, Mont.	1911	W 312, p. 94
	1912	W 332, p. 93
	1913	W 362, p. 84
	1914	W 392, p. 72
	1915	W 412, p. 131
	1916	W 442, p. 93
Crow Creek near Ronan, Mont.....	1906	W 214, p. 25
	1907-8	W 252, p. 97
	1909	W 272, p. 86
	1910	W 292, p. 90
	1911	W 312, p. 92
	1912	W 332, p. 92
	1913	W 362, p. 82
	1914	W 392, p. 71
	1915	W 412, p. 129
	1916	W 442, p. 91
	1917	W 462, p. 83
Deep Creek at Moravia, Idaho.....	1928	W 672, p. 60
	1929	W 692, p. 107
	1930	W 707, p. 111
	1931	W 722, p. 102
	1932	W 737, p. 91
	1933	W 752, p. 92
	1934	W 767, p. 87
	1935	W 792, p. 89
	1936	W 812, p. 84
	1937	W 832, p. 86
	1938	W 862, p. 88
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	1909	W 272, p. 92
	1910	W 292, p. 96
	1911	W 312, p. 97
	1912	W 332, p. 97
	1913	W 362, p. 89
	1914	W 392, p. 76
	1915	W 412, p. 135
	1916	W 442, p. 96
East Finley Creek near Jocko, Mont.....	1909	W 272, p. 108
	1910	W 292, p. 111
	1911	W 312, p. 112
	1912	W 332, p. 117
	1913	W 362, p. 110
	1914	W 392, p. 90
	1915	W 412, p. 149
Falls Creek near Jocko, Mont.....	1912	W 332, p. 106
	1913	W 362, p. 102
	1914	W 392, p. 84
	1915	W 412, p. 144
Finley Creek near Jocko, Mont.....	1909	W 272, p. 107
	1910	W 292, p. 110
	1911	W 312, p. 110
	1912	W 332, p. 114
	1913	W 362, p. 107
	1914	W 392, p. 89
	1915	W 412, p. 148
Flathead River at Columbia Falls, Mont..	1922	W 552, p. 109
	1928	W 672, p. 76
	1929	W 692, p. 131
	1930	W 707, p. 135
	1931	W 722, p. 125
	1932	W 737, p. 114
	1933	W 752, p. 115
	1934	W 767, p. 111
	1935	W 792, p. 105
	1936	W 812, p. 100
	1937	W 832, p. 104
	1938	W 862, p. 110

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Gaging station	Year	Publication
Flathead River at Flathead, British Columbia. (Published as Flathead River near Trail Creek, Mont., prior to 1935.)	1929	W 692, p. 129
	1930	W 707, p. 133
	1931	W 722, p. 123
	1932	W 737, p. 112
	1933	W 752, p. 113
	1934	W 767, p. 109
	1935	W 792, p. 103
	1936	W 812, p. 98
	1937	W 832, p. 102
	1938	W 862, p. 108
Flathead River near Columbia Falls, Mont.	1911	W 312, p. 75
	1912	W 332, p. 76
	1913	W 362, p. 69
	1914	W 392, p. 62
	1915	W 412, p. 119
	1916	W 442, p. 78
	1917	W 462, p. 76
	1929	W 692, p. 130
	1930	W 707, p. 134
	1931	W 722, p. 124
	1932	W 737, p. 113
	1933	W 752, p. 114
	1934	W 767, p. 110
	1935	W 792, p. 104
	1936	W 812, p. 99
	1937	W 832, p. 103
	1938	W 862, p. 109
Flathead River near Polson, Mont.....	1907-8	W 252, p. 92
	1909	W 272, p. 79
	1910	W 292, p. 81
	1911	W 312, p. 80
	1912	W 332, p. 81
	1913	W 362, p. 72
	1914	W 392, p. 64
	1915	W 412, p. 121
	1916	W 442, p. 81
	1917	W 462, p. 78
	1918	W 482, p. 69
	1919-20	W 512, p. 125
	1921	W 532, p. 115
	1922	W 552, p. 111
	1923	W 572, p. 98
	1924	W 592, p. 94
	1925	W 612, p. 85
	1926	*W 632, p. 85; W 652, p. 59
	1927	W 652, p. 59
	1928	W 672, p. 83
	1929	W 692, p. 138
	1930	W 707, p. 142
	1931	W 722, p. 132
	1932	*W 737, p. 121; W 752, p. 122
	1933	W 752, p. 122
	1934	W 767, p. 118
	1935	W 792, p. 112
	1936	W 812, p. 106
	1937	W 832 p. 113
	1938	W 862, p. 117
Flathead River, Middle Fork of, at Belton, Mont.	1911	W 312, p. 83
	1912	W 332, p. 83
	1913	W 362, p. 74
	1914	W 392, p. 65
	1915	W 412, p. 123
	1916	W 442, p. 82
	1917	W 462, p. 79
	1918	W 482, p. 71
	1919-20	W 512, p. 127
	1921	W 532, p. 116
	1922	W 552, p. 113
	1923	W 572, p. 100
	1929	W 692, p. 139
	1930	W 707, p. 143
	1931	W 722, p. 133
	1932	W 737, p. 122
	1933	W 752, p. 124
Flathead River, South Fork of, near Columbia Falls, Mont.	1911	W 312, p. 84
	1912	W 332, p. 86
	1913	W 362, p. 77
	1923	W 572, p. 101
	1924	W 592, p. 96
	1925	W 612, p. 87

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Gaging station	Year	Publication
Flathead River, South Fork of, near Columbia Falls, Mont.--Continued.	1926	W 632, p. 86
	1927	W 652, p. 62
	1928	W 672, p. 84
	1929	W 692, p. 140
	1930	W 707, p. 144
	1931	W 722, p. 134
	1932	W 737, p. 123
	1933	W 752, p. 125
	1934	W 767, p. 119
	1935	W 792, p. 113
	1936	W 812, p. 107
	1937	W 832, p. 114
	1938	W 862, p. 118
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	1936-37	W 832, p. 82
	1938	W 862, p. 84
Grave Creek near Fortine, Mont.	1923	W 572, p. 76
	1924	W 592, p. 79
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	1910	W 292, p. 114
	1911	W 312, p. 114
	1912	W 332, p. 118
	1913	W 362, p. 111
	1914	W 392, p. 92
	1915	W 412, p. 151
	1916	W 442, p. 112
Jocko River at Ravalli, Mont.	1907-8	W 252, p. 111
	1909	W 272, p. 99
	1910	W 292, p. 101
	1911	W 312, p. 104
Jocko River near Jocko, Mont.	1909	W 272, p. 97
	1910	W 292, p. 99
	1911	W 312, p. 102
	1912	W 332, p. 102
	1913	W 362, p. 95
	1914	W 392, p. 80
	1915	W 412, p. 139
	1916	W 442, p. 101
	1918	W 482, p. 74
	1919	W 512, p. 132
Jocko River, Middle Fork of, near Jocko, Mont.	1912	W 332, p. 109
	1913	W 362, p. 98
	1914	W 392, p. 81
	1915	W 412, p. 141
Jocko River, North Fork of, near Jocko, Mont.	1912	6th biennial report, Montana State Engineer, p. 87
	1913	W 362, p. 100
	1914	W 392, p. 83
	1915	W 412, p. 142
Jocko River, South Fork of, near Jocko, Mont.	1912	*W 332, p. 108; W 362, p. 93
	1913	W 362, p. 93
	1914	W 392, p. 78
	1915	W 412, p. 138
Kootenai River at Bonners Ferry, Idaho.	1904	†W 135, p. 25
	1928	W 672, p. 49
	1929	W 692, p. 92
	1930	W 707, p. 92
	1931	W 722, p. 90
	1932	W 737, p. 77
	1933	W 752, p. 78
	1934	W 767, p. 75
	1935	W 792, p. 77
	1936	W 812, p. 73
	1937	W 832, p. 73
	1938	W 862, p. 75
Kootenai River at Katka, Idaho.	1928	W 672, p. 47
	1929	W 692, p. 90
	1930	W 707, p. 90
	1931	W 722, p. 88
	1932	W 737, p. 75
	1933	W 752, p. 76
Kootenai River at Leonia, Idaho.	1928	W 672, p. 46
	1929	W 692, p. 89
	1930	W 707, p. 89
	1931	W 722, p. 87
	1932	W 737, p. 74

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Gaging station	Year	Publication
Kootenai River at Leonia, Idaho--Con....	1933	W 752, p. 75
	1934	W 767, p. 73
	1935	W 792, p. 75
	1936	W 812, p. 71
	1937	W 832, p. 71
	1938	W 862, p. 73
Kootenai River at Libby, Mont.....	1911	†W 312, p. 52
	1912	†W 332, p. 52
	1913	†W 362, p. 47
	1914	†W 392, p. 44
	1915	†W 412, p. 101
	1916	†W 442, p. 62
	1917	†W 462, p. 64
	1918	†W 482, p. 60
	1919	†W 512, p. 107
	1920-21	†W 532, p. 84
	1922	†W 552, p. 85
	1923	†W 572, p. 74
	1924	†W 592, p. 77
	1925	†W 612, p. 75
	1926	†W 632, p. 74
	1927	†W 652, p. 50
	1928	†W 672, p. 45
	1929	†W 692, p. 88
	1930	†W 707, p. 88
	1931	†W 722, p. 86
	1932	†W 737, p. 73
	1933	†W 752, p. 74
	1934	†W 767, p. 72
	1935	†W 792, p. 74
	1936	†W 812, p. 70
	1937	W 832, p. 70
	1938	W 862, p. 72
Kootenai River at Newgate, British Columbia.	1931-34	W 767, p. 67
	1935	W 792, p. 72
	1936	W 812, p. 68
	1937	W 832, p. 68
	1938	W 862, p. 70
Kootenai River at Port Hill, Idaho.....	1904	‡W 135, p. 28
	1928	W 672, p. 55
	1929	W 692, p. 102
	1930	W 707, p. 104
	1931	W 722, p. 96
	1932	W 737, p. 84
	1933	W 752, p. 85
	1934	W 767, p. 81
	1935	W 792, p. 84
	1936	W 812, p. 79
	1937	W 832, p. 80
	1938	W 862, p. 82
Kootenai River near Copeland, Idaho.....	1928	‡W 672, p. 53
	1929	W 692, p. 99
	1930	W 707, p. 100
	1931	W 722, p. 94
	1932	W 737, p. 81
	1933	W 752, p. 82
	1934	W 767, p. 79
	1935	W 792, p. 81
	1936	W 812, p. 77
	1937	W 832, p. 77
	1938	W 862, p. 79
Kootenai River near Rexford, Mont.....	1929	W 692, p. 87
	1930	W 707, p. 87
	1931	W 722, p. 85
	1932	W 737, p. 72
	1933	W 752, p. 73
	1934	W 767, p. 71
	1935	W 792, p. 73
	1936	W 812, p. 69
	1937	W 832, p. 69
	1938	W 862, p. 71
Little Bitterroot River near Hubbart, Mont.	1909	W 272, p. 82
	1910	W 292, p. 88
	1911	W 312, p. 90
	1912	W 332, p. 89
	1913	W 362, p. 80
	1914	W 392, p. 69
	1915	W 412, p. 127
	1916	W 442, p. 88

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Gaging station	Year	Publication
Little Bitterroot River near Marion, Mont.	1910	W 292, p. 86
	1911	W 312, p. 87
	1912	W 332, p. 88
	1913	W 362, p. 79
	1914	W 392, p. 68
	1915	W 412, p. 125
	1916	W 442, p. 86
Little Bitterroot River near Niarada, Mont. (Published as Little Bitterroot River near Dayton prior to 1916.)	1908	W 252, p. 96
	1909	W 272, p. 84
	1917	W 462, p. 82
Logan Creek at Tally Lake, near Whitefish, Mont.	1931-32	W 737, p. 125
	1933	W 752, p. 127
	1934	W 767, p. 121
	1936	W 812, p. 109
	1937	W 832, p. 116
	1938	W 862, p. 120
Logan Creek near Whitefish, Mont.....	1931	W 722, p. 137
Lolo Creek near Lolo, Mont.....	1912	W 332, p. 72
	1913	W 362, p. 65
	1914	W 392, p. 59
	1915	W 412, p. 116
Long Canyon Creek near Port Hill, Idaho.	1928	W 672, p. 70
	1929	W 692, p. 117
	1930	W 707, p. 121
	1931	W 722, p. 112
	1932	W 737, p. 101
	1933	W 752, p. 102
	1934	W 767, p. 97
	1935	W 792, p. 90
	1936	W 812, p. 85
	1937	W 832, p. 87
	1938	W 862, p. 89
Mission Creek at Copeland, Idaho.....	1928	W 672, p. 66
	1929	W 692, p. 113
	1930	W 707, p. 117
	1931	W 722, p. 108
	1932	W 737, p. 97
	1933	W 752, p. 98
	1934	W 767, p. 93
Mission Creek near St. Ignatius, Mont...	1906	W 214, p. 27
	1907-8	W 252, p. 101
	1909	W 272, p. 90
	1910	W 292, p. 94
	1911	W 312, p. 95
	1912	W 332, p. 95
	1913	W 362, p. 86
	1914	W 392, p. 74
	1915	W 412, p. 133
	1916	W 442, p. 95
	1917	W 462, p. 85
Moyie River at Eastport, Idaho.....	1929-30	W 707, p. 107
	1931	W 722, p. 99
	1932	W 737, p. 88
	1933	W 752, p. 89
	1934	W 767, p. 84
	1935	W 792, p. 87
	1936	W 812, p. 82
	1937	W 832, p. 84
	1938	W 862, p. 86
Moyie River at Eileen, Idaho.....	1926-27	W 652, p. 51
	1928	W 672, p. 58
	1929	W 692, p. 105
	1930	W 707, p. 109
	1931	W 722, p. 100
	1932	W 737, p. 89
	1933	W 752, p. 90
	1934	W 767, p. 85
	1935	W 792, p. 88
	1936	W 812, p. 83
	1937	W 832, p. 85
	1938	W 862, p. 87
Moyie River at Snyder, Idaho.....	1912	W 332, p. 57
	1913	W 362, p. 52
	1914	W 392, p. 47
	1915	W 412, p. 104
	1916	W 442, p. 66

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Gaging station	Year	Publication
Moyie River at Snyder, Idaho--Continued.	1919-20	W 512, p. 109
	1921	W 532, p. 86
	1922	W 552, p. 87
	1923	W 572, p. 77
Mud Creek near Ronan, Mont.	1908	W 252, p. 100
	1909	W 272, p. 88
	1910	W 292, p. 92
Myrtle Creek near Bonners Ferry, Idaho..	1928	W 672, p. 63
	1929	W 692, p. 110
	1930	W 707, p. 114
	1931	W 722, p. 105
	1932	W 737, p. 94
	1933	W 752, p. 95
	1934	W 767, p. 90
Nevada Creek near Finn, Mont.	1934	W 767, p. 108
	1935	W 792, p. 102
	1936	W 812, p. 97
	1937	W 832, p. 99
	1938	W 862, p. 102
Parker Creek near Copeland, Idaho.	1928	W 672, p. 69
	1929	W 692, p. 116
	1930	W 707, p. 120
	1931	W 722, p. 111
	1932	W 737, p. 100
	1933	W 752, p. 101
	1934	W 767, p. 96
Post Creek at Deschamp's ranch, near Ronan, Mont.	1911	W 312, p. 98
Post Creek at Fitzpatrick's ranch near Ronan, Mont. (Above North Fork of Post Creek.)	1906	W 214, p. 28
	1907	W 252, p. 107
	1908	*W 252, p. 107; W 272, p. 94
	1909	W 272, p. 94
	1910	W 292, p. 97
	1911	W 312, p. 98
Post Creek near St. Ignatius, Mont. (Below North Fork of Post Creek.)	1912	W 332, p. 99
	1913	W 362, p. 90
	1914	W 392, p. 77
	1915	W 412, p. 136
	1916	W 442, p. 98
	1917	W 462, p. 87
Priest River at Falk's ranch near Priest River, Idaho.	1911	W 312, p. 120
	1912	W 332, p. 126
Priest River at outlet of Priest Lake near Coolin, Idaho.	1911	†W 332, p. 125
	1912-13	W 362, p. 118
	1914	W 392, p. 97
	1915	W 412, p. 155
	1916	W 442, p. 117
	1917	W 462, p. 89
	1918-20	W 512, p. 135
	1921	W 532, p. 120
	1922	W 552, p. 119
	1923	W 572, p. 106
	1924	W 592, p. 99
	1925	W 612, p. 92
	1926	W 632, p. 91
	1927	W 652, p. 65
	1928	W 672, p. 90
	1929	W 692, p. 146
	1930	W 707, p. 150
	1931	W 722, p. 143
	1932	W 737, p. 131
	1933	W 752, p. 132
	1934	W 767, p. 126
	1935	W 792, p. 119
	1936	W 812, p. 114
	1937	W 832, p. 121
	1938	W 862, p. 125
Priest River at Priest River, Idaho.	1903-5	W 572, p. 108
	1911	W 312, p. 122
	1923	W 572, p. 108
	1929	W 692, p. 147
	1930	W 707, p. 151

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Gaging station	Year	Publication
Priest River near Priest River, Idaho...	1931	W 722, p. 144
	1932	W 737, p. 132
	1933	W 752, p. 133
	1934	W 767, p. 127
	1935	W 792, p. 120
	1936	W 812, p. 115
	1937	W 832, p. 122
	1938	W 862, p. 126
Prospect Creek near Thompson Falls, Mont.	1911	W 312, p. 118
Racetrack Creek near Anaconda, Mont.....	1911	W 312, p. 63
	1912	W 332, p. 63
Ranch Creek near Quigley, Mont.....	1922	W 552, p. 98
	1923	W 572, p. 86
	1924	W 592, p. 87
	1925	W 612, p. 82
	1926	W 632, p. 82
	1927	W 652, p. 57
Rattlesnake Creek at Missoula, Mont.....	1899	21st A, pt. 4, p. 417; ‡W38, p. 364; ‡W 39, p. 454
Revais Creek near Dixon, Mont.....	1911	W 312, p. 115
	1912	W 332, p. 120
	1913	W 362, p. 114
	1914	W 392, p. 94
	1915	W 412, p. 152
	1916	W 442, p. 114
	1918	W 482, p. 76
	1919	W 512, p. 133
Rock Creek near Copeland, Idaho.....	1928	W 672, p. 67
	1929	W 692, p. 114
	1930	W 707, p. 118
	1931	W 722, p. 109
	1932	W 737, p. 98
	1933	W 752, p. 99
	1934	W 767, p. 94
Rock Creek near Quigley, Mont.....	1912	W 332, p. 66; W 362, p. 62
	1922	W 552, p. 97
	1923	W 572, p. 84
	1924	W 592, p. 85
	1925	W 612, p. 81
	1926	W 632, p. 80
	1927	W 652, p. 56
Rock Creek, East Fork of, near Philipsburg, Mont.	1935	W 792, p. 101
	1936	W 812, p. 96
	1937	W 832, p. 98
	1938	W 862, p. 101
Rock Creek, Middle Fork of, near Philipsburg, Mont.	1937-38	W 862, p. 100
St. Joe River at Avery, Idaho.....	1911-12	W 332, p. 131
	1913	W 362, p. 141
	1914	W 392, p. 114
	1915	W 412, p. 173
	1916	W 442, p. 132
	1917	W 462, p. 106
St. Joe River at Calder, Idaho.....	1920	W 512, p. 160
	1921	W 532, p. 144
	1922	W 552, p. 137
	1923	W 572, p. 130
	1924	W 592, p. 118
	1925	W 612, p. 107
	1926	W 632, p. 106
	1927	W 652, p. 75
	1928	W 672, p. 101
	1929	W 692, p. 157
	1930	W 707, p. 165
	1931	W 722, p. 159
	1932	W 737, p. 148
	1933	W 752, p. 147
	1934	W 767, p. 139
	1935	W 792, p. 131
	1936	W 812, p. 126
	1937	W 832, p. 135
	1938	W 862, p. 139

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Gaging station	Year	Publication
St. Joe River near Calder, Idaho.....	1911-12	W 332, p. 134
St. Maries River at Lotus, Idaho.....	1911-12	W 332, p. 136
	1920	W 512, p. 161
	1921	W 532, p. 145
	1922	W 552, p. 139
	1923	W 572, p. 132
	1924	W 592, p. 120
	1925	W 612, p. 109
	1926	W 632, p. 109
	1927	W 652, p. 76
	1928	W 672, p. 102
	1929	W 692, p. 158
	1930	W 707, p. 166
	1931	W 722, p. 160
	1932	W 737, p. 149
	1933	W 752, p. 148
	1934	W 767, p. 140
	1935	W 792, p. 132
	1936	W 812, p. 127
	1937	W 832, p. 136
	1938	W 862, p. 140
St. Regis River near St. Regis, Mont...	1911	W 312, p. 73
	1912	W 332, p. 74
	1913	W 362, p. 66
	1914	W 392, p. 60
	1915	W 412, p. 117
	1916-17	W 462, p. 73
Skalkaho Creek near Hamilton, Mont.....	1920-21	W 532, p. 109
	1922	W 552, p. 104
	1923	W 572, p. 92
	1924	W 592, p. 89
Smith Creek near Port Hill, Idaho	1928	W 672, p. 71
	1929	W 692, p. 118
	1930	W 707, p. 122
	1931	W 722, p. 113
	1932	W 737, p. 102
	1933	W 752, p. 103
	1934	W 767, p. 98
	1935	W 792, p. 91
	1936	W 812, p. 86
	1937	W 832, p. 88
	1938	W 862, p. 90
Snow Creek near Moravia, Idaho.....	1928	W 672, p. 61
	1929	W 692, p. 108
	1930	W 707, p. 112
	1931	W 722, p. 103
	1932	W 737, p. 92
	1933	W 752, p. 93
	1934	W 767, p. 88
Spokane River at Post Falls, Idaho.....	1913	W 362, p. 131
	1914	W 392, p. 109
	1915	W 412, p. 167
	1916	W 442, p. 126
	1917	W 462, p. 101
	1918-19	W 512, p. 151
	1920	W 512, p. 151
	1921	W 532, p. 130
	1922	W 552, p. 131
	1923	W 572, p. 124
	1924	W 592, p. 112
	1925	W 612, p. 101
	1926	W 632, p. 101
	1927	W 652, p. 71
	1928	W 672, p. 96
	1929	W 692, p. 153
	1930	W 707, p. 161
	1931	W 722, p. 155
	1932	W 737, p. 144
	1933	W 752, p. 143
	1934	W 767, p. 136
	1935	W 792, p. 128
	1936	W 812, p. 123
	1937	W 832, p. 132
	1938	W 862, p. 136
Stillwater River near Kalispell, Mont..	1922	W 552, p. 114
	1928	W 672, p. 85
	1929	W 692, p. 141
	1930	W 707, p. 145
	1931	W 722, p. 136

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Gaging station	Year	Publication
Stillwater River near Whitefish, Mont..	1931	W 722, p. 135
	1932	W 737, p. 124
	1933	W 752, p. 126
	1934	W 767, p. 120
	1935	W 792, p. 114
	1936	W 812, p. 108
	1937	W 832, p. 115
	1938	W 862, p. 119
Swan River near Big Fork, Mont.....	1922	W 552, p. 116
	1923	W 572, p. 103
	1924	W 592, p. 97
	1925	W 612, p. 88
	1926	W 632, p. 88
	1927	W 652, p. 63
	1928	W 672, p. 87
	1929	W 692, p. 143
	1930	W 707, p. 147
	1931	W 722, p. 140
	1932	W 737, p. 128
	1933	W 752, p. 130
	1934	W 767, p. 124
	1935	W 792, p. 117
	1936	W 812, p. 112
	1937	W 832, p. 119
	1938	W 862, p. 123
Thompson River near Thompson Falls, Mont.	1911	W 312, p. 116
Trout Creek near Copeland, Idaho.....	1928	W 672, p. 65
	1929	W 692, p. 112
	1930	W 707, p. 116
	1931	W 722, p. 107
	1932	W 737, p. 96
	1933	W 752, p. 97
	1934	W 767, p. 92
Valley Creek near Ravalli, Mont.....	1909	W 272, p. 112
	1910	W 292, p. 115
Whitefish Creek near Kalispell, Mont...	1906	‡W 214, p. 25
	1928	W 672, p. 86
	1929	W 692, p. 142
	1930	W 707, p. 146
	1931	W 722, p. 138
	1932	W 737, p. 126
	1933	W 752, p. 128
	1934	W 767, p. 122
	1935	W 792, p. 115
	1936	W 812, p. 110
	1937	W 832, p. 117
	1938	W 862, p. 121
Willow Creek at Anfinson Ranch, near Corvallis, Mont.	1938	W 862, p. 106
Willow Creek near Corvallis, Mont.....	1920	W 512, p. 121
	1921	W 532, p. 111
	1922	W 552, p. 106
	1923	W 572, p. 93
	1924	W 592, p. 90

GAGING-STATION RECORDS

KOOTENAI RIVER BASIN

Kootenai River at Newgate, British Columbia

(International gaging station)

Location.- Two staff gages, one on main river and one on slough, lat. 49°01', long. 115° 10', at highway bridges, 0.7 mile northwest of Newgate, British Columbia, and 0.9 mile north of the international boundary.
Drainage area.- 7,660 square miles.
Records available.- October 1930 to September 1938.
Extremes.- Maximum discharge observed, 83,500 second-feet June 18, 1933; minimum, 994 second-feet Feb. 7, 1936.
Remarks.- Records give total flow of main channel and slough. No diversion or regulation. This station is one of the international gaging stations maintained by Canada under agreement with the United States.

Monthly discharge of Kootenai River at Newgate, British Columbia

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930-31						
October	4,210	3,170	3,670	0.48	0.55	226,000
November	3,110	2,270	2,720	.36	.40	162,000
December	2,500	1,780	2,120	.28	.32	130,000
January	2,300	1,500	1,970	.26	.30	121,000
February	2,200	1,620	1,870	.24	.25	104,000
March	2,520	1,710	1,990	.26	.30	122,000
April	5,980	1,990	2,880	.38	.42	171,000
May	32,800	7,270	16,600	2.17	2.50	1,020,000
June	26,400	14,500	20,700	2.70	3.01	1,230,000
July	14,700	7,000	9,880	1.29	1.49	608,000
August	6,830	4,200	5,350	.70	.81	329,000
September	5,720	3,600	4,340	.57	.64	258,000
The year	32,800	1,500	6,190	.80	10.99	4,480,000
1931-32						
October	3,540	2,720	3,020	.39	.45	186,000
November	3,390	-	2,440	.32	.36	145,000
December	-	-	2,300	.30	.35	141,000
January	-	-	1,800	.23	.26	111,000
February	9,950	-	2,400	.31	.33	138,000
March	5,900	2,710	3,260	.43	.50	200,000
April	9,020	3,530	6,570	.86	.96	391,000
May	51,300	9,060	27,500	3.59	4.14	1,690,000
June	60,500	30,900	43,900	5.73	6.39	2,610,000
July	30,000	10,400	16,500	2.15	2.49	1,010,000
August	9,900	7,060	8,090	1.06	1.22	497,000
September	7,290	3,980	5,310	.69	.77	316,000
The year	60,500	-	10,300	1.34	18.22	7,435,000
1932-33						
October	4,920	3,690	4,190	.55	.63	258,000
November	4,920	3,410	4,080	.53	.59	243,000
December	5,180	1,200	2,530	.33	.38	156,000
January	3,260	1,790	2,610	.34	.39	160,000
February	2,470	1,600	2,190	.29	.30	122,000
March	2,760	2,160	2,360	.31	.36	145,000
April	19,300	2,720	5,910	.77	.86	352,000
May	45,300	13,100	22,400	2.92	3.37	1,380,000
June	83,500	28,000	49,900	6.51	7.26	2,970,000
July	39,200	13,800	25,300	3.30	3.80	1,550,000
August	13,800	8,630	10,400	1.36	1.57	641,000
September	11,000	6,350	7,550	.99	1.10	449,000
The year	83,500	1,200	11,600	1.51	20.61	8,426,000

Monthly discharge of Kootenai River at Newgate, British Columbia--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1933-34						
October	18,900	5,640	8,200	1.07	1.23	504,000
November	11,900	5,710	7,380	.96	1.07	439,000
December	9,790	3,080	5,320	.69	.80	327,000
January	7,040	3,540	4,490	.59	.68	276,000
February	4,270	2,650	3,550	.46	.48	197,000
March	5,890	3,240	4,350	.57	.66	268,000
April	55,100	5,400	24,100	3.15	3.51	1,440,000
May	63,400	29,200	41,400	5.40	6.23	2,550,000
June	55,700	16,800	28,500	3.72	4.15	1,700,000
July	18,100	9,480	13,400	1.75	2.02	821,000
August	10,000	5,530	6,850	.89	1.03	421,000
September	5,550	3,560	4,480	.58	.65	267,000
The year	63,400	2,650	12,700	1.66	22.51	9,210,000
1934-35						
October	3,720	3,320	3,470	.45	.52	213,000
November	6,180	3,270	4,220	.55	.61	251,000
December	3,360	1,680	2,750	.36	.42	169,000
January	4,350	1,580	2,610	.34	.39	160,000
February	4,030	2,720	3,160	.41	.43	176,000
March	3,170	2,470	2,700	.35	.40	166,000
April	9,300	2,390	4,600	.60	.67	274,000
May	45,200	8,490	21,100	2.75	3.17	1,300,000
June	45,000	26,600	37,500	4.90	5.47	2,230,000
July	35,700	14,400	23,300	3.04	3.50	1,430,000
August	14,800	6,350	9,590	1.25	1.44	590,000
September	6,450	3,980	5,230	.68	.76	311,000
The year	45,200	1,580	10,000	1.31	17.78	7,270,000
1935-36						
October	3,970	2,660	3,590	.47	.54	221,000
November	3,090	2,050	2,760	.36	.40	164,000
December	2,570	1,980	2,270	.30	.35	140,000
January	2,350	1,380	1,990	.26	.30	122,000
February	1,970	994	1,540	.20	.22	88,400
March	2,670	1,820	2,210	.29	.33	136,000
April	18,200	1,770	8,660	1.13	1.26	515,000
May	48,400	13,700	26,600	3.47	4.00	1,640,000
June	49,100	13,000	22,000	2.87	3.20	1,310,000
July	12,400	6,580	9,330	1.22	1.41	574,000
August	6,530	4,210	5,470	.71	.82	336,000
September	4,850	3,170	3,880	.51	.57	231,000
The year	49,100	994	7,540	.98	13.34	5,480,000
1936-37						
October	3,310	2,460	2,880	.38	.44	177,000
November	2,340	1,660	2,100	.27	.30	125,000
December	2,740	1,340	1,910	.25	.29	117,000
January	1,880	1,160	1,570	.20	.23	96,700
February	1,790	1,520	1,700	.22	.23	94,700
March	2,000	1,550	1,760	.23	.26	108,000
April	5,850	2,040	3,010	.39	.44	179,000
May	37,100	6,510	18,300	2.39	2.76	1,120,000
June	37,800	16,400	26,400	3.45	3.85	1,570,000
July	24,900	8,700	13,900	1.81	2.09	854,000
August	9,040	5,110	6,930	.90	1.04	426,000
September	4,980	3,800	4,490	.59	.66	267,000
The year	37,800	1,160	7,100	.93	12.59	5,130,000
1937-38						
October	9,610	3,540	4,230	.55	.63	260,000
November	8,300	3,720	5,060	.66	.74	301,000
December	4,070	1,850	2,900	.38	.44	178,000
January	3,880	2,010	2,760	.36	.42	170,000
February	2,580	1,880	2,270	.30	.31	126,000
March	3,480	2,260	2,720	.36	.42	167,000
April	23,900	2,730	9,370	1.22	1.36	558,000
May	68,800	14,500	30,900	4.03	4.65	1,900,000
June	52,600	29,700	41,700	5.44	6.07	2,480,000
July	28,400	9,690	17,800	2.32	2.68	1,100,000
August	9,420	5,250	6,570	.86	.99	404,000
September	5,720	4,250	4,920	.64	.71	293,000
The year	68,800	1,850	11,000	1.44	19.42	7,940,000

Yearly discharge of Kootenai River at Newgate, British Columbia

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1931.....	6,190	0.80	10.99	4,480,000	6,130	0.80	10.88	4,440,000
1932.....	10,300	1.34	18.22	7,440,000	10,500	1.37	18.66	7,620,000
1933.....	11,600	1.51	20.61	8,430,000	12,500	1.63	22.11	9,040,000
1934.....	12,700	1.66	22.51	9,210,000	11,800	1.54	20.96	8,570,000
1935.....	10,000	1.31	17.78	7,270,000	9,900	1.29	17.52	7,160,000
1936.....	7,540	.98	13.34	5,480,000	7,390	.96	13.14	5,370,000
1937.....	7,100	.93	12.59	5,130,000	7,540	.98	13.37	5,450,000
1938.....	11,000	1.44	19.42	7,940,000	10,700	1.40	19.01	7,770,000

Kootenai River near Rexford, Mont.

(International gaging station)

Location.- Wire-weight gage, lat. 48°52', long. 115°14', in sec. 21, T. 36 N., R. 28 W., at highway bridge 300 feet downstream from Sullivan Creek and 1.1 miles southwest of Rexford.

Drainage area.- 8,420 square miles.

Records available.- March 1929 to September 1938.

Extremes.- Maximum discharge, 87,300 second-feet June 18, 1933 (gage height, 15.70 feet); minimum, 1,100 second-feet Feb. 7, 1936, when stage-discharge relation was affected by ice.

Remarks.- No diversion or regulation. This station is one of the international gaging stations maintained by Canada under agreement with the United States.

Monthly discharge of Kootenai River near Rexford, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929						
March 24-31	4,160	2,890	3,300	0.392	0.12	52,400
April.....	8,580	2,750	3,700	.439	.49	220,000
May.....	45,700	7,050	17,700	2.10	2.42	1,090,000
June.....	52,900	18,600	34,100	4.05	4.52	2,030,000
July.....	19,600	8,850	13,200	1.57	1.81	812,000
August.....	9,130	5,490	7,160	.850	.98	440,000
September.....	6,350	3,820	4,710	.559	.62	280,000
The period.....	-	-	-	-	-	4,920,000
1929-30						
October.....	4,340	3,180	3,610	.429	.49	222,000
November.....	3,030	1,980	2,610	.310	.35	155,000
December.....	3,180	1,750	2,500	.297	.34	154,000
January.....	2,620	1,800	2,120	.252	.29	130,000
February.....	3,990	2,200	2,560	.304	.32	142,000
March.....	3,180	2,170	2,420	.287	.33	149,000
April.....	19,600	3,180	9,490	1.13	1.26	565,000
May.....	41,100	13,600	18,700	2.22	2.56	1,150,000
June.....	46,400	24,800	31,700	3.76	4.20	1,890,000
July.....	25,900	9,700	17,700	2.10	2.42	1,090,000
August.....	10,300	5,700	8,030	.954	1.10	494,000
September.....	5,910	4,340	5,230	.621	.69	311,000
The year.....	46,400	1,750	8,900	1.06	14.35	6,450,000

Monthly discharge of Kootenai River near Rexford, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930-31						
October	4,410	3,380	3,860	0.458	0.53	237,000
November	3,460	2,600	3,020	.359	.40	180,000
December	2,800	1,590	2,310	.274	.32	142,000
January	2,420	1,630	2,160	.257	.30	133,000
February	2,360	1,800	2,090	.248	.26	116,000
March	2,800	2,040	2,270	.270	.31	140,000
April	5,910	2,300	3,110	.369	.41	185,000
May	34,700	7,290	17,600	2.09	2.41	1,080,000
June	27,100	15,600	21,800	2.59	2.89	1,300,000
July	15,600	7,540	10,800	1.28	1.48	664,000
August	7,540	4,600	5,810	.690	.80	357,000
September	6,350	3,790	4,620	.549	.61	275,000
The year	34,700	1,590	6,630	.787	10.72	4,810,000
1931-32						
October	3,790	3,000	3,290	.391	.45	202,000
November	3,790	1,560	2,700	.321	.36	161,000
December	2,930	1,580	2,440	.290	.33	150,000
January	2,480	1,280	1,940	.230	.27	119,000
February	10,600	1,580	2,590	.308	.33	149,000
March	7,790	3,080	3,680	.437	.50	226,000
April	10,300	3,460	7,270	.863	.96	433,000
May	52,100	9,990	28,800	3.42	3.94	1,770,000
June	61,400	28,300	45,400	5.39	6.01	2,700,000
July	31,700	12,000	17,700	2.10	2.42	1,090,000
August	11,300	7,650	9,060	1.08	1.24	557,000
September	8,110	4,570	6,040	.717	.80	359,000
The year	61,400	1,280	10,900	1.29	17.61	7,920,000
1932-33						
October	5,550	4,010	4,690	.557	.64	288,000
November	5,550	4,010	4,630	.550	.61	276,000
December	6,640	1,700	2,930	.348	.40	180,000
January	3,830	2,150	3,040	.361	.42	187,000
February	2,790	1,650	2,370	.281	.29	132,000
March	3,160	2,580	2,780	.330	.38	171,000
April	20,800	3,240	6,500	.772	.86	387,000
May	42,300	14,500	22,800	2.71	3.12	1,400,000
June	87,300	31,100	50,500	6.00	6.69	3,000,000
July	40,000	14,800	27,400	3.25	3.75	1,680,000
August	14,500	8,910	10,900	1.29	1.49	670,000
September	11,600	6,640	7,810	.928	1.04	465,000
The year	87,300	1,650	12,200	1.45	19.69	8,840,000
1933-34						
October	20,300	5,760	8,541	1.01	1.16	525,200
November	13,400	5,760	7,835	.931	1.04	466,200
December	10,400	3,400	5,527	.656	.76	339,800
January	7,850	4,010	5,023	.597	.69	308,800
February	4,660	2,720	3,860	.458	.48	214,400
March	6,640	3,650	4,913	.583	.67	302,100
April	55,000	6,190	24,500	2.91	3.25	1,458,000
May	64,000	31,200	42,040	4.99	5.75	2,585,000
June	59,900	18,300	30,050	3.57	3.98	1,788,000
July	19,300	9,930	14,070	1.67	1.93	865,100
August	10,800	5,690	7,306	.868	1.00	449,300
September	5,910	3,680	4,743	.563	.63	383,200
The year	64,000	2,720	13,240	1.57	21.34	9,584,000
1934-35						
October	3,960	3,340	3,581	.425	.49	220,200
November	6,580	3,340	4,580	.544	.61	272,500
December	3,690	1,830	2,893	.344	.40	177,900
January	6,000	1,700	2,926	.348	.40	179,900
February	4,300	2,740	3,321	.394	.41	184,400
March	3,670	2,540	2,956	.351	.40	181,700
April	10,200	2,540	5,086	.604	.67	302,700
May	46,700	9,660	21,720	2.58	2.97	1,335,000
June	46,700	28,400	38,850	4.61	5.14	2,312,000
July	35,000	15,000	23,850	2.83	3.26	1,466,000
August	15,000	6,760	9,892	1.17	1.35	608,200
September	6,760	4,290	5,461	.649	.72	325,000
The year	46,700	1,700	10,450	1.24	16.82	7,566,000

Monthly discharge of Kootenai River near Rexford, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1935-36						
October	4,220	3,110	3,948	0.469	0.54	242,800
November	3,640	2,400	3,066	.364	.41	182,500
December	2,900	1,800	2,567	.305	.35	157,800
January	2,620	1,680	2,285	.271	.31	140,500
February	2,100	1,100	1,666	.198	.21	95,820
March	3,260	1,870	2,484	.295	.34	152,700
April	19,000	1,740	9,256	1.10	1.23	550,800
May	47,500	14,600	27,970	3.32	3.83	1,720,000
June	48,400	14,300	23,100	2.74	3.06	1,374,000
July	12,600	6,900	9,776	1.16	1.34	601,100
August	6,900	4,510	5,735	.681	.79	352,600
September	5,480	3,320	4,086	.485	.54	243,200
The year	48,400	1,100	8,009	.951	12.96	5,814,000
1936-37						
October	3,310	2,630	2,925	.347	.40	179,800
November	2,590	1,720	2,167	.257	.29	129,000
December	2,810	1,140	1,991	.236	.27	122,400
January	-	-	1,620	.192	.22	99,610
February	-	-	1,839	.218	.23	102,100
March	2,100	-	1,883	.224	.26	115,800
April	6,000	2,150	3,146	.374	.42	187,200
May	36,500	6,330	17,950	2.13	2.46	1,104,000
June	37,200	19,200	26,490	3.15	3.51	1,576,000
July	24,800	8,940	14,360	1.71	1.97	882,800
August	9,220	5,280	7,125	.846	.98	438,100
September	5,080	3,980	4,634	.550	.61	275,800
The year	37,200	1,140	7,200	.855	11.62	5,213,000
1937-38						
October	10,100	3,720	4,357	.517	.60	267,900
November	8,920	4,060	5,423	.644	.72	322,700
December	4,330	1,700	3,092	.367	.42	190,100
January	3,970	1,900	2,981	.354	.41	183,300
February	2,700	1,900	2,366	.281	.29	131,400
March	3,720	2,380	2,929	.348	.40	180,100
April	23,700	2,990	9,795	1.16	1.29	582,800
May	69,900	15,400	31,930	3.79	4.37	1,963,000
June	58,800	32,800	44,080	5.24	5.85	2,623,000
July	30,900	10,100	18,150	2.16	2.49	1,116,000
August	9,820	5,470	6,939	.824	.95	426,700
September	5,970	4,330	5,120	.608	.68	304,600
The year	69,900	1,700	11,450	1.36	18.47	8,292,000

Yearly discharge of Kootenai River near Rexford, Mont.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1930	8,900	1.06	14.35	6,450,000	8,950	1.06	14.42	6,480,000
1931	6,630	.787	10.72	4,810,000	6,580	.781	10.61	4,763,000
1932	10,900	1.29	17.61	7,920,000	11,220	1.33	18.12	8,147,000
1933	12,200	1.45	19.69	8,840,000	13,020	1.55	21.00	9,423,000
1934	13,240	1.57	21.34	9,584,000	12,320	1.46	19.88	8,924,000
1935	10,450	1.24	16.82	7,566,000	10,330	1.23	16.62	7,478,000
1936	8,009	.951	12.96	5,814,000	7,800	.926	12.61	5,662,000
1937	7,200	.855	11.62	5,213,000	7,683	.912	12.40	5,562,000
1938	11,450	1.36	18.47	8,292,000	-	-	-	-

Kootenai River at Libby, Mont.

Location.- Water-stage recorder, lat. 48°24', long. 115°33', in NW¼ sec. 3, T. 30 N., R. 31 W., 1,200 feet downstream from highway bridge at Libby. Prior to Apr. 28, 1931, chain gage at highway bridge at different datum.
Drainage area.- 10,240 square miles.
Records available.- October 1910 to September 1938
Extremes.- Maximum discharge, 130,000 second-feet June 21, 1916 (gage height, 19.17 feet); minimum, 895 second-feet Jan. 11, 1930 (discharge measurement, ice present).
Remarks.- No diversion or regulation.

Monthly discharge of Kootenai River at Libby, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1910-11						
October 13-31	10,800	7,560	9,090	0.888	0.63	343,000
November	10,400	5,970	7,910	.772	.86	471,000
December 1-13	5,970	4,530	5,420	.529	.26	140,000
March 8-31	7,890	3,550	5,360	.523	.47	255,000
April	22,400	6,280	10,600	1.04	1.16	631,000
May	29,500	17,800	22,700	2.22	2.56	1,400,000
June	72,500	24,100	53,500	5.22	5.82	3,180,000
July	45,900	15,900	28,700	2.80	3.23	1,760,000
August	17,300	8,920	12,200	1.19	1.37	750,000
September	9,650	6,590	8,040	.785	.88	478,000
1911-12						
October	6,590	4,800	5,780	.564	.65	355,000
November 1-26	6,280	3,780	4,890	.478	.46	252,000
March	4,020	2,600	2,930	.286	.33	180,000
April	11,600	4,020	9,080	.887	.99	540,000
May	36,100	10,000	22,500	2.20	2.54	1,380,000
June	35,400	17,800	26,100	2.55	2.84	1,550,000
July	27,600	15,000	19,600	1.91	2.20	1,210,000
August	15,000	10,000	12,300	1.20	1.38	756,000
September	10,800	6,590	8,940	.873	.97	532,000
1912-13						
October	7,230	5,670	6,410	.626	.72	394,000
November	7,560	4,390	6,090	.595	.66	362,000
December	4,140	2,850	3,310	.323	.37	204,000
January	3,330	2,080	2,770	.271	.31	170,000
February	4,150	2,040	2,990	.292	.30	166,000
March	3,700	2,510	3,110	.304	.35	191,000
April	23,000	3,550	11,300	1.10	1.23	672,000
May	69,600	11,600	26,900	2.63	3.03	1,650,000
June	77,300	30,700	51,700	5.05	5.63	3,080,000
July	31,400	15,000	20,300	1.98	2.28	1,250,000
August	15,900	10,000	13,000	1.27	1.46	799,000
September	14,100	7,890	9,580	.936	1.04	570,000
The year	77,300	2,040	13,100	1.28	17.38	9,510,000
1913-14						
October	8,920	6,280	7,260	.709	.82	446,000
November	6,280	4,530	5,560	.543	.61	331,000
December	5,370	2,760	3,730	.364	.42	229,000
January	7,560	2,940	4,260	.416	.48	262,000
February	3,780	1,690	3,130	.306	.32	174,000
March	5,670	3,330	4,300	.420	.48	264,000
April	17,300	4,270	11,500	1.12	1.25	684,000
May	43,500	15,000	30,700	3.00	3.46	1,890,000
June	56,900	24,700	37,000	3.61	4.03	2,200,000
July	39,000	13,300	25,400	2.48	2.86	1,560,000
August	13,300	7,560	10,100	.986	1.14	621,000
September	9,280	6,280	7,360	.719	.80	438,000
The year	56,900	1,690	12,600	1.23	16.67	9,100,000
1914-15						
October	9,650	7,230	8,000	.781	.90	492,000
November	12,800	6,280	8,570	.837	.93	510,000
December	6,280	-	4,270	.417	.48	263,000
January	-	2,500	3,270	.319	.37	201,000
February	3,060	2,530	2,790	.272	.28	155,000
March	5,370	2,620	3,540	.346	.40	218,000
April	20,800	4,530	11,300	1.10	1.23	672,000
May	27,600	15,900	19,600	1.91	2.20	1,210,000
June	34,000	15,900	21,200	2.07	2.31	1,260,000
July	28,800	16,800	20,600	2.01	2.32	1,270,000
August	15,900	8,920	11,700	1.14	1.31	719,000
September	8,920	5,970	6,840	.668	.75	407,000
The year	34,000	-	10,200	.996	13.48	7,380,000

Monthly discharge of Kootenai River at Libby, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1915-16						
October	6,910	5,370	6,180	0.604	0.70	380,000
November	7,230	3,780	5,420	.529	.59	323,000
December	4,800	2,940	3,880	.379	.44	239,000
March 11-31	10,800	5,970	8,920	.871	.68	372,000
April	20,300	8,570	12,800	1.25	1.40	762,000
May	39,700	16,400	23,500	2.29	2.64	1,440,000
June	129,000	24,700	62,400	6.09	6.80	3,710,000
July	71,500	19,800	45,800	4.47	5.15	2,820,000
August	19,800	12,400	15,200	1.48	1.71	935,000
September	17,300	7,890	11,300	1.10	1.23	672,000
1916-17						
October	7,890	5,670	6,480	.633	.73	398,000
November	5,970	3,330	5,000	.488	.54	298,000
December 1-6	5,080	4,530	4,900	.479	.11	58,300
March 29-31	3,780	3,330	3,550	.347	.04	21,100
April	8,230	3,330	5,910	.577	.64	352,000
May	45,900	7,230	25,800	2.52	2.90	1,590,000
June	65,000	28,800	42,700	4.17	4.65	2,540,000
July	43,500	15,000	28,300	2.76	3.18	1,740,000
August	13,700	8,230	10,900	1.06	1.22	670,000
September	8,230	5,970	6,730	.657	.73	400,000
1917-18						
October	6,310	4,000	5,070	.495	.57	312,000
November	4,170	3,120	3,830	.374	.42	228,000
December	8,540	1,960	4,080	.398	.46	251,000
January	13,700	2,300	5,480	.535	.62	337,000
February	4,500	2,250	3,560	.348	.36	198,000
March	7,400	3,100	4,280	.418	.48	263,000
April	15,700	5,440	10,700	1.04	1.16	637,000
May	36,800	14,000	22,800	2.23	2.57	1,400,000
June	75,600	19,800	44,100	4.31	4.81	2,620,000
July	21,900	12,400	17,400	1.70	1.96	1,070,000
August	12,500	8,540	10,400	1.02	1.18	640,000
September	8,880	5,820	6,850	.669	.75	408,000
The year	75,600	1,960	11,600	1.13	15.34	8,360,000
1918-19						
October	8,470	5,430	6,350	.620	.71	390,000
November	5,670	3,040	4,660	.455	.51	277,000
December	5,050	2,880	3,900	.381	.44	240,000
February	4,560	2,160	3,430	.335	.35	190,000
March	5,490	2,580	3,600	.352	.41	221,000
April	30,400	6,340	11,800	1.15	1.28	702,000
May	79,800	14,300	35,700	3.49	4.02	2,200,000
June	56,100	27,000	37,600	3.67	4.10	2,240,000
July	28,700	11,200	17,900	1.75	2.02	1,100,000
August	16,800	7,630	10,600	1.04	1.20	652,000
September	8,500	5,140	6,330	.618	.69	377,000
1919-20						
October	5,020	2,490	4,130	.403	.46	254,000
November 1-15	3,780	2,300	3,240	.316	.18	96,400
March	4,400	2,820	3,380	.330	.38	208,000
April	8,990	3,000	5,400	.527	.59	321,000
May	26,600	7,490	17,200	1.68	1.94	1,060,000
June	52,900	14,300	35,000	3.42	3.82	2,080,000
July	60,500	17,900	36,200	3.54	4.08	2,300,000
August	18,200	7,990	12,400	1.21	1.40	762,000
September	12,100	7,070	8,860	.865	.97	527,000
1920-21						
October	10,800	7,090	8,820	.861	.99	542,000
January 12-31	5,250	2,720	3,790	.370	.28	150,000
February	8,780	2,840	4,620	.451	.47	257,000
March	7,400	4,070	5,310	.519	.60	326,000
April	16,300	5,340	10,600	1.04	1.16	631,000
May	69,500	10,500	35,200	3.44	3.97	2,160,000
June	72,900	35,600	49,700	4.85	5.41	2,960,000
July	35,400	16,000	21,600	2.11	2.43	1,330,000
August	15,900	7,330	10,560	1.03	1.19	646,000
September	7,230	5,140	5,880	.574	.64	350,000
1921-22						
October	6,160	4,910	5,360	.523	.60	330,000
November	6,090	2,210	4,880	.477	.53	290,000
December 1-17	12,200	3,730	5,920	.578	.37	200,000
March 15-31	3,620	2,780	3,200	.313	.20	108,000
April	8,460	2,880	5,040	.492	.55	300,000
May	42,600	8,740	23,800	2.32	2.68	1,460,000
June	69,200	22,500	41,300	4.03	4.50	2,460,000
July	23,600	9,610	14,600	1.43	1.65	898,000
August	9,730	7,070	8,510	.831	.96	523,000
September	7,430	4,750	6,000	.586	.65	357,000

Monthly discharge of Kootenai River at Libby, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1922-23						
October	5,880	3,690	4,400	0.430	0.50	271,000
November	5,170	2,880	3,610	.353	.39	215,000
March	4,720	2,510	2,930	.286	.33	180,000
April	18,400	4,750	9,040	.883	.99	538,000
May	41,200	12,500	27,500	2.69	3.10	1,690,000
June	71,300	38,800	50,100	4.89	5.46	2,980,000
July	37,300	12,900	21,200	2.07	2.39	1,300,000
August	12,400	7,630	9,350	.913	1.05	575,000
September	7,560	4,690	5,920	.578	.64	352,000
1923-24						
October	4,660	3,780	4,240	.414	.48	261,000
November	3,660	3,120	3,310	.323	.36	197,000
December 1-18	3,440	2,820	3,090	.302	.20	110,000
February 20-29	3,550	3,060	3,340	.326	.12	66,200
March	3,350	2,510	2,830	.276	.32	174,000
April	7,040	2,510	4,330	.423	.47	258,000
May	43,300	8,370	24,300	2.37	2.73	1,490,000
June	23,800	15,500	18,700	1.83	2.04	1,110,000
July	19,500	7,990	11,800	1.15	1.33	726,000
August	10,200	7,340	8,810	.860	.99	542,000
September	7,270	4,240	5,550	.542	.60	330,000
1924-25						
October	5,220	4,000	4,320	.422	.49	266,000
April 22-30	18,700	14,800	16,300	1.59	.53	291,000
May	76,800	17,000	42,700	4.17	4.81	2,630,000
June	45,100	28,500	36,300	3.54	3.95	2,160,000
July	32,000	11,200	17,300	1.69	1.95	1,060,000
August	11,600	6,590	9,170	.896	1.03	564,000
September	6,740	5,970	6,200	.605	.68	369,000
1925-26						
October	5,870	3,780	4,510	.440	.51	277,000
November	3,780	2,720	3,340	.326	.36	199,000
December	2,920	2,300	2,790	.272	.31	172,000
January	2,620	2,160	2,400	.234	.27	148,000
February	2,620	2,340	2,430	.237	.25	135,000
March	3,330	2,340	2,780	.271	.31	171,000
April	21,900	2,530	9,610	.938	1.05	572,000
May	25,800	10,900	15,200	1.48	1.71	935,000
June	15,900	9,650	12,300	1.20	1.34	732,000
July	13,300	5,970	9,180	.896	1.03	564,000
August 1-10	6,280	5,370	5,750	.562	.21	118,000
The period	-	-	-	-	-	4,020,000
1926-27						
October	18,500	6,400	9,450	.923	1.06	581,000
November 1-27	8,400	3,900	5,960	.582	.58	319,000
June	82,100	23,200	52,500	5.13	5.72	3,120,000
July 1-20	36,100	23,500	31,300	3.06	2.28	1,240,000
1927-28						
April	24,500	5,370	9,180	.896	1.00	546,000
May	70,200	15,400	46,800	4.57	5.27	2,880,000
June	42,300	27,000	32,700	3.19	3.56	1,950,000
July	42,300	14,400	25,400	2.48	2.86	1,560,000
August	14,000	6,600	9,240	.902	1.04	568,000
September	6,600	4,250	5,440	.531	.59	324,000
The period	-	-	-	-	-	7,830,000
1928-29						
October	14,900	4,250	6,360	.621	.72	391,000
November	4,600	3,330	3,910	.382	.43	233,000
December	3,750	2,440	2,940	.287	.33	181,000
January	3,000	2,300	2,460	.240	.28	151,000
February	3,150	2,300	2,730	.267	.28	152,000
March	4,780	2,160	2,970	.290	.33	183,000
April	11,300	2,620	4,190	.409	.46	249,000
May	52,800	9,200	21,200	2.07	2.39	1,300,000
June	56,600	20,300	37,900	3.70	4.13	2,260,000
July	20,800	9,560	14,500	1.42	1.64	892,000
August	9,970	5,960	7,810	.763	.88	480,000
September	6,960	4,090	5,050	.493	.55	301,000
The year	56,600	2,160	9,330	.911	12.42	6,770,000
1929-30						
October	4,690	3,160	3,740	.365	.42	230,000
November	3,070	1,700	2,500	.244	.27	149,000
December	3,800	-	2,820	.275	.32	173,000
January	-	1,800	2,420	.236	.27	149,000
February	-	-	3,080	.301	.31	171,000
March	5,000	-	2,930	.286	.33	180,000
April	23,000	4,690	12,500	1.22	1.36	744,000
May	43,000	16,000	21,100	2.06	2.38	1,300,000
June	50,700	26,800	35,200	3.44	3.84	2,090,000
July	25,500	10,800	18,900	1.85	2.13	1,160,000
August	10,800	6,290	8,650	.845	.97	532,000
September	6,290	4,690	5,550	.542	.60	330,000
The year	50,700		9,960	.973	13.20	7,210,000

Monthly discharge of Kootenai River at Libby, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930-31						
October	4,690	3,800	4,140	0.404	0.47	255,000
November	4,000	2,800	3,330	.325	.36	198,000
December	2,990	2,090	2,560	.250	.29	157,000
January	3,380	2,090	2,710	.265	.31	167,000
February	3,120	1,990	2,380	.232	.24	132,000
March	3,520	2,300	2,590	.253	.29	159,000
April	7,170	2,520	3,940	.385	.43	234,000
May	40,600	8,740	20,700	2.02	2.33	1,270,000
June	29,000	17,200	23,800	2.32	2.59	1,420,000
July	18,400	8,100	12,000	1.17	1.35	738,000
August	8,100	4,700	6,060	.592	.68	373,000
September	6,120	4,020	4,730	.462	.52	281,000
The year	40,600	1,990	7,430	.726	9.86	5,380,000
1931-32						
October	4,020	3,050	3,440	.336	.39	212,000
November	3,890	1,760	2,860	.279	.31	170,000
December	3,020	1,830	2,620	.256	.30	161,000
January	2,440	1,520	2,090	.204	.24	129,000
February	16,800	1,600	3,120	.305	.33	179,000
March	11,100	3,220	4,450	.435	.50	274,000
April	15,000	4,840	10,300	1.01	1.13	613,000
May	56,200	13,900	34,000	3.32	3.83	2,090,000
June	61,400	28,000	47,000	4.59	5.12	2,800,000
July	33,800	11,200	18,000	1.76	2.03	1,110,000
August	11,000	7,790	9,070	.886	1.02	558,000
September	8,100	5,120	6,170	.603	.67	367,000
The year	61,400	1,520	11,900	1.16	15.87	8,660,000
1932-33						
October	5,520	4,220	4,700	.459	.53	289,000
November	6,600	4,220	4,930	.481	.54	293,000
December	8,110	1,370	4,190	.409	.47	258,000
January	4,110	2,550	3,340	.326	.38	205,000
February	3,150	1,320	2,420	.236	.25	134,000
March	4,220	2,810	3,240	.316	.36	199,000
April	31,100	4,350	9,240	.902	1.01	550,000
May	48,000	17,900	28,400	2.77	3.19	1,750,000
June	80,000	37,100	54,400	5.31	5.92	3,240,000
July	41,800	15,900	28,400	2.77	3.19	1,750,000
August	14,800	9,260	11,100	1.08	1.24	682,000
The period	-	-	-	-	-	9,350,000
1933-34						
January 9-31	8,100	5,940	6,736	.658	.56	304,300
February	7,350	4,140	5,951	.581	.60	330,500
March	11,700	5,150	7,804	.762	.88	479,800
April	61,000	11,300	31,060	3.03	3.38	1,848,000
May	63,700	34,400	45.330	4.43	5.11	2,787,000
June	61,700	19,800	32,180	3.14	3.50	1,915,000
July	20,600	10,600	15,260	1.49	1.72	938,200
August	11,700	6,220	7,874	.769	.89	484,200
September	6,360	4,260	5,266	.514	.57	313,400
The period	-	-	-	-	-	9,403,000
1934-35						
October	5,940	3,780	4,293	.419	.48	264,000
November	10,600	4,500	6,193	.605	.68	368,500
December	4,500	-	3,590	.351	.40	220,700
January	7,060	1,800	3,700	.361	.42	227,600
February	6,220	3,540	4,469	.436	.45	248,200
March	5,020	3,080	3,874	.378	.44	238,200
April	16,100	3,420	7,698	.752	.84	458,100
May	51,800	14,600	27,090	2.65	3.06	1,666,000
June	46,900	29,200	40,210	3.93	4.38	2,393,000
July	36,000	17,300	25,380	2.48	2.86	1,560,000
August	16,100	7,060	10,830	1.06	1.22	665,700
September	7,060	4,500	5,812	.568	.63	345,800
The year	51,800	1,800	11,960	1.17	15.86	8,656,000

Monthly discharge of Kootenai River at Libby, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1935-36						
October	4,500	3,540	4,101	0.400	0.46	252,200
November	4,140	2,550	3,391	.331	.37	201,800
December	3,080	1,800	2,784	.272	.31	171,200
January	2,840	1,500	2,161	.211	.24	132,900
February	2,160	-	1,728	.169	.18	99,390
March	4,140	2,290	3,104	.303	.35	190,800
April	26,800	2,220	12,960	1.27	1.42	771,000
May	47,500	19,800	31,430	3.07	3.54	1,932,000
June	48,800	16,100	25,020	2.44	2.72	1,489,000
July	14,600	6,920	10,340	1.01	1.16	635,500
August	6,920	4,500	5,816	.568	.65	357,600
September	5,280	3,300	4,154	.406	.45	247,200
The year	48,800	-	8,927	.872	11.85	6,481,000
1936-37						
October	3,420	2,970	3,177	.310	.36	195,400
November	2,860	2,000	2,409	.235	.26	143,300
December	3,440	1,400	2,340	.229	.26	143,900
January	-	1,230	1,764	.172	.20	108,500
February	2,420	1,940	2,152	.210	.22	119,500
March	2,720	-	2,423	.237	.27	149,000
April	8,000	2,720	4,480	.438	.49	226,600
May	40,400	8,380	22,370	2.18	2.51	1,375,000
June	38,800	21,400	29,250	2.86	3.19	1,740,000
July	26,800	9,340	15,600	1.52	1.75	959,100
August	9,660	5,540	7,425	.725	.84	456,600
September	5,410	4,260	4,818	.471	.53	286,700
The year	40,400	1,230	8,211	.802	10.88	5,944,000
1937-38						
October	10,300	4,020	4,494	.439	.51	276,300
November	9,980	4,260	5,907	.567	.63	345,500
December	4,880	1,800	3,387	.330	.38	207,900
January	4,800	1,850	3,514	.343	.40	216,100
February	3,440	1,900	2,820	.275	.29	156,600
March	4,760	2,860	3,587	.350	.40	220,500
April	33,800	3,780	12,900	1.26	1.41	767,800
May	78,800	18,000	35,960	3.51	4.05	2,211,000
June	65,700	32,600	45,810	4.47	4.99	2,726,000
July	30,900	10,300	18,130	1.77	2.04	1,115,000
August	10,000	5,630	7,250	.708	.82	445,800
September	6,290	4,740	5,385	.526	.59	320,400
The year	78,800	1,800	12,440	1.21	16.51	9,009,000

Yearly discharge of Kootenai River at Libby, Mont.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1913	13,100	1.28	17.38	9,510,000	13,200	1.29	17.48	9,554,000
1914	12,600	1.23	16.67	9,100,000	12,900	1.26	17.13	9,358,000
1915	10,200	.996	13.48	7,380,000	9,740	.951	12.90	7,054,000
1918	11,600	1.13	15.34	8,360,000	11,700	1.14	15.55	8,480,000
1929	9,330	.911	12.42	6,770,000	9,010	.879	11.95	6,520,000
1930	9,960	.973	13.20	7,210,000	10,000	.977	13.31	7,266,000
1931	7,430	.726	9.86	5,380,000	7,340	.717	9.74	5,317,000
1932	11,900	1.16	15.87	8,660,000	12,300	1.21	16.41	8,960,000
1935	11,960	1.17	15.86	8,656,000	11,640	1.14	15.44	8,428,000
1936	8,927	.872	11.85	6,481,000	8,731	.853	11.59	6,338,000
1937	8,211	.802	10.88	5,944,000	8,690	.849	11.52	6,291,000
1938	12,440	1.21	16.51	9,009,000	-	-	-	-
Highest	13,100	1.28	17.38	9,510,000	13,200	1.29	17.48	9,554,000
Average	10,640	1.03	14.11	7,705,000	10,480	1.02	13.91	7,597,000
Lowest	7,430	.726	9.86	5,380,000	7,340	.717	9.74	5,317,000

Kootenai River at Leonia, Idaho

Location.- Water-stage recorder, lat. 48°37', long. 116°03', in SW¼ sec. 17, T. 33 N., R. 34 W., at Leonia, 450 feet east of Montana-Idaho State line and half a mile upstream from Boulder Creek. Datum of gage is 1,700.00 feet above mean sea level, U. S. Coast and Geodetic Survey datum.
Drainage area.- 11,740 square miles.
Records available.- March 1928 to September 1938.
Extremes.- Maximum discharge, 95,500 second-feet June 18, 1933 (elevation, 1,818.11 feet); minimum, 996 second-feet Dec. 9, 1936; minimum elevation, 1,797.56 feet Dec. 10, 1929.
Floods of June 1894 and 1916 reached elevations of 1,824.6 and 1,821.6 feet, respectively (information furnished by Great Northern Railway Co.).
Remarks.- No diversion or regulation above station.

Monthly discharge of Kootenai River at Leonia, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
March 25-31	13,800	9,810	11,400	0.971	0.25	158,000
April	32,800	8,180	12,700	1.08	1.20	756,000
May	76,700	21,100	54,600	4.65	5.36	3,360,000
June	48,100	29,600	35,400	3.02	3.37	2,110,000
July	44,000	16,900	27,400	2.33	2.69	1,680,000
August	16,200	7,660	10,400	.886	1.02	640,000
September	7,660	5,570	6,680	.569	.63	397,000
The period	-	-	-	-	-	9,100,000
1928-29						
October	15,200	5,780	7,280	.620	.71	448,000
November	6,000	4,520	5,130	.437	.49	305,000
December	4,520	-	3,620	.308	.36	223,000
January	-	-	2,900	.247	.28	178,000
February	-	-	3,120	.266	.28	173,000
March	6,660	-	3,860	.329	.38	237,000
April	16,100	3,910	6,240	.532	.59	371,000
May	59,000	13,000	26,800	2.28	2.63	1,650,000
June	59,700	21,600	40,000	3.41	3.80	2,380,000
July	21,600	9,410	14,400	1.23	1.42	885,000
August	9,670	6,190	7,810	.665	.77	480,000
September	6,660	4,210	5,190	.442	.49	309,000
The year	59,700	-	10,500	.894	12.20	7,640,000
1929-30						
October	4,740	3,830	4,130	.352	.41	254,000
November	3,740	2,350	3,090	.263	.29	184,000
December	4,090	2,000	3,220	.274	.32	198,000
January	3,540	2,250	2,730	.233	.27	168,000
February	5,600	2,900	3,540	.302	.31	197,000
March	6,420	3,270	3,820	.325	.37	235,000
April	28,700	6,420	15,700	1.34	1.50	934,000
May	42,500	18,100	23,600	2.01	2.32	1,450,000
June	55,700	28,200	38,200	3.25	3.63	2,270,000
July	27,000	11,200	19,800	1.69	1.95	1,220,000
August	10,900	6,670	8,840	.753	.87	544,000
September	6,440	5,040	5,900	.503	.56	351,000
The year	55,700	2,000	11,100	.945	12.80	8,000,000
1930-31						
October	5,040	4,160	4,620	.394	.45	284,000
November	4,540	3,260	3,760	.320	.36	224,000
December	3,340	2,150	2,860	.244	.28	176,000
January	3,710	2,050	2,850	.243	.28	175,000
February	3,520	2,450	2,870	.244	.25	159,000
March	5,140	2,700	3,490	.297	.34	214,000
April	10,100	3,970	5,810	.495	.55	346,000
May	46,000	12,600	24,900	2.12	2.44	1,530,000
June	31,100	17,900	25,000	2.13	2.38	1,490,000
July	18,600	8,160	11,900	1.01	1.16	731,000
August	7,920	5,080	6,280	.535	.62	386,000
September	6,550	4,500	5,120	.436	.49	305,000
The year	46,000	2,050	8,320	.708	9.60	6,020,000

Monthly discharge of Kootenai River at Leonia, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1931-32						
October	4,400	3,480	3,870	0.330	0.38	238,000
November	4,780	1,950	3,390	.289	.32	202,000
December	3,300	2,000	2,880	.245	.28	177,000
January	2,920	1,900	2,600	.221	.25	160,000
February	20,000	1,980	3,840	.327	.35	221,000
March	15,100	4,570	6,420	.547	.63	395,000
April	20,300	8,170	14,900	1.27	1.42	887,000
May	68,300	18,500	42,900	3.65	4.21	2,640,000
June	70,400	32,800	53,100	4.52	5.04	3,160,000
July	36,800	12,700	19,900	1.70	1.96	1,220,000
August	12,500	8,520	9,760	.831	.96	600,000
September	8,620	5,040	6,550	.558	.62	390,000
The year	70,400	1,900	14,200	1.21	16.42	10,300,000
1932-33						
October	6,010	4,580	5,180	.441	.51	319,000
November	7,840	4,320	5,920	.504	.56	352,000
December	10,900	2,800	5,360	.457	.53	330,000
January	5,390	3,200	4,110	.350	.40	253,000
February	4,060	1,700	3,140	.267	.28	174,000
March	5,530	3,560	4,020	.342	.39	247,000
April	44,200	5,770	13,300	1.13	1.26	791,000
May	61,000	23,000	35,800	3.05	3.52	2,200,000
June	95,500	46,400	64,900	5.53	6.17	3,860,000
July	45,300	17,300	30,800	2.62	3.02	1,890,000
August	16,300	9,980	12,300	1.05	1.21	756,000
September	12,200	7,990	9,100	.775	.86	541,000
The year	95,500	1,700	16,200	1.38	18.71	11,700,000
1933-34						
October	24,300	7,370	10,120	.862	.99	622,100
November	21,000	8,310	11,280	.961	1.07	671,200
December	43,200	7,460	13,700	1.17	1.35	842,100
January	17,400	8,370	11,330	.965	1.11	696,500
February	10,200	5,810	8,304	.707	.74	461,200
March	16,100	6,790	10,390	.885	1.02	638,800
April	74,400	15,500	39,940	3.40	3.79	2,377,000
May	68,900	38,100	51,880	4.42	5.10	3,190,000
June	66,700	20,800	33,690	2.87	3.20	2,004,000
July	21,000	10,900	15,710	1.34	1.54	966,100
August	11,700	6,500	8,233	.701	.81	506,200
September	6,620	4,730	5,606	.478	.53	333,600
The year	74,400	4,730	18,380	1.57	21.25	13,310,000
1934-35						
October	6,940	4,170	4,728	.403	.46	290,700
November	20,400	4,760	8,447	.720	.80	502,600
December	5,660	2,200	4,412	.376	.43	271,300
January	14,400	1,900	5,107	.435	.50	314,000
February	8,600	4,630	5,916	.504	.52	328,500
March	6,640	4,250	5,162	.440	.51	317,400
April	21,700	4,520	10,470	.892	1.00	622,800
May	63,200	19,700	34,540	2.94	3.39	2,124,000
June	55,900	30,200	44,440	3.79	4.23	2,644,000
July	36,700	17,300	25,690	2.19	2.52	1,579,000
August	16,000	7,440	11,110	.946	1.09	682,800
September	7,440	4,980	6,245	.532	.59	371,600
The year	63,200	1,900	13,880	1.18	16.04	10,050,000
1935-36						
October	4,930	3,880	4,618	.393	.45	284,000
November	4,700	2,680	3,765	.321	.36	224,000
December	3,530	2,000	3,081	.262	.30	189,400
January	3,320	1,970	2,881	.245	.28	177,100
February	2,800	1,320	1,994	.170	.18	114,700
March	5,400	2,760	3,748	.319	.37	230,400
April	34,900	2,620	16,930	1.44	1.61	1,007,000
May	51,900	26,100	37,450	3.19	3.68	2,303,000
June	53,700	17,200	27,300	2.33	2.60	1,624,000
July	15,600	7,550	11,060	.942	1.09	680,300
August	7,460	5,090	6,373	.543	.63	391,900
September	5,840	3,990	4,744	.404	.45	282,300
The year	53,700	1,320	10,340	.881	12.00	7,508,000

Monthly discharge of Kootenai River at Leonia, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1936-37						
October	3,890	3,190	3,532	0.301	0.35	217,000
November	3,190	2,290	2,748	.234	.26	163,500
December	4,520	1,070	2,717	.231	.27	167,000
January	2,400	1,290	1,922	.164	.19	118,200
February	2,600	2,200	2,380	.203	.21	132,200
March	3,080	2,500	2,695	.230	.27	165,700
April	11,600	3,250	6,586	.561	.63	391,900
May	46,900	12,200	28,200	2.40	2.77	1,734,000
June	43,300	23,400	32,410	2.76	3.08	1,929,000
July	27,800	9,840	16,170	1.38	1.59	994,000
August	10,100	6,080	7,921	.675	.78	487,000
September	5,920	4,650	5,307	.452	.50	315,800
The year	46,900	1,070	9,414	.802	10.90	6,816,000
1937-38						
October	10,600	4,340	4,829	.411	.47	296,900
November	10,800	5,050	6,768	.576	.64	402,700
December	7,110	2,600	4,252	.362	.42	261,400
January	6,430	2,760	4,463	.380	.44	274,400
February	4,000	2,570	3,387	.289	.30	188,100
March	6,740	3,510	4,788	.408	.47	294,400
April	51,100	5,200	19,270	1.64	1.83	1,147,000
May	82,800	23,900	43,920	3.74	4.31	2,700,000
June	71,100	35,700	50,090	4.27	4.76	2,981,000
July	33,700	11,100	20,080	1.71	1.97	1,235,000
August	10,800	5,990	7,762	.661	.76	477,200
September	6,680	5,050	5,682	.484	.54	338,100
The year	82,800	2,570	14,636	1.25	16.91	10,600,000

Yearly discharge of Kootenai River at Leonia, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1929	10,500	0.894	12.20	7,640,000	10,100	0.860	11.66	7,300,000
1930	11,100	.945	12.80	8,000,000	11,100	.945	12.87	8,050,000
1931	8,320	.708	9.60	6,020,000	8,220	.700	9.49	5,950,000
1932	14,200	1.21	16.42	10,300,000	14,700	1.25	17.04	10,700,000
1933	16,200	1.38	18.71	11,700,000	17,800	1.52	20.52	12,800,000
1934	18,380	1.57	21.25	13,310,000	16,900	1.44	19.53	12,240,000
1935	13,880	1.18	16.04	10,050,000	13,370	1.14	15.46	9,682,000
1936	10,340	.881	12.00	7,508,000	10,140	.864	11.77	7,358,000
1937	9,414	.802	10.90	6,816,000	9,985	.851	11.55	7,229,000
1938	14,640	1.25	16.91	10,600,000	14,320	1.22	16.55	10,370,000
Highest	18,380	1.57	21.25	13,310,000	17,800	1.52	20.52	12,800,000
Average	12,700	1.08	14.68	9,194,000	12,660	1.08	14.64	9,168,000
Lowest	8,320	.708	9.60	6,020,000	8,220	.700	9.49	5,950,000

Kootenai River at Katka, Idaho

Location.- Staff gage, lat. 48°42', long. 116°08', in NE¼ sec. 25, T. 62 N., R. 2 E., at Katka, 3,000 feet downstream from Great Northern Railway station and 3½ miles above Moyie River. Zero of gage is 1,700.00 feet above mean sea level, United States Coast and Geodetic Survey datum.
Drainage area.- 11,860 square miles.
Records available.- April 1928 to September 1933 (discontinued).
Extremes.- Maximum discharge, 96,500 second-feet June 18, 1933: maximum water-surface elevation, 1,796.80 feet June 18, 1933; minimum discharge (estimated), 1,750 second-feet Feb. 10, 1933; minimum water-surface elevation, 1,773.74 feet Dec. 11, 1929.
Remarks.- Discharge measurements made 8 miles upstream. Estimated inflow added to the measured discharge to obtain flow at Katka. No diversions or regulation above station.

Monthly discharge of Kootenai River at Katka, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
April 2-30	33,600	8,240	12,900	1.09	1.18	742,000
May	77,800	21,200	55,400	4.67	5.38	3,410,000
June	49,500	30,300	36,300	3.06	3.41	2,160,000
July	44,800	16,200	27,900	2.35	2.71	1,720,000
August	15,900	7,990	10,700	.902	1.04	658,000
September	7,990	5,500	6,690	.564	.63	398,000
The period	-	-	-	-	-	9,090,000
1928-29						
October	15,600	5,380	7,660	.646	.74	471,000
November	6,300	4,590	5,210	.439	.49	310,000
December	-	-	3,700	.312	.36	228,000
January	-	-	2,940	.248	.29	181,000
February	-	-	3,150	.266	.28	175,000
March	7,260	-	3,960	.334	.39	243,000
April	16,200	4,150	6,490	.547	.61	386,000
May	58,800	13,300	26,500	2.23	2.57	1,630,000
June	59,800	21,900	39,900	3.36	3.75	2,370,000
July	22,200	9,490	14,800	1.25	1.44	910,000
August	9,750	5,960	7,710	.650	.75	474,000
September	6,540	4,480	5,180	.437	.49	308,000
The year	59,800	-	10,600	.894	12.16	7,690,000
1929-30						
October	4,810	3,830	4,190	.353	.41	258,000
November	3,720	2,380	3,120	.263	.29	186,000
December	4,130	2,020	3,270	.276	.32	201,000
January	3,570	2,280	2,760	.233	.27	170,000
February	5,800	2,950	3,620	.305	.32	201,000
March	6,620	3,330	3,880	.327	.38	239,000
April	29,100	6,620	16,100	1.36	1.52	958,000
May	42,400	18,700	23,900	2.02	2.33	1,470,000
June	55,900	27,900	38,000	3.20	3.57	2,260,000
July	27,100	11,100	19,800	1.67	1.92	1,220,000
August	11,100	6,380	8,830	.745	.86	543,000
September	6,380	4,970	5,780	.487	.54	344,000
The year	55,900	2,020	11,100	.936	12.73	8,050,000
1930-31						
October	5,120	4,250	4,670	.394	.45	287,000
November	4,430	3,310	3,800	.320	.36	226,000
December	3,450	2,170	2,880	.243	.28	177,000
January	3,730	2,070	2,890	.244	.28	178,000
February	3,350	2,480	2,920	.246	.26	162,000
March	5,160	2,760	3,560	.300	.35	219,000
April	10,600	4,120	6,070	.512	.57	361,000
May	46,200	13,200	24,900	2.10	2.42	1,530,000
June	30,800	18,200	24,800	2.09	2.33	1,480,000
July	19,200	8,260	12,100	1.02	1.18	744,000
August	8,010	5,090	6,320	.533	.61	389,000
September	6,780	4,470	5,130	.433	.48	305,000
The year	46,200	2,070	8,360	.705	9.57	6,060,000

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Monthly discharge of Kootenai River at Katka, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1931-32						
October	4,430	3,560	3,930	0.331	0.38	242,000
November	4,970	1,980	3,480	.293	.33	207,000
December	3,330	2,030	2,910	.245	.28	179,000
January	2,950	1,930	2,630	.222	.26	162,000
February	20,500	2,010	3,980	.336	.36	229,000
March	15,300	4,670	6,530	.551	.64	402,000
April	21,100	8,460	15,400	1.30	1.45	916,000
May	68,500	19,100	43,400	3.66	4.22	2,670,000
June	70,300	33,400	53,600	4.52	5.04	3,190,000
July	37,200	12,900	20,100	1.69	1.95	1,240,000
August	12,700	8,590	9,830	.829	.96	604,000
September	8,740	5,020	6,570	.554	.62	391,000
The year	70,300	1,930	14,400	1.21	16.49	10,400,000
1932-33						
October	6,110	4,470	5,150	.434	.50	317,000
November	8,260	4,730	6,170	.520	.58	367,000
December	11,500	2,850	5,520	.465	.54	339,000
January	5,550	3,250	4,190	.353	.41	258,000
February	4,100	1,750	3,180	.268	.28	177,000
March	5,650	3,600	4,120	.347	.40	253,000
April	45,700	5,920	13,400	1.13	1.26	797,000
May	60,800	23,800	36,600	3.09	3.56	2,250,000
June	95,300	46,900	65,400	5.51	6.15	3,890,000
July	46,000	17,700	31,000	2.61	3.01	1,910,000
August	16,800	10,100	12,500	1.05	1.21	769,000
September	12,500	8,120	9,100	.767	.86	541,000
The year	95,300	1,750	16,400	1.38	18.76	11,900,000

Yearly discharge of Kootenai River at Katka, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1929	10,600	0.894	12.16	7,690,000	10,100	0.852	11.59	7,320,000
1930	11,100	.936	12.73	8,050,000	11,200	.944	12.80	8,100,000
1931	8,360	.705	9.57	6,060,000	8,270	.697	9.47	6,000,000
1932	14,400	1.21	16.49	10,400,000	14,900	1.26	17.12	10,800,000
1933	16,400	1.38	18.76	11,900,000	-	-	-	-

Kootenai River at Bonners Ferry, Idaho

Location.- Wire gage, lat. 48°42'00", long. 116°18'45", in NE¼ sec. 27, T. 62 N., R. 1 E., on highway bridge at Bonners Ferry. Zero of gage is 1,743.005 feet above mean sea level (U. S. Coast and Geodetic Survey datum).
Drainage area.- 13,000 square miles.
Records available.- October 1927 to September 1938; gage heights only prior to April 1928. May to October 1904, gage heights from point three-quarters of a mile downstream. Gage heights collected by U. S. Weather Bureau May 1904 to September 1927.
Extremes.- Maximum discharge, 99,800 second-feet June 18, 1933; maximum water-surface elevation, 1,774.98 feet June 19, 1933; minimum daily discharge, 1,300 second-feet Feb. 8, 1936; minimum water-surface elevation, 1,741.14 feet Dec. 5, 1929.
Maximum water-surface elevation known, 1,777.2 feet sometime in June 1894.
Remarks.- No artificial regulation or diversion above station. Stage-discharge relation affected by backwater from Kootenay Lake.

Monthly discharge of Kootenai River at Bonners Ferry, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
April 2-30	36,600	9,060	14,200	1.09	1.18	817,000
May	82,800	23,300	60,000	4.62	5.33	3,690,000
June	52,500	31,200	37,700	2.90	3.24	2,240,000
July	45,900	16,600	28,700	2.21	2.55	1,760,000
August	16,300	8,190	11,000	.846	.98	676,000
September	8,170	5,630	6,840	.526	.59	407,000
The period	-	-	-	-	-	9,590,000
1928-29						
October	15,900	5,520	7,900	.608	.70	486,000
November	6,550	4,760	5,410	.416	.46	322,000
December	4,750	2,840	3,840	.295	.34	236,000
January	3,700	2,590	3,030	.233	.27	186,000
February	3,600	2,900	3,260	.251	.26	181,000
March	7,700	2,820	4,150	.319	.37	255,000
April	17,800	4,420	7,060	.543	.61	420,000
May	62,700	14,600	29,000	2.23	2.57	1,780,000
June	62,200	23,000	41,800	3.22	3.59	2,490,000
July	22,900	9,670	15,200	1.17	1.35	935,000
August	9,930	6,060	7,840	.603	.70	482,000
September	6,660	4,580	5,290	.407	.45	315,000
The year	62,700	2,590	11,200	.862	11.67	8,090,000
1929-30						
October	4,910	3,940	4,300	.331	.38	264,000
November	3,820	2,470	3,220	.248	.28	192,000
December	4,250	2,090	3,370	.259	.30	207,000
January	3,680	2,380	2,840	.218	.25	175,000
February	6,040	3,050	3,750	.288	.30	208,000
March	7,290	3,490	4,150	.319	.37	255,000
April	32,500	7,270	18,000	1.38	1.54	1,070,000
May	46,000	20,400	26,100	2.01	2.32	1,600,000
June	59,200	28,800	39,600	3.05	3.40	2,360,000
July	27,800	11,300	20,200	1.55	1.79	1,240,000
August	11,300	6,490	8,990	.692	.80	553,000
September	6,490	5,090	5,890	.453	.51	350,000
The year	59,200	2,090	11,700	.900	12.24	8,470,000
1930-31						
October	5,250	4,380	4,800	.369	.43	295,000
November	4,590	3,440	3,930	.302	.34	234,000
December	3,580	2,260	2,990	.230	.27	184,000
January	3,920	2,160	3,010	.232	.27	185,000
February	3,560	2,600	3,080	.237	.25	171,000
March	5,680	2,900	3,840	.295	.34	236,000
April	12,300	4,480	6,810	.524	.58	405,000
May	49,400	15,200	27,100	2.08	2.40	1,670,000
June	31,900	18,700	25,500	1.96	2.19	1,520,000
July	19,600	8,400	12,300	.946	1.09	756,000
August	8,150	5,170	6,420	.494	.57	395,000
September	6,880	4,560	5,220	.402	.45	311,000
The year	49,400	2,160	8,780	.675	9.18	6,360,000

Monthly discharge of Kootenai River at Bonners Ferry, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1931-32						
October	4,510	3,640	4,020	0.309	0.36	247,000
November	5,030	2,100	3,620	.278	.31	215,000
December	3,450	2,150	3,040	.234	.27	187,000
January	3,080	2,080	2,780	.214	.25	171,000
February	21,600	2,160	4,280	.329	.35	246,000
March	16,100	5,000	7,010	.539	.62	431,000
April	23,600	9,410	17,300	1.33	1.48	1,030,000
May	74,700	21,400	47,800	3.68	4.24	2,940,000
June	73,700	36,500	56,200	4.32	4.82	3,340,000
July	38,100	13,100	20,600	1.58	1.82	1,270,000
August	12,900	8,720	9,970	.767	.88	613,000
September	8,870	5,120	6,680	.514	.57	397,000
The year	74,700	2,080	15,300	1.18	15.97	11,100,000
1932-33						
October	6,090	4,500	5,260	.405	.47	323,000
November	8,900	4,970	6,500	.500	.56	387,000
December	12,500	3,270	6,000	.462	.53	369,000
January	5,920	3,540	4,500	.346	.40	277,000
February	4,340	1,930	3,390	.261	.27	188,000
March	6,620	3,810	4,460	.343	.40	274,000
April	50,000	6,760	15,200	1.17	1.30	904,000
May	67,900	26,500	40,700	3.13	3.61	2,500,000
June	99,800	50,900	70,400	5.42	6.05	4,190,000
July	47,900	15,600	33,200	2.55	2.94	2,040,000
August	15,600	9,890	12,600	.969	1.12	775,000
September	12,600	8,180	9,220	.709	.79	549,000
The year	99,800	1,930	17,700	1.36	18.44	12,800,000
1933-34						
October	26,800	7,340	10,470	.805	.93	643,800
November	23,100	8,940	12,210	.939	1.05	726,500
December	47,000	7,930	14,910	1.15	1.33	916,900
January	19,000	9,180	12,460	.958	1.10	766,200
February	11,200	6,500	9,195	.707	.74	510,600
March	18,100	7,340	11,690	.899	1.04	718,500
April	87,800	17,700	44,990	3.46	3.86	2,677,000
May	73,900	41,000	56,450	4.34	5.00	3,471,000
June	70,200	21,600	36,090	2.78	3.10	2,148,000
July	21,800	11,100	16,400	1.26	1.45	1,009,000
August	12,300	6,640	8,420	.648	.75	517,700
September	6,640	4,620	5,581	.429	.48	332,100
The year	87,800	4,620	19,940	1.53	20.83	14,440,000
1934-35						
October	7,690	4,180	4,860	.374	.43	298,800
November	19,700	5,040	8,863	.682	.76	527,400
December	6,130	2,650	4,761	.366	.42	292,700
January	15,000	2,000	5,554	.427	.49	341,500
February	9,600	5,020	6,480	.498	.52	359,900
March	7,310	4,500	5,647	.434	.50	347,200
April	24,400	5,020	11,850	.912	1.02	705,200
May	69,000	22,800	39,110	3.01	3.47	2,405,000
June	61,200	35,200	49,160	3.78	4.22	2,925,000
July	40,300	17,800	27,680	2.13	2.46	1,702,000
August	16,600	7,800	11,540	.888	1.02	709,500
September	7,750	5,170	6,510	.501	.56	387,400
The year	69,000	2,000	15,200	1.17	15.87	11,000,000
1935-36						
October	5,160	4,020	4,783	.368	.42	294,100
November	4,900	2,800	3,912	.301	.34	232,800
December	3,630	2,200	3,224	.248	.29	198,200
January	3,430	2,100	2,999	.231	.27	184,400
February	3,000	1,300	2,086	.160	.17	120,000
March	5,650	2,960	4,013	.309	.36	246,800
April	41,200	2,790	19,690	1.51	1.68	1,172,000
May	55,700	29,100	41,260	3.17	3.66	2,537,000
June	55,700	17,500	28,750	2.21	2.47	1,711,000
July	16,000	7,800	11,280	.868	1.00	693,700
August	7,690	5,190	6,556	.504	.58	403,100
September	6,080	3,970	4,863	.374	.42	289,400
The year	55,700	1,300	11,130	.856	11.66	8,082,000

Monthly discharge of Kootenai River at Bonners Ferry, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1936-37						
October	4,020	3,280	3,643	0.280	0.32	224,000
November	3,280	2,220	2,825	.217	.24	168,100
December	5,030	1,440	2,995	.230	.27	184,200
January	2,500	1,400	2,026	.156	.18	124,600
February	2,700	2,300	2,482	.191	.20	137,900
March	3,380	2,600	2,847	.219	.25	175,100
April	12,700	3,610	7,459	.574	.64	443,800
May	52,300	13,300	31,880	2.45	2.82	1,960,000
June	47,900	25,900	36,790	2.83	3.16	2,189,000
July	30,200	10,200	17,300	1.33	1.53	1,064,000
August	10,500	6,250	8,203	.631	.73	504,400
September	6,090	4,760	5,437	.418	.47	323,500
The year	52,300	1,400	10,360	.797	10.81	7,499,000
1937-38						
October	10,400	4,440	4,983	.383	.44	306,400
November	11,200	5,530	7,428	.571	.64	442,000
December	8,230	3,100	4,781	.368	.42	294,000
January	7,300	3,370	5,047	.388	.45	310,300
February	4,590	2,800	3,780	.291	.30	209,900
March	8,050	3,660	5,443	.419	.48	334,700
April	56,000	5,980	22,130	1.70	1.90	1,317,000
May	89,800	27,300	48,950	3.77	4.35	3,010,000
June	78,100	38,900	54,060	4.16	4.64	3,217,000
July	36,900	11,400	21,370	1.64	1.89	1,314,000
August	11,100	6,080	7,926	.610	.70	487,400
September	6,850	5,130	5,808	.447	.50	345,600
The year	89,800	2,800	16,010	1.23	16.71	11,590,000

Yearly discharge of Kootenai River at Bonners Ferry, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1929	11,200	0.862	11.67	8,090,000	10,600	0.815	11.13	7,710,000
1930	11,700	.900	12.24	8,470,000	11,800	.908	12.32	8,520,000
1931	8,780	.675	9.18	6,360,000	8,700	.669	9.08	6,300,000
1932	15,300	1.18	15.97	11,100,000	15,900	1.22	16.59	11,500,000
1933	17,700	1.36	18.44	12,800,000	19,300	1.48	20.19	14,000,000
1934	19,940	1.53	20.83	14,440,000	18,330	1.41	19.13	13,270,000
1935	15,200	1.17	15.87	11,000,000	14,650	1.13	15.31	10,610,000
1936	11,130	.856	11.66	8,082,000	10,930	.841	11.44	7,934,000
1937	10,360	.797	10.81	7,499,000	11,000	.846	11.48	7,965,000
1938	16,010	1.23	16.71	11,590,000	15,620	1.20	16.30	11,310,000
Highest	19,940	1.53	20.83	14,440,000	19,300	1.48	20.19	14,000,000
Average	13,730	1.06	14.34	9,943,000	13,680	1.05	14.30	9,912,000
Lowest	8,780	.675	9.18	6,360,000	8,700	.669	9.08	6,300,000

Kootenai River near Copeland, Idaho

(International gaging station)

Location.- Water-stage recorder, lat. 48°54'45", long. 116°25'00", in NW¼SW¼ sec. 12, T. 64 N., R. 1 W., at Andrews Ranch, three-quarters of a mile below Mission Creek and 1½ miles northwest of Copeland. Zero of gage is 1,700.00 feet above mean sea level (U. S. Coast and Geodetic Survey datum).

Drainage area.- 13,400 square miles.

Records available.- October 1927 to May 1929 (gage heights only), May 1929 to September 1938 (discharge records). Gage-height records collected by Dominion Water and Power Bureau, Department of Mines and Resources, Canada, April 1925 to September 1927.

Extremes.- Maximum daily discharge, 90,500 second-feet June 19, 1933; maximum water-surface elevation, 1,767.98 feet June 20, 1933; minimum daily discharge, 1,350 second-feet Feb. 8, 1936; minimum water-surface elevation, 1,739.59 feet Jan. 25, 1930.

Remarks.- Stage-discharge relation affected by backwater from Kootenay Lake. This is one of the international gaging stations maintained by the United States under agreement with Canada.

Monthly discharge of Kootenai River near Copeland, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929						
May	58,100	13,600	28,700	2.14	2.47	1,760,000
June	58,400	25,400	43,700	3.26	3.64	2,600,000
July	25,000	10,400	16,000	1.19	1.37	984,000
August	10,400	6,180	8,100	.604	.70	498,000
September	6,500	4,330	5,180	.387	.43	308,000
The period	-	-	-	-	-	6,150,000
1929-30						
October	4,980	4,020	4,370	.326	.38	269,000
November	3,890	2,500	3,290	.246	.27	196,000
December	4,310	2,210	3,420	.255	.29	210,000
January	3,710	2,460	2,900	.216	.25	178,000
February	6,000	3,040	3,790	.283	.29	210,000
March	7,070	3,570	4,200	.313	.36	258,000
April	33,300	7,650	18,500	1.38	1.54	1,100,000
May	44,300	21,300	26,800	2.00	2.31	1,650,000
June	60,200	29,300	40,300	3.01	3.36	2,400,000
July	28,400	11,800	20,600	1.54	1.78	1,270,000
August	11,300	6,660	9,120	.681	.79	561,000
September	6,590	5,180	5,990	.447	.50	356,000
The year	60,200	2,210	12,000	.896	12.12	8,660,000
1930-31						
October	5,360	4,430	4,870	.363	.42	299,000
November	4,680	3,540	3,990	.298	.33	237,000
December	3,580	2,300	3,030	.226	.26	186,000
January	4,200	2,200	3,100	.231	.27	191,000
February	3,810	2,720	3,220	.240	.25	179,000
March	6,070	3,050	4,000	.299	.34	246,000
April	11,800	4,740	7,040	.525	.59	419,000
May	50,000	14,500	28,100	2.10	2.42	1,730,000
June	32,400	18,900	26,200	1.96	2.19	1,560,000
July	20,400	8,680	12,600	.940	1.08	775,000
August	8,300	5,300	6,500	.485	.56	400,000
September	7,000	4,640	5,310	.396	.44	316,000
The year	50,000	2,200	9,020	.673	9.15	6,540,000
1931-32						
October	4,560	3,680	4,060	.303	.35	250,000
November	4,980	2,140	3,650	.272	.30	217,000
December	3,440	2,190	3,040	.227	.26	187,000
January	3,100	2,170	2,810	.210	.24	173,000
February	22,700	2,210	4,440	.331	.36	255,000
March	17,200	5,270	7,540	.563	.65	464,000
April	25,400	10,400	18,800	1.40	1.56	1,120,000
May	74,500	23,000	49,100	3.66	4.22	3,020,000
June	73,500	37,100	57,100	4.26	4.75	3,400,000
July	38,700	13,000	21,300	1.59	1.83	1,310,000
August	12,900	8,800	10,100	.754	.87	621,000
September	8,880	5,180	6,770	.505	.56	403,000
The year	74,500	2,140	15,700	1.17	15.95	11,400,000

Monthly discharge of Kootenai River near Copeland, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1932-33						
October	6,310	4,490	5,290	0.395	0.46	325,000
November	9,410	5,030	6,690	.499	.56	398,000
December	12,900	3,470	6,250	.466	.54	384,000
January	6,210	3,720	4,680	.349	.40	288,000
February	4,500	1,990	3,490	.260	.27	194,000
March	6,980	3,940	4,610	.344	.40	283,000
April	50,700	7,280	15,800	1.18	1.32	940,000
May	69,000	28,800	43,300	3.23	3.72	2,660,000
June	90,500	51,700	70,800	5.28	5.89	4,210,000
July	50,300	18,600	34,100	2.54	2.93	2,100,000
August	17,900	9,940	12,700	.948	1.09	781,000
September	12,800	7,950	9,110	.680	.76	542,000
The year	90,500	1,990	18,100	1.35	18.34	13,100,000
1933-34						
October	24,300	7,550	10,140	.757	.87	623,600
November	22,300	9,630	12,740	.951	1.06	757,800
December	43,300	8,460	15,470	1.15	1.33	950,900
January	20,500	10,200	13,580	1.01	1.16	835,200
February	11,800	7,300	9,872	.737	.77	548,300
March	18,800	8,150	12,230	.913	1.05	751,800
April	86,000	19,200	46,110	3.44	3.84	2,744,000
May	75,500	46,100	59,190	4.42	5.10	3,640,000
June	71,700	23,000	38,310	2.86	3.19	2,279,000
July	22,500	11,500	16,390	1.22	1.41	1,008,000
August	12,000	6,570	8,356	.624	.72	513,800
September	6,640	4,800	5,690	.425	.47	338,600
The year	86,000	4,800	20,710	1.55	20.97	14,990,000
1934-35						
October	7,890	4,150	4,952	.370	.43	304,500
November	20,200	4,940	9,092	.679	.76	541,000
December	6,260	2,930	4,874	.364	.42	299,700
January	14,100	2,160	5,713	.426	.49	351,300
February	10,200	5,300	6,854	.511	.53	380,600
March	7,620	4,730	5,881	.439	.51	361,600
April	25,100	5,210	12,180	.909	1.01	724,800
May	67,100	25,000	40,420	3.02	3.48	2,485,000
June	61,800	34,300	49,760	3.71	4.14	2,961,000
July	39,900	18,300	27,750	2.07	2.39	1,706,000
August	16,800	7,820	11,680	.872	1.01	718,100
September	7,740	5,250	6,558	.489	.55	390,200
The year	67,100	2,160	15,500	1.16	15.72	11,220,000
1935-36						
October	5,220	4,100	4,836	.361	.42	297,400
November	4,950	2,850	3,964	.296	.33	235,900
December	3,710	2,250	3,295	.246	.28	202,600
January	3,500	2,150	3,064	.229	.26	188,400
February	3,150	1,350	2,160	.161	.17	124,300
March	5,800	3,250	4,163	.311	.36	256,000
April	43,400	2,940	20,880	1.56	1.74	1,243,000
May	57,700	30,000	42,560	3.18	3.67	2,617,000
June	55,900	17,900	29,290	2.19	2.44	1,743,000
July	16,500	7,920	11,480	.857	.99	705,800
August	7,820	5,200	6,611	.493	.57	406,500
September	5,980	4,090	4,907	.366	.41	292,000
The year	57,700	1,350	11,450	.854	11.64	8,312,000
1936-37						
October	4,050	3,400	3,720	.278	.32	228,700
November	3,350	2,290	2,889	.216	.24	171,900
December	5,450	1,530	3,084	.230	.27	189,600
January	2,560	1,410	2,069	.154	.18	127,200
February	2,800	2,290	2,524	.188	.20	140,200
March	3,570	2,640	2,957	.221	.25	181,800
April	13,200	3,940	7,865	.587	.65	468,000
May	52,300	13,500	32,850	2.45	2.82	2,020,000
June	48,600	27,200	38,320	2.86	3.19	2,280,000
July	31,000	10,300	17,910	1.34	1.54	1,101,000
August	10,600	6,510	8,370	.625	.72	514,700
September	6,240	4,830	5,488	.410	.46	326,600
The year	52,300	1,410	10,700	.799	10.84	7,750,000

Monthly discharge of Kootenai River near Copeland, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1937-38						
October	9,540	4,700	5,141	0.384	0.44	316,100
November	11,300	5,990	7,632	.570	.64	454,100
December	9,000	3,340	5,115	.382	.44	314,500
January	8,150	3,630	5,497	.410	.47	338,000
February	4,820	3,000	4,009	.299	.31	222,700
March	9,310	3,890	6,121	.457	.53	376,400
April	53,700	6,870	23,070	1.72	1.92	1,373,000
May	87,400	28,700	48,640	3.63	4.18	2,991,000
June	80,300	42,000	56,840	4.24	4.73	3,382,000
July	39,400	11,200	22,080	1.65	1.90	1,358,000
August	10,900	6,160	8,107	.605	.70	498,500
September	6,880	5,220	5,895	.440	.49	350,800
The year	87,400	3,000	16,540	1.23	16.75	11,980,000

Yearly discharge of Kootenai River near Copeland, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1930	12,000	0.896	12.12	8,660,000	12,000	0.896	12.19	8,700,000
1931	9,020	.673	9.15	6,540,000	8,930	.666	9.05	6,470,000
1932	15,700	1.17	15.95	11,400,000	16,300	1.22	16.60	11,900,000
1933	18,100	1.35	18.34	13,100,000	19,800	1.48	20.04	14,300,000
1934	20,710	1.55	20.97	14,990,000	19,070	1.42	19.32	13,800,000
1935	15,500	1.16	15.72	11,220,000	14,940	1.11	15.14	10,810,000
1936	11,450	.854	11.64	8,312,000	11,250	.840	11.44	8,166,000
1937	10,700	.799	10.84	7,750,000	11,390	.850	11.53	8,244,000
1938	16,540	1.23	16.75	11,980,000	16,120	1.20	16.33	11,670,000

Kootenai River at Port Hill, Idaho

(International gaging station)

Location.- Water-stage recorder, lat. 49°00'00", long. 116°30'10", in SW¼ sec. 8, T. 65 N., R. 1 W., 300 feet south of international boundary at Port Hill. Datum of gage is 1,700.00 feet above mean sea level, U. S. Coast and Geodetic Survey datum, and 1,699.80 feet above mean sea level, datum of Geodetic Survey of Canada (adjustment of 1928).

Drainage area.- 13,700 square miles.

Records available.- May to July 1904 and October 1927 to April 1928 (gage heights only), April 1928 to September 1938. October 1924 to September 1927 (gage heights only) in reports of Dominion Water and Power Bureau, Department of Mines and Resources, Canada.

Extremes.- Maximum daily discharge, 93,200 second-feet June 19, 1933; maximum elevation, 1,764.08 feet May 31, 1938; minimum daily discharge, 1,380 second-feet Feb. 8, 1936; minimum elevation, 1,739.32 feet Jan. 28, 1930.

Maximum elevation known, 1,772.7 feet June 1894.

Remarks.- Records include flow of Boundary Creek and represent entire flow passing international boundary. Elevations affected by backwater from Kootenay Lake. This is one of the international gaging stations maintained by the United States under agreement with Canada.

Monthly discharge of Kootenai River at Port Hill, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
April	34,500	11,000	15,600	1.14	1.27	928,000
May	83,000	25,500	60,000	4.38	5.05	3,690,000
June	70,000	32,500	40,400	2.95	3.29	2,400,000
July	45,000	16,900	29,000	2.12	2.44	1,780,000
August	16,200	8,000	10,800	.788	.91	664,000
September	7,850	5,400	6,560	.479	.53	390,000
The period	-	-	-	-	-	9,850,000

Monthly discharge of Kootenai River at Port Hill, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928-29						
October	15,000	5,350	7,490	0.547	0.63	461,000
November	5,900	4,200	4,900	.358	.40	292,000
December	4,150	2,900	3,560	.260	.30	219,000
January	3,600	2,400	2,830	.207	.24	174,000
February	3,400	2,500	3,010	.220	.23	167,000
March	7,500	2,600	4,200	.307	.35	258,000
April	15,800	4,500	6,790	.496	.55	404,000
May	59,000	13,700	29,200	2.13	2.46	1,800,000
June	59,500	26,000	44,600	3.26	3.64	2,650,000
July	25,000	10,500	16,200	1.18	1.36	996,000
August	10,500	6,100	7,940	.580	.67	488,000
September	6,500	4,300	5,150	.376	.42	306,000
The year	59,500	2,400	11,300	.825	11.25	8,220,000
1929-30						
October	5,050	4,080	4,430	.323	.37	272,000
November	3,930	2,520	3,330	.243	.27	198,000
December	4,360	2,290	3,450	.252	.29	212,000
January	3,750	2,500	2,950	.215	.25	181,000
February	5,980	3,060	3,820	.279	.29	212,000
March	7,010	3,630	4,260	.311	.36	262,000
April	35,000	7,820	19,500	1.42	1.58	1,160,000
May	44,600	22,400	27,900	2.04	2.35	1,720,000
June	61,200	29,700	40,900	2.99	3.34	2,430,000
July	28,800	12,100	20,800	1.52	1.75	1,280,000
August	11,400	6,770	9,220	.673	.78	567,000
September	6,670	5,250	6,060	.442	.49	361,000
The year	61,200	2,290	12,200	.891	12.12	8,860,000
1930-31						
October	5,480	4,490	4,940	0.361	0.42	304,000
November	4,800	3,610	4,040	.295	.33	240,000
December	3,670	2,340	3,090	.226	.26	190,000
January	4,400	2,240	3,190	.233	.27	196,000
February	3,930	2,840	3,310	.242	.25	184,000
March	6,260	3,120	4,120	.301	.35	253,000
April	12,600	4,870	7,380	.539	.60	439,000
May	52,000	15,700	29,600	2.16	2.49	1,820,000
June	33,200	19,300	26,900	1.96	2.19	1,600,000
July	21,200	8,800	12,800	.934	1.08	787,000
August	8,400	5,400	6,560	.479	.55	403,000
September	7,150	4,700	5,380	.393	.44	320,000
The year	52,000	2,240	9,310	.680	9.23	6,740,000
1931-32						
October	4,590	3,710	4,110	0.300	0.35	253,000
November	5,080	2,210	3,740	.273	.30	223,000
December	3,510	2,260	3,110	.227	.26	191,000
January	3,150	2,220	2,860	.209	.24	176,000
February	26,200	2,250	4,790	.350	.38	276,000
March	17,900	5,510	7,830	.572	.66	481,000
April	26,400	10,800	19,600	1.43	1.60	1,170,000
May	77,200	24,100	51,400	3.75	4.32	3,160,000
June	75,400	39,200	58,900	4.30	4.80	3,500,000
July	39,300	13,100	21,500	1.57	1.81	1,320,000
August	13,000	8,860	10,200	.745	.86	627,000
September	8,940	5,210	6,810	.497	.55	405,000
The year	77,200	2,210	16,200	1.18	16.13	11,800,000
1932-33						
October	6,400	4,530	5,370	.392	.45	330,000
November	9,750	5,120	6,930	.506	.56	412,000
December	13,700	3,640	6,500	.474	.55	400,000
January	6,360	3,840	4,810	.351	.40	296,000
February	4,590	2,060	3,580	.261	.27	199,000
March	7,110	4,020	4,700	.343	.40	289,000
April	52,300	7,430	16,200	1.18	1.32	964,000
May	72,300	29,800	45,100	3.29	3.79	2,770,000
June	93,200	53,400	73,700	5.38	6.00	4,390,000
July	51,900	18,800	34,700	2.53	2.92	2,130,000
August	18,100	10,000	12,900	.942	1.09	793,000
September	12,900	8,100	9,210	.672	.75	548,000
The year	93,200	2,060	18,700	1.36	18.50	13,500,000

Monthly discharge of Kootenai River at Port Hill, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1933-34						
October	25,000	7,690	10,400	0.759	0.88	639,200
November	22,800	9,900	13,100	.956	1.07	779,300
December	44,400	8,720	15,880	1.16	1.34	976,600
January	21,000	10,400	13,890	1.01	1.16	853,900
February	12,000	7,470	10,070	.735	.77	559,500
March	19,400	8,330	12,500	.912	1.05	768,800
April	89,300	19,700	48,000	3.50	3.90	2,856,000
May	77,500	48,300	61,400	4.48	5.16	3,775,000
June	72,900	23,200	38,990	2.85	3.18	2,320,000
July	22,700	11,600	16,520	1.21	1.40	1,016,000
August	12,100	6,600	8,405	.614	.71	516,800
September	6,670	4,840	5,729	.418	.47	340,900
The year	89,300	4,840	21,270	1.55	21.09	15,400,000
1934-35						
October	8,050	4,180	5,016	.366	.42	308,400
November	21,200	5,130	9,511	.694	.77	565,900
December	6,500	3,050	5,033	.367	.42	309,500
January	14,500	2,330	5,904	.431	.50	363,000
February	10,500	5,450	7,062	.515	.54	392,200
March	7,820	4,850	6,040	.441	.51	371,400
April	25,700	5,340	12,490	.912	1.02	743,300
May	69,400	25,800	42,260	3.08	3.55	2,599,000
June	64,300	35,100	51,510	3.76	4.20	3,065,000
July	40,800	18,400	28,150	2.05	2.36	1,731,000
August	16,900	7,880	11,760	.858	.99	723,400
September	7,790	5,290	6,603	.482	.54	392,900
The year	69,400	2,330	15,970	1.17	15.82	11,560,000
1935-36						
October	5,300	4,140	4,892	.357	.41	300,800
November	5,000	2,900	4,014	.293	.33	238,900
December	3,750	2,290	3,335	.243	.28	205,100
January	3,540	2,190	3,104	.227	.26	190,900
February	3,190	1,380	2,192	.160	.17	126,100
March	5,850	3,290	4,216	.308	.36	259,200
April	45,400	2,990	21,710	1.58	1.76	1,292,000
May	59,800	31,500	44,550	3.25	3.75	2,739,000
June	56,900	18,100	29,750	2.17	2.42	1,770,000
July	16,600	7,960	11,570	.845	.97	711,300
August	7,860	5,220	6,643	.485	.56	408,400
September	6,040	4,120	4,945	.361	.40	294,200
The year	59,800	1,380	11,760	.858	11.67	8,536,000
1936-37						
October	4,080	3,430	3,750	.274	.32	230,600
November	3,370	2,320	2,917	.213	.24	173,600
December	5,520	1,550	3,123	.228	.26	192,000
January	2,590	1,430	2,099	.153	.18	129,000
February	2,830	2,320	2,554	.186	.19	141,800
March	3,630	2,670	2,996	.219	.25	184,200
April	13,500	4,000	8,038	.587	.65	478,300
May	54,300	13,900	34,360	2.51	2.89	2,113,000
June	50,200	28,000	39,890	2.91	3.25	2,374,000
July	31,600	10,400	18,150	1.32	1.52	1,116,000
August	10,700	6,560	8,450	.617	.71	519,600
September	6,290	4,880	5,545	.405	.45	330,000
The year	54,300	1,430	11,030	.805	10.91	7,982,000
1937-38						
October	9,750	4,780	5,260	.384	.44	323,400
November	11,500	6,220	7,914	.578	.64	470,900
December	9,280	3,470	5,294	.386	.44	325,500
January	8,390	3,720	5,659	.413	.48	348,000
February	4,930	3,100	4,110	.300	.31	228,300
March	9,560	4,000	6,289	.459	.53	386,700
April	55,800	7,040	23,970	1.75	1.95	1,427,000
May	91,100	29,800	51,020	3.72	4.29	3,137,000
June	83,200	42,800	58,830	4.29	4.79	3,501,000
July	40,100	11,300	22,380	1.63	1.88	1,376,000
August	11,000	6,200	8,169	.596	.69	502,300
September	6,930	5,260	5,932	.433	.48	353,000
The year	91,100	3,100	17,100	1.25	16.92	12,380,000

Yearly discharge of Kootenai River at Port Hill, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1929	11,300	0.825	11.25	8,220,000	10,900	0.796	10.85	7,920,000
1930	12,200	.891	12.12	8,860,000	12,300	.898	12.20	8,910,000
1931	9,310	.680	9.23	6,740,000	9,210	.672	9.13	6,670,000
1932	16,200	1.18	16.13	11,800,000	16,900	1.23	16.78	12,300,000
1933	18,700	1.36	18.50	13,500,000	20,400	1.49	20.23	14,800,000
1934	21,270	1.55	21.09	15,400,000	19,600	1.43	19.41	14,190,000
1935	15,970	1.17	15.82	11,560,000	15,370	1.12	15.23	11,130,000
1936	11,760	.858	11.67	8,536,000	11,550	.843	11.47	8,387,000
1937	11,030	.805	10.91	7,982,000	11,750	.858	11.61	8,506,000
1938	17,100	1.25	16.92	12,380,000	16,650	1.22	16.50	12,060,000
Highest	21,270	1.55	21.09	15,400,000	20,400	1.49	20.23	14,800,000
Average	14,480	1.06	14.36	10,500,000	14,460	1.06	14.34	10,490,000
Lowest	9,310	.680	9.23	6,740,000	9,210	.672	9.13	6,670,000

Grave Creek near Fortine, Mont.

Location.- Wire-weight gage, lat. 48°49', long. 114°52', in SW¼ sec. 5, T. 35 N., R. 25 W., 6 miles northeast of Fortine and 12 miles southeast of Eureka.
Records available.- April 1923 to June 1924.
Extremes.- Maximum discharge observed, 690 second-feet June 11, 1923 (gage height, 3.00 feet); minimum observed, 18 second-feet Apr. 1-5, 1924 (gage height, 0.86 foot).
Remarks.- No diversion or regulation.

Monthly discharge of Grave Creek near Fortine, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1923				
April 16-30	148	65	95.9	2,850
May	566	75	367	22,600
June	690	341	472	28,100
July	318	103	190	11,700
August	108	62	80.2	4,930
September	62	45	52.0	3,090
The period	-	-	-	73,000
1923-24				
October	45	34	38.8	2,390
November	40	27	32.2	1,920
December 1-29	113	29	48.7	2,800
January	-	-	-	-
February	-	-	-	-
March	-	-	-	-
April	103	18	45.9	2,730
May	518	129	383	23,600
June	447	186	331	19,700
July	-	-	-	-
August	-	-	-	-
September	-	-	-	-

Granite Creek near Libby, Mont.

Location.- Staff gage, lat. 48°18', long. 115°35', in SE¼ sec. 5, T. 29 N., R. 31 W., at Glacier silver-lead mine, 7 miles southwest of Libby.
Drainage area.- 23.6 square miles.
Records available.- January to September 1933, August 1936 to September 1938.
Extremes.- Maximum discharge observed, 1,960 second-feet Apr. 18, 1938 (gage height, 4.40 feet); no flow Jan. 4, 1933 (creek blocked by snow slide).
Remarks.- No regulation or diversion of importance.

Monthly discharge of Granite Creek near Libby, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	-	-	-	-
November	-	-	-	-
December	-	-	-	-
January 1933	51	0	26.3	1,620
February	61	12	18.4	1,020
March	33	12	18.0	1,110
April	344	30	97.9	5,830
May	494	95	193	11,900
June	948	202	434	25,800
July	217	52	134	8,240
August	58	21	37.5	2,310
September	60	17	31.6	1,880
The period	-	-	-	59,700
October 1933	232	21	74.0	4,550
November	583	44	92.5	5,500
December	1,170	40	158	9,720
Calendar year 1933	1,170	0	110	79,500
August 21-31, 1936	9.1	9.1	9.10	199
September	11	4.5	7.28	433
October	12	4.5	7.67	471
November	6.0	4.8	5.35	318
December	18	4.8	8.71	536
January 1937	-	-	3.94	242
February	-	-	4.50	250
March	26	-	8.97	551
April	142	24	75.6	4,500
May	415	142	270	16,620
June	390	101	189	11,250
July	104	19	45.2	2,780
August	24	6.0	12.8	787
September	16	4.3	7.79	464
Water year 1936-37	415	-	53.5	38,770
October 1937	82	4.5	15.8	973
November	67	19	37.5	2,230
December	49	16	26.0	1,600
Calendar year 1937	415	-	58.3	42,250
January 1938	43	18	26.7	1,640
February	23	9.1	15.6	865
March	70	14	32.7	2,010
April	1,960	32	258	15,380
May	523	115	276	16,960
June	440	92	188	11,200
July	89	18	44.8	2,750
August	16	-	10.2	626
September	16	5.1	8.38	498
Water year 1937-38	1,960	4.5	78.4	56,730

Boulder Creek near Leonia, Idaho

Location.- Water-stage recorder, lat. 48°36', long. 116°06', in NW¼ sec. 32, T. 61 N., R. 3 E., half a mile downstream from McGinty Creek, 1 mile upstream from buildings of the Idamount Lead-Zinc Mines Co., 3 miles upstream from mouth, and 3 miles southwest of Leonia.

Drainage area.- 53 square miles.

Records available.- November 1928 to September 1938. April to September 1928, at site 1½ miles downstream.

Extremes.- Maximum discharge, 2,050 second-feet Apr. 18, 1938 (gage height, 5.50 feet); minimum, 2 second-feet Aug. 25, Sept. 5, 1931.

Remarks.- Prior to 1936 some water was diverted above station for mining purposes during certain periods and returned to creek below. Estimates of the average diversion are as follows: April to September 1929, 2 second-feet; October 1929 to June 1931, 1 second-foot; July to September 1931, 2 second-feet; June to September 1932, 2 second-feet; June to October 1934, 3 second-feet; June to October 1935, 1.5 second-feet.

Monthly discharge of Boulder Creek near Leonia, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 19-31	880	276	613	10.6	5.13	15,800
June	263	54	126	2.17	2.42	7,500
July	102	14	44.6	.769	.89	2,740
August	17	9	11.1	.191	.22	682
September 1	9	9	9.0	.155	.01	18
The period	-	-	-	-	-	26,700
1928-29						
November 20-30	27	19	21.9	-	-	478
December	19	8	14.6	-	-	898
January	-	-	10.2	-	-	627
February	-	-	9.62	-	-	534
March	226	7.1	37.6	-	-	2,310
April	488	40	146	-	-	8,690
May	641	218	387	-	-	23,800
June	215	31	112	-	-	6,660
July	31	6.7	16.9	-	-	1,040
August	19	6.0	13.3	-	-	818
September	14	5.1	8.36	-	-	497
The period	-	-	-	-	-	46,400
1929-30						
October	17	6	8.5	-	-	523
November	12	4	8.7	-	-	518
December	194	7	28.0	-	-	1,720
January	-	-	11.4	-	-	701
February	165	-	44.8	-	-	2,490
March	177	25	50.7	-	-	3,120
April	568	180	342	-	-	20,400
May	292	105	177	-	-	10,900
June	234	38	92.9	-	-	5,530
July	37	9	18.7	-	-	1,150
August	9	6	6.9	-	-	424
September	10	5	7.2	-	-	428
The year	568	4	66.0	1.25	16.90	47,900
1930-31						
October	32	8	12.4	-	-	762
November	23	10	13.1	-	-	780
December	12	5	9.2	-	-	566
January	86	-	19.3	-	-	1,190
February	105	-	25.1	-	-	1,390
March	147	23	54.3	-	-	3,340
April	472	66	190	-	-	11,300
May	677	135	377	-	-	23,200
June	123	38	62.3	-	-	3,710
July	32	6	14.6	-	-	898
August	6	2	3.8	-	-	234
September	12	2	7.2	-	-	428
The year	677	2	66.1	1.25	16.92	47,800
1931-32						
October	27	6	12.6	-	-	775
November	62	9	20.6	-	-	1,230
December	23	14	16.7	-	-	1,030
January	-	-	16.0	-	-	984
February	1,100	-	116	-	-	6,670
March	200	-	97.2	-	-	5,980
April	626	182	361	-	-	21,500
May	1,040	278	626	-	-	38,500
June	540	57	226	-	-	13,400
July	52	-	26.0	-	-	1,600
August	-	-	6.3	-	-	418
September	8	5	5.9	-	-	351
The year	1,100	-	127	2.40	32.67	92,400

Monthly discharge of Boulder Creek near Leonia, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1932-33						
October	48	6	16.3	0.308	0.36	1,000
November	364	16	112	2.11	.24	6,660
December	398	-	103	1.94	2.24	6,330
January	103	33	48.2	.909	1.05	2,960
February	-	-	28.4	.536	.56	1,580
March	88	-	40.7	.768	.89	2,500
April	1,010	72	272	5.13	5.72	16,200
May	1,040	391	644	12.2	14.07	39,600
June	868	189	512	9.66	10.78	30,500
July	175	20	75.4	1.42	1.64	4,640
August	25	5	11.2	.211	.24	689
September	51	4	17.6	.332	.37	1,050
The year	1,040	4	157	2.96	40.27	114,000
1933-34						
October	296	16	58.4	-	-	3,590
November	428	58	106	-	-	6,310
December	-	-	293	-	-	18,040
January	404	116	187	-	-	11,500
February	178	99	131	-	-	7,260
March	394	93	167	-	-	10,270
April	1,040	265	626	-	-	37,250
May	739	158	422	-	-	25,970
June	140	30	70.9	-	-	4,220
July	27	5	13.3	-	-	817
August	7	4	4.4	-	-	268
September	9	4	5.6	-	-	333
The year	-	4	174	3.28	44.52	125,800
1934-35						
October	155	6	22.9	-	-	1,410
November	1,280	56	222	-	-	13,240
December	79	35	53.3	-	-	3,280
January	250	25	65.9	-	-	4,050
February	98	53	71.8	-	-	3,990
March	128	44	67.4	-	-	4,140
April	485	54	195	-	-	11,630
May	992	376	623	-	-	38,290
June	668	82	241	-	-	14,340
July	96	15	44.5	-	-	2,740
August	15	8	11.4	-	-	700
September	11	6	8.0	-	-	478
The year	1,280	6	136	2.57	34.81	98,290
1935-36						
October	25	5	8.7	.164	.19	538
November	15	8	11.3	.213	.24	674
December	12	7	9.6	.181	.21	589
January	13	9	9.9	.187	.22	609
February	-	-	7.8	.147	.16	446
March	36	14	21.1	.398	.46	1,300
April	866	14	367	6.92	7.72	21,840
May	788	160	435	8.21	9.46	26,740
June	138	26	71.3	1.35	1.51	4,240
July	27	7	16.3	.308	.36	1,000
August	7	4	5.7	.108	.12	349
September	16	5	9.0	.170	.19	534
The year	866	4	81.1	1.53	20.34	58,860
1936-37						
October	16	8	9.3	.175	.20	573
November	9	5	7.3	.138	.15	434
December	132	6	19.4	.366	.42	1,190
January	-	-	7.9	.149	.17	488
February	-	-	8.4	.158	.16	464
March	30	9	16.4	.309	.36	1,010
April	381	29	120	2.26	2.52	7,110
May	722	269	527	9.94	11.46	32,410
June	460	115	243	4.58	5.11	14,460
July	106	17	46.5	.877	1.01	2,860
August	31	10	15.0	.283	.33	924
September	26	9	11.0	.208	.23	653
The year	722	5	86.4	1.63	22.12	62,580

Monthly discharge of Boulder Creek near Leonia, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1937-38						
October	94	11	20.4	0.385	0.44	1,260
November	209	26	92.2	1.74	1.94	5,490
December	218	30	74.3	1.40	1.61	4,570
January	187	35	72.7	1.37	1.58	4,470
February	59	29	39.7	.749	.78	2,200
March	133	33	66.4	1.25	1.44	4,080
April	1,570	68	408	7.70	8.59	24,300
May	876	331	582	11.0	12.68	35,790
June	456	63	206	3.89	4.34	12,240
July	57	13	31.2	.589	.68	1,920
August	14	8	10.5	.198	.23	643
September	12	7	8.8	.166	.19	522
The year	1,570	7	135	2.55	35.50	97,480

Note.- Monthly figures of discharge in second-feet per square mile and run-off in inches not published for water years 1929 to 1932, 1934, and 1935 because of diversion around gage as given under "Remarks;" diversion is a small percentage of yearly flow.

Yearly discharge of Boulder Creek near Leonia, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1930	66.0	1.25	16.90	47,900	65.1	1.23	16.67	47,300
1931	66.1	1.25	16.92	47,800	67.3	1.27	17.25	48,700
1932	127	2.40	32.67	92,400	142	2.68	36.56	103,000
1933	157	2.96	40.27	114,000	176	3.32	45.20	128,000
1934	174	3.28	44.52	125,800	160	3.02	40.97	115,800
1935	136	2.57	34.81	98,290	113	2.13	29.12	82,160
1936	81.1	1.53	20.94	58,860	81.6	1.54	20.97	59,260
1937	86.4	1.63	22.12	62,580	99.0	1.87	25.34	71,700
1938	135	2.55	34.50	97,480	123	2.32	31.51	88,970

Moyie River at Eastport, Idaho
(International gaging station)

Location.- Water-stage recorder, lat. 49°00', long. 116°11', in SE¼ sec. 10, T. 65 N., R. 2 E., at Eastport, 1,000 feet downstream from international boundary.
Drainage area.- 570 square miles.
Records available.- August 1929 to September 1938 in reports of Geological Survey. January to December 1915, March to December 1916, and discharge measurements during 1914 and 1917, in reports of the Dominion Water and Power Bureau of the Department of Mines and Resources, Canada.
Extremes.- Maximum discharge, 6,240 second-feet Apr. 28, 1934 (gage height, 9.46 feet); minimum, 23 second-feet Nov. 7, 1936 (gage height, 3.20 feet).
Remarks.- No diversions or regulation above station. This is one of the international gaging stations maintained by the United States under agreement with Canada.

Monthly discharge of Moyie River at Eastport, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929						
August 26-31	71	66	68.3	0.120	0.03	813
September	81	61	68.2	.120	.13	4,060
The period	-	-	-	-	-	4,870
1929-30						
October	85	58	64.0	.112	.13	3,940
November	71	40	56.7	.099	.11	3,370
December	110	35	62.4	.109	.13	3,840
January	83	34	53.4	.094	.11	3,280
February	160	54	80.5	.141	.15	4,470
March	543	90	171	.300	.35	10,500
April	2,960	511	1,560	2.74	3.06	92,800
May	3,180	1,460	1,910	3.35	3.86	117,000
June	3,100	626	1,360	2.39	2.67	80,900
July	605	154	308	.540	.62	18,900
August	145	71	100	.175	.20	6,150
September	85	66	73.4	.129	.14	4,370
The year	3,180	34	484	.849	11.53	350,000
1930-31						
October	99	69	79.0	.139	.16	4,860
November	106	75	85.7	.150	.17	5,100
December	81	-	68.3	.120	.14	4,200
January	96	-	71.6	.126	.15	4,400
February	117	60	81.2	.142	.15	4,510
March	318	83	156	.274	.32	9,590
April	1,270	210	524	.919	1.03	31,200
May	2,800	1,110	1,830	3.21	3.70	113,000
June	1,060	314	526	.923	1.03	31,300
July	308	90	175	.307	.35	10,800
August	88	50	64.0	.112	.13	3,940
September	70	46	56.1	.098	.11	3,340
The year	2,800	-	312	.547	7.44	226,000
1931-32						
October	69	50	55.3	.097	.11	3,400
November	122	-	86.5	.152	.17	5,150
December	-	-	84.9	.149	.17	5,220
January	-	-	91.8	.161	.19	5,640
February	1,060	-	191	.335	.36	11,000
March	620	250	367	.644	.74	22,600
April	2,030	635	1,360	2.39	2.67	80,900
May	5,320	1,710	3,400	5.96	6.87	209,000
June	3,580	711	2,070	3.63	4.05	123,000
July	642	133	318	.558	.64	19,600
August	125	73	93.1	.163	.19	5,720
September	77	55	61.8	.108	.12	3,680
The year	5,320	50	682	1.20	16.28	495,000
1932-33						
October	141	52	86.1	.151	.17	5,290
November	500	108	246	.432	.48	14,600
December	900	210	370	.649	.75	22,800
January	250	150	198	.347	.40	12,200
February	-	-	131	.230	.24	7,280
March	352	122	172	.302	.35	10,600
April	4,020	368	1,220	2.14	2.39	72,600
May	4,920	1,980	3,120	5.47	6.31	192,000
June	4,830	1,620	3,530	6.19	6.91	210,000
July	1,510	230	675	1.18	1.36	41,500
August	218	103	148	.260	.30	9,100
September	182	101	123	.216	.24	7,320
The year	4,920	52	836	1.47	19.90	605,000

Monthly discharge of Moyie River at Eastport, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1933-34						
October	1,500	137	338	0.593	0.68	20,790
November	1,100	447	641	1.12	1.25	38,160
December	2,000	340	718	1.26	1.45	44,150
January	1,040	425	647	1.14	1.31	39,800
February	565	362	454	.796	.83	25,200
March	1,110	362	626	1.10	1.27	38,520
April	6,100	1,040	3,303	5.79	6.46	196,500
May	4,210	2,250	3,095	5.43	6.26	190,300
June	2,010	382	918	1.61	1.80	54,610
July	363	121	208	.365	.42	12,810
August	115	59	81.8	.144	.17	5,030
September	76	53	60.6	.106	.12	3,610
The year	6,100	53	925	1.62	22.02	669,500
1934-35						
October	148	55	78.1	.137	.16	4,800
November	387	100	249	.437	.49	14,800
December	230	100	174	.305	.35	10,700
January	600	90	241	.423	.49	14,830
February	399	226	296	.519	.54	16,440
March	330	188	255	.447	.52	15,670
April	2,070	219	905	1.59	1.77	53,870
May	4,210	1,670	2,742	4.81	5.55	168,600
June	3,400	804	1,978	3.47	3.87	117,700
July	868	255	503	.882	1.02	30,920
August	244	115	166	.291	.34	10,230
September	112	64	87.2	.153	.17	5,190
The year	4,210	55	641	1.12	15.27	463,800
1935-36						
October	132	65	85.3	.150	.17	5,250
November	140	70	87.4	.153	.17	5,200
December	86	67	75.5	.132	.15	4,640
January	83	65	74.5	.131	.15	4,580
February	75	65	67.8	.119	.13	3,900
March	177	90	131	.230	.27	8,050
April	3,440	99	1,656	2.91	3.25	98,560
May	3,220	1,310	2,327	4.08	4.70	143,100
June	1,310	262	652	1.14	1.27	38,790
July	246	74	150	.263	.30	9,230
August	72	46	58.1	.102	.12	3,570
September	93	46	59.6	.105	.12	3,550
The year	3,440	46	452	.793	10.80	328,400
1936-37						
October	57	47	49.1	.086	.10	3,020
November	48	35	42.2	.074	.08	2,510
December	124	-	56.3	.099	.11	3,460
January	-	-	41.9	.074	.09	2,570
February	-	-	54.7	.096	.10	3,040
March	148	-	79.4	.139	.16	4,880
April	1,110	160	514	.902	1.01	30,590
May	3,220	1,190	2,405	4.22	4.86	147,900
June	2,590	1,040	1,920	3.37	3.76	114,300
July	926	180	401	.704	.81	24,630
August	235	86	131	.230	.27	8,070
September	109	71	81.1	.142	.16	4,830
The year	3,220	-	483	.847	11.51	349,800
1937-38						
October	209	84	115	.202	.23	7,100
November	468	177	316	.554	.62	18,800
December	445	130	233	.409	.47	14,320
January	339	140	245	.430	.50	15,080
February	300	170	203	.356	.37	11,290
March	664	209	385	.675	.78	23,680
April	5,570	423	2,179	3.82	4.26	129,600
May	5,740	2,130	3,644	6.39	7.37	224,100
June	4,280	951	2,200	3.86	4.31	130,900
July	876	177	421	.739	.85	25,860
August	167	73	112	.196	.23	6,860
September	84	57	68.6	.120	.13	4,080
The year	5,740	57	845	1.48	20.12	611,700

Yearly discharge of Moyie River at Eastport, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1930	484	0.849	11.53	350,000	488	0.856	11.63	353,000
1931	312	.547	7.44	226,000	311	.546	7.42	226,000
1932	682	1.20	16.28	495,000	722	1.27	17.23	524,000
1933	836	1.47	19.90	605,000	919	1.61	21.88	666,000
1934	925	1.62	22.02	669,500	824	1.45	19.64	596,700
1935	641	1.12	15.27	463,800	620	1.09	14.76	448,500
1936	452	.793	10.80	328,400	444	.779	10.60	322,300
1937	483	.847	11.51	349,800	526	.923	12.54	381,000
1938	845	1.48	20.12	611,700	810	1.42	19.30	586,400

Moyie River at Snyder, Idaho

Location.- Staff gage, lat. 48°52', long. 116°10', in sec. 23, T. 64 N., R. 2 E., at Snyder ranger station, a quarter of a mile west of Snyder station on Spokane International Railway, 3½ miles downstream from Round Prairie, 8 miles downstream from international boundary, and 12 miles upstream from mouth.
Drainage area.- 717 square miles.
Records available.- February 1912 to September 1916, March 1919 to September 1923. March 1911 to February 1912 at site at railway bridge, 1 mile downstream.
Extremes.- Maximum discharge observed, 10,800 second-feet June 19, 1916 (gage height, 11.0 feet); minimum observed, 56 second-feet Oct. 25 and 26, 1919 (gage height, 2.80 feet) but may have been less during periods of ice effect in December 1919, January, February, and December 1922, and February 1923.
Remarks.- No diversions or regulation above station.

Monthly discharge of Moyie River at Snyder, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1911						
March 10-31	1,110	221	679	0.947	0.77	29,600
April	3,970	364	1,610	2.25	2.51	95,800
May	6,450	1,910	3,820	5.33	6.14	235,000
June	5,580	1,780	3,770	5.26	5.87	224,000
July	1,910	288	849	1.18	1.36	52,200
August	288	161	249	.347	.40	15,300
September	200	161	174	.243	.27	10,400
The period	-	-	-	-	-	662,000
1911-12						
October	242	200	220	.307	.35	13,500
November	-	-	175	.244	.27	10,400
December	-	-	151	.211	.24	9,280
January	391	100	221	.308	.36	13,600
February	200	110	144	.201	.22	8,280
March	342	91	147	.205	.24	9,040
April	2,200	455	1,330	1.85	2.06	79,100
May	4,120	1,540	2,940	4.10	4.73	181,000
June	2,200	550	1,220	1.70	1.90	72,600
July	1,080	550	710	.990	1.14	43,700
August	425	171	243	.339	.39	14,900
September	315	171	219	.305	.34	13,000
The year	4,120	-	645	.900	12.24	468,000
1912-13						
October	265	171	202	.282	.33	12,400
November	840	171	479	.668	.75	28,500
December	315	171	199	.278	.32	12,200
January	-	-	216	.301	.35	13,300
February	455	265	314	.438	.46	17,400
March	315	265	280	.391	.45	17,200
April	3,090	265	1,640	2.29	2.56	97,600
May	8,020	1,540	4,380	6.11	7.04	269,000
June	8,020	1,340	3,040	5.08	5.67	217,000
July	1,440	310	763	1.06	1.22	46,900
August	310	170	251	.350	.40	15,400
September	265	180	219	.305	.34	13,000
The year	8,020	170	1,050	1.46	19.89	760,000

Monthly discharge of Moyie River at Snyder, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1913-14						
October 1-22	-	-	218	0.304	0.25	9,510
November	-	-	-	-	-	-
December 8-31	-	-	178	.248	.22	8,470
January	1,030	170	423	.590	.68	26,000
February	274	-	220	.307	.32	12,200
March	820	224	487	.679	.78	29,900
April	3,820	665	2,160	3.01	3.36	129,000
May	6,120	2,830	4,460	6.22	7.17	274,000
June	4,760	1,540	2,560	3.57	3.98	152,000
July	1,440	310	743	1.04	1.20	45,700
August	288	125	190	.265	.31	11,700
September	270	100	145	.202	.23	8,630
The year	-	-	-	-	-	-
1914-15						
October	265	154	213	.297	.34	13,100
November	1,160	386	666	.929	1.04	39,600
December	412	-	221	.308	.36	13,600
January	187	140	163	.227	.26	10,000
February	154	100	128	.179	.19	7,110
March	595	125	258	.360	.42	15,900
April	2,570	440	1,460	2.04	2.28	86,900
May	2,320	1,540	1,820	2.54	2.93	112,000
June	1,440	595	901	1.26	1.41	53,600
July	665	334	470	.656	.76	28,900
August	310	125	195	.272	.31	12,000
September	170	120	136	.190	.21	8,090
The year	2,570	-	553	.771	10.51	401,000
1915-16						
October	224	140	158	.220	.25	9,720
November	224	187	206	.287	.32	12,300
December	217	154	186	.259	.30	11,400
January	-	-	159	.222	.26	9,780
February	-	-	236	.329	.35	13,600
March	1,790	224	927	1.29	1.49	57,000
April	3,310	1,290	1,990	2.78	3.10	118,000
May	6,740	1,680	3,750	5.23	6.03	231,000
June	10,400	3,170	5,500	7.67	8.56	327,000
July	-	440	2,270	3.17	3.66	140,000
August	412	154	250	.349	.40	15,400
September	206	115	142	.198	.22	8,450
The year	10,400	115	1,310	1.83	24.94	954,000
1919						
March	509	191	244	.340	.39	15,000
April	4,840	558	2,020	2.82	3.15	120,000
May	7,230	2,250	4,260	5.94	6.85	262,000
June	3,960	1,180	2,420	3.38	3.77	144,000
July	930	251	516	.720	.83	31,700
August	233	81	144	.201	.23	8,850
September	117	81	93.2	.130	.14	5,550
The period	-	-	-	-	-	587,000
1919-20						
October	86	56	78.4	.109	.13	4,820
November	211	70	106	.148	.17	6,310
December	-	-	102	.142	.17	6,270
January	100	-	83.9	.117	.13	5,160
February	147	-	89.5	.125	.13	5,150
March	308	81	156	.218	.25	9,590
April	1,180	141	478	.667	.74	28,400
May	4,120	780	2,310	3.22	3.71	142,000
June	3,660	1,550	2,650	3.70	4.13	158,000
July	1,650	269	779	1.09	1.26	47,900
August	252	122	164	.229	.26	10,100
September	310	105	196	.273	.30	11,700
The year	4,120	56	600	.837	11.38	435,000

Monthly discharge of Moyie River at Snyder, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1920-21						
October	538	269	418	0.583	0.67	25,700
November	605	179	332	.463	.52	19,800
December	334	198	254	.354	.41	15,600
January	329	185	239	.333	.38	14,700
February	930	152	418	.583	.61	23,200
March	745	360	543	.757	.87	33,400
April	2,440	640	1,460	2.04	2.28	86,900
May	6,870	1,360	4,190	5.84	6.73	258,000
June	5,120	1,090	3,050	4.25	4.74	181,000
July	1,090	228	509	.710	.82	31,300
August	223	104	145	.202	.23	8,920
September	119	92	103	.144	.16	6,130
The year	6,870	92	974	1.36	18.42	705,000
1921-22						
October	128	101	108	.151	.17	6,640
November	177	-	124	.173	.19	7,380
December	527	-	169	.236	.27	10,400
January	-	-	84.2	.117	.13	5,180
February	-	-	74.6	.104	.11	4,140
March	137	-	111	.155	.18	6,820
April	950	142	454	.633	.71	27,000
May	4,680	990	2,750	3.84	4.43	169,000
June	4,840	527	2,360	3.29	3.67	140,000
July	498	151	279	.389	.45	17,200
August	142	88	110	.153	.18	6,760
September	120	72	88.0	.123	.14	5,240
The year	4,840	-	561	.782	10.63	406,000
1922-23						
October	278	72	119	.166	.19	7,320
November	167	103	129	.180	.20	7,680
December	-	-	120	.167	.19	7,380
January	283	90	170	.237	.27	10,500
February	-	-	105	.146	.15	5,830
March	440	109	149	.208	.24	9,160
April	2,370	468	1,210	1.69	1.89	72,000
May	4,200	1,580	3,260	4.55	5.25	200,000
June	5,520	1,380	2,950	4.11	4.59	176,000
July	1,290	283	656	.915	1.05	40,300
August	274	131	186	.259	.30	11,400
September	131	91	106	.148	.17	6,310
The year	5,520	-	765	1.07	14.49	554,000

Yearly discharge of Moyie River at Snyder, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1912	645	0.900	12.24	468,000	673	0.939	12.78	488,000
1913	1,050	1.46	19.89	760,000	-	-	-	-
1914	-	-	-	-	1,040	1.45	19.77	755,000
1915	553	.771	10.51	401,000	508	.709	9.64	368,000
1916	1,310	1.83	24.94	954,000	-	-	-	-
1920	600	.837	11.38	435,000	660	.921	12.51	479,000
1921	974	1.36	18.42	705,000	923	1.29	17.45	668,000
1922	561	.782	10.63	406,000	558	.778	10.58	404,000
1923	765	1.07	14.49	554,000	-	-	-	-

Moyie River at Eileen, Idaho

Location.- Water-stage recorder, lat. 48°46', long. 116°10', in NE¼ sec. 35, T. 63 N., R. 2 E., an eighth of a mile downstream from Skin Creek, a quarter of a mile southeast of Eileen, and 4 miles upstream from mouth.
Drainage area.- 755 square miles.
Records available.- October 1925 to September 1938.
Extremes.- Maximum discharge, 8,780 second-feet Apr. 29, 1934; maximum gage height, 4.8 feet May 17, June 10, 11, 1927, May 13, 17-19, 1928; minimum discharge, 40 second-feet Nov. 27, 1936 (gage height, -0.25 foot).
Remarks.- No diversions or regulation above station.

Monthly discharge of Moyie River at Eileen, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1925-26						
October	119	106	112	0.148	0.17	6,890
November	125	104	112	.148	.17	6,660
December	156	94	127	.168	.19	7,810
January	143	88	125	.166	.19	7,690
February	176	119	151	.200	.21	8,390
March	355	152	224	.297	.34	13,800
April	3,200	183	1,210	1.60	1.78	72,000
May	2,980	550	1,340	1.77	2.04	82,400
June	529	240	347	.460	.51	20,600
July	244	112	172	.228	.26	10,600
August	183	88	112	.148	.17	6,890
September	385	116	200	.265	.30	11,900
The year	3,200	88	353	.468	6.33	256,000
1926-27						
October	1,520	287	766	1.01	1.16	47,100
November	658	355	455	.603	.67	27,100
December	1,130	330	552	.731	.84	33,900
January	550	-	330	.437	.50	20,300
February	448	220	288	.381	.40	16,000
March	448	236	286	.379	.44	17,600
April	4,570	480	1,470	1.95	2.18	87,500
May	5,910	1,770	3,350	4.44	5.12	206,000
June	5,910	1,400	3,530	4.68	5.22	210,000
July	1,290	355	710	.940	1.08	43,700
August	355	220	274	.363	.42	16,800
September	1,910	305	902	1.19	1.33	53,700
The year	5,910	-	1,080	1.43	19.36	780,000
1927-28						
October	1,520	705	1,150	1.52	1.75	70,700
November	1,290	705	904	1.20	1.34	53,800
December	1,520	-	839	1.11	1.28	51,600
January	705	385	486	.644	.74	29,900
February	415	296	355	.470	.51	20,400
March	1,770	269	678	.898	1.04	41,700
April	3,440	790	1,350	1.79	2.00	80,300
May	5,910	2,060	4,580	6.07	7.00	282,000
June	2,940	735	1,410	1.87	2.09	83,900
July	1,180	385	763	1.01	1.16	46,900
August	374	192	262	.347	.40	16,100
September	188	127	151	.200	.22	8,980
The year	5,910	127	1,080	1.43	19.53	786,000
1928-29						
October	315	136	228	.302	.35	14,000
November	239	-	187	.248	.28	11,100
December	-	-	122	.162	.19	7,500
January	-	-	89.0	.118	.14	5,470
February	-	-	94.6	.125	.13	5,250
March	504	-	183	.242	.28	11,300
April	1,810	262	560	.742	.83	33,300
May	4,500	1,300	2,480	3.28	3.78	152,000
June	2,560	759	1,850	2.45	2.73	110,000
July	708	177	363	.481	.55	22,300
August	174	94	128	.170	.20	7,870
September	112	94	100	.132	.15	5,950
The year	4,500	-	534	.707	9.61	386,000

Monthly discharge of Moyie River at Eileen, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929-30						
October	127	88	96.1	0.127	0.15	5,910
November	98	70	89.0	.118	.13	5,300
December	155	63	93.2	.123	.14	5,730
January	124	60	83.2	.110	.13	5,120
February	250	82	126	.167	.17	7,000
March	700	149	255	.338	.39	15,700
April	3,540	636	1,880	2.49	2.78	112,000
May	3,540	1,720	2,160	2.86	3.30	133,000
June	3,540	779	1,570	2.08	2.32	93,400
July	735	213	400	.530	.61	24,600
August	202	104	145	.192	.22	8,920
September	114	95	104	.138	.15	6,190
The year	3,540	60	584	.774	10.49	423,000
1930-31						
October	146	104	120	.159	.18	7,380
November	159	117	128	.170	.19	7,620
December	120	-	102	.135	.16	6,270
January	183	-	113	.150	.17	6,950
February	238	-	147	.195	.20	8,160
March	504	133	273	.362	.42	16,800
April	1,650	340	719	.952	1.06	42,800
May	3,410	1,380	2,240	2.97	3.42	138,000
June	1,330	426	674	.893	1.00	40,100
July	414	131	246	.326	.38	15,100
August	131	77	97.8	.130	.15	6,010
September	100	72	86.7	.115	.13	5,160
The year	3,410	72	415	.550	7.46	300,000
1931-32						
October	112	77	87.7	.116	.13	5,390
November	183	-	128	.170	.19	7,620
December	-	-	121	.160	.18	7,440
January	-	-	138	.183	.21	8,480
February	1,490	-	287	.380	.41	16,500
March	814	303	474	.628	.72	29,100
April	2,620	917	1,860	2.46	2.74	111,000
May	6,610	2,260	4,360	5.77	6.65	268,000
June	4,830	908	2,570	3.40	3.79	153,000
July	838	185	429	.568	.65	26,400
August	182	120	139	.184	.21	8,550
September	124	101	108	.143	.16	6,430
The year	6,610	77	892	1.18	16.04	648,000
1932-33						
October	210	87	135	.179	.21	8,300
November	812	170	388	.514	.57	23,100
December	1,230	280	506	.670	.77	31,100
January	359	259	301	.399	.46	18,500
February	259	-	202	.268	.28	11,200
March	624	183	275	.364	.42	16,900
April	5,260	639	1,710	2.26	2.52	102,000
May	6,230	2,410	3,910	5.18	5.97	240,000
June	6,020	1,840	4,240	5.62	6.27	252,000
July	1,720	316	803	1.06	1.22	49,400
August	316	142	206	.273	.31	12,700
September	239	142	175	.232	.26	10,400
The year	6,230	87	1,070	1.42	19.26	776,000
1933-34						
October	1,600	186	402	.532	.61	24,730
November	1,290	624	821	1.09	1.22	48,860
December	2,790	485	991	1.31	1.51	60,930
January	1,440	707	942	1.25	1.44	57,930
February	873	498	708	.938	.98	39,340
March	1,630	541	901	1.19	1.37	55,380
April	8,380	1,540	4,281	5.67	6.33	254,700
May	5,970	2,530	3,933	5.21	6.01	241,800
June	2,260	491	1,081	1.43	1.60	64,300
July	461	137	264	.350	.40	16,230
August	139	91	109	.144	.17	6,720
September	104	88	93.1	.123	.14	5,540
The year	8,380	88	1,211	1.60	21.78	876,500

Monthly discharge of Moyie River at Eileen, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1934-35						
October	183	88	109	0.144	0.17	6,680
November	562	130	347	.460	.51	20,670
December	311	134	234	.310	.36	14,370
January	800	120	323	.428	.49	19,830
February	528	307	403	.534	.56	22,370
March	535	259	385	.510	.59	23,660
April	2,820	335	1,264	1.67	1.86	75,220
May	5,890	2,220	3,574	4.73	5.45	219,700
June	4,440	986	2,407	3.19	3.56	143,200
July	1,060	331	641	.849	.98	39,420
August	322	150	214	.283	.33	13,160
September	150	111	127	.168	.19	7,550
The year	5,890	88	837	1.11	15.05	605,800
1935-36						
October	181	103	124	.164	.19	7,610
November	187	100	132	.175	.20	7,840
December	124	94	114	.151	.17	7,000
January	131	85	114	.151	.17	7,000
February	-	-	90.1	.119	.13	5,180
March	288	130	199	.264	.30	12,230
April	4,610	152	2,200	2.91	3.25	130,900
May	4,010	1,490	2,865	3.79	4.37	176,200
June	1,570	340	813	1.08	1.20	48,390
July	326	110	200	.265	.31	12,270
August	103	81	91.2	.121	.14	5,610
September	131	81	94.7	.125	.14	5,640
The year	4,610	81	587	.777	10.57	425,900
1936-37						
October	88	81	83.3	.110	.13	5,120
November	81	56	69.4	.092	.10	4,130
December	211	64	91.8	.122	.14	5,650
January	-	-	69.7	.092	.11	4,280
February	-	-	85.7	.114	.12	4,760
March	249	-	130	.172	.20	8,000
April	1,530	264	739	.979	1.09	44,000
May	3,760	1,420	2,910	3.85	4.44	178,900
June	3,060	1,240	2,238	2.96	3.30	133,200
July	1,130	231	502	.665	.77	30,800
August	312	129	181	.240	.28	11,100
September	160	109	124	.164	.18	7,410
The year	3,760	-	604	.800	10.86	437,400
1937-38						
October	253	131	158	.209	.24	9,730
November	758	221	440	.583	.65	26,150
December	839	202	354	.469	.54	21,750
January	660	250	406	.538	.62	24,970
February	391	235	284	.376	.39	15,780
March	1,150	283	615	.815	.94	37,790
April	6,770	676	2,809	3.72	4.15	167,100
May	6,720	2,670	4,341	5.75	6.63	266,900
June	4,830	1,110	2,524	3.34	3.73	150,200
July	1,020	223	517	.685	.79	31,780
August	215	121	160	.212	.24	9,830
September	132	101	113	.150	.17	6,730
The year	6,770	101	1,062	1.41	19.09	768,700

Yearly discharge of Moyie River at Eileen, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1926.....	353	0.468	6.33	256,000	473	0.626	8.47	342,000
1927.....	1,080	1.43	19.36	780,000	1,170	1.55	21.06	848,000
1928.....	1,080	1.43	19.53	786,000	885	1.17	15.98	643,000
1929.....	534	.707	9.61	386,000	513	.679	9.21	370,000
1930.....	584	.774	10.49	423,000	590	.781	10.60	427,000
1931.....	415	.550	7.46	300,000	414	.548	7.43	300,000
1932.....	892	1.18	16.04	648,000	950	1.26	17.09	690,000
1933.....	1,070	1.42	19.26	776,000	1,170	1.55	21.05	848,000
1934.....	1,211	1.60	21.78	876,500	1,083	1.43	19.48	783,700
1935.....	837	1.11	15.05	605,800	810	1.07	14.57	586,600
1936.....	587	.777	10.57	425,900	576	.763	10.38	418,300
1937.....	604	.800	10.86	437,400	663	.878	11.92	480,100
1938.....	1,062	1.41	19.09	768,700	1,014	1.34	18.24	734,300
Highest....	1,211	1.60	21.78	876,500	1,170	1.55	21.06	848,000
Average....	793	1.05	14.26	574,600	793	1.05	14.27	574,700
Lowest.....	353	.468	6.33	256,000	414	.548	7.43	300,000

Cow Creek near Bonners Ferry, Idaho

Location.- Staff gage, lat. 48°41', long. 116°15', in SW¼ sec. 31, T. 62 N., R. 2 E., at footbridge on Goldbeck Ranch, 3 miles southeast of Bonners Ferry.
Records available.- May 1928 to September 1934.
Extremes.- Maximum discharge observed, 60 second-feet June 9, 1933 (gage height, 5.48 feet); minimum observed, 0.4 second-foot Sept. 8, 9, 14-17, 28-30, 1932.
Remarks.- Some water diverted above station during summer for irrigation.

Monthly discharge of Cow Creek near Bonners Ferry, Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1928				
May 16-31.....	56	27	44.8	1,420
June.....	24	7.5	12.7	756
July.....	8.9	3.6	5.95	366
August.....	3.8	2.5	2.87	176
September.....	2.7	2.3	2.34	139
The period.....	-	-	-	2,860
1928-29				
October 1-6.....	3.3	2.3	2.90	35
March 17-31.....	3.7	1.6	2.13	63
April.....	4.6	1.6	2.35	140
May.....	22	4.3	12.0	738
June.....	12	4.3	7.49	446
July.....	4.7	1.2	1.92	118
August.....	1.4	1.0	1.13	69
1930				
March 17-31.....	7.4	3.2	4.11	122
April.....	15	3.8	8.10	482
May.....	13	7.4	9.41	579
June.....	10	1.5	6.01	358
July.....	1.5	.9	1.15	71
August.....	.9	.8	.81	50
September.....	1.0	.7	.80	48
The period.....	-	-	-	1,710
1930-31				
October 1-4.....	.90	.90	.90	7.1
March 10-31.....	6.0	1.4	2.88	126
April.....	7.2	1.6	3.76	224
May.....	18	6.6	12.6	775
June.....	7.4	1.8	3.43	204
July.....	1.8	.6	1.10	68
August.....	.7	.5	.53	33
September.....	1.2	.5	.72	43

Monthly discharge of Cow Creek near Bonners Ferry, Idaho--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1932				
February 26-29	45	12	30.5	242
March	8.0	2.1	3.48	214
April	14	4.3	8.71	518
May	48	11	28.2	1,730
June	25	5.7	13.8	821
July	5.1	1.8	3.36	207
August	1.8	.5	1.16	71
September	.8	.4	.50	30
The period	-	-	-	3,830
1933				
March	8.8	-	4.55	280
April	32	6.2	10.5	625
May	50	14	24.2	1,490
June	60	15	37.3	2,220
July	13	3.0	7.25	446
August	3.2	1.3	2.05	126
September	2.0	1.1	1.47	87
The period	-	-	-	5,270
1934				
March	24	7.1	8.68	534
April	54	17	29.6	1,760
May	37	16	27.6	1,700
June	14	2.9	6.98	416
July	2.9	1.1	1.88	116
August	1.3	.6	.94	57
September	1.5	.6	.86	51
The period	-	-	-	4,630

Deep Creek at Moravia, Idaho

Location.- Staff Gage, lat. 48°38', long. 116°24', in sec. 18, T. 61 N., R. 1 E., at concrete highway bridge 1 mile below Ruby Creek and 1 mile southwest of Moravia.
Drainage area.- 133 square miles.
Records available.- May 1928 to September 1938.
Extremes.- Maximum discharge observed, 1,300 second-feet Dec. 22, 1933 (gage height, 4.20 feet); minimum discharge, 7 second-feet Aug. 15, 24, 25, 1931; minimum gage height, 0.18 foot Sept. 3, 5, 1938.
Remarks.- No regulation or diversion of any size above station.

Monthly discharge of Deep Creek at Moravia, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 8-31	-	256	511	3.84	3.43	24,300
June	243	77	138	1.04	1.16	8,210
July	93	23	57.0	.429	.49	3,500
August	23	9	14.0	.105	.12	861
September	18	9	12.5	.094	.10	744
The period	-	-	-	-	-	37,600
1929						
March 17-31	205	60	89.1	.670	.37	2,650
April	276	48	113	.850	.95	6,720
May	390	188	269	2.02	2.33	16,500
June	254	65	139	1.05	1.17	8,270
July	65	16	30.2	.227	.26	1,860
August	14	8	9.7	.073	.08	596
The period	-	-	-	-	-	36,600
1930						
March 19-31	232	70	117	.880	.43	3,020
April	403	194	277	2.08	2.32	16,500
May	242	122	163	1.23	1.42	10,000
June	204	60	103	.774	.86	6,130
July	65	16	33.5	.252	.29	2,060
August	11	8	9.5	.071	.08	584
September	16	8	11.3	.085	.09	672
The period	-	-	-	-	-	39,000

Monthly discharge of Deep Creek at Moravia, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930-31						
October 1-11	34	11	18.1	0.136	0.06	395
March 10-31	210	64	130	.977	.80	5,670
April	360	138	210	1.58	1.76	12,500
May	303	104	222	1.67	1.92	13,600
June	112	32	57.9	.435	.49	3,450
July	32	10	19.0	.143	.16	1,170
August	10	7	8.6	.065	.07	529
September	14	10	12.3	.092	.10	732
1932						
February 27-29	819	477	667	5.02	.56	3,970
March	402	115	209	1.57	1.81	12,900
April	742	294	528	3.97	4.43	31,400
May	819	329	582	4.38	5.05	35,800
June	402	68	246	1.85	2.06	14,600
July	68	16	36.5	.274	.32	2,240
August	16	11	12.8	.096	.11	787
September	14	10	11.6	.087	.10	690
The period	-	-	-	-	-	102,000
1932-33						
October	45	14	21.9	.165	.19	1,350
November	263	26	92.3	.694	.77	5,490
December	421	83	144	1.08	1.24	8,850
January	179	66	98.9	.744	.86	6,080
February	92	-	59.5	.447	.47	3,300
March	279	46	114	.857	.99	7,010
April	975	205	449	3.38	3.77	26,700
May	666	477	565	4.25	4.90	34,700
June	704	205	459	3.45	3.85	27,300
July	205	-	85.9	.646	.74	5,280
August	-	13	17.7	.133	.15	1,090
September	26	13	18.3	.138	.15	1,090
The year	975	13	177	1.33	18.08	128,000
1933-34						
October	119	17	36.0	.271	.31	2,210
November	160	58	76.0	.571	.64	4,520
December	1,300	49	341	2.56	2.95	20,940
January	594	232	367	2.76	3.18	22,590
February	301	130	209	1.57	1.63	11,610
March	532	147	242	1.82	2.10	14,870
April	980	433	584	4.39	4.90	34,720
May	433	162	297	2.23	2.57	18,230
June	145	37	79.9	.601	.67	4,750
July	33	12	19.3	.145	.17	1,190
August	13	9	10.5	.079	.09	647
September	15	9	11.9	.089	.10	706
The year	1,300	9	189	1.42	19.31	137,000
1934-35						
October	138	14	32.6	.245	.28	2,000
November	258	31	119	.895	1.00	7,070
December	126	68	88.5	.665	.77	5,440
January	400	50	115	.865	1.00	7,100
February	143	96	114	.857	.89	6,340
March	316	88	161	1.21	1.39	9,890
April	638	143	327	2.46	2.74	19,470
May	825	220	562	4.23	4.88	34,580
June	506	112	263	1.98	2.21	15,670
July	136	26	63.9	.480	.55	3,930
August	24	14	17.9	.135	.16	1,100
September	20	14	15.4	.116	.13	914
The year	825	14	157	1.18	16.00	113,500

Monthly discharge of Deep Creek at Moravia, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1935-36						
October	41	15	21.7	0.163	0.19	1,330
November	35	24	29.8	.224	.25	1,780
December	41	20	30.2	.227	.26	1,860
January	44	27	33.0	.248	.29	2,030
February	-	-	32.9	.247	.27	1,890
March	115	59	78.0	.586	.68	4,800
April	920	60	442	3.32	3.70	26,290
May	630	151	364	2.74	3.16	22,410
June	162	40	92.5	.695	.78	5,500
July	38	12	23.2	.174	.20	1,430
August	13	10	11.0	.083	.10	678
September	78	10	19.8	.149	.17	1,180
The year	920	10	98.0	.737	10.05	71,180
1936-37						
October	18	16	17.5	.132	.15	1,080
November	21	15	17.6	.132	.15	1,050
December	132	-	38.9	.292	.34	2,390
January	-	-	18.4	.138	.16	1,130
February	-	-	23.8	.179	.19	1,320
March	142	25	55.5	.417	.48	3,410
April	830	132	348	2.62	2.92	20,720
May	730	265	419	3.15	3.63	25,740
June	460	120	219	1.65	1.84	13,060
July	113	24	50.8	.382	.44	3,120
August	38	13	19.2	.144	.17	1,180
September	120	14	22.5	.169	.19	1,340
The year	830	13	104	.782	10.66	75,540
1937-38						
October	44	21	28.0	.211	.24	1,720
November	425	29	140	1.05	1.17	8,310
December	690	111	173	1.30	1.50	10,650
January	478	100	198	1.49	1.72	12,190
February	150	90	111	.835	.87	6,150
March	730	111	272	2.05	2.36	16,750
April	1,260	252	617	4.64	5.18	36,710
May	930	442	642	4.83	5.57	39,450
June	460	116	265	1.99	2.22	15,740
July	109	20	51.1	.384	.44	3,140
August	19	12	16.3	.123	.14	1,000
September	20	11	15.0	.113	.13	893
The year	1,260	11	211	1.59	21.54	152,700

Yearly discharge of Deep Creek at Moravia, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1933	177	1.33	18.08	128,000	194	1.46	19.78	140,000
1934	189	1.42	19.31	137,000	171	1.29	17.46	123,800
1935	157	1.18	16.00	113,500	144	1.08	14.65	104,000
1936	98.0	.737	10.05	71,180	97.4	.732	9.99	70,730
1937	104	.782	10.66	75,540	127	.955	12.93	91,700
1938	211	1.59	21.54	152,700	190	1.43	19.45	137,800

Snow Creek near Moravia, Idaho

Location.- Staff gage, lat. 48°40', long. 116°24', in SW¼ sec. 1, T. 61 N., R. 1 W., 2 miles northwest of Moravia and 5 miles southwest of Bonners Ferry.
Drainage area.- 19.5 square miles.
Records available.- May 1928 to September 1934.
Extremes.- Maximum discharge observed, 572 second-feet June 14, 15, 1933 (gage height, 2.80 feet); minimum discharge, 1 second-foot Aug. 16 to Sept. 10, Sept. 16-21, 1934; minimum gage height, 0.30 foot Sept. 16 and 22, 1932.
Remarks.- No diversions above station.

Monthly discharge of Snow Creek near Moravia, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 8-31	352	121	237	12.2	10.89	11,300
June	107	43	68.3	3.50	3.90	4,060
July	45	7	22.2	1.14	1.31	1,360
August	10	4	4.8	.246	.28	295
September	4	2	2.6	.133	.15	155
The period	-	-	-	-	-	17,200
1929						
March 17-31	45	5	14.4	.738	.41	428
April	78	11	27.2	1.39	1.55	1,620
May	269	49	116	5.95	6.86	7,130
June	122	21	67.2	3.45	3.85	4,000
July	20	5	10.0	.513	.59	615
August	5	-	3.4	.174	.20	209
September	4	-	2.7	.138	.15	161
The period	-	-	-	-	-	14,200
1930						
March 20-31	36	13	22.5	1.15	.51	536
April	202	38	99.1	5.08	5.67	5,900
May	152	71	93.6	4.80	5.53	5,760
June	120	24	54.2	2.78	3.10	3,230
July	23	5	12.1	.621	.72	744
August	5	4	4.2	.215	.25	258
September	4	3	3.2	.164	.18	190
The period	-	-	-	-	-	16,600
1931						
March 11-31	30	13	19.1	.979	.76	796
April	75	17	33.2	1.70	1.90	1,980
May	275	68	116	5.95	6.86	7,130
June	75	13	28.3	1.45	1.62	1,680
July	12	4	6.5	.333	.38	400
August	4	2	2.4	.123	.14	148
September	7	2	3.1	.159	.18	184
The period	-	-	-	-	-	12,300
1932						
March 6-31	64	25	42.5	2.18	2.11	2,190
April	162	56	105	5.38	6.00	6,250
May	352	113	217	11.1	12.8	13,300
June	258	56	154	7.90	8.81	9,160
July	51	7	20.4	1.05	1.21	1,250
August	7	4	4.9	.251	.29	301
September	5	3	3.4	.174	.19	202
The period	-	-	-	-	-	32,700
1932-33						
October 1-8	3	3	3.0	.154	.05	48
March	35	9	15.8	.810	.93	972
April	186	31	76.0	3.90	4.35	4,520
May	334	95	154	7.90	9.11	9,470
June	572	139	285	14.6	16.29	17,000
July	142	14	59.7	3.06	3.53	3,670
August	13	4	7.8	.400	.46	480
September	8	3	5.9	.303	.34	351

Monthly discharge of Snow Creek near Moravia, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1933-34						
October 1-7	-	-	7.9	0.405	0.11	109
March	60	-	37.3	1.91	2.20	2,290
April	377	70	193	9.90	11.05	11,460
May	236	120	186	9.54	11.00	11,430
June	92	20	55.6	2.85	3.18	3,310
July	16	3	8.3	.426	.49	508
August	3	1	1.6	.082	.09	101
September	4	1	1.7	.087	.10	101

Caribou Creek near Moravia, Idaho

Location.- Staff gage, lat. 48°40', long. 116°24', in NE¼ sec. 12, T. 61 N., R. 1 W., 600 feet upstream from highway bridge and 1½ miles northwest of Moravia. During 1928, 1930, and 1931 a staff gage in NE¼ sec. 11, T. 61 N., R. 1 W., 1 mile upstream was used.
Drainage area.- 14 square miles.
Records available.- May 1928 to September 1934.
Extremes.- Maximum discharge, 376 second-feet June 15, 1933 (gage height, 5.58 feet); practically no flow Aug. 22-26, 1934.
Remarks.- Several small diversions between upper and lower gage sites for irrigation and railroad water supply.

Monthly discharge of Caribou Creek near Moravia, Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1928				
May 9-31	234	94	164	7,480
June	85	20	45.8	2,730
July	26	6	13.5	830
August	6	4	4.5	277
September	4	3	3.3	196
The period	-	-	-	11,500
1929				
March 17-31	49	6	16.9	503
April	91	12	31.0	1,840
May	143	50	77.1	4,740
June	66	17	44.5	2,650
July	14	1	4.8	295
August	-	-	1.0	61
September	-	-	1.9	113
The period	-	-	-	10,200
1930				
March 22-31	38	14	25.0	496
April	113	41	74.5	4,430
May	85	47	61.3	3,770
June	83	17	34.8	2,070
July	17	4	8.7	535
August	4	2	2.9	178
September	3	2	2.1	125
The period	-	-	-	11,600
1931				
March 10-31	34	9	19.2	838
April	65	18	36.9	2,200
May	175	51	81.7	5,020
June	56	10	22.6	1,340
July	10	3	5.1	314
August	3	1	1.6	98
September	5	1	2.0	119
The period	-	-	-	9,930

Monthly discharge of Caribou Creek near Moravia, Idaho--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1932				
February 28-29	142	125	134	532
March	105	21	41.5	2,550
April	147	39	91.2	5,430
May	188	82	136	8,360
June	156	54	106	6,310
July	50	2	15.9	978
August	2	-	1.3	80
September	-	-	.4	24
The period	-	-	-	24,300
1932-33				
October 1-8	.6	.3	.41	6.5
March	24	7	13.3	818
April	165	20	61.7	3,670
May	172	64	110	6,760
June	376	105	164	9,760
July	112	10	40.0	2,460
August	9	1	3.8	234
September	5	1	2.8	167
1934				
March	49	-	29.2	1,800
April	246	60	128	7,600
May	142	81	113	6,980
June	62	11	38.2	2,280
July	12	.7	4.59	282
August	1	0	.34	21
September	2	.3	.66	39
The period	-	-	-	19,000

Myrtle Creek near Bonners Ferry, Idaho

Location.- Staff gage, lat. 48°42', long. 116°25', in sec. 23, T. 62 N., R. 1 W., 80 feet upstream from power plant of Bonners Ferry Light & Water Co. and 5½ miles west of Bonners Ferry.

Drainage area.- 37 square miles.

Records available.- May 1928 to September 1934.

Extremes.- Maximum discharge observed, 1,260 second-feet June 15, 1933 (gage height, 4.90 feet); minimum observed, 0.4 second-foot Sept. 6-22, 30, 1929; minimum gage height, 0.50 foot Sept. 8-22, 30, 1929.

Remarks.- Water supply for village of Bonners Ferry (probably not exceeding 1 second-foot) diverted above station. The Bonners Ferry municipal power plant diverted 461 acre-feet around gage during May and June 1928 and 281 acre-feet during August and September 1929.

Monthly discharge of Myrtle Creek near Bonners Ferry, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 8-31	780	249	551	-	-	26,200
June	283	90	152	-	-	9,040
July	98	18	46.7	-	-	2,870
August	20	11	13.7	-	-	842
September	10	8	8.7	-	-	518
The period	-	-	-	-	-	39,500
1929						
March 17-31	70	6.7	20.4	0.551	0.31	607
April	144	16	40.6	1.10	1.23	2,420
May	548	86	234	6.32	7.29	14,400
June	373	58	171	4.62	5.16	10,200
July	51	11	24.8	.670	.772	1,520
August	11	4.4	7.32	-	-	450
September	5.4	.4	1.09	-	-	64.9
The period	-	-	-	-	-	29,700

Monthly discharge of Myrtle Creek near Bonners Ferry, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930						
April	373	51	175	4.73	5.28	10,400
May	353	135	190	5.14	5.93	11,700
June	220	44	109	2.95	3.29	6,490
July	48	8.4	22.1	.597	.69	1,360
August	18	3.6	7.35	.199	.23	452
September	12	3.6	6.45	.174	.19	384
The period	-	-	-	-	-	30,800
1931						
March 11-31	58	16	31.1	.841	.66	1,300
April	373	29	68.6	1.85	2.06	4,080
May	566	160	288	7.78	8.97	17,700
June	196	38	77.2	2.09	2.33	4,590
July	32	6	15.0	.405	.47	922
August	6	3	4.4	.119	.14	271
September	10	3	5.0	.135	.15	298
The period	-	-	-	-	-	29,200
1932						
February 27-29	445	197	304	8.22	.92	1,810
March	140	39	67.3	1.82	2.10	4,140
April	172	76	128	3.46	3.86	7,620
May	570	140	344	9.30	10.7	21,200
June	525	119	326	8.81	9.83	19,400
July	117	15	48.7	1.32	1.52	2,990
August	15	6	8.9	.241	.28	547
September	8	4	5.3	.143	.16	315
The period						58,000
1932-33						
October 1-8	-	-	5.0	.135	.04	79
March	39	14	21.6	.584	.67	1,330
April	270	30	86.7	2.34	2.61	5,160
May	505	130	218	5.89	6.79	13,400
June	1,080	370	567	15.3	17.07	33,700
July	352	42	150	4.05	4.67	9,220
August	41	14	25.0	.676	.78	1,540
September	35	13	22.2	.600	.67	1,320
1934						
March	121	35	56.1	1.52	1.75	3,450
April	820	107	300	8.11	9.05	17,830
May	490	266	368	9.95	11.47	22,620
June	214	39	119	3.22	3.59	7,090
July	37	8	16.3	.441	.51	1,000
August	8	4	6.1	.165	.19	375
September	10	4	6.1	.165	.18	363
The period	-	-	-	-	-	52,730

Ball Creek near Bonners Ferry, Idaho

Location.- Staff gage, lat. 48°48', long. 116°25', in SW¼ sec. 24, T. 63 N., R. 1 W., three-quarters of a mile upstream from mouth and 8.2 miles northwest of Bonners Ferry.
Drainage area.- 27 square miles.
Records available.- May 1928 to September 1934.
Extremes.- Maximum discharge observed, 644 second-feet June 15, 1933 (gage height, 4.60 feet); minimum observed, 2 second-feet Sept. 10, 1934 (gage height, 1.82 feet).
Remarks.- Minor diversions above station for irrigation.

Monthly discharge of Ball Creek near Bonners Ferry, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 10-31	388	164	306	11.3	9.25	13,400
June	-	51	88.0	3.26	3.64	5,240
July	56	9	25.5	.944	1.09	1,570
August	10	6	7.2	.267	.31	443
September	6	4	4.8	.178	.20	286
The period	-	-	-	-	-	20,900

Monthly discharge of Ball Creek near Bonners Ferry, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928-29						
October 1-2	15	4	9.5	0.352	0.03	37
March 17-31	14	5	7.3	.270	.15	217
April	68	6	14.9	.552	.62	887
May	361	40	142	5.26	6.06	8,730
June	210	38	114	4.22	4.71	6,780
July	36	7	16.0	.593	.68	984
August	6	4	5.0	.185	.21	307
1930						
March 23-31	19	8	11.8	.437	.15	211
April	239	18	102	3.78	4.22	6,070
May	177	98	136	5.04	5.81	8,360
June	147	32	72.3	2.68	2.99	4,300
July	29	6	14.0	.519	.60	861
August	6	4	5.2	.193	.22	320
September	6	4	4.1	.152	.17	244
The period	-	-	-	-	-	20,400
1931						
March 13-31	15	6	9.2	.341	.24	347
April	59	8	19.8	.733	.82	1,180
May	314	96	173	6.41	7.39	10,600
June	145	26	56.4	2.09	2.33	3,360
July	23	6	12.7	.470	.54	781
August	6	4	4.8	.178	.21	295
September	13	4	5.4	.200	.22	321
The period	-	-	-	-	-	16,900
1932						
March 7-31	39	21	27.6	1.02	.95	1,370
April	95	40	71.0	2.63	2.93	4,260
May	344	80	217	8.04	9.27	13,300
June	329	123	218	8.07	9.00	13,000
July	110	11	37.2	1.38	1.59	2,290
August	10	6	7.1	.263	.30	437
September	6	4	4.6	.170	.19	274
The period	-	-	-	-	-	34,900
1932-33						
October 1-21	-	-	6.9	.256	.20	287
March 21-31	15	10	11.9	.441	.18	260
April	149	13	44.0	1.63	1.82	2,620
May	358	80	156	5.78	6.66	9,590
June	594	230	371	13.7	15.29	22,100
July	217	21	102	3.78	4.36	6,270
August	19	7	11.6	.430	.50	713
September	14	6	8.5	.315	.35	506
1934						
March	71	-	29.4	1.09	1.26	1,810
April	617	62	213	7.89	8.80	12,680
May	372	196	274	10.1	11.64	16,880
June	166	32	95.6	3.54	3.95	5,690
July	30	7	15.7	.581	.67	966
August	7	3	5.1	.189	.22	311
September	7	2	4.2	.156	.17	252
The period	-	-	-	-	-	38,590

Trout Creek near Copeland, Idaho

Location.- Staff gage, lat. 48°50', long. 116°26', in NE¼ sec. 10, T. 63 N., R. 1 W., 2½ miles upstream from mouth and 5⅝ miles southwest of Copeland.
Drainage area.- 20 square miles.
Records available.- May 1928 to September 1934.
Extremes.- Maximum discharge observed, 533 second-feet June 16, 1933; minimum discharge, 2 second-feet on several days in 1928, 1930, 1931, and 1934.
Remarks.- No diversions or regulation above station.

Monthly discharge of Trout Creek near Copeland, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 28-31	208	131	178	8.90	1.32	1,410
June	124	34	58.6	2.93	3.27	3,490
July	36	7	19.5	.975	1.12	1,200
August	6	4	4.5	.225	.26	277
September	4	2	2.6	.130	.14	155
The period	-	-	-	-	-	6,530
1929						
April 27-30	-	-	56.8	2.84	.42	451
May	270	39	118	5.90	6.80	7,260
June	131	29	70.0	3.50	3.90	4,170
July	26	6	13.2	.660	.76	812
August 1-3	-	-	5.0	.250	.03	30
The period	-	-	-	-	-	12,700
1930						
April	157	20	74.3	3.72	4.15	4,420
May	120	64	82.6	4.13	4.76	5,080
June	81	20	44.2	2.21	2.47	2,630
July	19	4	8.3	.415	.48	510
August	4	2	2.9	.145	.17	178
September	4	2	2.6	.130	.14	155
The period	-	-	-	-	-	13,000
1931						
March 30-31	-	-	6.0	.300	.02	24
April	60	6	18.0	.900	1.00	1,070
May	216	76	123	6.15	7.09	7,560
June	75	20	34.9	1.74	1.94	2,080
July	18	4	9.4	.470	.54	578
August	4	2	2.8	.140	.16	172
September	5	2	3.0	.150	.17	179
The period	-	-	-	-	-	11,700
1932						
March 7-31	23	13	17.6	.880	.82	873
April	89	23	55.9	2.80	3.12	3,330
May	280	70	184	9.20	10.6	11,300
June	240	50	147	7.35	8.20	8,750
July	46	7	21.1	1.06	1.22	1,300
August	7	4	4.8	.240	.28	295
September	4	3	3.3	.165	.18	196
The period	-	-	-	-	-	26,000
1933						
March 18-31	10	6	7.8	.39	.20	217
April	120	10	31.0	1.55	1.73	1,840
May	266	47	105	5.25	6.05	6,460
June	533	133	258	12.9	14.39	15,400
July	131	18	54.1	2.70	3.11	3,330
August	18	6	9.7	.485	.56	596
September	10	6	6.9	.345	.38	411
The period	-	-	-	-	-	28,300
1933-34						
October 1-24	-	-	7.5	.375	.34	359
March	42	-	23.6	1.18	1.36	1,450
April	371	40	138	6.90	7.70	8,240
May	211	129	166	8.30	9.57	10,220
June	137	30	66.6	3.33	3.72	3,960
July	28	6	15.0	.750	.86	920
August	6	2	3.4	.170	.20	212
September	3	2	2.4	.120	.13	143

Mission Creek at Copeland, Idaho

Location.- Staff gage, lat. 48°54', long. 116°23', in SE¼ sec. 18, T. 64 N., R. 1 E., 400 feet upstream from trestle on Kootenai Valley branch of Great Northern Railway and 0.8 mile south of Copeland.
Drainage area.- 31 square miles.
Records available.- May 1928 to September 1934.
Extremes.- Maximum discharge observed, 370 second-feet May 22, 1932; maximum gage height observed, 3.35 feet May 12, 1928; minimum discharge observed, 1 second-foot Aug. 26, 1934 (gage height, 0.50 foot).
Remarks.- Some flow naturally diverted from Mission Creek to Round Prairie Creek, in Moyie River Basin, at divide 5 miles above station. Quantity diverted is dependent upon collection of drift at point of diversion. No other diversion or regulation above station.

Monthly discharge of Mission Creek at Copeland, Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1928				
May 9-31	256	116	194	8,850
June	100	20	46.1	2,740
July	45	12	26.5	1,630
August	12	8	9.5	584
September	8	6	7.1	422
The period	-	-	-	14,200
1928-29				
October 1-3	11	9	10.3	59.5
March 17-31	16	4.5	7.22	215
April	117	7.7	29.1	1,730
May	179	68	110	6,760
June	100	34	75.6	4,500
July	29	6.0	13.5	830
August	6.0	3.3	4.24	261
September	7.7	3.1	3.69	220
1930				
March 30-31	-	-	22.5	89
April	128	25	80.9	4,810
May	96	41	61.7	3,790
June	85	21	39.8	2,370
July	20	6	12.1	744
August	6	4	4.9	301
September	6	4	4.3	256
The period	-	-	-	12,400
1930-31				
October 1-11	16	3	6.5	142
March 14-31	22	8	15.0	536
April	114	16	44.2	2,630
May	178	38	102	6,270
June	36	13	20.8	1,240
July	13	4	7.9	486
August	4	3	3.3	203
September	8	3	3.9	232
1932				
March	21	9	12.6	775
April	125	23	72.5	4,310
May	351	107	241	14,800
June	193	33	91.1	5,420
July	30	6	14.0	861
August	6	4	4.6	283
September	4	3	3.6	214
The period	-	-	-	26,700
1932-33				
October 1-21	-	-	4.1	171
March	20	-	8.4	516
April	244	21	70.1	4,170
May	249	104	174	10,700
June	216	55	128	7,620
July	49	10	20.6	1,270
August	10	3	6.3	387
September	8	3	5.0	298

Monthly discharge of Mission Creek at Copeland, Idaho--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1934				
March	78	-	32.8	2,020
April	281	67	158	9,400
May	176	45	97.9	6,020
June	42	13	23.9	1,420
July	13	4	7.6	466
August	5	2	3.4	206
September	6	2	3.4	202
The period	-	-	-	19,730

Rock Creek near Copeland, Idaho

Location.- Staff gage, lat. 48°51', long. 116°22', in NW¼ sec. 5, T. 63 N., R. 1 E., at trestle on Kootenai Valley branch of Great Northern Railway, 4.7 miles south of Copeland.
Drainage area.- 14.3 square miles.
Records available.- May 1928 to September 1934.
Extremes.- Maximum discharge observed, 86 second-feet Apr. 26, 1933 (gage height, 2.44 feet); minimum discharge, 0.1 second-foot July 20 to Sept. 7, 1931, Aug. 3, 5-10, 14, 15, 17-19, 1932, Aug. 23-25, 1934.
Remarks.- No diversions above station.

Monthly discharge of Rock Creek near Copeland, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 8-31	21	3.5	8.53	0.597	0.53	406
June	5.6	2.3	3.70	.259	.29	220
July	8.6	-	2.62	.183	.21	161
August 1-20	-	-	.39	.027	.02	15
The period	-	-	-	-	-	802
1929						
March 17-31	9.5	.7	3.41	.238	.13	101
April	37	1.9	11.8	.825	.92	702
May	16	.4	7.52	.526	.61	462
June	14	.7	5.66	.396	.44	337
July 1-16	-	-	.956	.067	.04	30
The period	-	-	-	-	-	1,630
1930						
March 23-31	26	10	15.3	1.07	.36	273
April	20	5	12.2	.853	.95	726
May	16	3	5.4	.378	.44	332
June	6	1	2.7	.189	.21	161
July	2	.4	.59	.048	.06	42
August	.5	.3	.39	.027	.03	24
September	.4	.3	.37	.026	.03	22
The period	-	-	-	-	-	1,580
1931						
March 14-31	19	2.7	8.54	.597	.40	305
April	20	8.4	11.6	.811	.90	690
May	7.8	.8	2.91	.203	.23	179
June	1.1	.4	.57	.040	.05	34
July	.5	.1	.24	.017	.02	15
August	.1	.1	.10	.0070	.008	6.1
September	.2	.1	.18	.013	.01	11
The period	-	-	-	-	-	1,240
1932						
April	62	20	32.8	2.29	2.56	1,950
May	29	4.4	13.7	.958	1.10	842
June	17	.8	4.21	.294	.33	251
July	1.7	.2	.49	.034	.04	30
August	.2	.1	.16	.011	.01	9.8
September	.3	.2	.21	.015	.02	12
The period	-	-	-	-	-	3,090

Monthly discharge of Rock Creek near Copeland, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1932-33						
October	-	-	0.33	0.023	0.03	20
November	-	-	2.00	.140	.16	119
December	-	-	1.85	.129	.15	114
January	-	-	1.89	.132	.15	116
February	-	-	1.25	.087	.09	69
March	31	-	8.0	.559	.64	492
April	86	24	42.7	2.99	3.34	2,540
May	41	6.1	19.5	1.36	1.57	1,200
June	5.3	1.3	2.91	.203	.23	173
July	-	-	.61	.043	.05	38
August	-	-	.20	.014	.02	12
September	-	-	.27	.019	.02	16
The year	86	-	6.78	.474	6.45	4,910
1933-34						
October 1-20	-	-	.28	.020	.01	11
November	-	-	-	-	-	-
December	-	-	-	-	-	-
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	54	-	21.0	1.47	1.69	1,290
April	72	9	25.7	1.80	2.01	1,530
May	11	1.5	6.07	.424	.49	373
June	1.8	.4	.82	.057	.06	49
July	.4	.2	.25	.017	.02	15
August	.2	.1	.19	.013	.01	12
September	.3	.2	.22	.015	.02	13

Brush Creek near Copeland, Idaho

Location.- Staff gage, lat. 48°53', long. 116°22'30", in SE¼ sec. 19, T. 64 N., R. 1 E., at wooden bridge on valley road paralleling Kootenai Valley branch of Great Northern Railway, 1.8 miles south of Copeland.
Drainage area.- 7.2 square miles.
Records available.- May 1928 to September 1934.
Extremes.- Maximum discharge observed, 68 second-feet Apr. 26, 1933; no flow at times.
Remarks.- Small diversion from Brush Lake about 2 miles above station for irrigation; some regulation at outlet of Brush Lake.

Monthly discharge of Brush Creek near Copeland, Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1928				
May 14-31	9.1	1.5	3.66	131
June	4.3	.5	2.01	120
July	2.4	-	.822	51
August 1-20	-	-	.060	2.4
The period	-	-	-	304
1929				
March 31	7.1	7.1	7.10	14
April	11.7	-	5.19	309
May	28	-	6.16	379
June	8.7	0	2.61	155
July 1-16	-	-	.75	24
The period	-	-	-	881
1930				
March 23-31	25	14	19.2	343
April	16	1	8.1	482
May	2	1	1.2	74
June	9	1	2.9	173
July	1	-	.33	20
August	-	-	.10	6.1
September	-	-	.10	6.0
The period	-	-	-	1,100
1931				
April 22-30	6.2	1.5	2.94	52
May	10	.1	2.75	169
June	.3	.1	.19	11
July	.1	0	.01	.6
August	0	0	0	0
September	0	0	0	0
The period	-	-	-	233

Monthly discharge of Brush Creek near Copeland, Idaho--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1932				
April	41	12	20.1	1,200
May	18	.9	8.5	523
June	7.2	.2	2.2	131
July	0.1	0	.02	1.2
August	0.1	0	.03	1.8
The period	-	-	-	1,860
1932-33				
October	-	-	.07	4.3
November	-	-	.21	12
December	-	-	.34	21
January	-	-	.87	53
February	-	-	.68	38
March	36	-	7.08	435
April	68	24	38.2	2,270
May	28	4.1	15.5	953
June	-	-	3.02	180
July	-	-	.20	12
August	-	-	.20	12
September	-	-	.15	8.9
The year	68	-	5.53	4,000
1933-34				
October 1-12	-	-	.10	2.4
March	15	-	7.50	461
April	33	5.8	13.4	796
May	13	.04	3.60	222
June	.2	.03	.081	4.8
July	.09	.00	.029	1.8
August	.07	.00	.016	1.0
September	.01	.00	.006	.4

Parker Creek near Copeland, Idaho

Location.- Staff gage, lat. 48°55', long. 116°29', in SW¼ sec. 8, T. 64 N., R. 1 W., at U. S. Forest Service bridge 4¼ miles west of Copeland.
Drainage area.- 16.5 square miles.
Records available.- May 1928 to September 1934.
Extremes.- Maximum discharge, 400 second-feet (estimated) June 15, 1933; minimum, 1 second-foot Sept 4-6, 1930.
Remarks.- No diversions above station.

Monthly discharge of Parker Creek near Copeland, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 12-31	-	-	144	8.73	6.49	5,710
June	-	24	54.7	3.32	3.70	3,250
July	39	-	20.2	1.22	1.41	1,240
August 1-10	-	-	5.6	.339	.13	111
The period	-	-	-	-	-	10,300
1929						
April	-	-	16.1	.976	1.09	958
May	-	-	78.9	4.78	5.51	4,850
June	90	20	55.6	3.37	3.76	3,310
July	10	4	9.26	.561	.65	569
August	3	-	2.2	.133	.15	135
September	-	-	2.0	.121	.14	119
The period	-	-	-	-	-	9,940
1930						
April	133	17	77.3	4.68	5.22	4,600
May	83	42	58.7	3.56	4.10	3,610
June	95	22	54.8	3.32	3.70	3,260
July	23	5	11.5	.697	.80	707
August	7	3	4.0	.242	.28	246
September	8	1	3.4	.206	.23	202
The period	-	-	-	-	-	12,600

Monthly discharge of Parker Creek near Copeland, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1931						
March 16-31	15	6	8.9	0.539	0.32	282
April	54	7	20.1	1.22	1.36	1,200
May	165	60	94.0	5.70	6.57	5,780
June	60	12	27.1	1.64	1.83	1,610
July	12	5	7.5	.455	.52	461
August	5	2	3.3	.200	.23	203
September	5	2	2.9	.176	.20	173
The period	-	-	-	-	-	9,710
1932						
March 14-31	19	13	15.4	.933	.62	550
April	85	23	51.5	3.12	3.48	3,060
May	170	58	114	6.91	7.97	7,010
June	140	48	93.7	5.68	6.34	5,580
July	46	-	16.7	1.01	1.16	1,030
August	-	-	4.7	.285	.33	289
September	-	-	3.0	.182	.20	179
The period	-	-	-	-	-	17,700
1932-33						
October 1-21	-	-	4.0	.242	.19	167
March 24-31	-	7	8.5	.515	.15	135
April	-	-	32.3	1.96	2.19	1,920
May	-	-	101	6.12	7.06	6,210
June	400	-	180	10.9	12.16	10,700
July	107	13	49.8	3.02	3.48	3,060
August	12	-	7.4	.448	.52	455
September	-	3	4.5	.273	.30	268
1933-34						
October 1-19	-	-	6.3	.382	.27	236
March	32	-	14.8	.897	1.03	908
April	-	-	99.9	6.05	6.75	5,940
May	219	-	131	7.94	9.15	8,050
June	-	-	61.7	3.74	4.17	3,670
July	-	-	13.4	.812	.94	825
August	-	-	3.5	.212	.24	214
September	-	-	3.3	.200	.22	198

Long Canyon Creek near Port Hill, Idaho

Location.- Water-stage recorder, lat. 48°57', long. 116°32', in NW¼ sec. 36, T. 65 N., R. 2 W., on U. S. Forest Service bridge at mouth of canyon, 4 miles southwest of Port Hill.
Drainage area.- 29 square miles.
Records available.- May 1928 to September 1938.
Extremes.- Maximum daily discharge, 950 second-feet (estimated) June 15, 1933; maximum gage height, 6.55 feet, drift jam, June 14, 15, 1933; minimum discharge, 3 second-feet Nov. 1-3, 28, Dec. 4-10, 1936, Jan. 6-8, 1937; minimum gage height, 0.91 foot Nov. 8, 1930.
Remarks.- No diversions above gage.

Monthly discharge of Long Canyon Creek near Port Hill, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
May 18-31, 1928	448	-	340	11.7	6.09	9,440
June	-	79	134	4.62	5.16	7,970
July	87	20	45.6	1.57	1.81	2,800
August	19	8	11.8	.407	.47	726
September 1-6	10	8	8.67	.209	.07	103
The period	-	-	-	-	-	21,000
April 1929	-	7	28.6	.986	1.10	1,700
May	580	-	195	6.72	7.75	12,000
June	258	66	149	5.14	5.74	8,870
July	65	14	31.5	1.09	1.26	1,940
August	13	-	9.65	.333	.38	593
September	-	-	6.10	.210	.23	363
The period	-	-	-	-	-	25,500

Monthly discharge of Long Canyon Creek near Port Hill, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
March 20-31, 1930	30	11	17.8	0.614	0.27	424
April	328	26	151	5.21	5.81	8,980
May	238	115	166	5.72	6.60	10,200
June	166	50	102	3.52	3.93	6,070
July	51	12	24.7	.852	.98	1,520
August	12	6.4	8.71	.300	.35	536
September	11	5.9	6.80	.234	.26	405
The period	-	-	-	-	-	28,100
October 1930	16	6	7.6	.262	.30	467
November 1-15	13	6	7.3	.252	.14	217
February 26-28, 1931	8	8	8.0	.276	.03	48
March	25	8	12.4	.428	.49	762
April	97	13	32.2	1.11	1.24	1,920
May	347	128	222	7.66	8.83	13,600
June	187	48	91.7	3.16	3.53	5,460
July	45	12	23.6	.814	.94	1,450
August	12	7	8.5	.293	.34	523
September	16	6	8.3	.286	.32	494
October 1931	-	7	9.3	.321	.37	572
November 1-20	-	-	13.7	.472	.35	543
March 2-31, 1932	59	31	38.8	1.34	1.50	2,310
April	127	69	100	3.45	3.85	5,950
May	436	116	284	9.79	11.29	17,500
June	327	109	233	8.03	.96	13,900
July	98	18	44.5	1.53	1 3	2,740
August	17	8	11.6	.400	.4	713
September	10	6	7.1	.245	.27	422
October 1932	26	6	10.7	.369	.42	658
November	74	7	24.9	.859	.96	1,480
December 1-8	96	30	65.6	2.26	.6	1,040
March 16-31, 1933	19	12	13.9	.479	.29	441
April	186	19	54.2	1.87	2.09	3,230
May	466	118	218	7.52	8.67	13,400
June	950	250	459	15.8	17.63	27,300
July	229	37	109	3.76	4.34	6,700
August	36	13	21.8	.752	.87	1,340
September	31	11	16.0	.552	.62	952
October 1933	133	15	34.8	1.20	1.38	2,1
November	86	42	53.1	1.83	2.04	3,160
December	157	33	57.0	1.97	2.27	3,500
March 1934	58	24	34.2	1.18	1.36	2,100
April	695	55	246	8.48	9.46	14,670
May	486	220	330	11.4	13.14	20,290
June	185	55	120	4.14	4.62	7,130
July	51	14	27.5	.948	1.09	1,690
August	14	8	9.8	.338	.39	605
September	10	7	8.0	.276	.31	474
October 1934	26	7	10.6	.366	.42	653
November	134	16	65.6	2.26	2.52	3,900
December	40	-	25.6	.883	1.02	1,570
January 1935	-	-	28.5	.983	1.13	1,750
February	-	-	31.7	1.09	1.14	1,760
March	33	19	23.3	.803	.93	1,430
April	79	17	37.7	1.30	1.45	2,240
May	595	77	237	8.17	9.42	14,560
June	445	101	228	7.86	8.77	13,560
July	121	23	54.0	1.86	2.14	3,320
August	22	9	13.7	.472	.54	841
September	10	5	7.0	.241	.27	415
Water year 1934-35	595	5	63.6	2.19	29.75	46,000
October 1935	18	5	7.1	.245	.28	436
November	8	5	6.0	.207	.23	355
December	6	5	5.1	.176	.20	311
Calendar year 1935	595	5	56.6	1.95	26.50	40,980
January 1936	5	4	4.9	.169	.19	300
February	-	-	4.0	.138	.15	230
March	9	4	5.8	.200	.23	355
April	204	5	84.7	2.92	3.26	5,040
May	420	143	245	8.45	9.74	15,060
June	138	27	66.3	2.29	2.56	3,950
July	28	8	15.4	.531	.61	944
August	7	4	5.6	.193	.22	347
September	11	4	5.7	.197	.22	341
Water year 1935-36	420	-	38.1	1.31	17.89	27,670

Monthly discharge of Long Canyon Creek near Port Hill, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
October 1936	6	4	4.87	0.168	0.19	300
November	5	3	4.27	.147	.16	254
December	-	-	6.10	.210	.24	375
Calendar year 1936	420	-	37.9	1.31	17.77	27,500
January 1937	-	-	4.29	.148	.17	264
February	-	-	4.00	.138	.14	222
March	8	4	5.32	.183	.21	327
April	46	8	22.4	.772	.86	1,330
May	385	39	182	6.28	7.24	11,170
June	426	133	262	9.03	10.08	15,570
July	114	19	45.4	1.57	1.81	2,790
August	25	9	14.2	.490	.56	875
September	24	8	9.90	.341	.38	589
Water year 1936-37	426	-	47.1	1.62	22.04	34,070
October 1937	51	8	15.9	.548	.63	980
November	50	22	35.7	1.23	1.37	2,120
December	40	12	24.4	.841	.97	1,500
Calendar year 1937	426	-	52.1	1.80	24.42	37,740
January 1938	30	12	20.6	.710	.82	1,270
February	20	12	14.2	.490	.51	791
March	34	13	19.2	.662	.76	1,180
April	363	18	111	3.83	4.27	6,630
May	782	140	327	11.3	13.03	20,090
June	460	139	276	9.52	10.62	16,450
July	128	17	54.6	1.88	2.17	3,360
August	16	7	11.0	.379	.44	676
September	9	6	6.9	.238	.27	413
Water year 1937-38	782	6	76.6	2.64	35.86	55,460

Smith Creek near Port Hill, Idaho

Location.- Water-stage recorden, lat. 48°57'40", long. 116°33'20", in NE¼ sec. 26, T. 65 N., R. 2 W., at U. S. Forest Service bridge 1 mile south of Smith Creek ranger station and 4 miles southwest of Port Hill.
Drainage area.- 70 square miles.
Records available.- May 1928 to September 1938.
Extremes.- Maximum discharge, 3,060 second-feet June 14, 1933 (gage height, 7.15 feet); minimum, 4 second-feet Dec. 4-10, 1936; minimum gage height, 0.78 foot Sept. 4, 1931.
Remarks.- No diversions or regulation above gage.

Monthly discharge of Smith Creek near Port Hill, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 12-31	1,340	790	1,170	16.7	12.42	46,400
June	613	-	336	4.80	5.36	20,000
July	257	41	118	1.69	1.95	7,260
August	38	13	21.9	.313	.36	1,350
September 1-8	14	9.5	11.4	.163	.05	181
The period	-	-	-	-	-	75,200
1929						
March 16-31	-	-	39.9	.570	.34	1,270
April	464	37	104	1.49	1.66	6,190
May	1,240	-	606	8.66	9.98	37,300
June	771	116	406	5.80	6.47	24,200
July	107	17	47.0	.671	.77	2,890
August	17	6.5	10.5	.150	.17	646
September	-	5.5	6.82	.097	.11	406
The period	-	-	-	-	-	72,900
1930						
March 21-31	92	32	52.6	.751	.31	1,150
April	1,040	90	489	6.99	7.80	29,100
May	799	302	458	6.54	7.54	28,200
June	538	83	201	2.87	3.20	12,000
July	91	16	40.9	.584	.67	2,510
August	15	6.8	10.4	.149	.17	640
September	17	6.4	8.36	.119	.13	497
The period	-	-	-	-	-	74,100

Monthly discharge of Smith Creek near Port Hill, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930-31						
October	52	8	16.9	0.241	0.28	1,040
November	40	-	18.5	.264	.29	1,100
December	-	-	14.7	.210	.24	904
January	-	-	25.0	.357	.41	1,540
February	-	-	35.6	.509	.53	1,980
March	105	34	52.6	.751	.87	3,230
April	557	64	168	2.40	2.68	10,000
May	1,340	403	732	10.5	12.1	45,000
June	505	122	225	3.21	3.58	13,400
July	111	18	49.4	.706	.81	3,040
August	19	6	10.6	.151	.17	652
September	40	6	12.5	.179	.20	744
The year	1,340	6	114	1.63	22.16	82,600
1931-32						
October	50	9	16.3	.233	.27	1,000
November	90	-	35.5	.507	.57	2,110
December	-	-	24.4	.349	.40	1,500
January	-	-	18.2	.260	.30	1,120
February	-	-	139	1.99	2.15	8,000
March	300	95	134	1.91	2.20	8,240
April	458	142	288	4.11	4.59	17,100
May	1,380	402	881	12.6	14.53	54,200
June	1,090	261	706	10.1	11.27	42,000
July	271	28	108	1.54	1.78	6,640
August	46	11	19.8	.283	.33	1,220
September	19	8	10.8	.156	.17	649
The year	1,380	8	198	2.83	38.56	144,000
1932-33						
October	124	8	35.9	.513	.59	2,210
November	350	34	124	1.77	1.98	7,380
December 1-8	400	130	264	3.77	1.12	4,190
March 16-31	-	-	38.1	.544	.32	1,210
April	620	-	166	2.37	2.64	9,880
May	1,380	314	644	9.20	10.61	39,600
June	2,200	645	1,110	15.9	17.74	66,000
July	670	61	289	4.13	4.76	17,800
August	67	14	32.0	.457	.53	1,970
September	117	13	34.3	.490	.55	2,040
1933-34						
October	420	33	118	1.69	1.95	7,260
November	341	115	163	2.33	2.60	9,680
December 1-15	166	105	121	1.73	.96	3,610
March	262	70	108	1.54	1.78	6,640
April	1,750	206	746	10.7	11.94	44,370
May	1,260	615	902	12.9	14.87	55,450
June	502	88	279	3.99	4.45	16,630
July	85	18	43.7	.624	.72	2,690
August	20	7	11.2	.160	.18	688
September	20	6	9.87	.141	.16	587
1934-35						
October	72	8	22.2	.317	.37	1,360
November	580	59	220	3.14	3.50	13,090
December	109	-	74.6	1.07	1.23	4,590
January	-	-	76.2	1.09	1.26	4,680
February	-	-	80.5	1.15	1.20	4,470
March	100	48	61.7	.881	1.02	3,790
April	278	48	118	1.69	1.89	7,010
May	1,370	267	727	10.4	11.99	44,730
June	1,200	306	682	9.74	10.87	40,610
July	451	48	160	2.29	2.64	9,830
August	44	14	25.2	.360	.42	1,550
September	22	9	11.5	.164	.18	686
The year	1,370	8	188	2.69	36.57	136,400
1935-36						
October	65	8	17.9	.256	.30	1,100
November	22	13	14.6	.209	.23	867
December	13	11	11.6	.166	.19	714
January	14	10	12.2	.174	.20	752
February	-	-	8.2	.117	.13	470
March	25	10	18.0	.257	.30	1,100
April	830	18	333	4.76	5.31	19,800
May	1,330	443	804	11.5	13.3	49,410
June	431	55	184	2.63	2.93	10,920
July	66	12	29.7	.424	.49	1,820
August	12	6	8.5	.121	.14	526
September	18	6	10.3	.147	.16	615
The year	1,330	6	121	1.73	23.68	88,090

Monthly discharge of Smith Creek near Port Hill, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1936-37						
October	11	8	8.35	0.119	0.14	514
November	-	-	7.93	.113	.13	472
December	-	-	10.7	.153	.18	657
January	-	-	8.61	.123	.14	530
February	-	-	8.00	.114	.12	444
March	20	8	13.5	.193	.22	833
April	116	20	62.4	.891	.99	3,710
May	1,160	138	623	8.90	10.26	38,280
June	1,060	262	625	8.93	9.96	37,220
July	232	32	86.5	1.24	1.43	5,320
August	68	17	28:0	.400	.46	1,720
September	64	14	20.8	.297	.33	1,240
The year	1,160	-	126	1.80	24.36	90,940
1937-38						
October	193	22	55.2	.789	.91	3,390
November	249	62	144	2.06	2.30	8,580
December	180	40	83.3	1.19	1.37	5,120
January	136	35	72.7	1.04	1.20	4,470
February	60	33	41.4	.591	.62	2,300
March	120	42	65.1	.930	1.07	4,000
April	1,440	58	369	5.27	5.88	21,930
May	1,790	359	906	12.9	14.87	55,680
June	1,400	300	810	11.6	12.94	48,200
July	266	31	118	1.69	1.95	7,260
August	30	11	19.4	.277	.32	1,190
September	20	8	10.4	.149	.17	617
The year	1,790	8	225	3.21	43.60	162,700

Yearly discharge of Smith Creek near Port Hill, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1931	114	1.63	22.16	82,600	116	1.66	22.59	84,200
1932	198	2.83	38.56	144,000	-	-	-	-
1935	188	2.69	36.57	136,400	166	2.37	32.19	120,000
1936	121	1.73	23.68	88,090	120	1.71	23.41	87,060
1937	126	1.80	24.36	90,940	147	2.10	28.49	106,400
1938	225	3.21	43.60	162,700	211	3.01	40.90	152,700

Boundary Creek near Port Hill, Idaho
(International gaging station)

Location.- Water-stage recorder, lat. 48°59'50", long. 116°34'05", in SW¼ sec. 11, T. 65 N., R. 2 W., 140 feet below bridge at mouth of canyon, 0.2 mile south of international boundary, and 3 miles west of Port Hill.
Drainage area.- 97 square miles.
Records available.- May 1928 to September 1938.
Extremes.- Maximum discharge, 2,400 second-feet June 15, 1933 (gage height, 5.22 feet); minimum, 5 second-feet sometime during period Nov. 10 to Dec. 3, 1936 (gage height, 0.27 feet).
Remarks.- No diversions above gage. This is one of the international gaging stations maintained by the United States under agreement with Canada.

Monthly discharge of Boundary Creek near Port Hill, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928						
May 17-31	1,600	1,240	1,400	14.4	8.04	41,700
June	-	181	507	5.23	5.84	30,200
July	234	53	139	1.43	1.65	8,550
August	50	28	34.8	.359	.41	2,140
September 1-8	31	21	27.5	.283	.08	436
The period	-	-	-	-	-	83,000

Monthly discharge of Boundary Creek near Port Hill, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929						
April 18-30	295	32	137	1.41	0.68	3,530
May	1,080	196	542	5.59	6.44	33,300
June	711	127	398	4.10	4.57	23,700
July	116	25	56.4	.581	.67	3,470
August	28	15	19.6	.202	.23	1,210
September	20	14	15.4	.159	.18	916
The period	-	-	-	-	-	66,100
1929-30						
October	22	11	16.4	.169	.19	1,010
November 1-4	16	14	15.2	.157	.02	121
March 21-31	65	23	36.6	.377	.15	799
April	799	73	381	3.93	4.38	22,700
May	671	324	450	4.64	5.35	27,700
June	473	92	202	2.08	2.32	12,000
July	104	22	46.0	.474	.55	2,830
August	26	14	18.1	.187	.22	1,110
September	28	12	15.3	.158	.18	910
1930-31						
October	56	14	20.2	.208	.24	1,240
November	41	15	20.0	.206	.23	1,190
December	20	-	16.4	.169	.19	1,010
January	-	-	22.8	.235	.27	1,400
February	-	-	20.8	.214	.22	1,160
March	65	22	34.3	.354	.41	2,110
April	487	46	147	1.52	1.70	8,750
May	1,120	412	644	6.64	7.66	39,600
June	412	110	200	2.06	2.30	11,900
July	125	26	61.3	.632	.73	3,770
August	33	13	18.7	.193	.22	1,150
September	37	13	18.9	.195	.22	1,120
The year	1,120	13	103	1.06	14.39	74,400
1931-32						
October	57	14	21.1	.218	.25	1,300
November	77	-	34.5	.356	.40	2,050
December	-	-	27.6	.285	.33	1,700
January	-	-	19.8	.204	.24	1,220
February	-	-	140	1.44	1.55	8,050
March	250	-	97.0	1.00	1.15	5,960
April	515	140	328	3.38	3.77	19,500
May	1,550	510	1,020	10.5	12.11	62,700
June	1,200	250	754	7.77	8.67	44,900
July	240	35	96.6	.996	1.15	5,940
August	48	21	27.6	.285	.33	1,700
September	24	15	17.3	.178	.20	1,030
The year	1,550	14	215	2.22	30.15	156,000
1932-33						
October	94	14	33.2	.342	.39	2,040
November	384	18	78.4	.808	.90	4,670
December	310	-	95.6	.986	1.14	5,880
January	-	-	56.1	.578	.67	3,450
February	-	-	37.3	.385	.40	2,070
March	55	-	39.0	.402	.46	2,400
April	760	59	198	2.04	2.28	11,800
May	1,630	414	783	8.07	9.30	48,100
June	2,080	689	1,200	12.4	13.83	71,400
July	634	58	240	2.47	2.85	14,800
August	58	25	36.1	.372	.43	2,220
September	90	24	38.2	.394	.44	2,270
The year	2,080	14	237	2.44	33.09	171,000
1933-34						
October	445	30	91.1	.939	1.08	5,600
November	189	97	128	1.32	1.47	7,610
December	481	86	154	1.59	1.83	9,480
January	210	84	128	1.32	1.52	7,870
February	110	70	89.6	.924	.96	4,980
March	257	78	120	1.24	1.43	7,400
April	1,710	218	793	8.18	9.13	47,200
May	1,140	528	851	8.77	10.11	52,300
June	433	70	219	2.26	2.52	13,000
July	77	23	39.5	.407	.47	2,430
August	24	15	18.5	.191	.22	1,140
September	28	14	17.9	.185	.21	1,060
The year	1,710	14	221	2.28	30.95	160,100

Monthly discharge of Boundary Creek near Port Hill, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1934-35						
October	62	17	26.2	0.270	0.31	1,610
November	288	43	118	1.22	1.36	7,030
December	80	-	51.7	.533	.61	3,180
January	-	-	72.8	.751	.87	4,480
February	120	59	83.4	.860	.90	4,630
March	92	48	63.8	.658	.76	3,930
April	327	50	137	1.41	1.57	8,140
May	1,400	316	769	7.93	9.14	47,300
June	1,200	298	700	7.22	8.06	41,630
July	413	58	152	1.57	1.81	9,370
August	54	25	36.2	.373	.43	2,230
September	33	18	21.8	.225	.25	1,300
The year	1,400	17	186	1.92	26.07	134,800
1935-36						
October	74	16	28.5	.294	.34	1,750
November	32	20	24.3	.251	.28	1,450
December	23	18	20.4	.210	.24	1,250
January	22	20	20.9	.215	.25	1,290
February	-	-	18.2	.188	.20	1,050
March	35	19	23.7	.244	.28	1,460
April	905	18	339	3.49	3.89	20,140
May	1,370	474	823	8.48	9.78	50,590
June	394	67	193	1.99	2.22	11,490
July	71	20	41.6	.429	.49	2,560
August	21	13	16.3	.168	.19	1,000
September	35	14	18.6	.192	.21	1,110
The year	1,370	13	131	1.35	18.37	95,140
1936-37						
October	18	12	14.2	.146	.17	871
November	16	9	14.1	.145	.16	839
December	-	-	19.0	.196	.23	1,170
January	-	-	14.7	.152	.18	904
February	-	-	13.0	.134	.14	722
March	20	13	15.1	.156	.18	930
April	126	19	62.3	.642	.72	3,710
May	1,100	160	604	6.23	7.18	37,150
June	1,020	283	601	6.20	6.92	35,750
July	247	40	98.8	1.02	1.18	6,080
August	63	22	31.5	.325	.37	1,930
September	50	17	22.8	.235	.26	1,360
The year	1,100	9	126	1.30	17.69	91,320
1937-38						
October	124	22	40.8	.421	.49	2,510
November	118	41	80.0	.825	.92	4,760
December	100	30	55.5	.572	.66	3,410
January	74	30	51.0	.526	.61	3,130
February	48	30	36.0	.371	.39	2,000
March	100	42	64.1	.661	.76	3,940
April	960	58	350	3.61	4.03	20,860
May	1,920	460	991	10.2	11.76	60,940
June	1,280	297	794	8.19	9.14	47,240
July	266	35	113	1.16	1.34	6,970
August	34	18	26.3	.271	.31	1,610
September	28	14	17.8	.184	.21	1,060
The year	1,920	14	219	2.26	30.62	158,400

Yearly discharge of Boundary Creek near Port Hill, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1931	103	1.06	14.39	74,400	105	1.08	14.71	76,000
1932	215	2.22	30.15	156,000	226	2.33	31.60	164,000
1933	237	2.44	33.09	171,000	251	2.59	35.04	181,000
1934	221	2.28	30.95	160,100	206	2.12	28.85	149,200
1935	186	1.92	26.07	134,800	176	1.81	24.65	127,500
1936	131	1.35	18.37	95,140	129	1.33	18.07	93,570
1937	126	1.30	17.69	91,320	137	1.41	19.20	99,220
1938	219	2.26	30.62	158,400	213	2.20	29.78	154,100

PEND OREILLE RIVER BASIN

Clark Fork above Missoula, Mont.

Location.- Water-stage recorder, lat. 46°53', long. 113°56', in NW¼ sec. 19, T. 13 N., R. 18 W., 3 miles downstream from Blackfoot River and 3 miles east of Missoula.
Records available.- March 1929 to September 1938.
Extremes.- Maximum discharge, 21,600 second-feet June 2, 1933 (gage height, 9.90 feet); minimum, 86 second-feet Jan. 8, 1930 (gage height, 0.52 foot), ice jammed above gage.
Remarks.- Slight regulation from operation of power plant near Bonner. Several small diversions above station for irrigation.

Monthly discharge of Clark Fork above Missoula, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1929				
March 16-31	4,670	1,630	2,280	72,400
April	3,770	1,760	2,580	154,000
May	9,730	3,030	5,780	355,000
June	9,730	3,860	7,580	451,000
July	3,770	1,320	2,230	137,000
August	1,950	834	1,050	64,600
September	1,290	808	969	57,700
The period	-	-	-	1,290,000
1929-30				
October	1,570	1,190	1,310	80,600
November	1,570	897	1,310	78,000
December	1,330	716	951	58,500
January	843	224	679	41,800
February	3,620	1,010	2,010	112,000
March	2,680	1,060	1,790	111,000
April	8,390	2,380	5,010	298,000
May	8,390	5,000	6,280	386,000
June	7,100	2,240	4,030	240,000
July	2,100	2,120	1,580	97,200
August	1,330	875	1,130	69,500
September	1,720	674	1,200	71,400
The year	8,390	224	2,270	1,640,000
1930-31				
October	2,170	1,140	1,520	93,500
November	1,600	762	1,360	80,900
December	1,370	818	1,200	73,800
January	1,840	1,090	1,250	76,900
February	1,350	1,110	1,220	67,800
March	1,720	1,080	1,400	86,100
April	1,910	1,480	1,730	103,000
May	3,700	1,910	2,960	182,000
June	3,210	1,290	2,160	129,000
July	1,300	664	868	53,400
August	1,040	368	746	45,900
September	1,160	525	781	46,500
The year	3,700	368	1,430	†1,039,000
1931-32				
October	1,030	859	936	57,600
November	1,070	720	a985	58,600
December	-	-	e860	52,900
January	-	-	e810	49,800
February	-	-	e940	54,100
March	2,350	1,260	a1,400	86,100
April	3,090	1,740	2,480	148,000
May	12,200	2,720	7,370	453,000
June	10,000	3,400	6,600	393,000
July	3,400	1,180	2,100	129,000
August	1,380	942	1,070	65,800
September	1,140	762	915	54,400
The year	12,200	-	2,210	1,602,000

† Figure previously published in error.
a Partly estimated.
e Estimated.

Monthly discharge of Clark Fork above Missoula, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1932-33				
October	1,510	680	1,130	69,500
November	1,500	1,200	1,340	79,500
December	1,440	469	940	57,800
January	-	-	910	56,000
February	-	-	871	48,400
March	1,880	1,130	1,370	84,200
April	5,540	1,330	2,270	135,000
May	14,100	3,820	6,690	411,000
June	19,400	5,170	13,800	821,000
July	4,940	1,620	2,750	169,000
August	1,740	868	1,280	78,700
September	1,380	1,180	1,290	76,800
The year	19,400	-	2,880	2,087,000
1933-34				
October	2,700	1,110	1,557	95,760
November	3,280	1,740	2,373	141,200
December	3,460	1,500	2,241	137,800
January	3,460	1,940	2,527	155,400
February	2,700	1,500	2,253	125,100
March	4,940	2,080	3,071	188,800
April	14,100	4,720	10,080	599,600
May	12,000	6,180	8,535	524,800
June	7,790	2,340	4,276	254,400
July	2,480	886	1,528	93,960
August	1,140	760	921	56,610
September	1,560	697	875	52,060
The year	14,100	697	3,350	2,425,000
1934-35				
October	1,560	1,040	1,235	75,930
November	1,540	1,260	1,385	82,430
December	1,400	877	1,218	74,870
January	1,540	670	1,122	68,960
February	1,540	950	1,162	64,560
March	1,600	940	1,222	75,150
April	3,060	1,080	1,903	113,200
May	9,440	2,960	5,098	313,400
June	7,920	2,780	5,480	326,100
July	3,150	904	1,924	118,300
August	1,160	670	895	55,060
September	778	654	699	41,590
The year	9,440	654	1,947	1,410,000
1935-36				
October	1,100	590	854	52,500
November	1,230	715	1,098	65,320
December	1,340	534	933	57,370
January	1,100	590	905	55,650
February	1,520	520	837	48,170
March	2,130	848	1,517	93,300
April	8,060	776	4,158	247,400
May	12,300	5,980	8,186	503,300
June	8,330	2,190	4,907	292,000
July	2,120	1,020	1,447	89,000
August	1,310	474	9,261	56,940
September	1,520	839	1,020	60,710
The year	12,300	474	2,234	1,622,000
1936-37				
October	1,260	793	1,061	65,220
November	1,320	767	1,067	63,500
December	1,130	548	990	60,900
January	920	400	606	37,250
February	1,120	604	850	47,220
March	1,280	724	1,037	63,770
April	2,000	1,200	1,615	96,120
May	4,830	1,930	3,936	242,000
June	3,920	1,830	3,211	191,100
July	1,890	920	1,286	79,080
August	1,110	575	810	49,820
September	1,240	340	653	38,870
The year	4,830	340	1,429	1,035,000

Monthly discharge of Clark Fork above Missoula, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1937-38				
October	1,000	843	921	56,600
November	990	789	882	52,470
December	1,650	500	935	57,490
January	1,070	350	830	51,010
February	1,180	500	949	52,720
March	1,890	910	1,257	77,320
April	4,210	1,120	2,641	157,100
May	19,100	3,920	7,940	488,200
June	15,900	6,810	9,450	562,300
July	9,060	2,020	4,784	294,100
August	2,100	861	1,458	89,640
September	1,250	1,030	1,121	66,680
The year	19,100	350	2,770	2,006,000

Yearly discharge of Clark Fork above Missoula, Mont.

Year	Year ending Sept. 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1930	2,270	1,640,000	2,310	1,675,000
1931	1,430	1,039,000	1,330	959,700
1932	‡2,210	1,602,000	2,260	1,640,000
1933	‡2,880	2,087,000	3,110	2,255,000
1934	3,350	2,425,000	3,155	2,284,000
1935	1,947	1,410,000	1,867	1,352,000
1936	2,234	1,622,000	2,254	1,636,000
1937	1,429	1,035,000	1,398	1,012,000
1938	2,770	2,006,000		

Clark Fork at Missoula, Mont.

Location.- Wire-weight gage, lat. 46°52', long. 114°00', in NE¼ sec. 21, T. 13 N., R. 19 W., on bridge of Bitterroot Valley branch of Northern Pacific Railway in Missoula.
Records available.- July 1898 to June 1907.
Remarks.- Several small diversions above station.

Monthly discharge of Clark Fork at Missoula, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1898						
July	7,300	3,070	a4,668	0.78	0.90	287,000
August	2,970	1,740	2,120	.36	.41	130,000
September	1,935	1,680	1,808	.30	.33	108,000
The year	-	-	-	-	-	-
1898-99						
October	2,000	1,805	1,841	.31	.36	113,000
November	1,870	1,620	1,762	.30	.33	105,000
December	1,680	1,680	a1,680	.28	.32	103,000
June	35,800	18,700	25,858	4.34	4.84	1,540,000
July	22,400	4,900	11,208	1.88	2.17	689,000
August	4,900	2,650	3,592	.60	.69	221,000
September	2,725	1,950	2,287	.38	.42	136,000
The year	-	-	-	-	-	-

a Partly estimated.

Monthly discharge of Clark Fork at Missoula, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1899-1900						
October	2,500	1,900	2,153	0.36	0.42	132,000
November	2,240	1,850	2,138	.36	.40	127,000
December	2,180	1,750	a1,946	.33	.38	120,000
January	1,950	730	a1,459	.24	.28	89.700
March	6,960	980	2,687	.45	.52	165,000
April	6,450	2,512	4,877	.82	.92	290,000
May	23,600	6,600	12,812	2.15	2.48	788,000
June	9,400	3,500	6,361	1.07	1.19	378,000
July	3,300	1,430	2,056	.34	.39	126,000
August	1,430	1,030	1,268	.21	.24	78,000
September	2,347	1,245	1,494	.25	.28	88,900
The year	-	-	-	-	-	-
1900-1901						
October	1,690	1,430	1,535	.26	.30	94,400
November	1,690	1,430	a1,560	.26	.29	92,800
December	1,885	980	a1,466	.25	.29	90,100
March	-	-	2,090	.35	.40	128,000
April	-	-	2,601	.44	.47	155,000
May	20,200	7,300	15,156	2.54	2.93	932,000
June	14,450	5,150	7,458	1.25	1.39	444,000
July	4,650	1,690	2,815	.47	.54	173,000
August	1,625	980	1,300	.22	.25	79,900
September	1,625	980	1,415	.24	.27	84,200
The year	-	-	-	-	-	-
1901-2						
October	1,625	1,430	1,472	.25	.29	90,500
November	1,625	1,365	1,478	.25	.28	87,900
December 1-10	-	-	1,413	.24	.09	27,800
March	1,900	1,580	1,766	.30	.35	109,000
April	3,050	1,715	2,383	.40	.45	142,000
May	17,350	2,787	10,236	1.72	1.98	629,000
June	15,775	5,212	8,852	1.49	1.66	527,000
July	6,975	2,787	4,725	.79	.91	290,000
August	2,637	1,865	2,136	.36	.42	131,000
September	1,865	1,715	1,778	.30	.33	106,000
The year	-	-	-	-	-	-
1902-3						
October	1,980	1,750	1,808	.30	.35	111,000
November	2,215	1,650	1,875	.31	.35	112,000
December	-	-	-	-	-	-
January	-	-	e1,900	.319	.37	117,000
February	-	-	e1,700	.285	.30	94,000
March	4,440	1,530	2,018	.339	.39	124,000
April	4,550	2,110	2,949	.495	.56	176,000
May	9,840	3,430	5,817	.976	1.13	358,000
June	21,900	6,240	13,950	2.340	2.61	830,000
July	5,800	2,440	3,976	.667	.77	244,000
August	2,440	1,710	1,995	.335	.39	123,000
September	-	-	e1,800	.302	.34	107,000
The year	-	-	-	-	-	-
1903-4						
October	-	-	e1,700	.285	.33	104,000
November	-	-	e1,500	.252	.28	89,300
December	-	-	e1,500	.252	.29	92,200
January	-	-	e1,300	.218	.25	79,900
February	-	-	e1,300	.218	.24	74,800
March	1,705	1,265	1,443	.242	.28	88,700
April	12,030	1,760	6,701	1.124	1.25	399,000
May	16,650	8,950	11,365	1.907	2.20	699,000
June	12,420	3,910	8,161	1.369	1.53	486,000
July	3,910	1,990	2,790	.468	.54	172,000
August	1,930	1,160	1,478	.248	.29	90,900
September	1,485	1,060	1,181	.198	.22	70,300
The year	-	-	-	-	-	-

a Partly estimated.
e Estimated.

Monthly discharge of Clark Fork at Missoula, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1904-5						
October	1,540	915	1,241	0.208	0.24	76,300
November	1,320	1,210	1,263	.212	.24	75,100
December	1,320	1,010	1,204	.202	.23	74,000
March	1,930	1,218	1,427	.239	.28	87,900
April	1,810	1,245	1,442	.242	.27	85,800
May	4,006	1,538	2,497	.419	.48	154,000
June	8,310	3,086	5,429	.911	1.02	323,000
July	4,096	1,385	2,182	.366	.42	134,000
August	1,569	870	1,132	.190	.22	69,600
September	908	748	819	.137	.15	48,700
The year	-	-	-	-	-	-
1905-6						
October	1,290	908	1,069	.179	.21	65,700
November 1-23	1,200	1,009	1,140	.191	.16	52,000
February 20-28	1,500	810	1,060	.178	.06	18,900
March	3,060	810	1,480	.248	.29	91,000
April	4,460	1,590	2,560	.430	.48	152,000
May	6,490	3,360	4,510	.757	.87	277,000
June	7,490	3,570	5,510	.924	1.03	328,000
July	3,780	1,220	2,060	.346	.40	127,000
August	1,500	915	1,170	.196	.23	71,900
September	1,460	915	1,100	.185	.21	65,500
The year	-	-	-	-	-	-
1906-7						
October	1,440	990	1,150	.193	.22	70,700
November	4,900	1,330	2,360	.396	.44	140,000
December	2,120	1,620	1,920	.322	.37	118,000
January	-	-	e770	.129	.15	7,300
February	-	-	e1,700	.285	.30	94,400
March	7,550	1,950	3,010	.505	.58	185,000
April	8,980	4,400	6,540	1.10	1.23	389,000
May	18,400	5,000	10,500	1.76	2.04	646,000
June	17,200	11,200	14,500	2.43	2.71	863,000
July	-	-	-	-	-	-
August	-	-	-	-	-	-
September	-	-	-	-	-	-
The year	-	-	-	-	-	-

e Estimated.

Clark Fork below Missoula, Mont.

Location.- Water-stage recorder, lat. 46°52', long. 114°07', in SE¼ sec. 21, T. 13 N., R. 20 W., 2 miles downstream from Bitterroot River and 6 miles west of Missoula.
Records available.- October 1929 to September 1938.
Extremes.- Maximum discharge, 36,800 second-feet June 11, 1933 (gage height, 10.14 feet); minimum, 388 second-feet Jan. 18, 1933 (gage height, 0.58 foot, ice present).
Remarks.- Many diversions above station for irrigation.

Monthly discharge of Clark Fork below Missoula, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1929-30				
October	2,240	1,800	2,060	127,000
November	2,320	1,500	2,100	125,000
December	3,360	1,600	2,440	150,000
January	2,240	1,010	1,380	84,800
February	4,520	1,810	2,900	161,000
March	4,040	1,990	2,860	176,000
April	17,500	3,700	9,610	572,000
May	16,600	8,610	11,800	726,000
June	15,200	4,900	8,980	534,000
July	4,640	1,680	2,890	178,000
August	2,020	1,300	1,650	101,000
September	2,580	1,060	1,950	116,000
The year	17,500	1,010	4,220	3,050,000

Monthly discharge of Clark Fork below Missoula, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1930-31				
October	3,600	2,420	2,900	178,000
November	3,150	2,040	2,590	154,000
December	2,530	1,050	1,890	116,000
January	2,300	948	1,800	111,000
February	2,200	1,680	1,910	106,000
March	2,500	1,830	2,110	130,000
April	3,370	2,380	2,960	176,000
May	11,800	3,710	7,950	489,000
June	8,960	2,460	5,270	314,000
July	2,650	700	1,340	82,400
August	1,020	621	753	46,300
September	1,940	594	1,170	69,600
The year	11,800	594	2,720	1,970,000
1931-32				
October	1,680	1,400	1,560	95,900
November	1,720	940	1,490	88,700
December	1,810	910	1,520	93,500
January	1,810	1,050	1,410	86,700
February	4,180	940	1,640	94,300
March	3,570	1,600	2,390	147,000
April	5,850	2,650	4,230	252,000
May	24,000	5,080	14,900	916,000
June	20,500	8,790	14,300	851,000
July	8,280	2,290	4,300	264,000
August	2,290	1,370	1,660	102,000
September	1,760	1,210	1,490	88,700
The year	24,000	910	4,250	3,080,000
1932-33				
October	2,470	1,410	1,940	119,000
November	2,740	2,040	2,320	138,000
December	2,380	610	1,480	91,000
January	2,290	580	1,660	102,000
February	1,560	640	1,110	61,600
March	2,840	1,440	2,030	125,000
April	11,700	2,380	4,030	240,000
May	22,200	6,810	11,200	689,000
June	36,300	13,200	27,200	1,620,000
July	12,400	2,200	5,620	346,000
August	-	-	a1,750	108,000
September	-	-	e1,700	101,000
The year	36,300	580	5,170	3,740,000
1933-34				
October	-	-	a2,700	166,000
November	-	-	e4,150	247,000
December	-	-	e3,950	243,000
January	-	-	a4,400	271,000
February	4,680	3,400	4,232	235,100
March	10,800	4,160	6,028	370,700
April	25,100	8,660	16,500	981,800
May	21,800	11,200	15,110	929,300
June	14,300	4,060	7,843	466,700
July	4,160	1,570	2,866	176,200
August	1,730	1,150	1,356	83,400
September	2,690	1,110	1,399	83,250
The year	25,100	1,110	5,875	4,253,000
1934-35				
October	3,040	1,960	2,392	147,100
November	3,130	2,440	2,845	169,300
December	2,520	1,730	2,207	135,700
January	2,520	875	1,995	122,700
February	2,520	1,760	2,035	113,000
March	3,770	1,800	2,421	148,800
April	5,830	2,030	3,556	211,600
May	19,200	5,560	10,090	620,400
June	16,800	5,290	10,930	650,400
July	6,560	1,760	3,488	214,500
August	1,680	935	1,263	77,630
September	1,170	946	1,010	60,110
The year	19,200	875	3,690	2,671,000

a Partly estimated.
e Estimated.

Monthly discharge of Clark Fork below Missoula, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1935-36				
October	1,720	1,160	1,475	90,700
November	2,080	1,510	1,842	109,600
December	1,950	1,100	1,570	96,520
January	1,800	930	1,492	91,780
February	2,300	800	1,321	75,970
March	3,880	1,570	2,482	152,600
April	17,800	1,410	8,414	500,600
May	26,700	12,000	17,190	1,057,000
June	20,200	3,990	10,430	620,800
July	3,680	1,460	2,307	141,900
August	1,880	860	1,195	73,490
September	2,160	1,020	1,574	93,640
The year	26,700	800	4,277	3,105,000
1936-37				
October	2,140	1,300	1,679	103,200
November	2,220	1,370	1,749	104,100
December	1,870	1,080	1,625	99,950
January	1,180	660	871	53,550
February	1,500	872	1,249	69,380
March	2,060	1,310	1,743	107,200
April	3,110	1,780	2,379	141,500
May	11,300	3,000	8,306	510,700
June	9,320	3,820	7,247	431,200
July	3,710	1,290	2,043	125,600
August	1,480	817	1,117	68,670
September	1,710	660	909	54,080
The year	11,300	660	2,582	1,869,000
1937-38				
October	1,510	1,320	1,393	85,670
November	1,640	1,340	1,471	87,510
December	2,920	1,040	1,714	105,400
January	1,860	810	1,512	92,960
February	1,720	975	1,498	83,200
March	3,110	1,620	2,234	137,400
April	12,000	2,030	5,340	317,700
May	35,700	7,220	15,040	924,500
June	30,800	13,200	18,890	1,124,000
July	14,500	2,640	7,259	446,400
August	2,470	1,670	1,957	120,400
September	1,770	1,400	1,575	93,700
The year	35,700	810	4,999	3,619,000

Yearly discharge of Clark Fork below Missoula, Mont.

Year	Year ending Sept. 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1930	4,220	3,050,000	4,280	3,100,000
1931	2,720	1,970,000	2,490	1,800,000
1932	4,250	3,080,000	4,340	3,150,000
1933	5,170	3,740,000	5,590	4,050,000
1934	5,875	4,253,000	5,594	4,050,000
1935	3,690	2,671,000	3,475	2,516,000
1936	4,277	3,105,000	4,291	3,115,000
1937	2,582	1,869,000	2,542	1,840,000
1938	4,999	3,619,000	-	-

Clark Fork at St. Regis, Mont.

Location.- Water-stage recorder, lat. 47°18', long. 115°05', in sec. 19, T. 18 N., R. 27 W., at St. Regis, half a mile downstream from St. Regis River. Prior to Nov. 29, 1933, staff gage at same site and datum.
Drainage area.- 10,500 square miles.
Records available.- October 1910 to September 1923, February 1929 to September 1938.
Extremes.- Maximum discharge observed, 62,800 second-feet May 30, 31, 1913 (gage height, 19.1 feet); minimum daily, 1,050 second-feet February 19-22, 1929.
Remarks.- Many diversions above station.

Monthly discharge of Clark Fork at St. Regis, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1910-11				
October	-	-	a4,620	284,000
November	6,700	3,960	5,210	310,000
December	4,990	2,990	3,850	237,000
January	3,720	2,920	3,170	195,000
February	3,560	2,390	2,920	162,000
March	8,300	2,450	4,980	306,000
April	16,700	6,480	9,270	552,000
May	23,000	13,800	16,900	1,040,000
June	33,800	15,000	25,200	1,500,000
July	17,700	4,600	9,300	572,000
August	5,190	3,120	4,060	250,000
September	4,050	3,120	3,680	219,000
The year	33,800	2,390	7,770	5,630,000
1911-12				
October	5,610	3,340	4,330	266,000
November	4,410	2,620	3,520	209,000
December	3,560	1,890	3,030	186,000
January	3,880	1,710	2,830	174,000
February	3,410	2,740	3,140	181,000
March	6,700	2,280	3,030	186,000
April	12,000	6,260	10,000	595,000
May	39,500	11,400	25,100	1,540,000
June	41,400	20,600	31,900	1,900,000
July	21,800	6,040	11,500	707,000
August	6,700	3,880	5,120	315,000
September	5,820	4,230	4,900	292,000
The year	41,400	1,710	9,030	6,550,000
1912-13				
October	4,990	4,410	4,740	291,000
November	5,610	4,050	4,640	276,000
December	4,050	3,120	3,550	218,000
January	4,050	2,280	3,120	192,000
February	5,610	2,500	3,520	195,000
March	5,190	3,260	3,950	243,000
April	21,800	4,990	13,200	786,000
May	62,800	14,700	31,100	1,910,000
June	61,000	22,600	40,300	2,400,000
July	21,000	6,560	12,300	756,000
August	6,340	3,380	4,930	303,000
September	3,550	2,700	3,130	186,000
The year	62,800	2,280	10,700	7,760,000
1913-14				
October	4,230	2,780	3,700	228,000
November	4,230	3,230	3,810	227,000
December	3,230	2,620	2,800	172,000
January	3,230	2,620	2,830	174,000
February	2,980	-	2,720	151,000
March	7,480	3,100	4,440	273,000
April	15,200	4,420	9,920	590,000
May	34,000	13,500	25,000	1,540,000
June	28,000	10,200	19,000	1,130,000
July	9,200	3,720	6,280	386,000
August	3,720	2,620	3,000	184,000
September	3,380	2,480	2,890	172,000
The year	34,000	-	7,220	5,230,000

a Partly estimated.

Monthly discharge of Clark Fork at St. Regis, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1914-15				
October	5,240	3,100	4,110	253,000
November	6,120	4,230	4,950	295,000
December	4,230	2,410	2,980	183,000
January	3,230	2,200	2,590	159,000
February	2,980	2,200	2,710	151,000
March	4,420	2,620	3,190	196,000
April	10,500	3,890	7,000	417,000
May	14,200	7,720	10,600	652,000
June	17,300	11,700	15,000	893,000
July	11,400	5,900	8,650	532,000
August	6,340	3,100	4,300	264,000
September	4,230	2,980	3,770	224,000
The year	17,300	†2,200	5,830	4,220,000
1915-16				
October	4,060	3,380	3,710	228,000
November	3,550	2,980	3,300	200,000
December	3,550	2,290	3,100	191,000
January	-	-	e2,750	169,000
February	-	-	e4,300	247,000
March	15,900	-	a10,700	658,000
April	29,300	9,450	14,300	851,000
May	39,000	13,800	25,600	1,570,000
June	52,400	21,400	34,900	2,080,000
July	48,900	10,200	25,500	1,570,000
August	9,700	4,820	6,730	414,000
September	5,240	3,890	4,800	286,000
The year	52,400	-	11,700	8,460,000
1916-17				
October	5,460	4,420	5,110	314,000
November	5,240	2,780	4,250	253,000
December	-	-	a3,550	218,000
January	-	-	e3,430	211,000
February	-	-	e3,780	210,000
March	-	-	a3,890	239,000
April	14,500	4,420	9,530	567,000
May	59,100	10,800	32,300	1,990,000
June	52,400	33,500	41,100	2,450,000
July	32,600	7,240	17,700	1,090,000
August	7,000	3,380	4,840	298,000
September	5,030	3,550	4,230	252,000
The year	59,100	-	11,200	8,090,000
1917-18				
October	4,230	3,490	3,650	224,000
November	5,030	3,490	3,930	234,000
December	23,800	3,160	8,070	496,000
January	22,600	4,040	10,500	646,000
February	7,000	3,160	5,370	298,000
March	12,300	4,420	6,820	419,000
April	34,000	10,500	17,200	1,020,000
May	44,500	15,900	25,800	1,590,000
June	48,400	14,500	30,800	1,830,000
July	13,200	5,900	7,840	482,000
August	7,240	4,820	5,750	354,000
September	4,820	3,670	4,060	242,000
The year	48,400	3,160	10,800	7,840,000
1918-19				
October	5,240	4,040	4,330	266,000
November	4,230	2,590	3,800	226,000
December	3,850	1,990	3,100	191,000
January	-	-	e3,000	184,000
February	3,160	2,590	2,910	162,000
March	7,000	2,720	3,610	222,000
April	18,800	6,340	9,200	547,000
May	29,300	9,700	17,400	1,070,000
June	23,000	5,240	10,700	637,000
July	4,620	2,220	2,980	183,000
August	2,590	1,780	2,130	131,000
September	1,880	1,680	1,830	109,000
The year	29,300	1,680	5,420	3,930,000

† Figure previously published in error.
a Partly estimated.
e Estimated.

Monthly discharge of Clark Fork at St. Regis, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1919-20				
October	2,590	1,880	2,280	140,000
November	2,860	2,100	2,570	153,000
December	-	-	e2,370	146,000
January	-	-	e2,290	141,000
February	-	-	e2,360	136,000
March	5,460	1,330	3,390	208,000
April	9,700	3,160	6,860	408,000
May	32,100	9,700	22,200	1,360,000
June	32,100	15,200	24,400	1,450,000
July	16,600	4,420	9,230	568,000
August	4,420	2,720	3,580	220,000
September	5,460	2,460	3,590	214,000
The year	32,100	-	7,090	5,140,000
1920-21				
October	5,900	4,420	4,980	306,000
November	5,240	2,720	4,150	247,000
December	4,620	2,720	3,510	216,000
January	4,420	2,720	3,480	214,000
February	6,120	2,590	3,940	219,000
March	8,700	4,620	6,100	375,000
April	13,500	6,560	10,600	631,000
May	41,800	10,200	28,200	1,730,000
June	38,000	12,900	26,000	1,550,000
July	13,200	3,850	6,800	418,000
August	3,670	2,460	2,970	183,000
September	3,490	2,340	3,030	180,000
The year	41,800	2,340	8,670	6,270,000
1921-22				
October	3,850	2,340	3,020	186,000
November	3,670	1,330	2,830	168,000
December	7,240	2,460	3,990	245,000
January	3,850	1,680	2,830	174,000
February	3,010	1,330	2,410	134,000
March	4,620	2,220	2,990	184,000
April	10,500	3,670	6,940	413,000
May	42,800	10,500	24,800	1,520,000
June	47,200	13,800	33,200	1,980,000
July	12,900	-	a7,380	454,000
August	-	-	a3,350	206,000
September	3,400	2,590	3,050	181,000
The year	47,200	1,330	8,070	5,840,000
1922-23				
October	2,750	2,490	2,630	162,000
November	3,010	2,620	2,830	168,000
December	3,670	1,680	2,650	163,000
January	4,230	2,220	3,200	197,000
February	3,670	1,990	2,570	143,000
March	7,240	2,860	3,650	224,000
April	13,800	6,230	9,490	565,000
May	30,200	9,970	20,800	1,280,000
June	33,100	15,600	23,200	1,380,000
July	15,900	5,030	9,490	584,000
August	4,820	3,160	3,800	234,000
September	3,160	2,340	2,640	157,000
The year	33,100	1,680	7,260	5,260,000
1929				
February 18-28	1,680	1,050	1,210	26,400
March	4,420	1,560	2,330	143,000
April	6,340	2,170	3,390	202,000
May	30,200	7,240	14,400	885,000
June	23,400	11,700	18,400	1,090,000
July	11,400	3,020	5,600	344,000
August	2,880	1,880	2,350	144,000
September	2,070	1,780	1,920	114,000
The period	-	-	-	2,950,000

a Partly estimated.
e Estimated.

Monthly discharge of Clark Fork at St. Regis, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1929-30				
October	2,980	2,210	2,430	149,000
November	2,700	1,990	2,410	143,000
December	4,120	2,440	3,010	185,000
January	2,700	1,430	2,100	129,000
February	4,850	2,700	3,730	207,000
March	6,120	2,840	3,740	230,000
April	21,800	5,900	13,100	780,000
May	18,800	11,400	14,800	910,000
June	18,800	6,560	11,100	660,000
July	6,340	2,440	3,960	243,000
August	2,700	1,990	2,280	140,000
September	2,980	1,790	2,520	150,000
The year	21,800	1,430	5,430	3,930,000
1930-31				
October	3,780	2,700	3,270	201,000
November	3,610	2,570	2,980	177,000
December	2,840	1,900	2,540	156,000
January	-	-	2,360	145,000
February	2,570	2,210	2,370	132,000
March	3,280	2,320	2,720	167,000
April	5,470	2,980	4,190	249,000
May	15,600	6,120	10,900	670,000
June	10,800	3,130	6,400	381,000
July	3,130	1,430	2,000	123,000
August	2,210	1,280	1,450	89,200
September	2,320	1,280	1,680	100,000
The year	15,600	1,280	3,580	2,590,000
1931-32				
October	1,990	1,990	1,990	122,000
November	2,210	1,430	1,940	115,000
December	2,700	1,520	2,160	133,000
January	2,440	1,520	1,910	117,000
February	5,260	1,430	2,130	123,000
March	4,660	1,990	3,350	206,000
April	10,800	5,050	7,490	446,000
May	32,700	9,450	24,700	1,330,000
June	25,000	11,700	18,300	1,090,000
July	10,800	3,280	5,940	365,000
August	3,280	2,100	2,530	156,000
September	2,440	1,990	2,170	129,000
The year	32,700	1,430	5,980	4,330,000
1932-33				
October	2,980	2,100	2,520	155,000
November	3,610	2,840	3,230	192,000
December	3,610	-	2,700	166,000
January	4,120	1,520	2,800	172,000
February	5,900	1,200	2,380	132,000
March	3,950	2,320	3,010	185,000
April	18,000	3,780	6,700	399,000
May	30,400	9,700	16,000	984,000
June	50,000	17,000	37,000	2,200,000
July	15,900	3,280	7,720	475,000
August	3,280	2,320	2,810	173,000
September	3,130	2,570	2,760	164,000
The year	50,000	1,200	7,460	5,400,000
1933-34				
October	10,800	2,570	4,565	280,700
November	10,800	5,050	7,047	419,300
December	32,300	4,480	10,710	658,300
January	12,700	6,500	8,520	523,900
February	7,720	5,230	6,927	384,700
March	21,900	5,790	10,130	622,800
April	35,200	15,200	24,880	1,481,000
May	29,000	16,000	21,090	1,297,000
June	17,800	5,680	10,750	639,600
July	5,790	2,440	3,675	226,000
August	2,500	1,840	2,083	128,100
September	3,030	1,760	1,986	118,200
The year	35,200	1,760	9,364	6,780,000

Monthly discharge of Clark Fork at St. Regis, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1934-35				
October	4,220	2,380	2,954	181,600
November	4,550	3,240	3,885	231,200
December	3,330	2,390	2,942	180,900
January	5,250	1,920	2,987	183,600
February	3,860	2,460	2,902	161,200
March	4,780	2,460	3,167	194,800
April	9,950	2,920	5,972	355,400
May	27,000	9,950	15,900	977,400
June	23,200	8,370	16,080	957,000
July	9,680	2,690	5,457	335,500
August	2,690	1,620	2,057	126,500
September	1,620	1,510	1,558	92,730
The year	27,000	1,510	5,494	3,988,000
1935-36				
October	2,250	1,680	1,942	119,400
November	2,460	1,920	2,230	132,700
December	2,250	1,410	1,922	118,200
January	2,320	1,150	1,935	119,000
February	3,420	1,080	1,592	91,560
March	7,510	2,150	3,292	202,500
April	24,800	1,980	11,920	709,400
May	33,000	16,700	22,440	1,380,000
June	23,600	5,660	13,690	814,600
July	5,210	2,280	3,359	206,500
August	2,470	1,690	1,933	118,800
September	2,610	1,690	2,123	126,300
The year	33,000	1,080	5,701	4,139,000
1936-37				
October	2,470	1,930	2,148	132,100
November	2,470	1,830	2,133	126,900
December	2,150	1,600	1,909	117,400
January	1,780	1,310	1,474	90,640
February	2,470	1,600	2,090	116,100
March	2,540	2,040	2,199	135,200
April	4,390	2,210	3,333	198,300
May	16,700	4,490	12,260	754,000
June	12,500	5,780	10,150	604,000
July	5,320	2,000	3,041	187,000
August	2,060	1,340	1,703	104,700
September	2,000	1,180	1,351	80,390
The year	16,700	1,180	3,656	2,647,000
1937-38				
October	1,920	1,680	1,854	114,000
November	2,160	1,800	1,946	115,800
December	3,300	1,680	2,217	136,300
January	2,400	1,340	2,060	126,600
February	2,340	1,260	1,980	110,000
March	4,320	2,100	2,974	182,900
April	19,100	2,980	8,770	521,900
May	45,700	11,000	20,540	1,263,000
June	42,100	17,500	24,030	1,430,000
July	16,800	3,800	9,119	560,700
August	3,510	2,270	2,730	167,800
September	2,350	1,900	2,140	127,300
The year	45,700	1,260	6,708	4,856,000

Yearly discharge of Clark Fork at St. Regis, Mont.

Year	Year ending Sept. 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1911	7,770	5,630,000	7,540	5,460,000
1912	9,030	6,550,000	9,190	6,680,000
1913	10,700	7,760,000	10,500	7,600,000
1914	7,220	5,230,000	7,360	5,330,000
1915	5,830	4,220,000	5,670	4,110,000
1916	11,700	8,460,000	11,900	8,630,000
1917	11,200	8,090,000	11,400	8,260,000
1918	10,800	7,840,000	10,500	7,560,000
1919	5,420	3,930,000	5,090	3,680,000
1920	7,090	5,140,000	7,540	5,470,000
1921	8,670	6,270,000	8,420	6,100,000
1922	8,070	5,840,000	7,930	5,740,000
1923	7,260	5,260,000	-	-
1930	5,430	3,930,000	5,500	3,980,000
1931	3,580	2,590,000	3,350	2,430,000
1932	5,980	4,330,000	6,160	4,480,000
1933	7,460	5,400,000	8,620	6,240,000
1934	9,364	6,780,000	8,308	6,015,000
1935	5,494	3,988,000	5,186	3,754,000
1936	5,701	4,139,000	5,709	4,145,000
1937	3,656	2,647,000	3,642	2,636,000
1938	6,708	4,856,000	-	-
Highest	11,700	8,464,000	11,900	8,630,000
Average	7,461	5,404,000	7,476	5,415,000
Lowest	3,580	2,590,000	3,350	2,426,000

Clark Fork near Plains, Mont.

Location.- Water-stage recorder, lat. 47°26', long. 114°51' on lot 7, SW¼ sec. 1, T. 19 N., R. 26 W., 2 miles upstream from Plains and 6 miles downstream from Flathead River.
Drainage area.- 19,900 square miles.
Records available.- October 1910 to September 1938.
Extremes.- Maximum discharge, 126,000 second-feet May 28, 1928 (gage height, 18.4 feet); minimum, 3,200 second-feet Feb. 8, 1936.
Remarks.- Many diversions above station for irrigation. Flow partly regulated by natural storage in Flathead Lake.

Monthly discharge of Clark Fork near Plains, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1910-11				
October 28-31	9,760	9,400	9,490	75,300
November	14,700	9,400	12,400	738,000
December	13,100	9,060	10,500	646,000
January	8,720	6,970	8,010	493,000
February	6,970	6,020	6,440	358,000
March	10,900	6,240	9,070	496,000
April	11,700	10,900	11,200	171,000
May	36,600	28,200	31,900	379,000
June	-	-	-	-
July	46,600	18,000	30,600	1,390,000
August	19,700	9,400	14,400	885,000
September	10,100	8,720	9,570	569,000
1911-12				
October	10,500	8,100	9,520	585,000
November	8,400	6,470	7,770	462,000
December 1-8	8,400	6,240	7,090	112,000
January 1-22	-	-	5,500	240,000
February 13-29	6,470	5,620	5,970	201,000
March	8,100	5,290	5,860	360,000
April	22,700	7,530	15,500	922,000
May	73,600	23,300	49,300	3,030,000
June	74,500	50,100	65,200	3,880,000
July	51,000	19,200	32,400	1,990,000
August	18,600	9,760	13,100	806,000
September	10,900	9,400	10,100	601,000

Monthly discharge of Clark Fork near Plains, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1912-13				
October	9,400	8,400	8,840	544,000
November	9,760	8,400	9,040	538,000
December	-	-	7,500	461,000
January	8,400	6,240	7,360	453,000
February	-	6,470	7,940	441,000
March	7,810	6,240	7,030	432,000
April	34,200	7,810	18,800	1,120,000
May	106,000	29,700	53,900	3,310,000
June	115,000	71,500	98,200	5,840,000
July	69,200	23,800	42,800	2,630,000
August	23,100	12,300	17,000	1,050,000
September	11,500	9,350	10,100	601,000
The year	115,000	-	24,100	17,400,000
1913-14				
October	9,030	8,720	8,740	537,000
November	9,350	8,720	9,070	540,000
December	9,030	6,850	8,040	494,000
January	7,600	6,620	7,410	456,000
February	8,720	5,970	7,360	409,000
March	10,700	7,600	8,590	528,000
April	27,800	8,420	16,900	1,010,000
May	67,000	27,100	48,900	3,010,000
June	62,300	36,700	49,200	2,930,000
July	35,100	14,600	23,800	1,460,000
August	14,100	8,720	10,600	652,000
September	8,720	8,420	8,480	505,000
The year	67,000	5,970	17,300	12,500,000
1914-15				
October	11,900	8,130	9,830	604,000
November	16,600	11,100	14,200	845,000
December	11,900	7,860	9,510	585,000
January	9,100	7,200	7,970	490,000
February	8,050	7,090	7,350	408,000
March	7,600	6,850	7,180	441,000
April	24,400	7,860	15,500	922,000
May	35,900	26,400	31,200	1,920,000
June	37,400	32,800	35,400	2,110,000
July	32,800	19,400	26,500	1,630,000
August	18,800	10,400	14,400	885,000
September	10,700	9,350	9,960	593,000
The year	37,400	6,850	15,800	11,400,000
1915-16				
October	10,400	8,720	9,360	576,000
November	8,720	8,130	8,500	509,000
December	9,030	7,700	8,660	532,000
January 1-17	8,240	5,970	7,020	237,000
March 3-27	17,700	10,700	15,000	744,000
May	67,400	42,200	52,100	3,200,000
June	111,000	49,500	80,700	4,800,000
August	39,000	16,000	24,800	1,520,000
September	17,200	13,300	15,300	910,000
1917				
May 12-31	102,000	36,700	73,600	2,920,000
June	106,000	79,600	91,900	5,470,000
July	85,400	27,800	55,300	3,400,000
August	27,100	11,500	17,700	1,090,000
September	11,500	9,030	9,910	590,000
The period	-	-	-	13,500,000
1917-18				
October	9,210	7,620	8,190	504,000
November	8,400	6,540	7,390	440,000
December	29,600	5,850	11,600	713,000
January	29,600	12,800	21,300	1,310,000
February	16,100	10,500	13,000	722,000
March	18,100	10,100	12,600	775,000
April	36,600	18,100	26,100	1,550,000
May	69,100	39,800	56,600	3,480,000
June	99,500	47,200	73,300	4,360,000
July	57,100	19,600	32,600	2,000,000
August	18,600	13,200	15,700	965,000
September	13,200	8,800	10,300	613,000
The year	99,500	5,850	24,100	17,400,000

Monthly discharge of Clark Fork near Plains, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1918-19				
October	9,210	8,400	8,660	532,000
November	8,800	6,540	7,970	474,000
December	7,620	6,190	6,870	422,000
January	-	-	e6,180	380,000
February	6,540	5,850	6,320	351,000
March	10,100	5,520	6,650	409,000
April	32,600	10,500	15,200	904,000
May	73,800	29,600	42,600	2,620,000
June	71,000	30,400	46,700	2,780,000
July	28,900	11,800	18,400	1,130,000
August	11,400	6,890	9,170	564,000
September	6,890	5,200	6,020	358,000
The year	73,800	5,200	15,100	10,900,000
1919-20				
October	5,200	4,890	5,100	314,000
November	5,520	4,890	5,200	309,000
March 9-31	8,200	5,200	6,590	301,000
April	17,100	6,540	10,700	637,000
May	58,000	17,600	43,100	2,650,000
June	72,900	47,200	61,700	3,670,000
July	56,200	20,700	37,700	2,320,000
August	19,600	10,500	14,000	861,000
September	10,500	8,800	9,590	571,000
1920-21				
October	12,300	9,720	11,200	689,000
November	10,600	8,910	9,760	581,000
December	9,720	7,740	8,650	532,000
January	8,910	7,740	8,390	516,000
February	9,720	7,010	8,510	473,000
March	14,500	9,720	11,800	726,000
April	28,300	13,200	20,700	1,230,000
May	99,000	25,800	60,600	3,730,000
June	99,000	55,500	80,800	4,810,000
July	52,600	17,900	31,500	1,940,000
August	17,400	9,310	12,200	750,000
September	8,910	7,010	8,000	476,000
The year	99,000	7,010	22,700	16,500,000
1921-22				
October	7,560	6,320	6,810	419,000
November	8,320	6,160	6,790	404,000
December	11,000	6,190	8,140	501,000
January	8,800	5,520	6,980	429,000
February	6,360	4,890	5,640	313,000
March	7,190	5,200	6,220	382,000
April	16,200	6,840	10,600	631,000
May	90,500	16,400	46,700	2,870,000
June	113,000	50,400	86,900	5,170,000
July	47,500	16,500	28,100	1,730,000
August	15,800	9,880	12,400	762,000
September	9,880	7,280	8,710	518,000
The year	113,000	4,890	19,500	14,100,000
1922-23				
October	7,280	6,340	6,970	429,000
November	6,800	6,340	6,560	390,000
December	6,700	4,900	5,870	361,000
January	7,450	5,950	6,790	418,000
February	6,810	5,350	6,070	337,000
March	10,900	5,980	6,720	413,000
April	23,200	10,300	14,600	869,000
May	77,200	24,300	49,900	3,070,000
June	94,300	61,400	73,300	4,360,000
July	58,300	18,800	34,800	2,140,000
August	18,800	10,500	13,800	848,000
September	10,500	6,800	8,260	492,000
The year	94,300	4,900	19,500	14,100,000

e Estimated.

Monthly discharge of Clark Fork near Plains, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1923-24				
October	7,450	7,120	7,290	448,000
November	7,280	6,800	6,930	412,000
December	6,960	5,650	6,360	391,000
January	-	-	5,810	357,000
February	8,020	6,000	6,760	389,000
March	7,040	5,780	6,530	402,000
April	19,000	5,780	10,800	643,000
May	79,200	19,800	55,900	3,440,000
June	58,300	36,200	46,600	2,770,000
July	33,400	13,700	21,300	1,310,000
August	14,000	7,820	10,400	640,000
September	7,820	5,950	6,640	395,000
The year	79,200	-	†16,000	11,600,000
1924-25				
November	7,410	6,000	6,750	402,000
December 1-14	9,150	5,750	6,510	181,000
April 7-30	53,500	21,600	42,600	2,030,000
May	104,000	44,100	75,700	4,650,000
June	89,400	57,000	69,400	4,130,000
July	62,200	18,200	32,600	2,000,000
August	18,200	11,400	13,700	842,000
September	11,400	9,720	10,900	649,000
1925-26				
October	9,520	7,740	8,420	518,000
November	-	-	7,250	431,000
December	-	-	7,000	430,000
January	7,010	6,000	6,360	391,000
February	7,740	6,000	6,820	379,000
March	9,310	6,160	7,750	777,000
April	39,600	8,510	19,300	1,150,000
May	46,800	32,400	39,700	2,440,000
June	31,000	16,900	22,800	1,360,000
July	16,900	7,740	12,100	744,000
August	-	-	6,500	400,000
September	-	-	7,300	434,000
The year	46,800	6,000	12,600	9,150,000
1926-27				
October	14,000	8,200	11,100	682,000
November	13,600	11,000	12,200	726,000
December	16,400	10,800	14,300	879,000
January	11,200	8,500	9,580	589,000
February	10,300	7,740	8,420	467,000
March	9,720	8,510	9,170	564,000
April	40,500	10,100	13,800	821,000
May	77,600	34,700	55,200	3,390,000
June	117,000	74,400	101,000	6,010,000
July	89,400	26,400	52,800	3,520,000
August	25,800	13,600	18,200	1,120,000
September	15,500	13,200	14,300	851,000
The year	117,000	7,740	26,700	19,300,000
1927-28				
October	16,900	13,200	15,100	928,000
November	29,600	15,900	21,200	1,260,000
December	-	-	1[illegible],900	1,110,000
January	-	-	e[illegible],500	830,000
February	-	-	11,200	644,000
March	-	-	14,000	861,000
April	43,200	16,900	20,700	1,230,000
May	126,000	44,100	89,800	5,520,000
June	111,000	58,600	74,000	4,400,000
July	63,800	27,000	44,400	2,730,000
August	26,400	14,000	18,900	1,160,000
September	-	-	-	649,000
The year	126,000	-	29,400	21,300,000

† Figure previously published in error.
e Estimated.

Monthly discharge of Clark Fork near Plains, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1928-29				
October	9,580	8,670	9,240	568,000
November	9,120	8,230	8,560	509,000
December	8,300	6,640	7,380	454,000
January	6,470	4,460	5,480	337,000
February	5,560	4,370	4,970	276,000
March	8,230	5,690	6,490	399,000
April	14,500	6,640	8,420	501,000
May	64,400	15,000	34,700	2,130,000
June	66,400	40,600	57,300	3,410,000
July	39,800	13,500	24,300	1,490,000
August	13,200	6,820	9,250	569,000
September	6,640	5,420	5,870	349,000
The year	66,400	4,370	15,200	11,000,000
1929-30				
October	5,690	5,180	5,330	328,000
November	5,180	4,460	4,820	287,000
December	6,140	4,460	5,160	317,000
January	5,180	3,860	4,340	267,000
February	7,200	4,550	6,040	335,000
March	8,230	5,070	5,780	355,000
April	43,000	7,810	22,800	1,360,000
May	46,400	38,200	41,400	2,550,000
June	47,300	28,000	39,100	2,330,000
July	27,400	11,500	18,100	1,110,000
August	11,000	6,470	8,460	520,000
September	6,820	5,840	6,330	377,000
The year	47,300	3,860	14,000	10,100,000
1930-31				
October	7,400	6,300	6,930	426,000
November	7,810	6,470	6,830	406,000
December	6,640	4,750	5,920	364,000
January	5,420	4,860	5,190	319,000
February	5,180	4,960	5,060	281,000
March	6,470	5,070	5,550	341,000
April	13,000	6,300	9,200	547,000
May	47,300	14,000	35,100	2,160,000
June	41,400	21,400	32,400	1,930,000
July	20,100	8,900	13,300	818,000
August	8,670	4,370	6,150	378,000
September	5,300	4,200	4,770	284,000
The year	47,300	4,200	11,400	8,250,000
1931-32				
October	4,960	4,550	4,760	293,000
November	4,960	4,460	4,760	283,000
December	5,420	4,460	4,930	303,000
January	4,860	4,050	4,540	279,000
February	7,400	4,460	5,290	304,000
March	10,700	5,420	8,300	510,000
April	28,700	10,700	19,500	1,160,000
May	83,600	28,700	59,300	3,650,000
June	71,200	53,400	64,000	3,810,000
July	51,600	17,200	31,200	1,920,000
August	16,100	8,670	11,800	726,000
September	8,900	6,470	7,480	445,000
The year	83,600	4,050	18,800	13,700,000
1932-33				
October	6,650	5,260	6,020	370,000
November	9,650	6,650	8,000	476,000
December	11,100	-	8,660	532,000
January	-	-	7,390	454,000
February	-	-	6,050	336,000
March	7,250	5,850	6,420	395,000
April	31,000	6,850	11,300	672,000
May	66,900	31,800	42,600	2,620,000
June	119,000	72,800	99,800	5,940,000
July	75,800	22,800	45,200	2,780,000
August	22,100	10,600	14,900	916,000
September	10,600	8,650	9,320	555,000
The year	119,000	5,260	22,200	16,000,000

Monthly discharge of Clark Fork near Plains, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1933-34				
October	-	8,250	10,160	625,000
November	-	-	20,630	1,228,000
December	-	-	21,430	1,318,000
January	26,800	18,400	22,320	1,372,000
February	18,400	-	16,390	910,200
March	33,300	-	17,850	1,098,000
April	74,800	28,200	47,830	2,846,000
May	76,800	64,000	69,540	4,276,000
June	64,000	28,900	46,400	2,761,000
July	27,500	11,100	17,920	1,102,000
August	11,100	7,050	9,031	555,300
September	6,250	5,450	5,718	340,300
The year	76,800	5,450	25,460	18,430,000
1934-35				
October	7,450	5,450	6,031	370,800
November	10,600	7,250	9,337	555,600
December	10,000	7,050	8,665	532,800
January	10,000	-	7,635	469,500
February	8,400	7,630	8,053	447,200
March	8,990	7,250	7,890	485,100
April	20,400	7,630	11,460	682,000
May	66,400	21,000	41,110	2,528,000
June	70,200	44,900	61,830	3,679,000
July	44,900	17,500	29,530	1,815,000
August	16,900	8,200	11,500	707,100
September	8,010	5,570	6,533	388,700
The year	70,200	5,450	17,490	12,660,000
1935-36				
October	5,760	5,200	5,341	328,400
November	5,570	4,330	4,872	289,900
December	4,720	3,770	4,224	259,700
January	4,440	3,500	4,083	251,000
February	6,500	3,200	4,231	243,400
March	18,100	4,800	6,923	425,700
April	44,900	4,630	20,040	1,192,000
May	80,800	42,500	63,300	3,892,000
June	73,000	27,500	49,720	2,959,000
July	26,900	9,990	16,520	1,016,000
August	9,990	6,040	7,710	474,100
September	6,400	5,150	5,734	341,200
The year	80,800	3,200	16,080	11,670,000
1936-37				
October	5,500	4,800	5,010	308,100
November	4,980	4,130	4,588	273,000
December	4,460	3,590	4,075	250,600
January	3,590	-	3,344	205,600
February	4,630	-	3,940	218,800
March	4,980	4,460	4,636	285,100
April	9,020	4,630	6,112	363,700
May	50,000	9,600	32,630	2,006,000
June	48,200	36,900	44,430	2,644,000
July	35,400	12,500	21,950	1,350,000
August	12,000	6,780	9,092	559,000
September	6,780	4,460	5,380	320,100
The year	50,000	-	12,130	8,784,000
1937-38				
October	5,420	4,750	5,014	308,300
November	5,770	4,800	5,218	310,500
December	6,870	4,750	5,825	358,200
January	6,320	4,500	5,769	354,700
February	5,800	4,500	5,354	297,300
March	8,200	4,920	6,289	386,700
April	33,000	6,870	16,780	998,200
May	86,900	35,200	48,050	2,955,000
June	85,800	49,800	65,810	3,916,000
July	45,600	8,600	22,550	1,387,000
August	9,800	4,920	6,606	406,200
September	12,500	5,600	9,662	574,900
The year	86,900	4,500	16,920	12,250,000

Yearly discharge of Clark Fork near Plains, Mont.

Year	Year ending September 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1913	24,100	17,400,000	24,100	17,400,000
1914	17,300	12,500,000	17,900	13,000,000
1915	15,300	11,400,000	15,200	11,000,000
1918	24,100	17,400,000	23,800	17,200,000
1919	15,100	10,900,000	-	-
1921	22,700	16,500,000	22,100	16,000,000
1922	19,500	14,100,000	19,300	14,000,000
1923	19,500	14,100,000	19,600	14,200,000
1924	16,000	11,600,000	-	-
1926	12,600	9,150,000	13,900	10,100,000
1927	26,700	19,300,000	28,100	20,400,000
1928	29,400	21,300,000	26,900	19,600,000
1929	15,200	11,000,000	14,400	10,400,000
1930	14,000	10,100,000	14,400	10,400,000
1931	11,400	8,250,000	11,000	7,940,000
1932	18,800	13,700,000	19,500	14,200,000
1933	22,200	16,000,000	24,600	17,800,000
1934	25,460	18,430,000	23,090	16,720,000
1935	17,490	12,660,000	16,690	12,080,000
1936	16,080	11,670,000	16,010	11,630,000
1937	12,130	8,784,000	12,330	8,929,000
1938	16,920	12,250,000	-	-
Highest	29,400	21,300,000	28,120	20,400,000
Average	18,750	13,570,000	19,100	13,840,000
Lowest	11,400	8,250,000	10,960	7,937,000

Clark Fork near Heron, Mont.

Location.- Water-stage recorder, lat. 48°04', long. 115°59', in sec. 28, T. 27 N., R. 34 W., 600 feet upstream from Dead Horse Creek and 1½ miles northwest of Heron. Prior to Jan. 2, 1931, at datum 10 feet higher.

Drainage area.- 21,800 square miles.

Records available.- September 1928 to September 1938.

Extremes.- Maximum discharge, 137,000 second-feet June 17, 1933 (gage height, 46.62 feet); minimum, 620 second-feet (during period of extreme regulation) Dec. 23, 1935 (gage height, 7.59 feet).

Maximum stage known, 59.1 feet, present datum, June 1894.

Remarks.- Power-plant operation at Thompson Falls causes diurnal fluctuation during low periods. Considerable water diverted from tributaries upstream for irrigation.

Monthly discharge of Clark Fork near Heron, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1928				
September 21-30	10,600	8,920	9,750	193,000
1928-29				
October	11,100	8,100	9,450	581,000
November	11,300	7,900	9,010	536,000
December	9,130	5,540	7,180	441,000
January	-	-	5,900	363,000
February	-	-	5,390	299,000
March	9,340	-	7,450	458,000
April	-	6,580	10,900	649,000
May	72,100	21,300	40,000	2,460,000
June	-	45,000	60,700	3,610,000
July	42,600	15,200	26,000	1,600,000
August	14,700	7,700	10,600	652,000
September	7,900	4,800	6,530	389,000
The year	72,100	-	16,600	12,000,000

Monthly discharge of Clark Fork near Héron, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1929-30				
October	6,880	5,260	6,210	382,000
November	7,060	5,000	5,640	336,000
December	7,420	3,640	6,040	371,000
January	6,880	3,180	4,720	290,000
February	12,200	-	7,430	413,000
March	11,300	5,410	7,550	464,000
April	48,000	11,800	27,500	1,640,000
May	50,600	41,300	45,600	2,800,000
June	50,600	30,900	42,600	2,530,000
July	29,900	13,400	20,100	1,240,000
August	12,900	7,720	9,860	606,000
September	7,720	6,180	6,990	416,000
The year	50,600	3,180	15,900	11,500,000
1930-31				
October	8,660	5,710	7,610	468,000
November	8,470	6,340	7,560	450,000
December	8,090	5,120	6,760	416,000
January	6,340	5,560	5,930	365,000
February	6,500	6,020	6,190	344,000
March	8,850	6,020	7,260	446,000
April	17,400	8,470	12,300	732,000
May	51,000	19,100	39,700	2,440,000
June	45,700	22,800	34,600	2,060,000
July	21,600	9,650	14,700	904,000
August	9,650	5,120	7,480	460,000
September	7,180	4,060	5,740	342,000
The year	51,000	4,060	13,000	9,430,000
1931-32				
October	7,600	4,680	5,680	349,000
November	7,790	4,140	5,450	324,000
December	6,200	4,140	5,570	342,000
January	-	-	5,560	342,000
February	14,400	-	6,330	364,000
March	14,100	8,560	11,500	707,000
April	34,600	15,100	25,100	1,490,000
May	94,900	35,300	69,200	4,250,000
June	78,600	59,200	70,800	4,210,000
July	56,800	20,200	35,600	2,190,000
August	19,600	9,780	13,500	830,000
September	9,780	7,420	8,390	499,000
The year	94,900	-	21,900	15,900,000
1932-33				
October	7,250	6,710	6,950	427,000
November	10,800	7,070	8,860	527,000
December	13,000	-	9,880	608,000
January	10,400	6,540	8,880	546,000
February	8,180	-	6,890	383,000
March	9,750	6,030	7,990	491,000
April	41,100	9,950	16,500	982,000
May	78,000	39,700	49,200	3,030,000
June	137,000	83,600	114,000	6,780,000
July	84,400	25,300	49,700	3,060,000
August	24,700	11,900	16,500	1,010,000
September	11,400	9,150	10,100	601,000
The year	137,000	-	25,500	18,400,000
1933-34				
October	22,600	7,800	11,320	695,900
November	27,800	18,500	21,830	1,299,000
December	71,700	17,500	30,350	1,866,000
January	37,200	22,400	28,020	1,723,000
February	22,100	16,500	20,190	1,121,000
March	44,700	16,500	23,010	1,415,000
April	87,400	35,500	59,140	3,519,000
May	85,300	70,500	77,100	4,741,000
June	70,000	32,400	50,290	2,992,000
July	31,400	13,600	20,590	1,266,000
August	12,700	7,070	9,896	608,500
September	8,180	5,550	6,740	401,100
The year	87,400	5,550	29,900	21,650,000

Monthly discharge of Clark Fork near Heron, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1934-35				
October	10,800	5,710	7,038	432,800
November	12,300	8,370	11,070	658,900
December	11,600	8,370	10,110	621,900
January	11,000	6,030	8,788	540,400
February	10,800	8,560	9,740	540,900
March	11,200	6,540	9,580	589,000
April	27,200	9,550	15,640	930,400
May	74,200	29,800	48,610	2,989,000
June	77,600	48,400	66,520	3,958,000
July	48,000	19,000	32,110	1,974,000
August	18,800	10,000	13,500	830,300
September	10,400	5,710	7,473	444,700
The year	77,600	5,710	20,040	14,510,000
1935-36				
October	6,350	5,470	5,946	365,600
November	5,990	4,790	5,516	328,200
December	5,990	1,110	4,845	297,900
January	5,640	4,200	4,944	304,000
February	8,750	1,400	4,217	242,600
March	10,200	4,450	7,270	447,000
April	55,300	4,450	26,130	1,555,000
May	89,600	51,400	69,940	4,300,000
June	76,700	29,100	53,160	3,163,000
July	28,500	11,600	18,450	1,134,000
August	11,200	6,710	8,574	527,200
September	7,070	5,640	6,249	371,800
The year	89,600	1,110	17,960	13,040,000
1936-37				
October	5,870	5,240	5,466	336,100
November	5,390	4,420	5,008	298,000
December	5,710	3,250	4,732	290,900
January	-	2,970	3,527	216,900
February	-	-	4,232	235,000
March	5,870	4,490	5,122	314,900
April	12,700	5,240	8,397	499,700
May	54,900	12,700	38,000	2,336,000
June	53,000	39,700	47,610	2,833,000
July	38,300	13,400	23,840	1,466,000
August	13,400	7,250	9,969	613,000
September	7,250	5,240	6,001	357,100
The year	54,900	2,970	13,530	9,797,000
1937-38				
October	5,870	5,090	5,511	338,900
November	6,540	5,240	5,871	349,300
December	7,800	5,240	6,644	408,500
January	7,610	6,000	6,808	418,600
February	7,070	3,460	6,111	339,400
March	11,000	6,030	8,205	504,500
April	42,200	8,750	22,630	1,347,000
May	94,900	42,200	55,160	3,392,000
June	95,800	55,600	71,950	4,281,000
July	51,800	11,500	25,770	1,585,000
August	10,600	5,870	7,824	481,100
September	13,400	6,710	9,980	593,800
The year	95,800	3,460	19,390	14,040,000

Yearly discharge of Clark Fork near Heron, Mont.

Year	Year ending September 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1929	16,600	12,000,000	16,000	11,600,000
1930	15,900	11,500,000	16,200	11,700,000
1931	13,000	9,430,000	12,600	9,110,000
1932	21,900	15,900,000	22,600	16,400,000
1933	25,500	18,400,000	28,600	20,700,000
1934	29,900	21,650,000	26,930	19,500,000
1935	20,040	14,510,000	19,050	13,790,000
1936	17,960	13,040,000	17,870	12,970,000
1937	13,530	9,797,000	13,770	9,968,000
1938	19,390	14,040,000	-	-
Highest	29,900	21,650,000	28,600	20,700,000
Average	19,370	14,030,000	19,290	13,970,000
Lowest	13,000	9,430,000	12,600	9,110,000

Racetrack Creek near Anaconda, Mont.

Location.- Chain gage, lat. 46°17', long. 112°57' in sec. 15, T. 6 N., R. 11 W., 3 miles upstream from Racetrack range station, and 10 miles north of Anaconda.
Drainage area.- 38 square miles.
Records available.- July 1911 to November 1912.
Remarks.- Diversion above station for mining.

Monthly discharge of Racetrack Creek near Anaconda, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911				
July 11-31	108	53	73.9	3,080
August	55	39	45.9	2,820
September	38	30	33.4	1,990
October	36	24	29.6	1,820
The period	-	-	-	9,710
1912				
January 19-31	25	19	20.8	536
February	24	16	18.2	1,050
March 1-17	19	16	16.7	563
May 5-31	209	22	101	5,410
June	515	208	371	22,100
July	408	83	180	11,100
August	111	75	96.3	5,920
September	111	75	90.3	5,370
October	144	88	131	8,060
November 1-9	132	111	120	2,140

Middle Fork of Rock Creek near Philipsburg, Mont.

Location.- Wire-weight gage, lat. 46°11', long. 113°30', in NE¼ sec. 17, T. 5 N., R. 15 W., three-quarters of a mile upstream from East Fork, 2½ miles upstream from West Fork, and 15 miles southwest of Philipsburg.
Records available.- September 1937 to September 1938.
Extremes.- Maximum discharge observed, 980 second-feet May 29, 1938 (gage height, 3.96 feet); minimum observed, 17 second-feet Jan. 29, 1938 (discharge measurement).
Remarks.- Several small diversions above station for irrigation.

Monthly discharge of Middle Fork of Rock Creek near Philipsburg, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1937				
September 21-30	43	40	40.9	811
1937-38				
October	41	34	37.9	2,330
November	40	33	36.3	2,160
December	-	-	34.8	2,140
January 1-15	-	-	25	744
March 14-31	29	22	26.3	940
April	186	21	57.7	3,430
May	920	150	339	20,840
June	657	296	450	26,780
July	492	92	216	13,270
August	86	44	64.5	3,970
September	54	32	40.8	2,430

Rock Creek near Quigley, Mont.

Location.- Wire-weight gage, lat. 46°35', long. 113°41', in SW¼ sec. 36, T. 10 N., R. 17 W. (unsurveyed), at highway bridge a quarter of a mile upstream from Ranch Creek and 2⅝ miles south of Quigley.
Drainage area.- 772 square miles.
Records available.- October 1911 to November 1912, May 1922 to September 1927.
Extremes.- Maximum discharge observed, 6,620 second-feet June 5, 1922 (gage height, 6.32 feet; minimum observed, 115 second-feet Dec. 17, 1924 (gage height, 1.00 foot).
Remarks.- No large diversions above station.

Monthly discharge of Rock Creek near Quigley, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1911-12						
October	425	250	322	0.417	0.48	19,800
November 1-22	280	250	260	.337	.28	11,300
February	-	-	e200	.259	.28	11,500
March	280	180	220	.285	.32	13,100
July	2,440	555	1,160	1.50	1.73	71,300
August	635	455	517	.670	.77	31,800
September	450	320	386	.500	.56	23,000
October	320	280	305	.395	.45	18,600
November 1-17	370	280	313	.405	.26	10,600
1922						
May	3,720	415	1,630	2.11	2.43	100,000
June	5,170	1,170	3,280	4.25	4.74	195,000
July	1,010	368	567	.734	.85	34,900
August	358	252	309	.400	.46	19,000
September	263	192	226	.293	.33	13,400
1922-23						
October	197	187	192	.249	.29	11,800
November	237	184	214	.277	.31	12,700
December	182	-	177	.229	.26	10,900
January	-	-	e180	.233	.26	11,100
February	-	-	e170	.220	.23	9,440
March	-	-	e230	.298	.34	14,100
April	615	275	365	.473	.53	21,700
May	2,760	422	1,280	1.66	1.91	78,700
June	2,520	1,200	1,690	2.19	2.44	101,000
July	1,200	393	692	.896	1.03	42,500
August	407	246	326	.422	.49	20,000
September	246	172	199	.258	.29	11,800
The year	2,760	-	478	.619	8.39	346,000
1923-24						
October	257	197	234	.303	.35	14,400
November	252	197	211	.273	.31	12,600
December	-	-	e190	.246	.28	11,700
January	-	-	e170	.220	.26	10,500
February	-	-	e215	.278	.30	12,400
March	-	-	e250	.324	.37	15,400
April	590	224	313	.405	.45	18,600
May	2,700	641	1,570	2.03	2.34	96,500
June	1,070	418	741	.960	1.07	44,100
July	409	240	338	.438	.50	20,800
August	237	150	204	.264	.30	12,500
September	157	138	146	.189	.21	8,690
The year	2,700	-	383	.496	6.74	278,000
1924-25						
October	-	-	-	-	-	-
November	240	182	201	.260	.14	5,580
December	351	115	172	.223	.26	10,600
January	-	-	186	.241	.28	11,400
February	-	-	179	.232	.24	9,940
March	323	148	204	.264	.30	12,500
April	1,080	285	655	.848	.95	39,000
May	3,540	810	2,230	2.89	3.33	137,000
June	2,520	997	1,660	2.15	2.40	98,900
July	1,190	288	499	.646	.74	30,700
August	288	194	243	.315	.36	14,900
September	224	176	193	.250	.28	11,500
The period	-	-	-	-	-	382,000

e Estimated.

Monthly discharge of Rock Creek near Quigley, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1925-26						
October	218	198	205	0.266	0.31	12,600
November	218	159	189	.245	.27	11,200
December	189	152	172	.223	.26	10,600
January	204	137	162	.210	.24	9,960
February	172	141	160	.207	.22	8,890
March	229	137	175	.227	.26	10,800
April	1,520	154	537	.696	.78	32,000
May	1,520	686	1,070	1.39	1.60	65,800
June	1,080	371	780	1.01	1.13	46,400
July	371	189	260	.337	.39	16,000
August	229	159	186	.241	.28	11,400
September	208	170	194	.251	.28	11,500
The year	1,520	137	341	.442	6.02	247,000
1926-27						
October	235	208	226	.293	.34	13,900
November	294	163	209	.271	.30	12,400
December 1-18	326	185	268	.347	.23	9,570
March	286	200	236	.306	.35	14,500
April	1,630	200	434	.362	.63	25,800
May	3,840	745	1,930	2.50	2.89	119,000
July	1,810	500	879	1.14	1.30	54,000
August	500	337	429	.556	.64	26,400
September	337	302	318	.412	.46	18,900

East Fork of Rock Creek near Philipsburg, Mont.

Location.- Staff gage, lat. 46°08'10", long. 113°23'10", in NW¼ sec. 5, T. 4 N., R. 14 W., 200 feet upstream from Flint Creek Canal, 300 feet downstream from Rock Creek Dam, 3 miles upstream from Meadow Creek, and 14 miles southwest of Philipsburg. Prior to Oct. 10, 1936, at site 600 feet upstream at different datum.
Records available.- June 1935 to September 1938.
Extremes.- Maximum discharge observed, 269 second-feet June 15, 1935 (gage height, 3.06 feet, site and datum then in use); minimum observed, 2.1 second-feet Jan. 8-17, 1938 (gage height, 0.56 foot).
Remarks.- Flow completely regulated after Oct. 15, 1936, by Rock Creek Reservoir (capacity, 16,200 acre-feet).

Monthly discharge of East Fork of Rock Creek near Philipsburg, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
June 4-30, 1935	253	84	162	8,670
July	116	32	59.5	3,660
August	31	21	24.7	1,520
September	21	17	18.9	1,120
The period	-	-	-	14,970
October 1935	17	15	15.2	936
November	18	16	16.6	990
December	18	15	16.5	1,020
January 1936	18	11	14.0	859
February	10	4.5	7.50	431
March	4.9	4.1	4.64	285
April	12	3.4	6.63	394
May	160	12	71.4	4,390
June	188	42	78.9	4,690
July	39	23	30.7	1,890
August	24	18	20.5	1,260
September	19	15	16.7	992
Water year 1935-36	188	3.4	25.0	18,140

Monthly discharge of East Fork of Rock Creek near Philipsburg, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 1936	15	13	14.1	869
November	14	7.6	11.9	710
December	12	9.5	11.0	678
Calendar year 1936	188	3.4	24.0	17,450
January 1937	-	-	8.48	522
February	8.0	5.0	5.91	328
March	7.6	5.0	6.43	395
April	11	7.6	9.32	555
May	39	10	17.8	1,100
June	123	18	47.4	2,820
July	-	-	25.2	1,550
August	-	19	22.8	1,400
September	21	18	18.5	1,100
Water year 1936-37	123	5.0	16.6	12,030
October 1937	17	15	15.9	980
November	15	2.3	5.70	339
December	2.9	2.3	2.58	159
Calendar year 1937	123	2.3	15.5	11,250
January 1938	2.4	2.1	2.24	138
February	2.5	2.3	2.36	131
March	2.9	2.5	2.60	160
April	3.8	2.5	3.13	186
May	18	3.3	8.02	493
June	113	5.6	51.6	3,070
July	122	56	72.1	4,430
August	68	37	52.1	3,200
September	56	46	51.3	3,050
Water year 1937-38	122	2.1	22.6	16,340

Ranch Creek near Quigley, Mont.

Location.- Staff gage, lat. 46°35', long. 113°40', in NE¼ sec. 36, T. 10 N., R. 17 W. (unsurveyed), a quarter of a mile upstream from mouth and 2¼ miles south of Quigley.
Drainage area.- 42.7 square miles.
Records available.- May 1922 to September 1927.
Extremes.- Maximum discharge observed, 238 second-feet May 19, 20, 1922; minimum observed, 10.7 second-feet Feb. 1, 1924.
Remarks.- No large diversions above gage.

Monthly discharge of Ranch Creek near Quigley, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1922						
May, 2-31	238	76	143	3.35	3.74	8,510
June	226	86	155	3.63	4.05	9,220
July	81	38	55.4	1.30	1.50	3,410
August	38	26	32.0	.750	.87	1,970
September	31	23	25.2	.590	.66	1,500
The period	-	-	-	-	-	24,600
1922-23						
October	23	18	20.3	.475	.55	1,250
November	20	18	18.6	.436	.47	1,110
December	-	-	18.0	.422	.49	1,110
January	19	16	18.0	.422	.47	1,110
February	-	-	16.0	.375	.39	889
March	30	15	16.3	.382	.44	1,000
April	56	16	32.8	.768	.86	1,950
May	145	35	82.4	1.93	2.22	5,070
June	115	73	80.0	1.87	2.09	4,760
July	73	36	56.1	1.31	1.51	3,450
August	42	30	35.7	.836	.96	2,200
September	30	30	30.0	.703	.78	1,790
The year	145	15	35.4	.829	11.25	25,700

Monthly discharge of Ranch Creek near Quigley, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1923-24						
October	36	29	30.4	0.712	0.82	1,870
November	28	21	26.5	.621	.69	1,580
December	-	-	e16.0	.375	.43	984
January	-	-	e12.0	.281	.32	738
February	112	11	43.1	1.01	1.09	2,480
March	81	30	32.0	.750	.87	1,970
April	51	22	31.2	.731	.82	1,860
May	164	70	115.0	2.69	3.10	7,070
June	78	32	52.0	1.22	1.36	3,090
July	38	36	37.8	.886	1.02	2,320
August	36	20	26.5	.621	.72	1,630
September	21	18	19.8	.464	.52	1,180
The year	164	-	36.9	.864	11.76	26,800
1924-25						
November 17-30	27	22	25.1	.588	.31	697
December	27	15	22.2	.520	.60	1,360
January	19	18	18.5	.433	.50	1,140
February	21	16	18.6	.436	.45	1,030
March	25	18	20.3	.475	.55	1,250
April	101	25	61.8	1.45	1.62	3,680
May	145	73	112	2.63	3.03	6,890
June	101	68	80.5	1.89	2.11	4,790
July	76	34	45.4	1.06	1.22	2,790
August	36	32	33.2	.778	.90	2,040
September	32	25	27.9	.513	.57	1,660
The period	-	-	-	-	-	27,300
1925-26						
October	25	24	24.6	.576	.66	1,510
November	25	24	24.3	.569	.64	1,450
December	25	18	22.2	.520	.60	1,360
March 21-31	20	19	19.8	.469	.19	432
April	67	18	36.4	.852	.95	2,170
May	63	42	48.0	1.12	1.29	2,950
June	44	28	36.2	.848	.94	2,150
July	29	18	21.7	.508	.58	1,330
August	18	17	17.7	.415	.48	1,090
September	18	17	17.6	.412	.46	1,050
1926-27						
October	18	18	18.0	.422	.49	1,110
November	21	18	18.3	.429	.48	1,090
December 1-11	38	21	24.3	.569	.23	530
March	25	18	21.2	.497	.57	1,300
April	95	21	34.4	.206	.90	2,050
May	138	39	84.1	1.97	2.27	5,170
June	217	81	138	3.23	3.61	8,210
July	67	38	49.9	1.17	1.35	3,070
August	38	26	30.9	.724	.83	1,900
September	30	26	26.4	.618	.69	1,570

Blackfoot River at Clearwater, Mont.

Location.- Wire-weight gage, lat. 46°58', long. 113°22', in sec. 16, T. 14 N., R. 14 W., 300 feet upstream from Clearwater River, 200 feet upstream from highway bridge, and 1 mile south of Clearwater post office.
Drainage area.- 1,320 square miles.
Records available.- June 1921 to September 1923.
Extremes.- Maximum discharge observed, 7,820 second-feet June 6, 1922 (gage height, 6.4 feet); minimum observed, 410 second-feet Nov. 13-21, 1923 (gage height, 1.00 foot).
Remarks.- Several small diversions above station for irrigation.

Monthly discharge of Blackfoot River at Clearwater, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1921				
June 9-30	6,290	2,270	3,930	171,000
July	2,200	832	1,290	79,300
August	812	543	665	40,900
September	572	487	520	30,900
The period	-	-	-	322,000

Monthly discharge of Blackfoot River at Clearwater, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1921-22				
October	543	487	517	31,800
November 1-19	514	487	504	19,000
April 26-30	1,030	960	998	9,900
May	7,480	937	3,420	210,000
June	7,820	1,740	4,910	292,000
July	1,680	772	1,090	67,000
August	772	543	642	39,500
September	572	435	504	30,000
1922-23				
October	460	435	441	27,100
November	460	410	429	25,500
April 16-30	1,130	514	791	23,500
May	6,630	1,230	3,520	216,000
June	5,950	2,480	3,970	236,000
July	2,200	894	1,340	82,400
August	851	572	695	42,700
September	572	487	512	30,500

Blackfoot River near Bonner, Mont.

Location.- Chain gage, lat. 46°53', long. 113°52', in NW¼ sec. 21, T. 13 N., R. 18 W., at highway bridge an eighth of a mile upstream from mouth and half a mile west of Bonner.
Drainage area.- 2,465 square miles.
Records available.- July 1898 to June 1901, May 1903 to October 1905.
Extremes.- Maximum daily discharge, 17,240 second-feet June 20, 1899 (gage height, 8.70 feet); minimum daily, 320 second-feet Mar. 12, 1905 (gage height, 0.05 foot).
Remarks.- Considerable regulation at power dam half a mile upstream. Several diversions above station for irrigation.

Monthly discharge of Blackfoot River near Bonner, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1898						
July	5,520	1,550	a2,797	1.13	1.30	172,000
August	1,613	975	1,190	.48	.55	73,200
September	1,030	887	962	.39	.44	57,200
1898-99						
October	1,185	837	968	.39	.45	59,500
November	1,090	850	897	.36	.40	53,400
December	1,185	850	a939	.38	.44	57,700
March	1,390	730	a831	.34	.39	51,100
April	7,416	740	2,516	1.02	1.14	150,000
May	14,598	2,112	7,699	3.12	3.60	473,000
June	17,244	10,818	13,615	5.52	6.16	810,000
July	12,078	2,810	6,557	2.66	3.07	403,000
August	2,810	1,420	1,921	.78	.90	118,000
September	1,460	1,050	1,250	.51	.57	74,400
1899-1900						
October	1,205	965	1,073	.44	.51	66,000
November	1,275	990	1,074	.44	.49	63,900
December	1,420	865	1,012	.41	.47	62,200
January	945	662	787	.32	.37	48,400
February	743	460	634	.26	.27	35,200
March	3,125	380	1,278	.52	.60	78,600
April	3,749	1,310	2,707	1.10	1.23	161,000
May	12,559	3,514	6,566	2.66	3.07	404,000
June	4,074	1,880	3,116	1.26	1.41	185,000
July	1,830	1,026	1,349	.55	.63	83,000
August	1,067	864	944	.38	.44	58,000
September	986	743	859	.35	.39	51,100
The year	12,559	380	1,790	.726	9.88	1,300,000

a Partly estimated.

Monthly discharge of Blackfoot River near Bonner, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1900-1901						
October	945	662	773	0.31	0.36	47,500
November	824	662	a760	.31	.35	45,200
December	1,067	581	a749	.30	.35	46,000
January	1,060	550	673	.27	.31	41,400
February	1,310	450	580	.24	.25	32,200
March	3,988	550	1,017	.41	.47	62,500
April	2,950	585	1,186	.48	.54	70,600
May	12,302	3,899	8,552	3.47	4.00	526,000
June	7,676	2,650	3,698	1.50	1.67	220,000
The period	-	-	-	-	-	1,090,000
1903						
May 15-31	6,060	2,730	4,334	1.758	1.11	146,000
June	-	-	a7,575	3.073	3.43	451,000
July	3,220	1,425	2,191	.889	1.02	135,000
August	1,470	920	1,105	.448	.52	67,900
September	1,070	780	889	.361	.40	52,000
1903-4						
October	1,180	890	1,011	.410	.47	62,200
November	1,040	830	920	.373	.42	54,700
December	1,470	805	920	.373	.43	56,600
January	810	605	666	.270	.31	41,000
February	635	525	574	.233	.25	33,000
March	1,020	525	668	.271	.31	41,100
April	7,500	705	3,785	1.535	1.71	225,000
May	8,820	4,250	6,066	2.461	2.84	373,000
June	6,540	2,330	4,217	1.711	1.91	251,000
July	2,395	1,140	1,638	.664	.77	101,000
August	1,140	740	898	.364	.42	55,200
September	810	550	684	.277	.31	40,700
The year	8,820	525	1,838	.746	10.15	1,330,000
1904-5						
October	1,260	440	581	.236	.27	35,700
November	550	440	509	.206	.23	30,300
December	610	420	472	.191	.22	29,000
January 1-11, 27-31	1,120	365	572	.232	.14	18,200
March	940	320	459	.186	.21	28,200
April	735	365	463	.188	.21	27,600
May	2,420	700	1,294	.525	.60	79,600
June	4,360	1,760	2,936	1.19	1.33	175,000
July	1,760	770	1,079	.437	.50	66,400
August	735	440	565	.229	.26	34,700
September	500	340	407	.165	.18	24,200
October	560	365	465	.189	.22	28,600

a Partly estimated.

Nevada Creek near Finn, Mont.

Location.- Staff gage, lat. 46°48', long. 112°48', in NE¼ sec. 13, T. 12, N., R. 10 W., 6 miles west of Finn.
Records available.- May 1934 to September 1938.
Extremes.- Maximum discharge, 1,200 second-feet (estimated) Apr. 11, 1936 (gage height, 4.26 feet from floodmark); minimum discharge observed, 4.6 second-feet Sept. 18-20, 1937 (gage height, 0.94 foot).
Remarks.- Some diversions above station for irrigation.

Monthly discharge of Nevada Creek near Finn, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
May 10-31, 1934	98	31	53.5	2,330
June	72	23	36.6	2,180
July	19	7.7	13.4	826
August	14	8.7	10.5	646
September	13	8.7	10.5	627
The period	-	-	-	6,610

Monthly discharge of Nevada Creek near Finn, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 1934	16	11	12.7	780
November	14	-	12.5	744
April 1935	146	-	41.7	2,480
May	86	20	38.6	2,380
June	51	22	34.0	2,030
July	35	11	18.1	1,110
August	12	5.6	7.96	490
September	7.1	5.0	5.89	350
October 1935	13	5.6	8.8	540
November	-	-	8.5	506
December	-	-	9.0	553
January 1936	-	-	9.5	584
February	-	-	10.0	575
March	-	-	14.2	873
April	340	10	102	6,080
May	152	30	82.0	5,040
June	90	20	40.7	2,420
July	21	10	15.0	922
August	13	8.4	10.2	629
September	14	9.2	10.4	620
Water year 1935-36	340	5.6	26.6	19,340
October 1936	12	9.2	9.95	612
November	12	8.4	10.6	629
December	-	-	9.0	553
Calendar year 1936	340	8.4	26.9	19,540
January 1937	-	-	9.5	584
February	-	-	10.0	555
March	-	-	11.0	678
April	102	12	39.1	2,330
May	56	31	43.5	2,680
June	44	20	28.9	1,720
July	21	7.6	13.1	805
August	12	5.1	7.48	460
September	9.6	4.6	6.33	377
Water year 1936-37	102	4.6	16.5	11,980
October 1937	7.0	5.6	6.34	390
November	-	-	7.07	421
December	-	-	6	369
Calendar year 1937	102	4.6	15.7	11,370
January 1938	-	-	6	369
February	-	-	6	333
March	-	-	11.6	714
April	265	.10	96.3	5,730
May	344	57	151	9,310
June	220	45	107	6,390
July	235	23	69.5	4,270
August	22	15	17.7	1,090
September	15	8.2	9.89	588
Water year 1937-38	344	-	41.4	29,970

North Fork of Blackfoot River near Ovando, Mont.

Location.- Wire-weight gage, lat. 47°03', long. 112°59', in NW¼ sec. 22, T. 15 N., R. 11 W., at Pitkins ranch, 11 miles northeast of Ovando.
Drainage area.- 227 square miles.
Records available.- June 1921 to September 1923.
Extremes.- Maximum discharge observed, 2,900 second-feet June 5, 1922 (gage height, 7.58 feet); minimum observed, 27 second-feet Nov. 6-16, 1922, and Apr. 15, 1923 (gage height, 2.44 and 2.43 feet respectively).
Remarks.- Two small diversions above station for irrigation.

Monthly discharge of North Fork of Blackfoot River near Ovando, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1921						
June 8-30	2,400	644	1,330	5.86	5.01	60,700
July	604	140	280	1.23	1.42	17,200
August	136	57	84.4	.372	.43	5,190
September	56	38	46.4	.209	.23	2,760
The period	-	-	-	-	-	85,800
1921-22						
October	38	30	34.5	.152	.18	2,120
November 1-16	30	27	27.8	.122	.07	882
May	2,590	57	882	3.89	4.48	54,200
June	2,820	539	1,620	7.14	7.97	96,400
July	498	128	255	1.12	1.29	15,700
August	124	63	92.5	.407	.47	5,690
September	67	43	53.7	.237	.26	3,200
1923						
April 15-30	358	27	116	.511	.30	3,680
May	2,500	242	1,220	5.37	6.19	75,000
June	2,320	858	1,440	6.34	7.08	85,700
July	748	142	374	1.65	1.90	23,000
August	146	90	111	.489	.56	6,820
September 1-15	90	64	71.9	.317	.18	2,140

Clearwater River at Clearwater, Mont.

Location.- Wire-weight gage, lat. 46°58', long. 113°22', in sec. 16 T. 14 N., R. 14 W., 400 feet upstream from mouth and 1 mile south of Clearwater post office.
Drainage area.- 398 square miles.
Records available.- June 1921 to September 1923.
Extremes.- Maximum discharge observed, 2,400 second-feet May 12 and 26, 1922 (gage height, 3.9 feet); minimum observed, 30 second-feet Oct. 23 and Nov. 21, 1922 (gage height, 0.7 foot).
Remarks.- Several diversions above station for irrigation.

Monthly discharge of Clearwater River at Clearwater, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1921						
June 9-30	1,310	375	687	1.73	1.41	30,000
July	375	112	203	.510	.59	12,500
August	105	55	82.1	.206	.24	5,050
September	55	45	54.2	.136	.15	3,230
The period	-	-	-	-	-	50,800
1921-22						
October	55	55	55.0	.138	.16	3,380
November 1-19	55	45	51.3	.129	.09	1,930
April 26-31	578	318	443	1.11	.21	4,390
May	2,400	615	1,560	3.92	4.52	95,900
June	2,250	505	1,270	3.19	3.56	75,600
July	470	155	300	7.54	.87	18,400
August	155	65	88.6	.223	.26	5,450
September	90	65	73.0	.183	.20	4,340
1922-23						
October	52	30	36.0	.090	.10	2,210
November	45	30	32.9	.083	.09	1,960
April 16-30	950	345	629	1.58	.88	18,700
May	1,600	860	1,280	3.22	3.71	78,700
June	1,400	470	947	2.38	2.66	56,400
July	470	138	271	.681	.79	16,700
August	155	90	118	.296	.34	7,260
September	90	45	65.3	.164	.18	3,890

Rattlesnake Creek at Missoula, Mont.

Location.- Chain gage, lat. 46°52', long. 113°59', at Ivy Street Bridge in Missoula.
Records available.- May to December 1899.
Extremes.- Maximum discharge observed, 2,047 second-feet June 18 (gage height, 6.25 feet); minimum observed, 36 second-feet Dec. 16 (gage height, 2.30 feet).
Remarks.- Many diversions above station for irrigation. Some regulation by power plant of cabinet shop in Missoula.

Monthly discharge of Rattlesnake Creek at Missoula, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1899				
May 27-31	-	-	846	-
June	2,047	490	1,197	71,200
July	1,200	94	511	31,400
August	87	52	63	3,870
September	72	46	57	3,390
October	80	44	70	4,300
November	94	52	64	3,810
December	94	36	74	4,550
The period	-	-	-	123,000

West Fork of Bitterroot River near Darby, Mont.

Location.- Chain gage, lat. 45°54', long. 114°11', in sec. 27, T. 2 N., R. 21 W., 500 feet downstream from Trapper Creek ranger station, half a mile downstream from Trapper Creek, and 10 miles south of Darby.
Drainage area.- 572 square miles.
Records available.- September 1910 to September 1916.
Extremes.-Maximum discharge observed, 6,420 second-feet May 27, 1913 (gage height, 7.4 feet); minimum observed, 106 second-feet Aug. 28 to Sept. 7, 1914 (gage height, 1.85 feet).
Remarks.- No diversion or regulation.

Monthly discharge of West Fork of Bitterroot River near Darby, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1910						
September 19-30	177	140	160	0.280	0.12	3,810
1910-11						
October	335	140	236	.413	.48	14,500
November	580	170	372	.650	.73	22,100
December	330	191	261	.456	.53	16,000
March 20-31	705	408	557	.974	.43	13,200
April	1,750	462	808	1.41	1.57	-
May	2,830	1,180	1,760	3.08	3.55	108,000
June	4,000	1,330	2,750	4.81	5.37	164,000
July	1,580	295	683	1.19	1.37	42,000
August	355	176	231	.404	.47	14,200
September	205	170	177	.309	.34	10,500
October	245	170	191	.334	.39	11,700
1912						
March 24-31	640	465	547	.956	.28	8,680
April	1,300	492	833	1.46	1.63	49,600
May	4,660	798	2,930	5.12	5.90	180,000
June	5,340	2,450	4,080	7.13	7.96	243,000
July	2,900	656	1,060	1.85	2.13	65,200
August 1-8	652	415	560	.379	.29	8,890
The period	-	-	-	-	-	555,000
1913						
April	2,170	216	1,060	1.85	2.07	63,100
May	6,420	975	3,130	5.47	6.31	192,000
June	5,520	1,480	3,220	5.63	6.28	192,000
July	1,480	472	909	1.59	1.83	55,900
August	465	202	288	.504	.58	17,700
September	209	175	189	.330	.37	11,200
1913-14						
November	227	192	210	.367	.41	12,500
March	310	-	229	.400	.46	14,100
April	1,300	340	760	1.33	1.48	45,200
May	3,200	765	2,070	3.62	4.17	127,000
June	3,050	798	1,430	2.50	2.79	85,100
July	865	271	477	.834	.96	29,300
August	290	106	167	.292	.34	10,300
September	290	106	168	.292	.33	10,000
1915						
July	975	370	647	-	-	39,800
August	370	150	252	-	-	15,500

Monthly discharge of West Fork of Bitterroot River near Darby, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1915-16						
October 11-31	216	150	175	0.306	0.24	7,290
November 1-10	150	150	150	.162	.06	2,980
April	3,050	520	1,160	2.06	2.30	69,000
May	4,830	1,220	2,040	3.57	4.12	125,000
June	5,520	1,690	3,270	5.72	6.38	195,000
July	3,200	580	1,600	2.80	3.23	98,400
August	580	216	344	.602	.69	21,200

Bitterroot River near Darby, Mont.

Location.- Wire-weight gage, lat. 45°59', long. 114°09', in NE¼ sec. 36, T. 3 N., R. 21 W., at bridge on U. S. Highway 93, a quarter of a mile downstream from Chaffin Creek and 4 miles southeast of Darby.
Drainage area.- 1,050 square miles.
Records available.- April 1937 to September 1938.
Extremes.- Maximum discharge observed, 5,480 second-feet May 29, 1938 (gage height, 6.51 feet); minimum observed, 84 second-feet Dec. 9, 1937 (gage height, 1.06 feet).
Remarks.- Many diversions above station for irrigation.

Monthly discharge of Bitterroot River near Darby, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1937				
April 4-30	611	169	322	17,260
May	2,650	487	1,966	120,900
June	1,880	753	1,380	82,140
July	680	230	376	23,110
August	244	116	146	8,980
September	160	106	129	7,660
The period	-	-	-	260,000
1937-38				
October	160	135	143	8,800
November	180	130	158	9,390
December	430	88	185	11,380
January	190	135	166	10,210
February	202	138	167	9,290
March	287	172	224	13,800
April	2,500	199	938	55,820
May	5,340	1,130	2,583	158,800
June	4,220	1,570	2,705	160,900
July	1,680	404	910	55,970
August	378	216	275	16,890
September	223	155	184	10,980
The year	5,340	88	721	522,200

Bitterroot River near Grantsdale, Mont.

Location.- Chain gage, lat. 46°12', long. 114°10', in sec. 13, T. 5 N., R. 21 W., at highway bridge 2 miles southwest of Grantsdale.
Drainage area.- 1,550 square miles.
Records available.- April 1902 to December 1907.
Extremes.- Maximum discharge observed, 12,880 second-feet June 3, 1903 (gage height, 7.30 feet); minimum observed, 5 second-feet Sept. 19-22, 1905 (gage height, 1.0 foot).
Remarks.- Several diversions above station for irrigation.

Monthly discharge of Bitterroot River near Grantsdale, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1902						
April 25-30	-	-	1,085	0.70	0.16	12,900
May	11,075	900	4,823	3.11	3.59	297,000
June	9,285	3,050	5,176	3.34	3.73	308,000
July	3,700	900	2,143	1.38	1.59	132,000
August	790	205	428	.28	.32	26,300
September	205	135	167	.11	.12	9,940
The period	-	-	-	-	-	786,140
1902-3						
October	280	205	242	.16	.18	14,900
November	615	280	353	.23	.26	21,000
December	1,150	340	472	.30	.35	29,000
January	700	395	518	.334	.38	31,800
February	530	395	471	.304	.32	26,200
March	1,150	340	519	.335	.39	31,900
April	3,050	615	1,409	.909	1.01	83,800
May	6,150	1,745	3,031	1.955	2.26	186,000
June	12,875	4,575	7,968	5.141	5.74	474,000
July	3,700	700	1,912	1.234	1.42	118,000
August	700	175	334	.215	.25	20,500
September	1,150	150	481	.310	.35	28,600
The year	12,875	150	1,472	.950	12.91	1,070,000
1903-4						
October	1,585	460	825	.532	.62	50,700
November	790	530	615	.397	.44	36,600
December	1,020	530	650	.419	.48	40,000
January	450	225	296	.191	.22	18,200
February	540	225	323	.208	.22	18,600
March	930	290	490	.316	.36	30,100
April	5,230	540	2,783	1.795	2.00	166,000
May	11,825	3,620	5,868	3.786	4.36	361,000
June	7,425	3,060	5,208	3.360	3.75	310,000
July	3,335	770	1,899	1.225	1.41	117,000
August	675	88	246	.159	.18	15,100
September	115	65	74	.048	.05	4,400
The year	11,825	65	1,609	1.04	14.09	1,170,000
1904-5						
October	170	55	118	.076	.09	7,260
November	225	130	179	.115	.13	10,600
December	225	170	181	.117	.14	11,100
January	392	360	a385	.248	.29	23,700
February	428	360	a394	.254	.26	21,900
March	592	360	485	.313	.36	29,800
April	2,105	360	915	.590	66	54,400
May	3,215	920	1,544	.996	1.15	94,900
June	5,235	1,825	3,276	2.11	2.35	195,000
July	2,435	395	1,111	.717	.83	68,300
August	395	50	168	.108	.12	10,300
September	145	5	44	.029	.03	2,640
The year	5,235	5	732	.472	6.41	530,000
1905-6						
October	325	145	247	.159	.18	15,200
November	395	200	264	.170	.19	15,700
December	-	-	a260	.168	.19	16,000
January	470	200	a359	.232	.27	22,100
February	-	200	a380	.245	.26	21,100
March	725	325	450	.290	.34	27,800
April	3,550	510	1,370	.884	.99	81,500
May	4,110	1,825	2,800	1.81	2.09	172,000
June	4,110	1,570	2,540	1.64	1.83	151,000
July	1,700	110	866	.559	.64	53,200
August	260	60	127	.082	.09	7,810
September	260	80	157	.101	.11	9,340
The year	4,110	60	819	.528	7.18	593,000

a Partly estimated.

Monthly discharge of Bitterroot River near Grantsdale, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1906-7						
October	1,450	150	386	.249	.29	23,700
November	8,100	470	1,650	1.06	1.18	98,200
December	1,020	592	750	.484	.56	46,100
January	685	430	a541	.349	.40	33,300
February	932	685	793	.512	.53	44,000
March	1,210	430	694	.448	.52	42,700
April	3,840	880	2,010	1.30	1.45	120,000
May	9,430	1,730	5,610	3.62	4.17	345,000
June	11,800	4,380	7,250	4.68	5.22	431,000
July	7,390	1,800	4,040	2.61	3.01	248,000
August	1,730	315	803	.518	.60	49,400
September	830	350	583	.376	.42	34,700
The year	11,800	150	2,090	1.35	18.35	1,520,000
1907						
October	430	280	367	.237	.27	22,600
November	390	280	351	.226	.25	20,900
December	470	280	351	.226	.26	21,600

a Partly estimated.

Yearly discharge of Bitterroot River near Grantsdale, Mont.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1903	1,472	0.950	12.91	1,070,000	1,558	1.01	13.66	1,130,000
1904	1,609	1.04	14.09	1,170,000	1,473	.950	12.91	1,070,000
1905	732	.472	6.41	530,000	757	.488	6.61	548,000
1906	819	.528	7.18	593,000	986	.636	8.65	714,000
1907	2,090	1.35	18.35	1,520,000	1,952	1.26	17.10	1,410,000

Bitterroot River near Missoula, Mont.

Location.- Wire-weight gage, lat. 46°51', long. 114°06', in SW¼ sec. 26, T. 13 N., R. 20 W., at highway bridge half a mile upstream from mouth and 7 miles southwest of Missoula.
Drainage area.- 3,260 square miles.
Records available.- July 1898 to November 1901, June to July 1903, January to December 1904.
Extremes.- Maximum daily discharge, 37,440 second-feet June 20, 1899 (gage height, 11.45 feet); minimum daily, 370 second-feet Sept. 16-29, 1904 (gage height, 1.12 feet).
Remarks.- Many diversions above station for irrigation.

Monthly discharge of Bitterroot River near Missoula, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
July 1898	7,930	2,000	a4,148	1.27	1.46	255,000
August	1,930	950	1,201	.37	.43	73,800
September	1,190	875	1,021	.31	.35	60,800

a Partly estimated.

Monthly discharge of Bitterroot River near Missoula, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
October 1898	1,325	1,025	1,149	0.35	0.40	70,600
November	1,278	1,075	1,154	.35	.39	68,700
December	1,730	1,000	a1,137	.35	.40	69,900
January 1899	-	-	e1,200	.37	.43	73,800
February	-	-	e1,000	.31	.32	55,500
March	1,255	930	1,070	.33	.38	65,800
April	4,230	1,122	2,842	.87	.97	169,000
May	15,800	2,680	7,729	2.37	2.73	475,000
June	37,437	11,400	21,876	6.71	7.49	1,300,000
July	23,600	5,440	14,497	4.45	5.13	891,000
August	5,330	1,985	3,411	1.05	1.21	210,000
September	2,160	1,122	1,622	.50	.56	96,500
Water year 1898-99	37,437	-	4,898	1.50	20.41	3,550,000
October 1899	2,160	1,122	1,470	.45	.52	90,400
November	1,830	1,165	1,477	.45	.50	87,900
December	1,540	1,165	1,351	.41	.47	83,100
Calendar year 1899	37,437	-	4,970	1.52	20.71	3,600,000
January 1900	1,540	1,080	1,221	.37	.43	75,100
February	-	-	a1,084	.33	.34	60,200
March	2,280	910	a1,652	.51	.59	102,000
April	4,600	1,930	3,626	1.11	1.24	216,000
May	18,150	6,400	9,871	3.03	3.49	607,000
June	10,650	4,060	7,352	2.26	2.52	438,000
July	3,570	980	1,820	.56	.65	112,000
August	1,010	800	869	.27	.31	53,400
September	1,350	950	1,137	.35	.39	67,700
Water year 1899-1900	18,150	800	2,753	.84	11.45	1,993,000
October 1900	8,250	1,010	2,838	.87	1.00	174,000
November	1,930	1,122	a1,373	.42	.47	81,700
December	1,350	950	1,148	.35	.40	70,600
Calendar year 1900	18,150	800	2,842	.87	11.83	2,058,000
January 1901	-	-	a1,360	.42	.49	83,600
February	-	-	a1,401	.43	.45	77,800
March	2,750	1,390	1,691	.52	.60	104,000
April	-	-	a1,866	.57	.51	81,400
May	18,375	7,210	11,025	3.38	3.90	678,000
June	11,700	3,050	5,020	1.54	1.72	299,000
July	3,650	1,225	2,667	.82	.95	164,000
August	1,200	940	995	.31	.36	61,200
September	1,320	940	1,130	.35	.39	67,500
Water year 1900-1901	18,375	940	2,684	.82	11.24	1,943,000
October 1901	1,250	1,080	1,157	.36	.42	71,100
November	1,175	1,100	1,149	.35	.39	68,400
June 1903	18,000	7,300	12,170	3.73	4.16	724,000
July	7,000	2,800	4,280	1.31	1.51	263,000
January 1904	1,075	685	799	.245	.28	49,100
February	1,525	545	788	.242	.26	45,300
March	3,060	830	1,434	.440	.51	88,200
April	9,140	1,435	4,592	1.409	1.57	273,000
May	18,320	5,140	9,031	2.770	3.19	555,000
June	11,520	4,940	a8,397	2.576	2.87	500,000
July	6,050	1,870	3,469	1.064	1.23	213,000
August	1,770	545	a1,190	.365	.42	73,200
September	615	370	455	.140	.16	27,100
October	685	405	568	.174	.20	35,000
November	685	680	614	.188	.21	36,500
December	650	440	530	.163	.19	32,600
Calendar year 1904	18,320	370	2,656	.815	11.09	1,928,000

a Partly estimated.
e Estimated.

East Fork of Bitterroot River at Conner, Mont.

Location.- Wire-weight gage, lat. 45°56', lcng. 114°08', in SW¼ sec. 7, T. 2 N., R. 20 W., at highway bridge at Conner, about half a mile upstream from confluence with West Fork.

Drainage area.- 404 square miles; 394 square miles (revised) at previous site near Darby.

Records available.- April 1937 to September 1938. September 1910 to August 1914 at site near Darby 2⅝ miles upstream.

Extremes.- Maximum discharge observed, 2,230 second-feet May 31, 1913 (gage height, 7.0 feet, site and datum then in use); minimum observed, 1.4 second-feet Aug. 17, 1937.

Remarks.- A few small diversions above station.

Monthly discharge of East Fork of Bitterroot River at Conner, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile†	Inches†	Acre-feet
1910-11						
September 20-30	104	84	93.5	0.237	0.10	2,040
October	166	84	104	.264	.30	6,400
November	166	66	111	.282	.31	6,600
December	145	50	108	.274	.32	6,640
April 7-30	428	145	216	.548	.49	10,300
May	749	286	583	1.48	1.71	35,800
June	1,730	655	1,200	3.05	3.40	71,400
July	890	200	369	.937	1.08	22,700
August	224	85	138	.350	.40	8,480
1912						
April 17-30	286	236	266	.675	.35	7,390
May	1,840	260	799	2.03	2.34	49,100
June	2,150	1,250	1,800	4.57	5.01	107,000
July	1,430	286	597	1.52	1.75	36,700
August	332	167	231	.586	.86	14,200
September 1-5	286	186	227	.576	.11	2,250
The period	-	-	-	-	-	217,000
1913						
April	446	150	287	.728	.81	17,100
May	2,200	292	1,010	2.56	2.95	62,100
June	2,140	760	1,480	3.76	4.20	88,100
July	810	266	439	1.11	1.28	27,000
August	252	102	173	.439	.51	10,600
The period	-	-	-	-	-	205,000
1913-14						
March	102	85	87.9	.223	.26	5,400
April	320	94	202	.513	.57	12,000
May	1,360	238	860	2.18	2.51	52,900
June	1,540	379	744	1.89	2.10	44,300
July	-	162	264	.670	.77	16,200
August	-	-	104	.264	.30	6,400
The period	-	-	-	-	-	137,000
1937						
April 4-30	136	44	76.6	.190	.19	4,100
May	650	110	408	1.01	1.16	25,110
June	411	130	310	.769	.86	18,420
July	118	48	80.5	.200	.23	4,950
August	55	5.3	23.1	.057	.07	1,420
September	39	8.0	22.5	.056	.06	1,340
The period	-	-	-	-	-	55,340
1937-38						
October	53	38	43.3	.107	.12	2,660
November	54	38	44.9	.111	.12	2,670
December	114	30	59.7	.148	.17	3,670
January	-	-	44.9	.111	.13	2,760
February	91	46	69.4	.172	.18	3,850
March	79	51	63.7	.158	-	3,920
April	452	59	168	.417	.47	10,100
May	1,700	328	721	1.79	2.06	44,360
June	1,430	496	853	2.12	2.36	50,740
July	609	105	291	.722	.83	17,910
August	100	45	63.5	.158	.18	3,910
September	47	20	33.6	.083	.09	2,000
The year	1,700	20	205	.509	6.71	148,500

† Figures for 1910-14 recomputed on basis of revised figure of drainage area.

Skalkaho Creek near Hamilton, Mont.

Location.- Staff gage, lat. 46°10', long. 113°59', in SW¼ sec. 28, T. 5 N., R. 19 W., at bridge on J. A. Brennan's ranch, 9 miles southeast of Hamilton.
Records available.- April 1920 to September 1924.
Extremes.- Maximum discharge observed, 1,110 second-feet June 14, 1922 (gage height, 3.80 feet); minimum observed, 14 second-feet Mar. 26 to Apr. 5, 1924 (gage height, 1.30 feet).
Remarks.- No diversions or regulation.

Monthly discharge of Skalkaho Creek near Hamilton, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1920				
April 20-30	32	27	28.7	626
May	195	30	114	7,010
June	520	152	375	22,300
July	437	78	191	11,700
August	78	42	57.6	3,540
September	78	37	42.5	2,530
The period	-	-	-	47,700
1920-21				
October	60	36	42.7	2,630
November	60	34	36.9	2,200
December 1-8	36	32	32.8	520
March	31	27	29.0	1,780
April	47	28	39.4	2,340
May	755	50	342	21,000
June	886	226	524	31,200
July	210	74	123	7,560
August	74	47	57.3	3,520
September	60	37	44.9	2,670
1921-22				
October	37	34	36.0	2,210
November 1-17	34	32	33.4	1,130
April	37	27	31.7	1,890
May	474	37	171	10,500
June	1,070	243	652	38,800
July	243	89	149	9,160
August	82	47	62.0	3,810
September	60	37	43.8	2,610
1922-23				
October	37	32	34.8	2,140
April	69	30	39.2	2,330
May	437	47	176	10,800
June	595	236	412	24,500
July	363	100	191	11,700
August	100	47	68.2	4,190
September	47	37	41.5	2,470
1923-24				
October	41	30	33.6	2,070
November	30	26	28.4	1,690
December 1-3	26	26	26.0	155
March 26-31	14	14	14.0	167
April	32	14	21.7	1,290
May	462	48	268	16,500
June	259	103	175	10,400
July	103	48	73.0	4,490
August	48	26	35.4	2,180
September	26	21	25.1	1,490

Blodgett Creek near Hamilton, Mont.

Location.- Wire-weight gage, lat. 46°17', long. 114°10', in sec. 12, T. 6 N., R. 21 W., at highway bridge about 1⅛ miles upstream from mouth and 2⅛ miles north of Hamilton.
Drainage area.- 29.2 square miles.
Records available.- April to September 1938.
Extremes.- Maximum discharge observed, 606 second-feet May 28, 29 (gage height, 3.45 feet); minimum observed, 0.9 second-feet Aug. 1, 2 (gage height, 0.46 foot).
Remarks.- Many diversions above station for irrigation.

Monthly discharge of Blodgett Creek near Hamilton, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1938				
April 16-30	492	24	166	4,930
May	606	55	220	13,550
June	369	85	201	11,970
July	76	1.0	21.8	1,340
August	1.2	.9	1.12	69
September	1.3	1.0	1.08	64
The period	-	-	-	31,920

Willow Creek near Corvallis, Mont.

Location.- Staff gage, lat. 46°18', long. 114°00', in sec. 8, T. 6 N., R. 19 W., at Wiley Ranch, 6 miles southeast of Corvallis.
Records available.- April 1920 to May 1924.
Extremes.- Maximum discharge observed, 130 second-feet June 15, 1922 (gage height, 2.20 feet); minimum observed, 3.6 second-feet, Nov. 28 to Dec. 1, 1923, and Mar. 23-25, 1924 (gage height, 0.52 foot).
Remarks.- One small diversion above station for irrigation.

Monthly discharge of Willow Creek near Corvallis, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1920				
April 20-30	8.8	7.8	8.26	180
May	25	8.3	15.6	959
June	53	14	35.9	2,140
July	58	12	26.2	1,610
August	12	9.4	10.3	633
September	9.4	7.1	8.27	492
The period	-	-	-	6,010
1920-21				
October	8.9	8.6	8.61	529
November	12.0	7.1	8.33	496
March	6.4	5.7	5.77	355
April	11	5.7	8.13	484
May	71	10	40.5	2,490
June	112	37	71.0	4,220
July	36	11	20.2	1,240
August	10	6.8	8.94	550
September	7.9	6.4	6.89	410
1921-22				
October	7.1	5.2	6.26	385
November 1-19	5.2	4.7	4.88	183
April	9.3	4.7	6.49	386
May	48	10	24.7	1,520
June	125	40	86.0	5,120
July	45	15	26.0	1,600
August	18	7.9	12.4	762
September	12	7.1	8.39	499
1922-23				
October	7.9	6.4	6.61	406
November	6.4	5.7	6.03	359
December	6.4	5.7	6.10	375
March 18-31	7.1	5.2	6.09	169
April	13	5.2	6.97	415
May	21	6.4	11.0	676
June	58	17	42.3	2,520
July	52	15	27.2	1,670
August	16	9.3	13.1	806
September	9.3	5.7	6.41	381
1923-24				
October	7.1	5.2	6.23	383
November	6.4	3.6	4.83	287
December	5.7	3.6	5.30	326
March 23-31	4.7	3.6	4.00	71.4
April	5.2	4.7	5.08	302
May 1-3	5.7	5.2	5.37	32.0

Willow Creek at Anfinson Ranch, near Corvallis, Mont.

Location.- Staff gage, lat. 46°18', long. 114°01', in NW¼ sec. 7, T. 6 N., R. 19 W., at Anfinson Ranch, 5 miles southeast of Corvallis.
Records available.- April to September 1938.
Extremes.- Maximum discharge observed, 73 second-feet June 19 (gage height, 2.28 feet); minimum observed, 0.1 second-foot Sept. 11.
Remarks.- Many diversions above station for irrigation.

Monthly discharge of Willow Creek at Anfinson Ranch, near Corvallis, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1938				
April 14-30	9.3	0.9	4.89	165
May	61	.1	11.8	728
June	73	37	49.3	2,940
July	40	5.2	15.1	928
August	6.1	1.4	3.28	202
September	1.3	.1	.34	20
The period	-	-	-	4,980

Bear Creek near Victor, Mont.

Location.- Staff gage, lat. 46°23', long. 114°13', in NE¼ sec. 9, T. 7 N., R. 21 W., 5 miles southwest of Victor.
Records available.- April to September 1938.
Extremes.- Maximum discharge observed, 865 second-feet Apr. 18 (gage height, 3.45 feet, from graph based on gage readings); minimum observed, 2.9 second-feet Sept. 23, 26-28.
Remarks.- No diversions above station.

Monthly discharge of Bear Creek near Victor, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1938				
April 15-30	588	33	198	6,300
May	650	89	256	15,760
June	433	156	287	17,090
July	141	12	54.9	3,370
August	11	5	7.9	484
September	7	3	4.2	252
The period	-	-	-	43,260

Burnt Fork Creek near Stevensville, Mont.

Location.- Staff gage, lat. 46°28', long. 113°57', in SW¼ sec. 11, T. 8 N., R. 19 W., at highway bridge at John Buck's ranch, 9 miles southeast of Stevensville.
Drainage area.- 74 square miles.
Records available.- May 1920 to August 1924.
Extremes.- Maximum discharge observed, 620 second-feet June 10, 1922 (gage height, 2.64 feet); minimum observed, 15 second-feet Mar. 22-25, 1923 and Aug. 23, 1924 (gage height, 0.48 foot).
Remarks.- Two small diversions above station.

Monthly discharge of Burnt Fork Creek near Stevensville, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1920				
May	262	89	190	9,040
June	334	143	242	14,400
July	172	39	80.8	4,970
August	38	26	30.8	1,890
September	84	26	37.1	2,210
The period	-	-	-	32,500
1920-21				
October	57	40	43.7	2,690
November	50	32	42.3	2,520
July 17-31	45	35	37.7	1,120
August 1-6	35	30	32.3	384
1921-22				
May 7-31	488	70	261	12,900
June	615	148	429	25,500
July	135	34	67.0	4,120
August 1-5	45	39	42.0	417
1922-23				
October 4-31	27	19	22.9	1,270
November	32	22	26.7	1,590
December	29	19	21.7	1,330
March 22-31	35	15	21.4	424
April 1-21	168	24	42.8	1,780
May 27-31	118	100	107	1,060
June	276	118	190	11,300
July	141	44	73.4	4,510
August	45	21	30.5	1,880
September	27	21	23.5	1,400
1924				
May 10-31	268	104	175	7,630
June	107	45	75.2	4,470
July	45	19	30.9	1,900
August 1-23	24	15	20.9	954

Lolo Creek near Lolo, Mont.

Location.- Staff gage, lat. 46°45', long. 114°14', in sec. 34, T. 12 N., R. 21 W., at highway bridge at Anderson Ranch, 7 miles upstream from Lolo and mouth.
Drainage area.- 249 square miles.
Records available.- October 1911 to September 1915.
Extremes.- Maximum discharge observed, 2,500 second-feet May 28, 1913 (gage height, 5.2 feet); minimum observed, 36 second-feet Mar. 20, 1912 (gage height, 1.64 feet).
Remarks.- Many small diversions above station for irrigation.

Monthly discharge of Lolo Creek near Lolo, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911-12				
October	117	36	83.5	5,130
November	87	36	75.9	4,520
December	79	33	48.3	2,970
January	-	-	-	-
February 5-29	99	68	76.2	3,780
March 20-31	106	36	75.3	1,790
April	533	164	398	23,700
May	1,600	442	1,120	68,900
June	1,600	675	1,190	70,800
July	675	148	319	19,600
August	156	72	112	6,890
September	208	72	104	6,190
1912-13				
October	106	85	97.9	6,020
November	254	85	132	7,860
December	106	37	71.5	4,400
April 9-30	1,500	156	845	36,900
May	2,500	675	1,570	96,500
June	2,300	925	1,680	100,000
July	698	228	329	20,200
August	235	85	174	10,700
September	85	61	69.8	4,150
1913-14				
October	85	66	75.4	4,640
November	99	66	82.5	4,910
December	-	-	e75	4,610
January	-	-	e70	4,300
February	-	-	e55	3,050
March	186	78	142	8,730
April	857	129	508	30,200
May	1,600	768	1,160	71,300
June	1,000	375	706	42,000
July	388	122	247	15,200
August	122	56	82.5	5,070
September	106	47	80.2	4,770
The year	1,600	-	274	199,000
1914-15				
October	180	108	142	8,730
November	195	137	157	9,340
December 1-6	142	122	128	1,520
March 20-31	137	60	89.2	2,120
April	471	196	350	20,800
May	567	315	419	25,800
June	840	471	611	36,400
July	479	130	194	11,900
August	144	85	104	6,400
September	130	82	114	6,780

e Estimated.

St. Regis River near St. Regis, Mont.

Location.- Staff gage, lat. 47°18', long. 115°10', in NE¼ sec. 28, T. 18 N., R. 28 W., at St. Regis ranger station, 3 miles upstream from town of St. Regis and mouth.
Drainage area.- 278 square miles.
Records available.- October 1910 to September 1917.
Extremes.- Maximum discharge observed, 7,740 second-feet May 28, 1917 (gage height, 8.65 feet); minimum observed, 85 second-feet Aug. 30 to Sept. 2, 1915 (gage height, 1.75 feet).
Remarks.- No diversion or regulation above station.

Monthly discharge of St. Regis River near St. Regis, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1910-11						
October	485	130	210	0.755	0.87	12,900
November	1,000	92	443	1.59	1.77	26,400
December	350	100	201	.723	.83	12,400
March	1,730	130	687	2.47	2.85	42,200
April	3,880	755	1,670	6.01	6.70	99,400
May	3,880	1,300	1,910	6.87	7.92	117,000
June	2,620	640	1,320	4.75	5.30	78,600
July	640	214	375	1.35	1.56	23,100
August	250	128	184	.662	.76	11,300
September	166	128	145	.522	.58	8,630
1911-12						
October	139	107	124	.446	.51	7,620
November 1-8	116	116	116	.417	.12	1,840
February 8-29	268	139	177	.637	.52	7,720
March	563	102	200	.719	.83	12,300
April	2,000	668	1,400	5.04	5.62	83,300
May	3,640	1,210	2,280	8.20	9.45	140,000
June	1,730	488	1,070	3.85	4.30	63,700
July	-	152	266	.957	1.10	16,400
August	152	107	123	.442	.51	7,560
September	139	116	132	.475	.53	7,860
1912-13						
October	152	107	131	.471	.54	8,060
March 16-31	375	220	275	.989	.59	8,730
April	3,100	352	1,740	6.26	6.98	104,000
May	6,220	1,400	3,270	11.8	13.60	201,000
June	3,940	765	1,760	6.33	7.06	105,000
July	765	220	401	1.44	1.66	24,700
August	238	120	174	.626	.72	10,700
September	135	90	108	.388	.43	6,430
1913-14						
October	185	90	123	.442	.51	7,560
November	185	90	162	.583	.65	9,640
March 7-31	1,102	238	629	2.26	2.10	31,200
April	2,840	580	1,750	6.29	7.02	104,000
May	2,710	1,040	1,900	6.83	7.87	117,000
June	1,120	330	617	2.22	2.48	36,700
July	330	150	229	.824	.95	14,100
August	150	120	145	.522	.60	8,920
September	330	150	204	.734	.82	12,100
1914-15						
October	202	150	175	.629	.73	10,800
November	1,040	220	590	2.12	2.36	35,100
March 15-31	580	185	422	1.52	.96	14,200
April	1,900	765	1,130	4.06	4.53	67,200
May	830	580	671	2.41	2.78	41,300
June	640	220	388	1.40	1.56	23,100
July	255	120	190	.683	.79	11,700
August	120	85	110	.396	.46	6,760
September 1-11	150	85	109	.392	.16	2,380
1915-16						
October	100	90	91.0	.327	.38	5,600
November 21-30	148	135	137	.493	.18	2,720
December 1-11	160	110	129	.464	.19	2,810
April	4,450	1,120	2,060	7.41	8.27	123,000
May	5,580	1,790	2,840	10.2	11.8	175,000
August	410	225	313	1.13	1.30	19,200
September	245	160	192	.691	.77	11,400
1916-17						
October 1-14	160	160	160	.575	.30	4,440
June	4,380	1,400	2,550	9.17	10.2	152,000
July	1,280	315	668	2.40	2.77	41,100

Flathead River at Flathead, British Columbia
(Published as Flathead River near Trail Creek, Mont., prior to 1935)

(International gaging station)

Location.- Staff gage, lat. 49°00', long. 114°29', at highway bridge 0.2 mile north of international boundary, 0.2 mile northwest of Flathead, British Columbia, and 7 miles northwest of Trail Creek, Mont.
Drainage area.- 450 square miles.
Records available.- March 1929 to September 1938.
Extremes.- Maximum discharge observed, 10,600 second-feet June 17, 1933 (gage height, 6.90 feet); minimum observed, 65 second-feet Apr. 9, 1929 (gage height, 0.76 foot).
Remarks.- No diversion or regulation. This is one of the international gaging stations maintained by Canada under agreement with the United States.

Monthly discharge of Flathead River at Flathead, British Columbia

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929						
March 23-31	187	100	142	0.316	0.11	2,540
April	1,070	109	275	.611	.68	16,400
May	7,750	670	2,600	5.91	6.81	164,000
June	6,300	1,230	2,970	6.60	7.36	177,000
July	1,120	387	661	1.47	1.70	40,600
August	392	223	296	.658	.76	18,200
September	263	191	215	.478	.53	12,800
The period	-	-	-	-	-	432,000
1929-30						
October	194	161	178	.396	.46	10,900
November 1-8	157	140	146	.324	.10	2,320
March 29-30	296	291	294	.653	.05	1,170
April	2,580	301	1,130	2.51	2.80	67,200
May	4,560	1,580	2,420	5.38	6.20	149,000
June	3,780	1,070	2,120	4.71	5.26	126,000
July	972	392	622	1.38	1.59	38,200
August	387	227	289	.642	.74	17,800
September	244	187	208	.462	.52	12,400
1930-31						
October	182	170	176	.39	.45	10,800
November 1-11	173	160	166	.37	.15	3,620
April	1,280	118	318	.71	.79	18,900
May	5,140	1,450	2,440	5.42	6.25	150,000
June	2,420	637	1,190	2.64	2.94	70,800
July	563	240	387	.86	.99	23,800
August	258	150	188	.42	.48	11,600
September	197	140	164	.36	.40	9,760
1931-32						
October	160	138	147	.33	.38	9,040
November 1-21	236	138	186	.41	.32	7,750
April	1,380	307	756	1.68	1.87	45,000
May	8,030	964	4,050	9.00	10.38	249,000
June	6,520	1,750	3,680	8.18	9.13	219,000
July	1,640	507	892	1.98	2.28	54,800
August	493	307	394	.88	1.01	24,200
September	352	212	261	.58	.65	15,500
1932-33						
October	452	188	301	.669	.77	18,500
November	535	276	401	.891	.99	23,900
December	465	452	460	1.02	.15	3,650
April	2,420	168	534	1.19	1.33	31,800
May	7,820	1,530	3,140	6.98	8.05	193,000
June	10,100	2,500	5,480	12.2	13.61	326,000
July	2,340	595	1,270	2.82	3.25	78,100
August	566	324	423	.940	1.08	26,000
September	356	286	318	.707	.79	18,900
1933-34						
October	3,710	282	757	1.68	1.94	46,500
November	1,380	545	707	1.57	1.75	42,100
December 1-10	581	416	506	1.12	.42	10,000
April	6,560	368	2,960	6.58	7.34	176,000
May	6,860	3,400	4,840	10.76	12.41	298,000
June	3,910	1,000	1,980	4.40	4.91	118,000
July	983	390	603	1.34	1.54	37,100
August	379	212	275	.61	.70	16,900
September	208	182	192	.43	.48	11,400
1934-35						
October	208	170	181	.40	.46	11,100
November	1,230	192	574	1.28	1.43	34,200
December 1-18	403	246	294	.65	.44	10,500
April	914	170	358	.79	.88	21,200
May	7,750	906	3,250	7.22	8.32	200,000
June	6,170	2,030	3,690	8.20	9.15	220,000
July	2,150	581	1,100	2.44	2.81	67,600
August	566	274	374	.83	.96	23,000
September	270	201	230	.51	.57	13,700
1935-36						
October	224	186	198	.44	.51	12,200
November	194	141	174	.39	.44	10,300
December	141	126	134	.30	.35	8,230
April	2,790	240	1,080	2.40	2.68	64,500
May	6,270	2,220	3,630	8.07	9.30	223,000
June	3,850	686	1,420	3.16	3.53	84,500
July	633	256	406	.90	1.04	25,000
August	256	182	220	.49	.56	13,500
September	186	153	175	.39	.44	10,400

Monthly discharge of Flathead River at Flathead, British Columbia--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1936-37						
October	153	128	138	0.31	0.36	8,480
November	141	110	124	.28	.31	7,370
December 1-4	132	115	122	.27	.04	971
April	1,060	80	299	.66	.74	17,800
May	5,240	1,440	3,110	6.91	7.97	191,000
June	3,890	1,250	2,210	4.91	5.48	131,000
July	1,130	378	654	1.45	1.67	40,200
August	450	240	308	.68	.78	18,900
September	236	165	183	.41	.46	10,900
1937-38						
October	1,030	186	273	.61	.70	16,800
November	628	370	452	1.00	1.12	26,900
April	5,330	190	1,720	3.82	4.26	102,000
May	8,950	1,610	4,340	9.64	11.11	267,000
June	6,100	1,690	3,800	8.44	9.42	226,000
July	1,640	548	931	2.07	2.39	57,200
August	534	280	383	.85	.98	23,500
September	280	208	249	.55	61	14,800

Flathead River near Columbia Falls, Mont.

Location.- Water-stage recorder, lat. 48°29', long. 114°05', in NW¼ sec. 7, T. 31 N., R. 19 W., at Potter Ranch, three-quarters of a mile upstream from Middle Fork and 10 miles northeast of Columbia Falls. Records for period 1910-17, obtained on staff gage, 1,000 feet downstream from present site at different datum.
Drainage area.- 1,620 square miles.
Records available.- September 1910 to September 1917, April 1929 to September 1938.
Extremes.- Maximum discharge, 29,500 second-feet June 20, 1916 (gage height, 9.8 feet, site and datum then in use); minimum, 340 second-feet Janurary 26-31, 1936, ice present.
Remarks.- No diversion or regulation.

Monthly discharge of Flathead River near Columbia Falls, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1910						
September 22-30	1,030	925	974	0.601	0.19	17,000
1910-11						
October	3,890	1,300	2,220	1.37	1.58	136,000
November	5,400	1,400	2,310	1.43	1.60	137,000
December	1,510	950	1,120	.692	.80	68,900
January	1,450	510	1,050	.648	.75	64,600
February	1,100	710	917	.566	.59	50,900
March	1,560	640	983	.607	.70	60,400
April	7,650	1,290	3,080	1.90	2.12	183,000
May	9,600	4,710	6,960	4.30	4.96	428,000
June	13,100	7,920	10,800	6.67	7.44	643,000
July	7,920	2,330	4,290	2.65	3.06	264,000
August	2,480	1,240	1,870	1.15	1.33	115,000
September	1,910	1,240	1,550	.957	1.07	92,200
The year	13,100	510	3,100	1.91	26.00	2,240,000
1911-12						
October	1,340	710	1,020	.630	.73	62,700
November	1,050	350	764	.472	.53	45,500
December	1,140	510	774	.478	.55	47,600
January	-	-	e762	.470	.54	46,900
February	-	-	a657	.406	.44	37,800
March	870	450	632	.390	.45	38,900
April	3,690	540	2,510	1.55	1.73	149,000
May	10,700	3,320	7,230	4.46	5.14	445,000
June	8,480	4,290	6,440	3.98	4.44	383,000
July	5,370	2,480	3,930	2.43	2.80	242,000
August	2,480	1,340	1,700	1.05	1.21	105,000
September	1,910	1,140	1,510	.932	1.04	89,800
The year	10,700	-	2,330	1.44	19.60	1,690,000

a Partly estimated.
e Estimated.

Monthly discharge of Flathead River near Columbia Falls, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1912-13						
October	1,450	960	1,200	0.741	0.85	73,800
November	1,910	1,050	1,390	.858	.96	82,700
December	1,140	640	854	.527	.61	52,500
January	-	-	e650	.401	.46	40,000
February	-	-	e650	.401	.42	36,100
March	-	-	e650	.401	.46	40,000
April	7,000	710	2,960	1.83	2.04	176,000
May	20,800	3,140	8,580	5.30	6.11	528,000
June	23,800	8,880	14,900	9.20	10.26	887,000
July	8,880	2,640	4,390	2.71	3.12	270,000
August	2,800	1,500	2,050	1.27	1.46	126,000
September	1,500	960	1,300	.802	.89	77,400
The year	23,800	-	3,300	2.04	27,64	2,390,000
1913-14						
October	1,670	960	1,210	.747	.86	74,400
November	1,240	960	1,100	.679	.76	65,500
December	960	570	809	.499	.58	49,700
January	1,340	570	901	.556	.64	55,400
February	790	350	623	.385	.40	34,600
March	790	510	647	.399	.46	39,800
April	5,280	790	3,110	1.92	2.14	185,000
May	12,400	4,620	8,730	5.38	6.20	537,000
June	13,300	4,840	7,380	4.56	5.09	439,000
July	4,840	1,730	3,190	1.97	2.27	196,000
August	1,850	1,240	1,470	.907	1.05	90,400
September	1,910	1,140	1,380	.852	.95	82,100
The year	13,300	350	2,550	1.57	21.40	1,850,000
1914-15						
October	4,040	1,560	2,280	1.41	1.63	140,000
November	4,840	1,790	2,940	1.81	2.02	175,000
December	1,560	960	1,190	.735	.85	73,200
January	1,140	790	939	.580	.67	57,700
February	960	710	804	.496	.52	44,700
March	1,100	640	803	.496	.57	49,400
April	7,300	1,140	3,780	2.33	2.60	225,000
May	7,600	3,860	5,340	3.30	3.80	328,000
June	8,200	3,860	4,960	3.06	3.41	295,000
July	6,220	2,330	3,540	2.19	2.52	218,000
August	2,330	1,240	1,680	1.04	1.20	103,000
September	1,340	1,140	1,190	.735	.82	70,800
The year	8,200	640	2,460	1.52	20.61	1,780,000
1915-16						
October	1,730	1,100	1,370	.846	.98	84,200
November	1,290	700	1,110	.685	.76	66,000
December	850	630	696	.430	.50	42,800
January	-	-	e600	.370	.43	36,900
February	-	-	e800	.494	.53	46,000
March	3,080	1,240	2,060	1.27	1.46	127,000
April	6,220	2,000	3,660	2.26	2.52	218,000
May	12,300	4,840	7,030	4.34	5.00	432,000
June	29,500	6,480	16,800	10.4	11.6	1,000,000
July	21,800	3,700	11,100	6.85	7.90	682,000
August	3,700	2,070	2,930	1.81	2.09	180,000
September	3,620	1,440	2,480	1.53	1,71	148,000
The year	29,500	-	4,220	2.60	35.48	3,060,000
1916-17						
October	1,390	930	1,090	.673	.78	67,000
November	1,010	510	874	.540	.60	52,000
December	1,010	570	776	.479	.55	47,700
January	1,100	770	a1,000	.617	.71	61,500
February	1,100	700	a900	.555	.58	50,000
March	1,010	810	873	.539	.62	53,700
April	1,860	850	1,130	.698	.78	67,200
May	18,200	1,500	9,950	6.14	7.08	612,000
June	24,300	9,940	16,200	10.0	11.2	964,000
July	11,900	2,750	6,550	4.04	4.66	403,000
August	2,520	1,190	1,660	1.02	1.18	102,000
September	1,190	930	1,000	.617	.69	59,500
The year	24,300	510	3,510	2.17	29.43	2,540,000

a Partly estimated.
e Estimated.

Monthly discharge of Flathead River near Columbia Falls, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929						
April 9-30	4,800	655	1,970	1.22	1.00	86,000
May	19,400	3,740	8,310	5.13	5.91	511,000
June	15,400	4,420	9,380	5.79	6.46	558,000
July	4,420	1,520	2,690	1.66	1.91	165,000
August 1-10	1,520	1,200	1,360	.840	.31	27,000
1930						
May	11,200	5,000	7,110	4.39	5.06	437,000
June	10,800	3,980	6,760	4.17	4.65	402,000
July	3,740	-	2,720	1.68	1.94	167,000
August	-	935	1,410	.870	1.00	86,700
September	-	898	923	.570	.64	54,900
The period	-	-	-	-	-	1,150,000
1930-31						
October	1,150	680	876	.541	.62	53,900
November	795	608	677	.418	.47	40,300
December	708	510	562	.347	.40	34,600
January	655	482	561	.346	.40	34,500
February	-	592	614	.379	.39	34,100
March	1,200	-	729	.450	.52	44,800
April	-	1,060	2,520	1.56	1.74	150,000
May	14,700	5,100	8,810	5.44	6.27	542,000
June	8,110	3,000	4,820	2.98	3.32	287,000
July 1-8	2,880	2,080	2,420	1.49	.44	38,400
The period	-	-	-	-	-	1,260,000
1931-32						
October 14-23	635	569	602	.372	.14	11,900
November 24-30	556	492	518	.320	.08	7,190
December	675	418	527	.325	.37	32,400
January	472	390	421	.260	.30	25,900
February	3,980	400	760	.469	.51	43,700
March	3,980	1,020	1,510	.932	1.07	92,800
April	6,320	1,540	3,970	2.45	2.73	236,000
May	19,900	4,240	12,000	7.41	8.54	738,000
June	17,000	7,830	12,400	7.65	8.54	738,000
July 1-9	7,300	4,520	6,030	3.72	1.38	108,000
August 6-31	1,650	1,180	1,430	.883	.85	73,700
September	1,230	732	906	.559	.62	53,900
1932-33						
October 1-26	1,170	745	908	.560	.54	46,800
December 2-7	2,240	1,760	2,060	1.27	.28	24,500
February 24-28	770	745	760	.469	.09	7,540
April 12-26	6,560	1,000	2,280	1.41	.78	67,800
May 3-31	18,200	7,560	10,000	6.17	6.65	575,000
June 1-27	24,000	12,900	17,700	10.9	10.94	948,000
July 17-23	5,210	3,650	4,460	2.75	.72	61,900
1934						
April 20-30	19,000	11,800	16,950	10.5	4.29	369,700
May	18,200	11,200	14,680	9.06	10.44	902,900
June	13,200	3,900	7,287	4.50	5.02	433,600
July	3,820	1,610	2,475	1.53	1.76	152,200
August	1,560	940	1,186	.732	.84	72,950
September	970	-	758	.468	.52	45,120
The period	-	-	-	-	-	1,976,000
1934-35						
October	1,100	722	792	.600	.69	48,700
November	4,240	880	2,010	1.24	1.38	119,600
December	1,340	680	1,018	.628	.72	62,590
January	1,930	-	1,037	.640	.74	63,790
February	1,560	-	1,011	.624	.65	56,160
March 14-21	1,000	910	959	.592	.18	15,210
May 15-31	20,300	6,320	13,300	8.21	5.19	448,300
June	15,000	7,560	11,690	7.22	8.06	695,800
July	7,830	2,400	4,592	2.83	3.26	282,400
August	2,300	1,070	1,498	.925	1.07	92,090
September	1,070	822	936	.578	.64	55,720

Monthly discharge of Flathead River near Columbia Falls, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1935-36						
October	880	620	779	0.481	0.55	47,900
November	795	-	628	.388	.43	37,360
December	-	-	394	.243	.28	24,250
January	-	-	398	.246	.28	24,480
February	-	-	400	.247	.27	23,010
March	-	-	554	.342	.39	34,090
April	-	-	5,619	3.47	3.87	334,400
May	18,200	7,560	12,130	7.49	8.64	745,800
June	13,600	2,800	5,496	3.39	3.78	327,100
July	2,600	1,120	1,687	1.04	1.20	103,700
August	1,120	688	898	.554	.64	55,230
September	832	555	668	.412	.46	39,760
The year	18,200	-	2,475	1.53	20.79	1,797,000
1936-37						
October	550	483	518	.320	.37	31,860
November	483	-	420	.259	.29	25,000
December	615	-	416	.257	.30	25,610
January	-	-	325	.201	.23	19,980
February	418	-	377	.233	.24	20,930
March	560	348	435	.269	.31	26,720
April	3,900	397	1,374	.848	.95	81,730
May	13,600	4,420	9,039	5.58	6.43	555,800
June	11,500	5,000	8,422	5.20	5.80	501,100
July	5,640	1,470	2,760	1.71	1.97	169,700
August	1,700	840	1,185	.731	.84	72,850
September	810	639	708	.437	.49	42,100
The year	13,600	-	2,173	1.34	18.22	1,573,000
1937-38						
October	1,740	675	814	.502	.58	50,070
November	1,650	984	1,234	.762	.85	73,460
December	1,160	465	713	.440	.51	43,820
January	1,160	384	757	.467	.54	46,520
February	761	404	618	.381	.40	34,350
March	1,080	576	766	.473	.55	47,110
April	12,800	761	4,562	2.82	3.15	271,400
May	23,500	6,090	11,910	7.35	8.47	732,300
June	17,800	7,400	12,360	7.63	8.51	735,300
July	7,200	1,840	3,935	2.43	2.80	241,900
August	1,790	1,080	1,364	.842	.97	83,840
September	1,160	754	933	.576	.64	55,500
The year	23,500	384	3,337	2.06	27.97	2,416,000

Yearly discharge of Flathead River near Columbia Falls, Mont.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1911	3,100	1.91	26.00	2,240,000	2,840	1.75	23.83	2,060,000
1912	2,330	1.44	19.60	1,690,000	2,410	1.49	20.21	1,750,000
1913	3,300	2.04	27.64	2,390,000	3,270	2.02	27.42	2,370,000
1914	2,550	1.57	21.40	1,850,000	2,830	1.75	23.70	2,050,000
1915	2,460	1.52	20.61	1,780,000	2,190	1.35	18.35	1,580,000
1916	4,220	2.60	35.48	3,060,000	4,180	2.58	35.17	3,040,000
1917	3,510	2.17	29.43	2,540,000	-	-	-	-
1936	2,475	1.53	20.79	1,797,000	2,438	1.50	20.49	1,770,000
1937	2,173	1.34	18.22	1,573,000	2,291	1.41	19.20	1,658,000
1938	3,337	2.06	27.97	2,416,000	-	-	-	-
Highest	4,220	2.60	35.48	3,060,000	4,180	2.58	35.17	3,040,000
Average	2,946	1.82	24.71	2,134,000	2,806	1.73	23.55	2,035,000
Lowest	2,173	1.34	18.22	1,573,000	2,190	1.35	18.35	1,580,000

Flathead River at Columbia Falls, Mont.

Location.- Water-stage recorder, lat. 48°22', long. 114°11', in SW¼ sec. 17, T. 30 N., R. 20 W., at Columbia Falls, 200 feet downstream from highway bridge on Roosevelt Highway. Zero of gage is 2,798.00 feet above mean sea level, adjustment of 1929 (levels by Corps of Engineers, U. S. Army).
Drainage area.- 4,440 square miles.
Records available.- May 1922 to September 1923, June 1928 to September 1938.
Extremes.- Maximum discharge, 102,000 second-feet June 1, 1923 (gage height, 17.3 feet); minimum, 798 second-feet Dec. 8, 1929 (gage height, -0.08 foot).
Remarks.- No diversion or regulation.

Monthly discharge of Flathead River at Columbia Falls, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1922						
May 14-30	77,400	26,100	53,500	12.0	7.58	1,800,000
June 4-30	82,200	15,900	38,900	8.76	8.80	2,010,000
July	15,300	4,110	7,850	1.77	2.04	483,000
August 1-25	4,000	2,680	3,460	.779	.72	172,000
1928						
June 25-30	38,200	34,000	35,600	8.02	1.79	427,000
July	39,700	8,820	18,900	4.26	4.91	1,160,000
August	8,210	3,510	4,980	1.12	1.29	306,000
September	3,360	2,170	2,800	.631	.70	167,000
The period	-	-	-	-	-	* 2,060,000
1928-29						
October	5,680	2,250	3,880	.874	1.01	239,000
November	3,810	2,470	2,880	.649	.72	171,000
December	2,540	1,610	2,010	.453	.52	124,000
January	2,010	1,410	1,720	.387	.45	106,000
February	1,610	1,410	1,530	.345	.36	85,000
March	3,140	1,660	1,930	.435	.50	119,000
April	17,400	2,260	5,450	1.23	1.37	324,000
May	67,800	12,500	29,000	6.52	7.52	1,780,000
June	47,300	15,800	29,000	6.52	7.27	1,730,000
July	14,700	4,360	7,970	1.79	2.06	490,000
August	4,270	2,400	3,150	.709	.82	194,000
September	2,540	1,660	1,970	.444	.50	117,000
The year	67,800	1,410	7,560	1.70	23.10	5,480,000
1929-30						
October	1,720	1,410	1,600	.360	.42	98,400
November	1,460	1,070	1,290	.291	.32	76,800
December	2,010	864	1,320	.297	.34	81,200
January	1,720	1,110	1,340	.302	.35	82,400
February	2,910	1,070	1,670	.376	.39	92,800
March	3,060	1,030	1,620	.365	.42	99,600
April	35,200	3,380	20,100	4.53	5.05	1,200,000
May	38,000	15,800	24,300	4.57	6.31	1,490,000
June	34,500	11,400	20,600	4.64	5.18	1,230,000
July	10,800	3,900	6,780	1.53	1.76	417,000
August	3,810	2,070	2,840	.640	.74	175,000
September	2,470	1,890	2,110	.475	.53	126,000
The year	38,000	864	7,130	1.61	21.81	5,170,000
1930-31						
October	3,810	1,950	2,580	.581	.67	159,000
November	3,380	1,890	2,530	.570	.64	151,000
December	2,330	1,320	1,800	.406	.47	111,000
January	2,760	1,320	1,710	.385	.44	105,000
February	2,470	1,780	2,090	.471	.49	116,000
March	4,560	1,780	2,670	.601	.69	164,000
April	20,100	3,300	8,040	1.81	2.02	478,000
May	58,600	18,300	30,400	6.85	7.90	1,870,000
June	29,300	7,790	15,700	3.54	3.95	934,000
July	7,250	3,060	4,690	1.06	1.22	288,000
August	3,300	1,780	2,300	.518	.60	141,000
September	2,840	1,610	2,250	.507	.57	134,000
The year	58,600	1,320	6,420	1.45	19.66	4,650,000

Monthly discharge of Flathead River at Columbia Falls, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1931-32						
October	2,330	1,660	1,920	0.432	0.50	118,000
November	3,550	1,410	2,270	.511	.57	135,000
December	2,200	1,510	1,820	.410	.47	112,000
January	1,600	1,110	1,340	.302	.35	82,400
February	17,000	1,150	2,990	.673	.73	172,000
March	13,200	3,990	5,510	1.24	1.43	339,000
April	23,800	5,990	14,300	3.22	3.59	851,000
May	84,100	17,100	42,400	9.55	11.0	2,610,000
June	52,400	23,800	37,600	8.47	9.45	2,240,000
July	21,800	5,750	11,300	2.54	2.93	695,000
August	5,520	3,380	4,170	.939	1.08	256,000
September	3,550	2,200	2,680	.604	.67	159,000
The year	84,100	1,110	10,700	2.41	32.77	7,770,000
1932-33						
October	3,460	1,950	2,640	.595	.69	162,000
November	9,840	3,060	5,220	1.18	1.32	311,000
December	10,200	2,980	4,610	1.04	1.20	283,000
January	3,220	1,510	2,300	.518	.60	141,000
February	2,140	1,720	1,880	.423	.44	104,000
March	2,680	1,890	2,100	.473	.55	129,000
April	40,500	2,760	10,300	2.32	2.59	613,000
May	66,700	18,100	30,500	6.87	7.92	1,880,000
June	88,600	35,100	61,900	13.9	15.5	3,680,000
July	32,000	7,250	16,800	3.78	4.36	1,030,000
August	6,990	3,380	4,890	1.10	1.27	301,000
September	3,900	2,760	3,210	.723	.81	191,000
The year	88,600	1,510	12,200	2.75	37.25	8,820,000
1933-34						
October	33,200	2,840	8,117	1.83	2.11	499,100
November	21,800	6,990	11,050	2.49	2.78	657,500
December	23,200	5,400	9,035	2.03	2.34	555,500
January	12,100	4,860	7,264	1.64	1.89	446,600
February	5,750	3,720	5,103	1.15	1.20	283,400
March	10,500	3,900	6,698	1.51	1.74	411,800
April	58,600	8,350	32,210	7.25	8.09	1,916,000
May	56,200	32,000	43,350	9.76	11.25	2,665,000
June	33,800	11,400	20,050	4.52	5.04	1,193,000
July	10,800	4,180	6,754	1.52	1.75	415,300
August	4,080	2,200	2,924	.659	.76	179,800
September	2,200	1,660	1,909	.430	.48	113,600
The year	58,600	1,660	12,900	2.91	39.43	9,337,000
1934-35						
October	5,990	1,510	2,254	.508	.59	138,600
November	13,900	3,810	6,722	1.51	1.68	400,000
December	3,990	1,950	2,892	.651	.75	177,800
January	9,230	1,610	3,484	.785	.90	214,200
February	5,180	2,330	3,355	.756	.79	186,300
March	3,900	2,070	2,816	.634	.73	173,200
April	17,400	2,260	7,227	1.63	1.82	430,000
May	67,800	15,800	34,030	7.66	8.83	2,092,000
June	54,800	20,900	34,910	7.86	8.77	2,077,000
July	20,900	6,110	11,990	2.70	3.11	737,000
August	5,870	2,680	3,845	.866	1.00	236,400
September	2,680	1,780	2,210	.498	.56	131,500
The year	67,800	1,510	9,662	2.18	29.53	6,994,000
1935-36						
October	1,780	1,410	1,657	.373	.43	101,900
November	1,720	1,280	1,446	.326	.36	86,020
December	1,280	941	1,113	.251	.29	68,440
January	1,360	899	1,132	.255	.29	69,630
February	1,540	983	1,171	.264	.28	67,380
March	1,880	1,170	1,629	.367	.42	100,100
April	38,400	1,120	16,680	3.76	4.20	992,700
May	67,800	28,100	43,130	9.71	11.20	2,652,000
June	51,100	8,930	19,410	4.37	4.88	1,155,000
July	8,350	3,260	5,180	1.17	1.35	318,500
August	3,190	1,940	2,510	.565	.65	154,300
September	2,190	1,500	1,790	.403	.45	106,500
The year	67,800	899	8,089	1.82	24.80	5,872,000

Monthly discharge of Flathead River at Columbia Falls, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1936-37						
October	1,530	1,350	1,431	0.322	0.37	88,010
November	1,370	998	1,182	.266	.30	70,350
December	1,810	950	1,178	.265	.31	72,420
January	990	850	928	.209	.24	57,070
February	958	850	905	.204	.21	50,260
March	1,280	926	1,083	.244	.28	66,950
April	14,700	1,440	5,028	1.13	1.26	299,200
May	45,300	15,000	30,590	6.89	7.94	1,880,000
June	37,700	17,000	27,370	6.16	6.87	1,628,000
July	17,400	3,990	8,145	1.83	2.11	500,800
August	4,460	2,070	3,055	.688	.79	187,800
September	2,070	1,660	1,829	.412	.46	108,800
The year	45,300	850	6,920	1.56	21.14	5,009,000
1937-38						
October	3,460	1,760	2,012	.453	.52	123,700
November	3,460	2,610	3,027	.682	.76	180,100
December	3,220	1,440	2,332	.525	.61	143,400
January	3,720	1,700	2,501	.563	.65	153,800
February	2,760	1,750	2,180	.491	.51	121,100
March	3,460	1,870	2,481	.559	.64	152,500
April	53,900	2,610	15,190	3.42	3.82	903,700
May	69,600	16,400	35,100	7.91	9.12	2,158,000
June	52,900	18,400	32,610	7.34	8.19	1,941,000
July	17,200	4,810	9,629	2.17	2.50	592,100
August	4,620	2,680	3,453	.778	.90	212,300
September	2,680	1,980	2,273	.512	.57	135,200
The year	69,600	1,440	9,416	2.12	28.79	6,817,000

Yearly discharge of Flathead River at Columbia Falls, Mont.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1929	7,560	1.70	23.10	5,480,000	7,180	1.62	21.93	5,200,000
1930	7,130	1.61	21.81	5,170,000	7,370	1.66	22.51	5,330,000
1931	6,420	1.45	19.66	4,650,000	6,350	1.43	19.42	4,600,000
1932	10,700	2.41	32.77	7,770,000	11,200	2.52	34.44	8,160,000
1933	12,200	2.75	37.25	8,820,000	13,500	3.04	41.27	9,780,000
1934	12,900	2.91	39.43	9,337,000	11,520	2.59	35.22	8,341,000
1935	9,662	2.18	29.53	6,994,000	9,026	2.03	27.59	6,534,000
1936	8,089	1.82	24.80	5,872,000	8,054	1.81	24.70	5,847,000
1937	6,920	1.56	21.14	5,009,000	7,219	1.63	22.05	5,226,000
1938	9,416	2.12	28.79	6,817,000	-	-	-	-
Highest	12,900	2.91	39.43	9,337,000	13,500	3.04	41.27	9,780,000
Average	6,420	1.45	19.66	4,650,000	6,350	1.43	19.42	4,600,000
Lowest	9,100	2.05	27.83	6,592,000	9,047	2.04	27.68	6,558,000

Flathead River near Polson, Mont.

Location.- Water-stage recorder, lat. 47°39', long. 114°20', in sec. 19, T. 22 N., R. 21 W., at highway bridge at Norrisvale, 12 miles downstream from Polson.

Drainage area.- 7,010 square miles.

Records available.- July 1907 to September 1938.

Extremes.- Maximum discharge, 82,100 second-feet, May 29, 30, 1928 (gage height, 17.1 feet); minimum prior to construction of Kerr Dam, 1,360 second-feet Dec. 9-14, 1919, Mar. 14, 1920 (gage height, -0.1 foot). A flow probably less than 5 second-feet occurred Apr. 13, 1939 as a result of regulation at Kerr Dam.

Remarks.- Several small diversions from tributaries above Flathead Lake. Flow somewhat regulated by natural storage in Flathead Lake prior to completion of Kerr Dam Apr. 12, 1938, which regulated flow thereafter.

Monthly discharge of Flathead River near Polson, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1907						
July 23-31	26,600	21,800	24,300	3.47	1.16	434,000
August	20,700	9,330	13,900	1.98	2.28	855,000
September	9,330	7,090	8,290	1.18	1.32	493,000
1907-8						
October	6,850	4,160	5,520	.787	.91	339,000
November	4,160	3,130	3,620	.516	.58	215,000
December	3,130	2,810	3,000	.428	.49	184,000
January	2,810	2,360	2,450	.349	.40	156,000
February	2,440	2,280	2,420	.345	.37	139,000
March	2,910	2,280	2,460	.351	.40	151,000
April	18,400	2,530	7,040	1.00	1.12	419,000
May	33,600	18,700	29,000	4.14	4.77	1,780,000
June	62,100	32,700	48,800	6.96	7.76	2,900,000
July	33,600	14,500	27,100	3.86	4.43	1,670,000
August	14,900	5,230	9,570	1.37	1.58	588,000
September	5,750	4,300	4,940	.704	.79	294,000
The year	62,100	2,280	12,200	1.74	23.62	8,840,000
1908-9						
October	4,450	3,880	4,090	.583	.67	251,000
November	4,160	4,020	4,060	.579	.65	242,000
December	4,020	3,130	3,480	.497	.57	214,000
January	3,490	3,130	3,270	.466	.54	201,000
February	3,130	2,620	2,810	.401	.42	156,000
March	2,620	2,530	2,550	.364	.42	157,000
April	3,880	2,530	2,780	.397	.44	165,000
May	30,400	3,880	11,000	1.57	1.81	676,000
June	58,800	31,100	50,800	7.25	8.09	3,020,000
July	47,600	18,800	31,600	4.51	5.20	1,940,000
August	18,200	7,030	12,100	1.73	1.99	744,000
September	6,800	5,060	5,840	.833	.93	348,000
The year	58,800	2,530	11,210	1.60	21.73	8,110,000
1909-10						
October	4,880	3,700	4,320	.616	.71	266,000
November	9,700	3,770	6,320	.902	1.01	376,000
December	10,500	6,250	8,330	1.19	1.37	512,000
January	7,100	4,120	5,080	.725	.84	312,000
February	4,120	3,820	4,030	.575	.60	224,000
March	9,630	3,820	5,290	.755	.87	325,000
April	34,700	9,800	17,200	2.45	2.73	1,020,000
May	42,800	33,800	38,000	5.42	6.25	2,340,000
June	38,900	23,000	31,100	4.44	4.95	1,850,000
July	22,000	9,000	15,200	2.17	2.50	935,000
August	8,740	4,640	6,410	.914	1.05	394,000
September	4,720	3,640	4,270	.609	.68	254,000
The year	42,800	3,640	12,200	1.74	23.56	8,810,000
1910-11						
October	5,900	3,720	5,010	.715	.82	308,000
November	9,470	5,900	7,860	1.12	1.25	468,000
December	9,000	5,280	7,180	1.02	1.18	441,000
January	5,040	3,600	4,140	.591	.68	255,000
February	3,600	3,010	3,270	.466	.49	182,000
March	3,600	2,690	2,960	.422	.49	182,000
April	14,800	3,600	6,320	.902	1.01	376,000
May	30,400	14,800	24,800	3.54	4.08	1,520,000
June	44,200	25,800	38,300	5.46	6.09	2,280,000
July	41,000	14,800	26,100	3.72	4.29	1,600,000
August	14,400	6,520	8,750	1.25	1.44	538,000
September	6,520	5,040	5,770	.823	.92	343,000
The year	44,200	2,690	11,700	1.67	22.74	8,490,000

Monthly discharge of Flathead River near Polson, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1911-12						
October	5,230	4,220	4,840	0.690	0.80	298,000
November	4,170	3,350	3,730	.532	.59	222,000
December	3,470	3,010	3,260	.465	.54	200,000
January	2,900	2,590	2,660	.379	.44	164,000
February	2,790	2,590	2,690	.384	.41	155,000
March	2,690	2,310	2,380	.340	.39	146,000
April	12,800	2,400	5,890	.840	.94	350,000
May	36,000	12,800	24,800	3.54	4.08	1,520,000
June	36,500	28,700	34,000	4.85	5.41	2,020,000
July	28,100	13,200	19,300	2.75	3.17	1,190,000
August	12,800	6,760	9,900	1.41	1.63	690,000
September	7,010	5,430	6,210	.886	.99	370,000
The year	36,500	2,310	9,980	1.42	19.36	7,240,000
1912-13						
October	5,630	4,850	5,150	.735	.85	317,000
November	5,630	4,670	5,260	.750	.84	313,000
December	4,850	2,150	4,190	.598	.69	258,000
January	3,880	3,120	3,450	.492	.57	212,000
February	3,230	2,900	3,020	.431	.45	168,000
March	2,900	2,790	2,850	.407	.47	175,000
April	14,800	2,790	6,510	.929	1.04	387,000
May	53,600	15,300	24,400	3.48	4.01	1,500,000
June	75,400	47,600	64,400	9.19	10.25	3,830,000
July	46,900	15,700	28,600	4.08	4.70	1,760,000
August	15,300	7,540	10,800	1.54	1.78	664,000
September	7,540	4,170	*5,540	.790	.88	330,000
The year	75,400	2,150	13,700	1.95	26.53	9,910,000
1913-14						
October	4,330	3,230	3,800	.542	.62	234,000
November	4,500	3,800	4,240	.605	.68	252,000
December	4,500	3,230	3,690	.526	.61	227,000
January	3,350	2,400	3,120	.445	.51	192,000
February	3,010	2,790	3,000	.428	.45	167,000
March	3,120	2,690	2,890	.412	.48	178,000
April	14,400	3,230	7,100	1.01	1.13	422,000
May	41,000	14,400	26,700	3.81	4.39	1,640,000
June	36,500	23,100	30,000	4.28	4.78	1,790,000
July	22,000	9,930	15,400	2.20	2.54	947,000
August	9,620	4,020	6,670	.951	1.10	410,000
September	4,850	3,740	4,040	.576	.64	240,000
The year	41,000	2,400	9,250	1.32	17.93	6,700,000
1914-15						
October	6,520	4,170	5,320	.759	.88	327,000
November	9,930	6,060	8,370	1.19	1.33	498,000
December	7,820	4,170	5,640	.805	.93	347,000
January	4,330	3,010	3,630	.518	.60	223,000
February	3,120	2,490	2,790	.398	.41	155,000
March	2,900	2,310	2,490	.355	.41	153,000
April	12,400	2,900	6,510	.929	1.04	387,000
May	21,000	13,200	18,200	2.60	3.00	1,120,000
June	19,000	17,100	18,100	2.58	2.88	1,080,000
July	19,000	12,800	16,200	2.31	2.66	996,000
August	13,200	6,520	9,740	1.39	1.60	599,000
September	6,290	4,500	5,260	.750	.84	313,000
The year	21,000	2,310	8,560	1.22	16.58	6,200,000
1915-16						
October	5,040	4,670	4,820	.688	.79	296,000
November	4,850	4,670	4,700	.670	.75	283,000
December	4,670	4,330	4,490	.641	.74	276,000
January	4,500	3,010	3,520	.502	.58	216,000
February	3,230	2,900	3,040	.434	.47	175,000
March	9,620	3,120	4,770	.680	.78	293,000
April	16,200	9,310	11,900	1.70	1.90	708,000
May	29,800	16,200	25,800	3.68	4.24	1,590,000
June	74,000	27,000	48,000	6.85	7.64	2,860,000
July	74,700	29,800	55,600	7.93	9.14	3,420,000
August	28,700	11,300	17,500	2.50	2.88	1,080,000
September	13,200	8,700	11,100	1.58	1.76	660,000
The year	74,700	2,900	16,300	2.32	31.67	11,900,000

* Previously published in error.

Monthly discharge of Flathead River near Polson, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1916-17						
October	9,310	5,210	6,730	0.960	1.11	414,000
November	5,630	4,020	4,600	.656	.73	274,000
December	4,330	3,120	3,630	.518	.60	223,000
January	2,790	2,490	2,670	.381	.44	164,000
February	2,590	2,400	2,470	.352	.37	137,000
March	2,310	2,000	2,240	.320	.37	138,000
April	5,040	2,230	2,960	.422	.47	176,000
May	46,200	4,670	22,400	3.20	3.69	1,380,000
June	59,100	43,600	51,700	7.38	8.23	3,080,000
July	52,200	18,500	35,500	5.06	5.83	2,180,000
August	17,500	7,010	11,400	1.63	1.88	701,000
September	6,760	3,740	4,770	.680	.76	284,000
The year	59,100	2,000	12,600	1.80	*24.48	9,150,000
1917-18						
October	3,600	2,690	3,070	.438	.50	189,000
November	2,690	2,490	2,610	.372	.42	155,000
December	2,900	2,310	2,580	.368	.42	159,000
January	11,300	3,350	8,720	1.24	1.43	536,000
February	5,840	3,010	4,130	.589	.61	229,000
March	4,670	2,900	3,770	.538	.62	232,000
April	16,600	5,630	10,300	1.47	1.64	613,000
May	34,600	17,500	29,700	4.24	4.89	1,830,000
June	58,400	27,000	44,200	6.31	7.04	2,630,000
July	41,600	12,400	23,000	3.28	3.78	1,410,000
August	12,000	6,060	8,430	1.20	1.38	518,000
September	5,840	3,880	4,690	.669	.76	279,000
The year	58,400	2,310	12,100	1.73	23.48	8,780,000
1918-19						
October	3,740	3,120	3,360	.479	.55	207,000
November	3,350	3,010	3,230	.461	.51	192,000
December	2,900	2,490	2,630	.375	.43	162,000
January	2,790	2,070	2,250	.321	.37	138,000
February	2,400	2,400	2,400	.342	.36	133,000
March	2,400	2,310	2,340	.334	.39	144,000
April	15,700	2,310	5,350	.763	.85	318,000
May	45,600	18,000	24,900	3.55	4.09	1,530,000
June	48,200	23,600	34,900	4.98	*5.56	2,080,000
July	23,100	7,820	14,500	2.07	2.39	892,000
August	7,540	3,880	5,410	.772	.89	333,000
September	4,170	2,490	3,110	.444	.50	185,000
The year	48,200	2,070	8,720	1.24	*16.89	6,310,000
1919-20						
October	2,490	2,070	2,300	.328	.38	141,000
November	2,690	1,860	2,220	.317	.35	132,000
December	2,640	1,360	1,670	.238	.27	103,000
January	1,680	1,460	1,560	.223	.26	95,900
February	1,620	1,550	1,600	.228	.25	92,000
March	1,620	1,360	1,510	.215	.25	92,800
April	6,060	1,570	2,630	.375	.42	156,000
May	29,300	6,290	18,200	2.60	3.00	1,120,000
June	44,200	26,400	36,200	5.16	5.76	2,150,000
July	38,100	15,300	27,000	3.85	4.44	1,660,000
August	14,400	7,540	9,900	1.41	1.63	609,000
September	7,820	4,020	5,160	.736	.82	307,000
The year	44,200	1,360	9,180	1.31	17.83	6,660,000
1920-21						
October	5,840	4,020	5,120	.730	.84	315,000
November	4,850	3,880	4,310	.615	.69	256,000
December	4,330	3,350	3,860	.551	.64	237,000
January	3,740	3,230	3,480	.496	.57	214,000
February	3,470	3,010	3,250	.464	.48	180,000
March	7,010	3,350	5,800	.827	.95	357,000
April	17,300	6,780	12,000	1.71	1.91	714,000
May	56,400	16,400	33,700	4.81	5.54	2,070,000
June	62,000	41,300	54,000	7.70	8.59	3,210,000
July	40,600	15,000	25,900	3.69	4.25	1,590,000
August	14,600	6,340	9,670	1.38	1.59	595,000
September	6,120	3,650	4,810	.686	.77	286,000
The year	62,000	3,010	13,900	1.98	26.82	10,000,000

* Previously published in error.

Monthly discharge of Flathead River near Polson, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1921-22						
October	4,260	3,510	3,690	0.526	0.61	227,000
November	3,800	3,250	3,420	.488	.54	204,000
December	4,750	3,380	3,810	.544	.63	234,000
January	4,750	3,650	4,070	.581	.67	250,000
February	3,570	2,730	3,120	.445	.46	173,000
March	2,940	2,700	2,770	.395	.46	170,000
April	5,800	2,740	3,460	.494	.55	206,000
May	44,800	6,120	22,600	3.22	3.71	1,390,000
June	56,400	36,700	49,500	7.06	7.88	2,950,000
July	35,100	11,800	20,900	2.98	3.44	1,290,000
August	11,500	5,700	8,100	1.16	1.34	498,000
September	5,700	3,800	4,740	.676	.75	282,000
The year	56,400	2,700	10,900	1.55	21.04	7,870,000
1922-23						
October	3,650	3,130	3,400	.485	.56	209,000
November	3,130	2,670	2,880	.411	.46	171,000
December	2,910	2,420	2,650	.378	.44	163,000
January	3,110	2,330	2,740	.391	.45	168,000
February	2,950	2,510	2,760	.394	.41	153,000
March	2,530	2,420	2,460	.351	.40	151,000
April	11,200	2,510	5,090	.726	.81	303,000
May	46,300	12,700	29,300	4.18	4.82	1,800,000
June	55,900	39,000	47,800	6.82	7.61	2,840,000
July	38,800	15,400	26,400	3.77	4.35	1,620,000
August	14,600	6,780	9,970	1.42	1.64	613,000
September	6,670	3,800	4,900	.699	.78	292,000
The year	55,900	2,330	11,700	1.67	22.73	8,480,000
1923-24						
October	3,740	2,490	3,100	.442	.51	191,000
November	3,110	2,730	2,890	.412	.46	172,000
December	3,100	2,420	2,670	.381	.44	164,000
January	2,880	2,520	2,640	.377	.43	162,000
February	3,460	2,660	2,910	.415	.45	167,000
March	3,890	2,760	3,120	.445	.51	192,000
April	7,870	3,080	4,060	.579	.65	242,000
May	47,000	8,770	31,300	4.47	5.15	1,920,000
June	43,700	28,600	37,000	5.28	5.89	2,200,000
July	28,200	10,900	18,000	2.57	2.96	1,110,000
August	10,400	5,740	7,700	1.10	1.27	473,000
September	5,340	3,290	4,490	.641	.72	267,000
The year	47,000	2,420	10,000	1.43	19.44	7,260,000
1924-25						
October	3,320	3,080	3,190	.455	.52	196,000
November	3,320	3,130	3,200	.456	.51	190,000
December	3,250	3,130	3,170	.452	.52	195,000
January	-	-	e3,100	.442	.51	191,000
February	-	-	e3,500	.500	.52	194,000
March	5,110	4,020	a4,740	.676	.78	291,000
April	32,700	5,700	20,800	2.97	3.31	1,240,000
May	67,000	29,200	46,700	6.66	7.68	2,870,000
June	65,600	45,100	50,700	7.23	8.07	3,020,000
July	47,100	15,400	27,100	3.87	4.46	1,670,000
August	14,600	8,550	10,400	1.48	1.71	640,000
September	8,270	5,300	6,420	.916	1.02	382,000
The year	67,000	-	15,300	2.18	29.61	11,100,000
1925-26						
October	5,960	4,040	4,620	.659	.76	284,000
November	4,040	3,140	3,550	.506	.56	211,000
December	-	-	e3,300	.471	.54	203,000
January	-	-	e2,600	.371	.43	160,000
February	-	-	e2,200	.314	.33	122,000
March	4,040	2,850	3,200	.456	.53	197,000
April	21,700	3,830	9,210	1.31	1.46	548,000
May	29,300	23,400	26,000	3.71	4.28	1,600,000
June	23,400	13,600	17,300	2.47	2.76	1,030,000
July	13,300	5,660	9,060	1.29	1.49	557,000
August	5,510	3,240	4,230	.603	.70	260,000
September	5,080	3,340	4,420	.631	.70	263,000
The year	29,300	-	7,510	1.07	14.54	5,440,000

a Partly estimated.
e Estimated.

Monthly discharge of Flathead River near Poleon, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1926-27						
October	10,300	5,080	7,690	1.10	1.27	473,000
November	10,300	7,250	8,450	1.21	1.35	503,000
December	10,000	7,010	8,400	1.20	1.38	516,000
January	7,010	4,580	5,810	.829	.96	357,000
February	4,580	4,180	4,380	.625	.65	243,000
March	4,180	3,880	4,020	.573	.66	247,000
April	15,400	3,800	5,470	.780	.87	325,000
May	45,100	18,800	32,800	4.68	5.40	2,020,000
June	75,000	43,800	63,000	8.99	10.03	3,750,000
July	66,300	23,000	42,200	6.02	6.94	2,590,000
August	22,500	9,120	14,100	2.01	2.32	867,000
September	10,700	8,550	9,580	1.37	1.53	570,000
The year	75,000	3,800	17,200	2.45	*33.36	12,500,000
1927-28						
October	12,400	8,760	10,100	1.44	1.66	621,000
November	-	-	8,600	1.23	1.37	512,000
December	-	-	7,900	1.13	1.30	486,000
January	-	-	6,000	.856	.99	369,000
February	-	-	5,300	.756	.82	305,000
March	-	-	5,700	.813	.94	350,000
April	15,200	7,000	8,340	1.19	1.33	496,000
May	82,100	16,600	48,900	6.98	8.05	3,010,000
June	79,200	41,900	53,000	7.56	8.44	3,150,000
July	43,200	19,500	31,700	4.52	5.21	1,950,000
August	19,500	7,780	12,500	1.78	2.05	769,000
September	7,640	4,540	6,090	.869	.97	362,000
The year	82,100	-	17,100	2.44	33.13	12,400,000
1928-29						
October	5,330	4,440	4,950	.706	.81	304,000
November	5,160	4,150	4,560	.650	.73	271,000
December	4,290	3,290	3,630	.518	.60	223,000
January	3,290	2,860	3,090	.441	.51	190,000
February	2,860	2,660	2,730	.389	.41	152,000
March	3,070	2,660	2,830	.404	.47	174,000
April	6,180	3,070	3,650	.521	.58	217,000
May	41,100	7,060	20,400	2.91	3.36	1,250,000
June	44,600	28,200	39,600	5.65	6.30	2,360,000
July	27,500	9,750	16,800	2.40	2.77	1,030,000
August	9,460	4,570	6,520	.930	1.07	401,000
September	4,430	3,070	3,630	.518	.58	216,000
The year	44,600	2,660	9,380	1.34	18.19	6,790,000
1929-30						
October	2,950	2,400	2,630	.375	.43	162,000
November	2,450	1,960	2,210	.315	.35	132,000
December	2,360	1,890	2,180	.311	.36	134,000
January	2,500	1,540	1,870	.267	.31	115,000
February	2,500	1,920	2,150	.307	.32	119,000
March	2,830	2,230	2,470	.352	.41	152,000
April	23,700	2,550	10,200	1.46	1.63	607,000
May	28,200	24,300	25,900	3.69	4.25	1,590,000
June	30,300	20,300	27,100	3.87	4.32	1,610,000
July	19,700	8,610	13,100	1.87	2.16	806,000
August	8,340	4,010	5,860	.836	.96	360,000
September	4,010	3,200	3,530	.504	.56	210,000
The year	30,300	1,540	8,290	1.18	16.06	6,000,000
1930-31						
October	3,460	3,070	3,250	.464	.54	200,000
November	3,590	3,140	3,390	.484	.54	202,000
December	3,460	2,660	3,110	.444	.51	191,000
January	2,660	2,400	2,540	.362	.42	156,000
February	2,710	2,600	2,660	.379	.39	148,000
March	3,730	2,500	2,920	.417	.48	180,000
April	8,340	3,460	5,580	.796	.89	332,000
May	35,400	8,890	24,800	3.54	4.08	1,520,000
June	31,700	15,800	24,700	3.52	3.93	1,470,000
July	15,300	6,830	10,400	1.48	1.71	640,000
August	6,610	3,460	4,730	.675	.78	291,000
September	3,460	2,950	3,130	.447	.50	186,000
The year	35,400	2,400	7,630	1.09	14.77	5,520,000

* Previously published in error.

Monthly discharge of Flathead River near Polson, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inchee	Acre-feet
1931-32						
October	3,000	2,440	2,750	0.392	0.45	169,000
November	2,780	2,370	2,530	.361	.40	151,000
December	2,630	2,490	2,560	.365	.42	157,000
January	2,680	2,270	2,480	.354	.41	152,000
February	2,580	2,140	2,260	.322	.35	130,000
March	5,690	2,680	4,620	.659	.76	284,000
April	17,500	5,500	11,200	1.60	1.78	666,000
May	51,200	17,500	35,300	5.04	5.81	2,170,000
June	45,500	39,300	42,900	6.12	6.83	2,550,000
July	38,000	12,400	23,400	3.34	3.85	1,440,000
August	12,000	5,880	8,490	1.21	1.40	522,000
September	5,880	3,780	4,660	.665	.74	277,000
The year	51,200	2,140	11,900	1.69	23.20	8,670,000
1932-33						
October	3,780	3,020	3,380	.482	.56	208,000
November	5,690	3,260	4,210	.601	.67	251,000
December	7,150	5,320	5,980	.853	.98	368,000
January	5,130	4,060	4,570	.652	.75	281,000
February	4,060	3,260	3,670	.524	.55	204,000
March	3,260	3,140	3,190	.455	.52	196,000
April	13,600	3,140	4,940	.705	.79	294,000
May	38,000	15,200	24,800	3.54	4.08	1,520,000
June	76,600	39,900	63,100	9.00	10.04	3,750,000
July	57,100	17,500	34,300	4.89	5.64	2,110,000
August	17,000	6,710	10,900	1.55	1.79	670,000
September	6,710	4,490	5,500	.785	.88	327,000
The year	76,600	3,020	14,100	2.01	27.25	10,200,000
1933-34						
October	11,300	4,200	5,223	.745	.86	321,200
November	14,800	10,900	13,420	1.91	2.13	798,700
December	14,000	9,000	10,940	1.56	1.80	672,600
January	14,400	9,310	12,050	1.72	1.98	741,000
February	9,310	6,290	7,920	1.13	1.18	439,900
March	9,630	5,880	7,316	1.04	1.20	449,800
April	46,900	9,950	22,310	3.18	3.55	1,327,000
May	51,500	46,200	49,210	7.02	8.09	3,026,000
June	49,500	22,800	35,020	5.00	5.58	2,084,000
July	21,800	8,310	14,310	2.04	2.35	880,000
August	8,560	4,580	6,221	.887	1.02	382,500
September	4,410	2,760	3,600	.514	.57	214,200
The year	51,500	2,760	15,660	2.23	30.31	11,340,000
1934-35						
October	3,260	2,420	2,792	.398	.46	171,600
November	6,510	3,140	5,277	.753	.84	314,000
December	6,510	3,780	5,174	.738	.85	318,100
January	4,490	3,510	4,043	.577	.67	248,600
February	4,800	4,340	4,666	.651	.68	253,600
March	4,340	3,920	4,101	.585	.67	252,100
April	10,100	3,920	5,279	.753	.84	314,100
May	45,600	10,700	25,080	3.58	4.13	1,542,000
June	49,500	35,200	45,260	6.46	7.21	2,693,000
July	34,600	13,100	22,520	3.21	3.70	1,385,000
August	12,300	5,890	8,555	1.22	1.41	526,100
September	5,500	3,510	4,329	.618	.69	257,600
The year	49,500	2,420	11,430	1.63	22.15	8,276,000
1935-36						
October	3,320	2,570	2,886	.412	.48	177,500
November	2,870	2,230	2,362	.337	.38	140,600
December	2,340	2,010	2,155	.307	.35	132,500
January	2,340	1,930	2,150	.307	.35	132,200
February	2,030	1,840	1,912	.273	.29	110,000
March	2,570	1,930	2,165	.309	.36	133,100
April	22,800	1,840	7,507	1.07	1.19	446,700
May	50,200	23,400	40,200	5.73	6.61	2,472,000
June	48,900	20,000	33,940	4.84	5.40	2,019,000
July	18,900	7,160	11,900	1.70	1.96	727,700
August	7,160	3,600	5,060	.722	.83	311,100
September	3,600	2,570	3,003	.428	.48	178,700
The year	50,200	1,840	9,617	1.37	18.68	6,981,000

Monthly discharge of Flathead River near Polson, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1936-37						
October	2,510	2,030	2,277	0.325	0.37	140,000
November	2,180	1,750	1,897	.271	.30	112,900
December	1,930	1,430	1,680	.240	.28	103,300
January	1,800	1,660	1,713	.244	.28	105,300
February	1,800	1,700	1,738	.248	.26	96,500
March	1,980	1,580	1,828	.261	.30	112,400
April	5,140	1,880	2,710	.387	.43	161,300
May	35,200	5,500	20,740	2.96	3.41	1,275,000
June	35,800	28,900	33,390	4.76	5.31	1,987,000
July	28,300	9,780	17,260	2.46	2.84	1,061,000
August	9,180	4,640	6,556	.935	1.08	403,100
September	4,480	2,870	3,528	.503	.56	210,000
The year	35,800	1,430	7,968	1.14	15.42	5,768,000
1937-38						
October	3,000	2,400	2,708	.386	.44	166,500
November	3,240	2,450	2,889	.412	.46	171,900
December	3,310	1,700	3,062	.437	.50	188,300
January	3,440	3,000	3,132	.447	.52	192,600
February	3,240	2,820	2,981	.425	.44	165,500
March	3,310	2,820	2,931	.418	.48	180,200
April	17,300	32	7,547	1.08	1.20	449,100
May	43,900	18,300	27,220	3.88	4.47	1,674,000
June	48,500	30,000	41,720	5.95	6.64	2,483,000
July	28,200	3,440	11,430	1.63	1.88	702,900
August	6,630	1,380	3,350	.478	.55	206,000
September	9,340	3,150	6,674	.952	1.06	397,100
The year	48,500	32	9,637	1.37	18.64	6,977,000

Yearly discharge of Flathead River near Polson, Mont.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1908	12,200	1.74	23.62	8,840,000	12,100	1.73	23.53	8,800,000
1909	11,200	1.60	21.73	8,110,000	11,800	1.68	22.93	8,560,000
1910	12,200	1.74	23.56	8,810,000	12,300	1.75	23.72	8,870,000
1911	11,700	1.67	22.74	8,490,000	11,000	1.57	21.42	8,000,000
1912	9,980	1.42	19.36	7,240,000	10,200	1.46	19.84	7,410,000
1913	13,700	1.95	26.53	9,910,000	13,500	1.93	26.06	9,740,000
1914	9,250	1.32	17.93	6,700,000	9,890	1.41	19.16	7,160,000
1915	8,560	1.22	16.58	6,200,000	8,120	1.16	15.72	5,880,000
1916	16,300	2.32	31.67	11,900,000	16,400	2.34	31.83	11,900,000
1917	12,600	1.80	24.48	9,150,000	12,100	1.73	23.38	8,740,000
1918	12,100	1.73	23.48	8,780,000	12,200	1.74	23.63	8,840,000
1919	8,720	1.24	16.89	6,310,000	8,470	1.21	16.40	6,130,000
1920	9,180	1.31	17.83	6,660,000	9,770	1.39	19.00	7,090,000
1921	13,900	1.98	26.82	10,000,000	13,600	1.94	26.43	9,880,000
1922	10,900	1.55	21.04	7,870,000	10,700	1.53	20.72	7,750,000
1923	11,700	1.67	22.73	8,480,000	11,700	1.67	22.68	8,470,000
1924	10,000	1.43	19.44	7,260,000	10,100	1.44	19.58	7,310,000
1925	15,300	2.18	29.61	11,100,000	15,500	2.21	29.92	11,200,000
1926	7,510	1.07	14.54	5,440,000	8,600	1.23	16.68	6,230,000
1927	17,200	2.45	33.36	12,500,000	17,400	2.48	33.69	12,600,000
1928	17,100	2.44	33.13	12,400,000	15,900	2.27	30.94	11,600,000
1929	9,380	1.34	18.19	6,790,000	8,870	1.27	17.19	6,420,000
1930	8,290	1.18	16.06	6,000,000	8,510	1.21	16.51	6,160,000
1931	7,630	1.09	14.77	5,520,000	7,460	1.06	14.45	5,400,000
1932	11,900	1.69	23.20	8,670,000	12,400	1.77	24.14	9,020,000
1933	14,100	2.01	27.25	10,200,000	15,400	2.20	29.83	11,100,000
1934	15,660	2.23	30.31	11,340,000	14,300	2.04	27.67	10,350,000
1935	11,430	1.63	22.15	8,276,000	10,940	1.56	21.21	7,923,000
1936	9,617	1.37	18.68	6,981,000	9,487	1.35	18.42	6,887,000
1937	7,968	1.14	15.42	5,768,000	8,203	1.17	15.87	5,938,000
1938	9,637	1.37	18.64	6,977,000	-	-	-	-
Highest	17,200	2.45	33.36	12,500,000	17,400	2.48	33.69	12,600,000
Average	11,510	1.64	22.31	8,344,000	11,560	1.65	22.42	8,379,000
Lowest	7,510	1.07	14.54	5,440,000	7,460	1.06	14.45	5,400,000

Middle Fork of Flathead River at Belton, Mont.

Location.- Staff gage, lat. 48°30', long. 113°59', in NW¼ sec. 36, T. 32 N., R. 19 W., at Belton.
Drainage area.- 900 square miles.
Records available.- October 1910 to September 1923, February 1929 to June 1933.
Extremes.- Maximum discharge observed, 49,000 second-feet June 21, 1916 (gage height, 20.0 feet); minimum observed, 115 second-feet Mar. 1, 1929 (gage height, 1.50 feet, ice present).
Remarks.- No diversion or regulation.

Monthly discharge of Middle Fork of Flathead River at Belton, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1910-11						
October	3,270	960	a1,570	1.74	2.01	96,500
November	3,700	1,110	1,960	2.18	2.43	117,000
December	1,200	560	808	.898	1.04	49,700
January	620	340	538	.598	.69	33,100
February	570	440	505	.561	.58	28,000
March	2,100	400	891	.990	1.14	54,800
April	8,210	1,100	3,020	3.36	3.75	180,000
May	11,900	4,550	7,030	7.81	9.00	432,000
June	12,600	5,470	8,390	9.32	10.40	499,000
July	5,090	1,400	2,760	3.07	3.54	170,000
August	1,400	1,020	1,140	1.27	1.46	70,100
September	1,400	960	1,120	1.24	1.38	66,600
The year	12,600	340	2,480	2.76	37.42	1,800,000
1911-12						
October	1,240	900	1,140	1.27	1.46	70,100
November	900	670	759	.843	.94	45,200
December	620	400	431	.479	.55	26,500
January	-	-	403	.448	.52	24,800
February	450	412	415	.461	.50	23,900
March	412	182	377	.419	.48	23,200
April	6,280	376	3,360	3.73	4.16	200,000
May	12,200	3,240	7,990	8.88	10.24	491,000
June	7,330	2,960	5,620	6.24	6.96	334,000
July	2,830	1,390	1,950	2.17	2.50	120,000
August	1,390	971	1,130	1.26	1.45	69,500
September	1,480	732	1,060	1.18	1.32	63,100
The year	12,200	182	2,060	2.29	31.08	1,490,000
1912-13						
October	-	-	810	.900	1.04	49,800
November	2,100	907	1,300	1.44	1.61	77,400
December	-	-	e600	.667	.77	36,900
April 6-30	7,690	535	3,620	4.02	3.74	180,000
May	26,900	2,410	9,850	10.9	12.57	606,000
June 1-12	20,500	11,800	16,200	18.0	8.03	386,000
July 3-31	4,810	1,400	2,940	3.27	3.53	169,000
August	1,770	1,100	1,390	1.54	1.78	85,500
September 1-21	1,100	590	841	.934	.73	35,000
1913-14						
November 12-30	1,100	650	891	.990	.70	33,600
December	710	342	493	.548	.63	30,700
January	-	-	424	.471	.54	26,100
February	-	-	403	.448	.47	22,400
March	960	380	668	.742	.86	41,100
April	6,190	830	3,620	4.02	4.48	215,000
May	11,500	4,630	7,300	8.11	9.35	449,000
June 1-8	10,000	3,770	7,160	7.96	2.37	114,000
September 14-30	1,240	485	628	.698	.44	21,200
1914-15						
October	1,670	510	1,100	1.22	1.41	67,600
November	2,300	1,100	1,440	1.60	1.78	85,700
December	1,240	265	492	.547	.63	30,300
March	928	182	474	.527	.61	29,100
April	6,400	895	3,140	3.49	3.89	187,000
May	6,820	2,410	4,170	4.63	5.34	256,000
June	6,400	3,170	3,960	4.40	4.91	236,000
July	3,770	1,770	2,630	2.92	3.37	162,000
August	1,770	830	1,170	1.30	1.50	71,900
September	1,400	830	1,060	1.18	1.32	63,100

a Partly estimated.
e Estimated.

Monthly discharge of Middle Fork of Flathead River at Belton, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1915-16						
October	1,160	960	1,090	1.21	1.40	67,000
November	1,400	895	1,080	1.20	1.34	64,300
December	895	710	809	.899	1.04	49,700
January	710	562	624	.693	.80	38,400
February	620	535	568	.631	.68	32,700
March	3,170	590	1,460	1.62	1.87	89,800
April	9,540	1,580	3,480	3.87	4.32	207,000
May	16,200	3,930	6,960	7.73	8.91	428,000
June	42,000	5,580	14,700	16.3	18.19	875,000
July	14,200	1,770	6,440	7.16	8.26	396,000
August	1,970	1,160	1,470	1.63	1.88	90,400
September	7,250	895	1,920	2.13	2.38	114,000
The year	42,000	535	3,380	3.76	51.07	2,450,000
1916-17						
October	1,020	710	801	.890	1.02	49,300
November	1,240	960	1,140	1.27	1.42	67,800
December	960	440	661	.734	.85	40,600
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 12-31	310	280	296	.329	.24	11,700
April	1,670	280	870	.967	1.08	51,800
May	20,800	1,320	9,290	10.3	11.9	571,000
June	17,700	5,980	10,800	12.0	13.4	643,000
July	9,060	1,870	4,490	4.99	5.75	276,000
August	2,300	740	1,290	1.43	1.65	79,300
September	710	535	599	.666	.74	35,600
1917-18						
October	510	310	378	.420	.48	23,200
November	325	295	311	.346	.39	18,500
December 1-16	325	310	313	.348	.21	9,930
January	-	-	-	-	-	-
February	830	325	564	.627	.65	31,300
March	1,620	420	730	.811	.94	44,900
April	5,380	1,320	3,280	3.64	4.06	195,000
May	15,600	3,460	7,420	8.24	9.50	456,000
June	22,300	3,540	10,400	11.6	12.9	619,000
July	4,120	1,310	2,200	2.44	2.81	135,000
August	1,390	880	1,180	1.31	1.51	72,600
September	820	552	675	.750	.84	40,200
1918-19						
October	760	525	630	.700	.81	38,700
November	552	390	490	.544	.61	29,200
December	452	355	396	.440	.51	24,300
January	1,310	320	668	.742	.86	41,100
February	580	320	437	.486	.51	24,300
March 20-31	475	430	454	.504	.22	10,800
April	8,600	475	3,130	3.48	3.88	86,000
May	13,600	3,000	7,520	8.36	9.64	462,000
June	7,030	2,400	4,530	5.03	5.61	270,000
July	3,260	580	1,550	1.72	1.98	95,300
August	940	475	671	.746	.86	41,300
September	475	390	424	.471	.53	25,200
1919-20						
October	390	290	334	.371	.43	20,500
November	390	290	331	.368	.41	19,700
December	-	-	-	-	-	-
January 1-8	580	475	494	.549	.16	7,840
February 13-20	320	260	294	.327	.10	4,660
March 9-31	475	260	389	.432	.37	17,700
April	4,070	430	1,280	1.42	1.58	76,200
May	11,500	2,290	7,000	7.78	8.97	430,000
June	10,900	4,810	7,860	8.73	9.74	468,000
July	5,280	1,680	2,910	3.23	3.72	179,000
August	1,600	700	941	1.05	1.21	57,900
September	1,430	640	1,150	1.28	1.43	68,400

Monthly discharge of Middle Fork of Flathead River at Belton, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1920-21						
October	1,550	1,010	1,330	1.48	1.71	81,800
November	1,010	880	985	1.09	1.22	58,600
December	880	430	711	.790	.91	43,700
January	452	320	413	.459	.53	25,400
February	1,230	260	406	.451	.47	22,500
March	1,550	475	1,160	1.29	1.49	71,300
April	6,610	1,390	3,540	3.93	4.38	211,000
May	21,500	2,510	10,600	11.8	13.60	652,000
June	14,200	10,000	12,300	13.7	15.29	732,000
July	10,000	1,430	4,000	4.44	5.12	246,000
August	1,430	760	1,070	1.19	1.37	65,800
September	700	475	557	.619	.69	33,100
The year	21,500	260	3,100	3.44	46.78	2,240,000
1921-22						
October	580	430	491	.546	.63	30,200
November	430	320	392	.436	.49	23,300
December	6,610	355	1,200	1.33	1.53	73,800
January	1,080	475	892	.991	1.14	54,800
February 1-20	640	320	398	.442	.33	15,800
March 8-31	580	122	233	.259	.23	11,100
April	1,390	152	584	.649	.72	34,800
May	19,200	1,550	10,400	11.6	13.37	640,000
June	22,100	3,610	10,400	11.6	12.94	619,000
July	3,470	1,160	2,030	2.26	2.61	125,000
August	1,010	430	708	.787	.91	43,500
September	640	320	486	.540	.60	28,900
1922-23						
October	320	290	318	.353	.41	19,600
November	410	320	347	.386	.43	20,600
December 1-13	410	320	370	.411	.20	9,540
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March 22-31	1,010	320	532	.591	.22	10,600
April	7,470	1,080	2,740	3.04	3.39	163,000
May	16,500	5,380	11,200	12.4	14.30	689,000
June	15,000	6,610	11,200	12.4	13.83	666,000
July	6,400	1,640	2,620	2.91	3.36	161,000
August	1,550	515	746	.829	.96	45,900
September	700	390	566	.629	.70	33,700
1929						
February 24-28	165	120	145	.161	.27	1,440
March	950	115	348	.387	.45	21,400
April	5,470	485	1,470	1.63	1.82	87,500
May	17,600	3,170	7,470	8.30	9.57	459,000
June	13,300	3,170	6,240	6.93	7.73	371,000
July	3,030	880	1,610	1.79	2.06	99,000
August	880	524	642	.713	.82	39,500
September	547	309	397	.442	.49	23,600
The period	-	-	-	-	-	1,100,000
1929-30						
October	330	265	299	.332	.38	18,400
November	280	175	240	.267	.30	14,300
December	-	-	218	.242	.28	13,400
January	-	-	211	.234	.27	13,000
February	1,080	-	443	.492	.51	24,600
March	729	330	424	.471	.54	26,100
April	10,300	701	6,240	6.93	7.73	371,000
May	9,430	3,590	6,010	6.68	7.70	370,000
June	7,660	2,400	4,830	5.37	5.99	287,000
July	2,400	880	1,470	1.63	1.88	90,400
August	880	500	659	.732	.84	40,500
September	647	432	516	.573	.64	30,700
The year	10,300	-	1,800	2.00	27.06	1,300,000

Monthly discharge of Middle Fork of Flathead River at Belton, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930-31						
October	1,010	477	644	0.716	0.83	39,600
November	818	454	611	.679	.76	36,400
December	524	265	397	.441	.51	24,400
January	596	238	351	.390	.46	21,600
February	622	389	496	.551	.57	27,500
March	1,010	349	619	.688	.79	38,100
April	5,470	758	2,180	2.42	2.70	130,000
May	16,000	3,730	7,540	8.38	9.66	464,000
June	6,600	1,560	3,280	3.64	4.06	195,000
July	1,380	701	1,010	1.12	1.29	62,100
August	818	389	547	.608	.70	33,600
September	758	368	558	.620	.69	33,200
The year	16,000	238	1,530	1.70	23.02	1,110,000
1931-32						
October	547	368	420	.467	.54	25,800
November	1,080	349	577	.641	.72	34,300
December	410	295	351	.390	.45	21,600
January	330	238	287	.319	.37	17,600
February	7,010	265	862	.958	1.03	49,600
March	3,730	880	1,300	1.44	1.66	79,900
April	6,020	1,380	3,510	3.90	4.35	209,000
May	25,200	3,310	10,300	11.40	13.14	633,000
June	11,600	4,960	7,880	8.76	9.77	469,000
July	5,130	1,300	2,480	2.76	3.18	152,000
August	1,150	647	863	.958	1.10	53,100
September	758	368	502	.558	.62	29,900
The year	25,200	238	2,440	2.71	36.93	1,770,000
1932-33						
October	818	350	538	.598	.69	33,100
November	2,770	622	1,160	1.29	1.44	69,000
December	2,640	596	1,070	1.19	1.37	65,800
January	758	331	512	.569	.65	31,500
February	476	226	356	.395	.41	19,800
March	647	331	429	.477	.55	26,400
April	11,400	647	2,670	2.97	3.31	159,000
May	19,400	4,180	7,700	8.55	9.86	473,000
June	23,400	7,630	15,200	16.9	18.74	904,000
The period	-	-	-	-	-	1,780,000

Yearly discharge of Middle Fork of Flathead River at Belton, Mont.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1911	2,480	2.76	37.42	1,800,000	2,310	2.57	34.89	1,675,000
1912	2,060	2.29	31.08	1,490,000	2,090	2.32	31.55	1,514,000
1916	3,380	3.76	51.07	2,450,000	3,350	3.72	50.58	2,429,000
1921	3,100	3.44	46.78	2,240,000	3,020	3.35	45.59	2,186,000
1930	1,800	2.00	27.06	1,300,000	1,870	2.08	28.20	1,354,000
1931	1,530	1.70	23.02	1,110,000	1,500	1.67	22.63	1,087,000
1932	2,440	2.71	36.93	1,770,000	2,560	2.84	38.72	1,861,000

South Fork of Flathead River near Columbia Falls, Mont.

Location.- Water-stage recorder, lat. 48°22', long. 114°03', in NE¼ sec. 17, T. 30 N., R. 19 W., 2 miles upstream from mouth and 9 miles east of Columbia Falls. Datum of gage is 3,031.3 feet above mean sea level, datum of 1929. September 1910 to September 1916, a chain gage, and Apr. 23, 1923, to Sept. 30, 1928, a recorder, at site at highway bridge 1½ miles downstream.

Drainage area.- 1,640 square miles.

Records available.- September 1910 to September 1916, April 1923 to September 1938.

Extremes.- Maximum discharge observed, about 46,200 second-feet June 19, 1916 (gage height, 16.6 feet, site and datum then in use), from rating curve extended above 20,000 second-feet; minimum discharge, 206 second-feet Dec. 6, 1935 (gage height, 0.44 foot, ice on control).

Remarks.- No diversion or regulation above station.

Monthly discharge of South Fork of Flathead River near Columbia Falls, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1911						
February	1,770	1,170	1,530	0.933	0.97	85,000
March	2,390	1,770	1,980	1.21	1.40	122,000
April	7,170	1,300	3,770	2.30	2.57	224,000
May	17,500	5,560	12,200	7.44	8.58	750,000
June	21,800	9,540	16,000	9.76	10.89	952,000
July	7,920	1,790	4,160	2.54	2.93	256,000
August	2,210	663	1,190	.726	.84	73,200
September	1,170	560	830	.506	.56	49,400
The period	--	--	--	--	--	2,510,000
1911-12						
October	1,520	940	1,130	.689	.79	69,500
November	2,040	860	1,380	.841	.94	82,100
April 7-30	6,410	2,760	5,030	3.07	2.74	239,000
May	14,100	4,780	10,900	6.65	7.68	670,000
June	16,000	10,700	12,500	7.62	8.50	744,000
July	10,500	1,420	4,900	2.99	3.45	301,000
August	1,570	735	1,090	.665	.77	67,000
September	2,210	930	1,610	.982	1.10	95,800
1912-13						
October	1,520	735	930	.567	.65	57,200
November	1,570	988	1,250	.762	.85	74,400
December	1,120	--	770	.470	.54	47,300
April 20-30	9,540	4,530	6,130	3.74	1.53	134,000
May	35,600	3,380	15,200	9.27	10.69	935,000
June	39,000	12,600	27,200	16.6	18.52	1,620,000
July	12,400	3,600	7,010	4.27	4.92	431,000
August	4,050	3,220	3,780	2.30	.265	232,000
1923						
April 13-30	8,320	2,020	4,960	3.02	2.04	177,000
May	20,900	4,860	11,600	7.07	8.15	713,000
June	20,000	6,850	11,400	6.95	7.75	678,000
July	6,490	1,730	3,530	2.15	2.48	217,000
August	1,670	826	1,230	.750	.86	75,600
September	788	417	601	.366	.41	35,800
1923-24						
October	779	345	568	.346	.40	34,900
November	660	551	564	.344	.38	33,600
December 1-7	622	551	569	.347	.09	7,900
March 6-31	760	551	632	.385	.37	32,600
April	5,900	544	2,800	1.71	1.91	167,000
May	24,400	7,650	15,200	9.27	10.69	935,000
June	12,600	4,680	8,330	5.08	5.67	496,000
July	4,480	1,270	2,410	1.47	1.70	148,000
August	1,240	518	908	.554	.64	55,800
September	481	432	453	.276	.31	27,000
1924-25						
October	985	392	553	.337	.38	34,000
November	1,330	704	913	.557	.62	54,300
December 1-8	731	713	726	.443	.13	11,500
April 8-20	21,100	10,000	14,400	8.78	4.24	371,000
May 25-31	22,300	17,700	20,100	12.3	3.20	279,000
June (15 days)	16,000	6,480	11,300	6.89	3.84	336,000
July 1-27	8,260	2,310	4,070	2.48	2.49	218,000
August 15-31	3,280	1,200	1,860	1.13	.71	62,700
September (22 days)	1,260	985	1,100	.671	.55	48,000
1925-26						
October	985	586	734	.448	.52	45,100
March 16-25	2,410	1,160	1,560	.951	.35	30,900
July 26-31	890	740	814	.496	.11	9,690
August 1-23	713	460	547	.333	.28	25,000
1926-27						
October 8-31	5,700	2,310	3,290	2.01	1.79	157,000
November 1-23	2,310	1,380	1,720	1.05	.90	78,500
April 8-19	1,440	1,260	1,330	.811	.36	31,700
May	26,400	5,450	12,800	7.80	8.99	787,000
June	36,400	11,700	22,100	13.5	15.06	1,320,000
July	12,300	2,520	6,200	3.78	4.36	381,000
August	2,520	1,060	1,580	.963	1.11	97,200
September	2,020	1,300	1,540	.939	1.05	91,600
1927-28						
October	4,730	2,720	3,380	2.06	2.38	208,000
November	4,600	2,530	3,380	2.06	2.30	201,000
December 1-8	6,010	3,010	4,650	2.48	.65	55,300
May	32,900	8,850	22,300	13.6	15.68	1,370,000
June	15,700	10,100	12,200	7.44	8.30	726,000
July	11,900	2,530	5,580	3.40	3.92	343,000
August	2,350	1,000	1,490	.909	1.05	91,600
September	965	567	715	.436	.49	42,500

Monthly discharge of South Fork of Flathead River near Columbia Falls, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1928-29						
October	1,170	614	915	0.558	0.64	56,300
November	1,090	636	740	.451	.50	44,000
December	-	-	528	.322	.37	32,500
January	510	375	453	.276	.32	27,900
February	470	390	430	.262	.27	23,900
March	1,130	455	606	.369	.42	37,300
April	6,900	728	2,110	1.29	1.44	126,000
May	23,800	4,940	10,900	6.65	7.67	670,000
June	16,500	6,060	10,600	6.46	7.21	631,000
July	5,400	1,210	2,490	1.52	1.75	153,000
August	1,170	554	811	.494	.57	49,900
September	597	448	493	.301	.34	29,300
The year	23,800	375	2,600	1.58	21.50	1,880,000
1929-30						
October	547	408	445	.271	.31	27,400
November	465	292	392	.239	.27	23,300
December	-	-	372	.227	.26	22,900
January	-	258	309	.188	.22	19,000
February	846	289	538	.328	.34	29,900
March	1,340	243	470	.286	.33	28,900
April	14,600	1,550	8,490	5.18	5.78	505,000
May	13,500	5,890	9,180	5.60	6.46	564,000
June	11,200	3,360	6,830	4.16	4.64	406,000
July	3,110	973	1,860	1.13	1.30	114,000
August	936	542	690	.421	.49	42,400
September	686	488	558	.340	.38	33,200
The year	14,600	243	2,510	1.53	20.78	1,820,000
1930-31						
October	-	-	922	.562	.65	56,700
November	1,550	697	1,000	.609	.68	59,500
December	849	651	758	.462	.53	46,600
January	808	560	694	.423	.49	42,700
February	864	703	755	.460	.48	41,900
March	2,160	728	1,200	.732	.84	73,800
April	7,080	1,380	3,300	2.01	2.24	196,000
May	21,400	7,080	11,800	7.20	8.30	726,000
June	11,600	2,320	5,660	3.45	3.85	337,000
July	2,160	825	1,370	.835	.96	84,200
August	928	456	618	.377	.43	38,000
September	893	409	691	.421	.47	41,100
The year	21,400	409	2,410	1.47	19.92	1,740,000
1931-32						
October	766	509	615	.375	.43	37,800
November	1,270	450	820	.500	.56	48,800
December	1,150	498	788	.480	.55	48,500
January	759	374	552	.337	.39	33,900
February	6,060	379	1,440	.878	.95	82,800
March	4,120	1,660	2,130	1.30	1.50	131,000
April	9,340	2,480	5,480	3.34	3.73	326,000
May	29,100	5,560	14,500	8.84	10.19	892,000
June	17,200	7,620	12,300	7.50	8.37	732,000
July	6,900	1,570	3,480	2.12	2.44	214,000
August	1,520	893	1,140	.695	.80	70,100
September	999	570	719	.438	.49	42,800
The year	29,100	374	3,660	2.23	30.40	2,660,000
1932-33						
October	1,240	502	832	.507	.58	51,100
November	4,270	1,020	2,290	1.40	1.56	136,000
December	-	1,060	1,910	1.16	1.34	117,000
January	1,560	845	1,170	.713	.82	71,900
February	1,200	676	910	.554	.58	50,500
March	1,060	728	878	.535	.62	54,000
April	15,900	915	4,010	2.44	2.72	239,000
May	26,700	6,080	11,100	6.76	7.80	682,000
June	36,500	12,500	25,000	15.20	17.00	1,490,000
July 1-10	11,000	6,260	852	.519	.20	17,500
August	-	-	-	-	-	-
September 21-30	1,090	845	985	.600	.22	19,500

Monthly discharge of South Fork of Flathead River near Columbia Falls, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1933-34						
October	12,800	793	2,899	1.77	2.04	178,300
November	9,730	2,360	4,128	2.52	2.81	245,600
December	"	2,240	3,504	2.14	2.47	215,400
January	"	"	2,729	1.66	1.91	167,800
February	2,240	1,470	2,042	1.25	1.30	113,400
March	4,550	1,640	2,945	1.80	2.08	181,100
April	21,700	3,600	11,770	7.18	8.01	700,300
May	20,800	11,200	15,230	9.29	10.71	936,200
June	"	3,360	6,920	4.22	4.71	411,800
July	3,240	"	1,907	1.16	1.34	117,200
August	"	584	775	.473	.55	47,650
September	596	500	539	.329	.37	32,050
The year	21,700	500	4,623	2.82	38.30	3,347,000
1934-35						
October	3,120	461	879	.536	.62	54,070
November	3,600	1,280	2,064	1.26	1.41	122,800
December	1,280	686	997	.608	.70	61,290
January	1,980	505	924	.563	.65	56,790
February	1,400	805	1,029	.627	.65	57,130
March	1,700	935	1,280	.780	.90	78,730
April	6,800	772	3,058	1.86	2.08	181,900
May	26,100	5,580	12,750	7.77	8.96	784,200
June	20,600	6,440	11,990	7.31	8.16	713,500
July	6,440	1,480	3,213	1.96	2.26	197,600
August	1,400	"	964	.588	.68	59,290
September	"	"	574	.350	.39	34,140
The year	26,100	461	3,317	2.02	27.46	2,401,000
1935-36						
October	488	337	451	.275	.32	27,750
November	450	355	396	.241	.27	23,550
December	405	209	313	.191	.22	19,270
January	"	"	346	.211	.24	21,270
February	"	"	349	.213	.23	20,080
March	584	319	474	.289	.33	29,120
April	16,100	324	7,222	4.40	4.91	429,700
May	30,000	10,500	17,460	10.6	12.22	1,074,000
June	20,800	2,940	7,140	4.35	4.85	424,900
July	2,700	919	1,560	.951	1.10	95,930
August	903	505	676	.412	.48	41,560
September	608	430	498	.304	.34	29,620
The year	30,000	209	3,081	1.88	25.51	2,237,000
1936-37						
October	505	"	432	.263	.30	26,580
November	"	"	361	.220	.25	21,510
December	"	"	410	.250	.29	25,230
January	"	"	266	.162	.19	16,350
February	"	"	302	.184	.19	16,750
March	"	"	402	.245	.28	24,710
April	5,950	"	2,020	1.23	1.37	120,200
May	16,400	5,470	11,360	6.93	7.99	698,300
June	11,700	5,150	8,780	5.35	5.97	522,500
July	5,000	1,210	2,296	1.40	1.61	141,200
August	1,410	570	873	.532	.61	53,680
September	575	444	504	.307	.34	29,970
The year	16,400	"	2,344	1.43	19.39	1,697,000
1937-38						
October	674	480	551	.336	.39	33,850
November	1,060	652	824	.502	.56	49,030
December	1,300	692	961	.586	.68	59,100
January	1,340	756	957	.584	.67	58,840
February	1,200	848	946	.577	.60	52,550
March	1,300	674	939	.573	.66	57,740
April	18,100	915	5,312	3.24	3.62	316,100
May	22,800	5,420	11,620	7.09	8.17	714,600
June	17,300	5,420	10,470	6.38	7.12	623,100
July	4,960	1,200	2,622	1.60	1.84	161,200
August	1,160	652	893	.545	.63	54,920
September	668	471	568	.346	.39	33,780
The year	22,800	471	3,059	1.87	25.33	2,215,000

Yearly discharge of South Fork of Flathead River near Columbia Falls, Mont.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1929	2,600	1.58	21.50	1,880,000	2,520	1.53	20.83	1,822,000
1930	2,510	1.53	20.78	1,820,000	2,630	1.60	21.80	1,905,000
1931	2,410	1.47	19.92	1,740,000	2,370	1.45	19.60	1,716,000
1932	3,660	2.23	30.40	2,660,000	3,900	2.38	32.34	2,829,000
1934	4,623	2.82	38.30	3,347,000	4,069	2.48	33.71	2,946,000
1935	3,317	2.02	27.46	2,401,000	3,086	1.88	25.54	2,234,000
1936	3,081	1.88	25.51	2,237,000	3,085	1.88	25.54	2,240,000
1937	2,344	.43	19.39	1,697,000	2,439	1.49	20.18	1,766,000
1938	3,059	1.87	25.33	2,215,000	-	-	-	-

Stillwater River near Whitefish, Mont.

Location.- Water-stage recorder, lat. 48°19', long. 114°23', in SW¼ sec. 34, T. 30 N., R. 22 W., 600 feet downstream from highway bridge 7 miles southwest of Whitefish, and 10 miles upstream from Whitefish Creek.
Records available.- November 1930 to September 1938.
Extremes.- Maximum discharge, 2,680 second-feet Apr. 28, 1934 (gage height, 14.47 feet); minimum, 55 second-feet (estimated) Jan. 20-22, 1937, ice present.
Remarks.- Some regulation for logging operations during summer. No diversion.

Monthly discharge of Stillwater River near Whitefish, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1930-31				
November 8-30	92	64	78.6	3,590
December	90	61	73.6	4,530
January	104	62	78.7	4,840
February	131	82	102	5,660
March	206	98	143	8,790
April	498	186	366	21,800
May	825	464	663	40,800
June	464	225	331	19,700
July	218	100	155	9,530
August	98	62	76.1	4,680
September	72	58	67.0	3,990
The period	-	-	-	128,000
1931-32				
October	66	62	64.0	3,940
November	81	62	70.2	4,180
December	87	60	73.1	4,490
January	102	72	87.6	5,390
February	118	63	74.5	4,290
March	244	87	141	8,670
April	1,160	225	720	42,800
May	1,910	1,120	1,610	99,000
June	1,760	805	1,290	76,800
July	785	251	454	27,900
August	238	162	194	11,900
September	162	100	126	7,500
The year	1,910	60	409	297,000
1932-33				
October	130	102	116	7,130
November	192	131	160	9,520
December	174	98	121	7,440
January	146	100	122	7,500
February	120	89	103	5,720
March	143	112	121	7,440
April	1,550	156	466	27,700
May	1,870	1,280	1,570	96,500
June	1,930	905	1,570	93,400
July	885	264	497	30,600
August	264	151	203	12,500
September	174	140	155	9,220
The year	1,930	89	435	315,000
1933-34				
October	321	121	165	10,130
November	398	218	291	17,340
December	-	192	295	18,130
January	-	306	495	30,410
February	321	-	274	15,240
March	905	-	513	31,530
April	2,680	965	1,855	110,400
May	2,520	1,000	1,556	95,660
June	985	430	651	38,730
July	414	162	265	16,290
August	162	98	120	7,360
September	99	88	93.5	5,570
The year	2,680	88	548	396,800

Monthly discharge of Stillwater River near Whitefish, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1934-35				
October	180	96	115	7,050
November	225	151	188	11,120
December	168	123	137	8,390
January	136	119	127	7,800
February	140	125	130	7,210
March	156	112	138	8,460
April	1,260	113	434	25,850
May	2,220	1,260	1,711	105,200
June	1,750	728	1,154	68,670
July	709	264	470	28,880
August	258	146	186	11,440
September	146	94	115	6,820
The year	2,220	94	410	296,900
1935-36				
October	103	80	96.0	5,900
November	117	88	98.0	5,830
December	104	75	90.3	5,550
January	110	75	94.4	5,810
February	-	-	66.4	3,820
March	93	79	85.3	5,240
April	1,750	71	657	39,100
May	1,620	785	1,196	73,520
June	785	328	525	31,260
July	314	120	189	11,600
August	117	73	89.7	5,510
September	84	70	76.5	4,550
The year	1,750	-	272	197,700
1936-37				
October	74	69	71.6	4,400
November	77	63	68.6	4,080
December	129	58	75.5	4,640
January	70	55	60.8	3,740
February	87	60	74.1	4,110
March	87	70	78.0	4,790
April	566	83	214	12,730
May	1,240	583	1,045	64,260
June	985	498	714	42,490
July	464	162	274	16,820
August	168	92	130	7,970
September	91	75	81.7	4,860
The year	1,240	55	242	174,900
1937-38				
October	87	59	77.8	4,790
November	107	82	94.1	5,600
December	112	73	94.2	5,790
January	102	79	92.7	5,700
February	-	-	94.3	5,240
March	-	-	107	6,570
April	986	102	525	31,240
May	1,260	929	1,070	65,780
June	1,220	546	776	46,170
July	512	203	359	22,060
August	197	120	155	9,540
September	134	103	116	6,910
The year	1,260	59	297	215,400

Yearly discharge of Stillwater River near Whitefish, Mont.

Year	Year ending Sept. 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1931	-	-	183	132,400
1932	409	297,000	425	308,300
1933	435	315,000	464	336,200
1934	548	396,800	522	377,800
1935	410	296,900	397	287,600
1936	272	197,700	267	193,500
1937	242	174,900	246	178,000
1938	297	215,400	-	-

Stillwater River near Kalispell, Mont.

Location.- Staff gage, lat. 48°17', long. 114°20', in NE¼ sec. 14, T. 29 N., R. 22 W., on highway bridge 5 miles north of Kalispell.
Records available.- April to August 1922, June 1928 to September 1930.
Extremes.- Maximum discharge observed, 2,750 second-feet May 22, 1922 (gage height, 10.50 feet); minimum observed, 26 second-feet Nov. 11, 1930 (gage height, 0.30 foot).
Remarks.- Partial regulation for logging operations during summer. No diversion.

Monthly discharge of Stillwater River near Kalispell, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1922				
April 27-30	338	234	261	2,070
May	2,750	334	1,340	82,400
June	1,860	370	990	58,900
July	647	220	398	24,500
August	230	184	208	12,800
1928				
June 25-30	1,600	908	1,240	14,800
July	1,190	238	707	43,500
August	362	142	246	15,100
September	249	52	113	6,720
The period	-	-	-	80,100
1928-29				
October	128	68	93.5	5,750
November	238	55	115	6,840
March 20-31	146	90	105	2,500
April	471	116	186	11,100
May	1,160	471	827	50,800
June	1,040	405	798	47,500
July	581	102	261	16,000
August	261	85	131	8,060
September	108	35	64.7	3,850
1929-30				
October	300	68	112	6,890
November	154	31	72.5	4,310
December	105	53	82.4	5,070
January	96	35	52.4	3,220
February	97	58	74.5	4,140
March	120	55	84.9	5,220
April	658	112	257	15,300
May	1,060	305	570	35,000
June	1,340	264	618	36,800
July	284	84	187	11,500
August	135	73	98.1	6,030
September	120	69	87.0	5,180
The year	1,340	31	192	139,000
1930				
October	112	90	101	6,210
November 1-7	-	-	106	1,470

Logan Creek at Tally Lake, near Whitefish, Mont.

Location.- Staff gage, lat. 48°27', long. 114°34', in NW¼ sec. 17, T. 31 N., R. 23 W., about 2½ miles north of Tally Lake and 10 miles west of Whitefish. August 1931 to September 1934, staff gage at site 2½ miles upstream.
Records available.- August 1931 to September 1934, April 1936 to September 1938.
Extremes.- Maximum gage height, 7.22 feet May 28, 29, 1933 (discharge not determined); minimum discharge, 0.8 second-foot Sept. 6, 1931.
Remarks.- No diversion. Natural storage in Tally Lake.

Monthly discharge of Logan Creek at Tally Lake near Whitefish, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1931				
August 20-31	3.5	2.2	2.92	69
September	7.4	1.2	4.05	241
1931-32				
October	10.8	5.4	7.80	480
November	22.2	10.3	15.6	928
December 1-20	14.8	10.3	12.2	484
March 16-31	29	19.0	24.2	768
April 1-16	203	30	75.1	2,380
July 7-31	156	27	61.5	3,050
August	25.4	16.2	20.5	1,260
September	19.0	10.3	14.4	857

Monthly discharge of Logan Creek at Tally Lake near Whitefish, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1932-33				
October	24.6	12.7	19.4	1,190
November	41	23.8	31.5	1,870
December	40	18.3	24.5	1,510
January	27.0	19.8	23.1	1,420
February	21.4	15.5	18.6	1,030
March	23.8	19.0	20.7	1,270
April 1-26	206	23.8	54.4	2,810
The period	-	-	-	11,100
1934				
May 18-31	431	203	296	8,220
June	216	67	136	8,080
July	80	18.3	41.5	2,550
August	16.9	9.1	11.6	711
September 1-15	9.1	9.1	9.10	271
The period	-	-	-	19,830
1936				
May	680	142	400	24,570
June	134	45	83.4	4,960
July	43	9.8	23.7	1,460
August	9.4	5.1	6.49	399
September	9.8	5.1	8.52	507
The period	-	-	-	31,900
1936-37				
October	13	9.4	11.5	708
November	14	12	12.9	770
December	23	13	15.6	960
January	-	-	7.37	453
February	-	-	9.66	537
March	16	-	13.8	849
April	149	15	43.3	2,580
May	515	160	344	21,170
June	200	102	150	8,910
July	98	25	50.0	3,070
August	24	5.8	14.2	873
September	5.5	4.5	5.01	298
The year	515	-	56.9	41,180
1937-38				
October	14	5.5	11.8	724
November	19	14	16.4	974
December	24	16	19.2	1,180
January	24	18	20.0	1,230
February	19	16	17.9	996
March	25	17	19.2	1,180
April	360	25	153	9,090
May	590	298	383	23,540
June	280	110	149	8,870
July	106	24	62.8	3,860
August	21	7.8	11.8	725
September	19	7.4	14.4	858
The year	590	5.5	73.5	53,230

Logan Creek near Whitefish, Mont.

Location.- Staff gage, lat. 48°29', long. 114°33', in NE¼ sec. 4, T. 31 N., R. 33 W., just upstream from Good Creek, 20 miles west of Whitefish.
Records available.- April to September 1931.
Extremes.- Maximum discharge observed, 240 second-feet May 8 (gage-height, 2.48 feet); minimum observed, 1.2 second-feet, Sept. 4-5 (gage height, 0.34 foot).
Remarks.- No diversion. Natural storage at Tally Lake 5 miles upstream.

Monthly discharge of Logan Creek near Whitefish, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1931				
April 17-30	188	132	157	4,360
May	240	100	168	10,300
June	87	35	53.6	3,190
July	34	8.7	22.9	1,410
August	12	2.0	5.31	326
September	7.4	1.2	4.02	239
The period	-	-	-	19,800

Whitefish Creek near Kalispell, Mont.

Location.- Water-stage recorder, lat. 48°19', long. 114°16', in SW¼ sec. 34, T. 30 N., R. 21 W., 8 miles north of Kalispell and 8 miles upstream from mouth. Datum of gage is 2,969.7 feet above mean sea level, datum of 1929.
Records available.- November to December 1906 (gage heights only), July 1928 to September 1938.
Extremes.- Maximum discharge, 1,260 second-feet June 3, 1932 (gage height, 4.26 feet); minimum, 4.5 second-feet Oct. 18, 1934 (gage height, 0.83 foot).
Remarks.- No diversion. Some regulation at Whitefish Lake.

Monthly discharge of Whitefish Creek near Kalispell, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1928				
July 14-31	460	265	350	12,500
August	250	116	145	8,920
September	126	84	102	6,070
The period	-	-	-	17,500
1928-29				
October	102	49	76.0	*4,670
November	93	70	82.1	*4,890
March 15-31	116	63	81.4	*2,740
April	178	63	89.0	*5,300
May	637	178	397	*24,400
June	684	165	563	*33,500
July	368	105	213	*13,100
August	102	22	39.7	*2,440
September	76	22	54.3	*3,230
1929-30				
October	63	7.2	19.7	1,210
November	68	14	29.2	1,740
December	59	26	44.4	2,730
January	56	16	35.9	2,210
February	70	26	45.0	2,500
March	116	22	58.6	3,600
April	347	41	141	8,390
May	368	88	295	18,100
June	827	88	406	24,200
July	212	88	128	7,870
August	102	52	61.5	3,780
September	52	19	39.1	2,330
The year	827	7.2	106	78,700
1930-31				
October	17	7.2	8.36	514
November	140	9.8	29.8	1,770
December	49	35	42.6	2,620
January	54	28	40.8	2,510
February	82	23	41.5	2,300
March	140	66	95.3	5,860
April	227	122	163	9,700
May	643	248	463	28,500
June	453	234	326	19,400
July	230	102	148	9,100
August	103	15	29.5	1,810
September	34	15	23.9	1,420
The year	643	7.2	118	85,500
1931-32				
October	123	27	68.6	4,220
November	101	59	78.1	4,650
December	-	-	56.6	3,480
January	-	-	71.6	4,400
February	-	-	64.8	3,730
March	117	-	78.1	4,800
April	472	96	275	16,400
May	1,070	420	799	49,100
June	1,230	574	914	54,400
July	533	143	318	19,600
August	137	91	117	7,190
September	143	79	102	6,070
The year	1,230	27	245	178,000

* Previously published figure is erroneous.

Monthly discharge of Whitefish Creek near Kalispell, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1932-33				
October	94	29	54.8	3,370
November	174	26	59.7	3,550
December	178	35	86.2	5,300
January	-	-	86	5,290
February	125	24	67	3,720
March	-	59	105	6,460
April	408	114	186	11,100
May	721	397	504	31,000
June	1,140	764	970	57,700
July	742	200	379	23,300
August	207	128	169	10,400
September	143	109	119	7,080
The year	1,140	24	232	168,000
1933-34				
October	152	91	110	6,750
November	217	155	177	10,520
December	306	140	231	14,220
January	256	177	209	12,870
February	177	43	157	8,720
March	340	49	151	9,300
April	960	175	549	32,660
May	982	806	868	53,400
June	850	171	551	32,760
July	389	45	222	13,670
August	149	14	64.5	3,970
September	158	7.5	59.3	3,530
The year	982	7.5	280	202,400
1934-35				
October	106	5.0	40.0	2,460
November	214	11	117	6,930
December	167	17	101	6,200
January	157	35	74.2	4,560
February	157	35	85.1	4,720
March	93	68	81.2	4,990
April	268	78	144	8,560
May	856	348	566	34,820
June	905	668	823	48,940
July	622	235	393	24,180
August	228	17	99.8	6,140
September	210	9.8	91.8	5,460
The year	905	5.0	218	158,000
1935-36				
October	164	8.0	81.6	5,020
November	164	7.5	42.2	2,510
December	59	9.8	23.0	1,410
January	-	-	29.7	1,820
February	-	-	25.5	1,470
March	407	93	212	13,050
April	530	80	249	14,790
May	856	547	693	42,590
June	690	187	391	23,250
July	174	88	120	7,350
August	88	20	53.2	3,270
September	157	44	82.7	4,920
The year	856	7.5	167	121,400
1936-37				
October	100	25	46.2	2,840
November	42	13	20.1	1,200
December	52	14	32.5	2,000
January	-	-	26.5	1,630
February	-	-	37.9	2,100
March	285	-	137	8,410
April	194	23	113	6,710
May	614	135	388	23,840
June	661	389	520	30,960
July	385	108	235	14,440
August	111	84	98.3	6,040
September	81	25	62.0	3,690
The year	661	13	143	103,900

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Monthly discharge of Whitefish Creek near Kalispell, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1937-38				
October	40	5.2	24.7	1,520
November	144	5.2	95.1	5,660
December	81	-	32.6	2,010
January	19	10	13.9	853
February	-	-	15.5	863
March	86	-	63.0	3,880
April	312	67	158	9,370
May	758	324	496	30,500
June	758	452	660	39,300
July	435	132	226	13,870
August	205	24	118	7,270
September	255	18	111	6,610
The year	758	5.2	168	121,700

Yearly discharge of Whitefish Creek near Kalispell, Mont.

Year	Year ending Sept. 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1930	106	78,700	108	77,900
1931	118	85,500	128	93,000
1932	245	178,000	245	178,000
1933	232	168,000	259	188,000
1934	280	202,400	258	186,500
1935	218	158,000	209	151,300
1936	167	121,400	163	118,600
1937	143	103,900	148	107,000
1938	168	121,700	-	-

Ashley Creek near Kila, Mont.

Location.- Staff gage, lat. 48°10', long. 114°36', in sec. 25, T. 28 N., R. 24 W., 1½ miles downstream from outlet of Ashley Lake and 7 miles northwest of Kila.
Records available.- July to December 1916.
Extremes.- Maximum discharge observed, 20.2 second-feet Aug. 9 (gage height, 1.82 feet); minimum observed, 4.2 second-feet Sept. 29 (gage height, 1.14 feet).
Remarks.- No diversion. Flood water stored in Ashley Lake for release during irrigation season.

Monthly discharge of Ashley Creek near Kila, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1916				
July 23-31	18	17	17.9	320
August	20	14	15.7	965
September	16	7.8	14.2	845
October	20	15	17.4	1,070
November	19	12	15.1	898
December 1-19	18	15	16.9	637
The period	-	-	-	4,740

Ashley Creek near Kalispell, Mont.

Location.- Wire-weight gage, lat. 48°11', long. 114°24', in SE¼ sec. 16, T. 28 N., R. 22 W., 4 miles west of Kalispell.
Records available.- April 1931 to March 1933, April 1934 to September 1938.
Extremes.- Maximum discharge observed, 285 second-feet Apr. 26, 1934 (gage height, 9.30 feet); no flow at times.
Remarks.- Some diversions. Natural storage in Smith Lake.

Monthly discharge of Ashley Creek near Kalispell, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1931				
April 20-30	8.1	1.0	3.99	87
May	44	12	26.7	1,640
June	29	5.9	17.1	1,020
July	25	3.2	11.7	720
August	5.9	0	.94	58
September	0	0	0	0
The period	-	-	-	3,520
1931-32				
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	-	0	7.1	437
April	86	19	50.7	3,020
May	124	68	97.1	5,970
June	68	12	40.2	2,390
July	18	6.4	11.9	732
August	12	1.1	4.49	276
September	6.1	1.1	2.70	161
The year	-	-	-	13,000
1932-33				
October	13.8	.2	3.32	204
November	16.8	1.1	6.72	400
December	18.3	0	1.28	78
January	0	0	0	0
February	0	0	0	0
March 1-17	0	0	0	0
The period	-	-	-	682
1934				
May 19-31	178	99	135	3,480
June	94	32	63.6	3,790
July	60	16	35.6	2,190
August	40	29	35.9	2,210
September	32	21	26.7	1,590
The period	-	-	-	13,260
1934-35				
October	24	7.4	15.8	971
November	26	5.0	15.6	928
December	18	7.0	12.7	778
January	49	7	21.2	1,300
February	40	11	19.6	1,090
March	40	11	23.0	1,420
April	119	21	58.0	3,450
May	166	109	130	7,990
June	124	34	58.1	3,460
July	40	34	36.9	2,270
August	35	3.5	14.8	907
September	20	8.2	15.0	894
The year	166	3.5	35.2	25,460
1935-36				
October	14	5.5	10.1	621
November	9.5	-	6.95	413
December	9.5	-	5.98	368
January	-	.8	4.89	300
February	-	-	1.15	66
March	53	-	18.6	1,140
April	148	-	66.6	3,960
May	154	33	104	6,370
June	53	26	42.2	2,510
July	40	3.2	18.0	1,110
August	3.2	0	1.33	82
September	5.2	.5	3.01	179
The year	154	0	23.6	17,120

Monthly discharge of Ashley Creek near Kalispell, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1936-37				
October	4.0	0.5	2.71	167
November	2.4	.1	1.68	100
December	-	-	1.90	117
January	-	-	1.50	92
February	1.4	.5	.98	54
March	20	1.0	3.94	242
April	56	24	35.2	2,090
May	53	20	35.0	2,150
June	49	36	42.5	2,530
July	37	28	32.4	1,990
August	26	.9	8.27	509
September	2.0	0	.14	8.1
The year	56	0	13.9	10,050
1937-38				
October	3.7	0	1.02	63
November	4.0	0	.99	59
December	-	-	2.5	154
January	-	-	3.0	184
February	-	-	2.0	111
March	37	-	8.90	547
April	37	18	32.4	1,930
May	60	23	44.8	2,760
June	60	32	39.5	2,350
July	31	14	21.7	1,330
August	14	7.4	9.85	606
September	13	6.4	9.65	574
The year	60	0	14.7	10,670

Swan River near Big Fork, Mont.

Location.- Water-stage recorder, lat. 48°01', long. 113°59', in NW¼ sec. 14, T. 26 N., R. 19 W., at outlet of Swan Lake, 7 miles southeast of village of Big Fork.
Drainage area.- 647 square miles.
Records available.- April 1922 to September 1938. October 1910 to May 1911 (gage heights only) at site 2 miles upstream from Swan Lake.
Extremes.- Minimum discharge, 8,280 second-feet June 18, 1933 (gage height, 7.00 feet); minimum, 85 second-feet Jan. 26-29, 1930 (gage height, 0.04 foot).
Remarks.- No diversion. Natural storage in Swan Lake.

Monthly discharge of Swan River near Big Fork, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1922						
April 28-30	1,700	1,540	1,640	2.53	0.28	9,760
May	4,530	1,840	2,910	4.50	5.19	179,000
June	5,440	2,040	3,770	5.83	6.50	224,000
July	1,980	783	1,240	1.92	2.21	76,200
August	768	526	646	.998	1.15	39,200
September	562	424	498	.769	.86	29,600
1922-23						
October	424	374	397	.614	.71	24,400
November	393	345	366	.566	.63	21,800
December	490	318	358	.553	.64	22,000
January	562	364	478	.739	.85	29,400
February	354	268	a320	.495	.52	17,800
March	414	268	280	.433	.50	17,200
April	1,720	468	1,090	1.68	1.87	64,900
May	4,000	1,490	2,520	3.89	4.48	155,000
June	4,680	2,440	3,120	4.82	5.38	186,000
July	2,420	933	1,600	2.47	2.85	98,400
August	924	569	681	1.05	1.21	41,900
September	556	378	435	.672	.75	-
The year	4,680	268	973	1.50	20.39	705,000

a Partly estimated.

Monthly discharge of Swan River near Big Fork, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1923-24						
October	430	340	397	0.614	0.71	24,200
November	474	340	372	.575	.64	22,100
December	451	331	385	.595	.69	23,700
January	331	280	300	.464	.53	18,400
February	520	314	435	.672	.72	25,000
March	474	409	435	.672	.77	26,700
April	1,600	419	1,120	1.73	1.93	66,600
May	5,330	1,660	3,660	5.66	6.52	225,000
June	2,890	1,650	2,270	3.51	3.92	135,000
July	1,600	634	1,050	1.62	1.87	64,600
August	608	443	517	.799	.92	31,800
September	443	360	389	.601	.67	23,100
The year	5,330	280	946	1.46	19.89	686,000
1924-25						
October	433	352	381	.589	.68	23,400
November	620	424	517	.799	.89	30,800
December 1-13	505	414	449	.694	.34	11,600
March 22-31	1,490	706	980	1.51	.56	19,400
April	4,560	1,670	3,230	4.99	5.57	192,000
May	6,660	2,280	4,470	6.91	7.97	275,000
June	4,620	2,750	3,380	5.22	5.82	201,000
July	3,100	1,020	1,700	2.63	3.03	105,000
August	1,110	722	885	1.37	1.58	54,400
September	806	634	716	1.11	1.24	42,600
1925-26						
October	655	505	562	.869	1.00	34,600
November	560	479	512	.791	.88	30,500
December	770	505	595	.920	1.06	36,600
March 21-31	1,150	770	991	1.53	.63	21,600
April	3,860	690	1,870	2.89	3.22	111,000
May	3,700	1,780	2,590	4.00	4.61	159,000
June	2,250	1,200	1,680	2.60	2.90	100,000
July	1,300	505	810	1.25	1.44	49,800
August	479	404	442	.683	.79	27,200
September	655	532	603	.932	1.04	35,900
1926-27						
October	1,560	568	977	1.51	1.74	60,100
November	1,560	640	912	1.41	1.57	54,300
December	2,120	720	1,210	1.87	2.16	74,400
March 13-31	720	530	617	.954	.67	23,300
April	4,190	805	1,530	2.36	2.63	91,000
May	4,700	2,000	3,180	4.91	5.66	196,000
June	6,860	2,780	5,170	7.99	8.91	308,000
July	4,360	1,460	2,570	3.97	4.58	158,000
August	1,460	848	1,050	1.62	1.87	64,600
September	980	720	882	1.36	1.52	52,500
1927-28						
October	1,160	762	998	1.54	1.78	61,400
November	1,890	890	1,510	2.33	2.60	89,800
December	2,000	805	1,280	1.98	2.28	78,700
March 4-31	1,710	640	1,100	1.70	1.77	61,100
April	4,140	1,460	2,060	3.18	3.55	123,000
May	7,820	3,070	5,470	8.46	9.75	336,000
June	5,460	3,220	3,960	6.12	6.83	236,000
July	4,640	1,710	2,830	4.37	5.04	174,000
August	1,580	910	1,150	1.78	2.05	70,700
September	910	560	712	1.10	1.23	42,400
1928-29						
October	815	560	726	1.12	1.29	44,600
November	682	560	607	.938	1.05	36,100
December	560	420	479	.740	.85	29,500
January	522	329	423	.654	.75	26,000
February	329	273	300	.464	.48	16,700
March	600	300	407	.629	.73	25,000
April	2,100	560	938	1.45	1.62	55,800
May	5,300	1,840	2,900	4.48	5.16	178,000
June	4,310	2,500	3,400	5.26	5.87	202,000
July	2,500	815	1,460	2.26	2.61	89,800
August	815	454	583	.901	1.04	35,800
September	454	358	390	.603	.67	23,200
The year	5,300	273	1,050	1.62	22.12	762,000

Monthly discharge of Swan River near Big Fork, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929-30						
October	389	323	366	0.566	0.65	22,400
November	358	268	308	.476	.53	18,300
December	560	257	404	.624	.72	24,000
January	389	85	218	.337	.39	13,000
February	246	93	168	.260	.27	9,330
March	389	133	180	.278	.32	11,100
April	2,780	454	1,730	2.67	2.98	103,000
May	2,780	1,580	2,210	3.42	3.94	136,000
June	2,920	1,710	2,220	3.43	3.83	132,000
July	1,580	560	1,020	1.58	1.82	62,700
August	560	289	411	.635	.73	25,300
September	408	246	319	.493	.55	19,000
The year	2,920	85	796	1.23	16.73	576,000
1930-31						
October	725	346	495	.765	.88	30,400
November	630	404	495	.765	.85	29,500
December	432	335	386	.597	.69	23,700
January	409	320	354	.547	.63	21,800
February	414	355	382	.590	.61	21,200
March	884	350	545	.842	.97	33,500
April	1,130	730	949	1.47	1.64	56,500
May	4,950	1,140	2,930	4.53	5.22	180,000
June	3,310	1,100	2,210	3.42	3.82	132,000
July	1,050	480	705	1.09	1.26	43,300
August	506	325	399	.617	.71	24,500
September	532	306	421	.651	.73	25,100
The year	4,950	306	858	1.33	18.01	622,000
1931-32						
October	480	355	401	.620	.71	24,700
November	480	355	414	.640	.71	24,600
December	387	315	359	.555	.64	22,100
January	365	315	348	.538	.62	21,400
February	486	279	315	.487	.53	18,100
March	804	438	587	.907	1.05	36,100
April	2,880	855	1,940	3.00	3.35	115,000
May	5,520	1,690	3,460	5.35	6.17	213,000
June	4,570	2,540	3,680	5.69	6.35	219,000
July	3,310	940	1,800	2.78	3.20	111,000
August	922	673	699	1.08	1.24	43,000
September	601	474	516	.798	.89	30,700
The year	5,520	279	1,210	1.87	25.46	879,000
1932-33						
October	638	438	551	.852	.98	33,900
November	1,050	608	792	1.22	1.36	47,100
December	931	533	653	1.01	1.16	40,200
January	578	435	503	.777	.90	30,900
February	442	310	386	.596	.62	21,400
March	533	404	437	.675	.78	26,900
April	3,050	563	1,200	1.85	2.06	71,400
May	3,130	1,610	2,230	3.45	3.98	137,000
June	8,280	3,660	5,750	8.89	9.92	342,000
July	4,050	1,070	2,150	3.32	3.83	132,000
August	1,030	586	765	1.18	1.36	47,000
September	626	533	571	.882	.98	34,000
The year	8,280	310	1,330	2.06	27.93	964,000
1933-34						
October	2,200	483	1,137	1.76	2.03	69,930
November	1,540	770	938	1.45	1.62	55,840
December	4,550	797	1,796	2.78	3.20	110,400
January	1,980	925	1,298	2.01	2.32	79,800
February	905	709	839	1.30	1.35	46,600
March	1,400	726	1,027	1.59	1.83	63,160
April	3,750	1,570	2,661	4.11	4.59	158,300
May	3,560	2,650	3,027	4.68	5.40	186,100
June	3,560	1,370	2,053	3.17	3.54	122,200
July	1,380	618	926	1.43	1.65	56,970
August	602	392	485	.750	.86	29,800
September	429	362	394	.609	.68	23,430
The year	4,550	362	1,385	2.14	29.07	1,003,000

Monthly discharge of Swan River near Big Fork, Mont.--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1934-35						
October	726	374	457	0.706	0.81	28,090
November	851	602	728	1.13	1.26	43,300
December	586	449	504	.779	.90	30,990
January	563	392	474	.733	.85	29,130
February	540	429	477	.737	.77	26,500
March	594	423	520	.804	.93	31,990
April	2,050	489	1,110	1.72	1.92	66,050
May	4,550	1,770	2,655	4.10	4.73	163,300
June	4,250	2,050	3,183	4.92	5.49	189,400
July	2,200	797	1,358	2.10	2.42	83,510
August	788	455	591	.913	1.05	36,350
September	455	356	391	.604	.67	23,240
The year	4,550	356	1,038	1.60	21.80	751,800
1935-36						
October	386	327	348	.538	.62	21,420
November	392	310	355	.549	.61	21,140
December	350	302	324	.501	.58	19,950
January	386	288	349	.539	.62	21,480
February	321	279	298	.461	.50	17,160
March	429	327	391	.604	.70	24,030
April	4,750	306	2,109	3.26	3.64	125,500
May	5,970	2,970	3,973	6.14	7.08	244,300
June	5,550	1,420	2,708	4.19	4.68	161,200
July	1,420	533	847	1.31	1.51	52,060
August	533	339	418	.646	.74	25,700
September	398	321	356	.550	.61	21,190
The year	5,970	279	1,040	1.61	21.89	755,100
1936-27						
October	339	284	312	.482	.56	19,160
November	306	270	290	.448	.50	17,270
December	368	258	307	.474	.55	18,880
January	327	267	289	.447	.52	17,770
February	267	255	262	.405	.42	14,530
March	306	252	277	.428	.49	17,050
April	1,200	321	675	1.04	1.16	40,160
May	3,300	1,200	2,217	3.43	3.95	136,300
June	3,130	1,840	2,443	3.78	4.22	145,300
July	1,780	540	982	1.52	1.75	60,400
August	570	321	440	.680	.78	27,030
September	315	264	290	.448	.50	17,250
The year	3,300	252	734	1.13	15.40	531,100
1937-38						
October	344	284	308	.476	.55	18,950
November	464	354	394	.609	.68	23,420
December	498	344	428	.662	.76	26,340
January	427	317	379	.586	.68	23,320
February	376	308	334	.516	.54	18,570
March	498	317	395	.611	.70	24,280
April	2,640	471	1,232	1.90	2.12	73,290
May	4,350	1,360	2,277	3.52	4.06	140,000
June	4,050	1,970	2,777	4.29	4.79	165,200
July	1,830	605	1,078	1.67	1.92	66,280
August	583	398	472	.730	.84	29,000
September	398	326	367	.567	.63	21,830
The year	4,350	284	871	1.35	18.27	630,500

Yearly discharge of Swan River near Big Fork, Mont.

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1923	973	1.50	20.39	705,000	976	1.51	20.45	707,000
1924	946	1.46	19.89	686,000	939	1.45	19.76	682,000
1929	1,050	1.62	22.12	762,000	990	1.53	20.83	717,000
1930	796	1.23	16.73	576,000	822	1.27	17.25	595,000
1931	858	1.33	18.01	622,000	842	1.30	17.65	609,000
1932	1,210	1.87	25.46	879,000	1,280	1.98	26.90	928,000
1933	1,330	2.06	27.93	964,000	1,490	2.30	31.28	1,080,000
1934	1,385	2.14	29.07	1,003,000	1,200	1.85	25.19	868,700
1935	1,038	1.60	21.80	751,800	983	1.52	20.64	712,000
1936	1,040	1.61	21.89	755,100	1,030	1.59	21.69	747,900
1937	734	1.13	15.40	531,100	752	1.16	15.78	544,500
1938	871	1.35	18.27	630,500	-	-	-	-
Highest	1,385	2.14	29.07	1,003,000	1,490	2.30	31.28	1,080,000
Average	1,020	1.58	21.41	738,800	1,028	1.59	21.58	744,600
Lowest	734	1.13	15.40	531,100	752	1.16	15.78	544,500

Big Creek near Polson, Mont.

Location.- Water-stage recorder, lat. 47°42', long. 114°02', in NW¼ sec. 4, T. 22 N., R. 19 W., just downstream from Mission Range Power Co.'s plant three-quarters of a mile upstream from mouth and 7 miles east of Polson.
Records available.- June 1917 to September 1932.
Extremes.- Maximum discharge, 104 second-feet June 9, 1917; no flow at short intervals during November and December 1922, when power plant was shut down.
Remarks.- Flow regulated by power plant.

Monthly discharge of Big Creek near Polson, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1917				
June	90	22.5	33.2	1,980
July	25	7.6	14.3	879
August	15	7.1	9.15	563
September	11.5	3.7	7.25	431
The period	-	-	-	3,850
1917-18				
October	11.5	3.2	8.44	519
November	6.7	2.5	4.42	263
December	28	4.5	8.21	505
January	27	1.8	a7.23	445
February	6.2	5.0	a5.55	308
March	12.0	3.7	6.34	390
April	23.2	8.1	14.4	857
May	30	5.8	a13.1	806
June	38	5.8	19.5	1,160
July	18.0	5.4	8.23	506
August	8.1	5.0	6.08	374
September	7.1	4.5	5.66	337
The year	38	1.8	8.94	6,470
1918-19				
October	8.1	5.8	6.92	426
November	8.1	5.4	6.40	381
December	5.8	2.8	4.15	255
January	-	-	e4.50	277
February	6.7	3.7	a5.51	306
March	8.6	2.2	4.54	279
April	14.4	5.4	8.15	485
May	53.0	2.8	18.1	1,110
June	30.0	4.5	17.0	1,010
July	7.1	2.0	4.05	249
August	8.6	1.7	4.56	280
September	5.8	1.4	4.06	242
The year	53.0	1.4	7.32	5,300

a Partly estimated.
e Estimated.

Monthly discharge of Big Creek near Polscn, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1919-20				
October	5.5	3.5	4.74	291
November	6.3	2.8	4.90	292
December	5.8	3.7	4.69	288
January	6.9	2.6	4.01	247
February	4.3	1.9	3.58	206
March	3.9	1.7	3.21	197
April	4.5	2.6	3.55	211
May	29.4	3.4	6.77	416
June	17.8	3.1	6.12	364
July	5.3	2.8	4.30	264
August	5.6	2.3	3.51	216
September	3.5	2.4	3.11	185
The year	29.4	1.7	4.38	3,180
1920-21				
October	6.2	1.8	3.81	234
November	-	-	5.44	324
December	-	-	5.69	350
January	-	-	5.16	317
February	-	-	4.60	255
March	-	-	4.73	291
April	-	1.6	2.93	174
May	13.4	1.9	5.70	350
June	18.5	3.5	9.20	547
July	6.6	2.0	4.77	293
August	5.5	2.4	4.64	285
September	4.9	3.2	4.33	258
The year	18.5	1.6	5.08	3,680
1921-22				
October	4.6	3.0	4.14	255
November	6.8	2.7	5.32	317
December	-	-	5.10	314
January	5.4	3.8	4.59	282
February	5.3	3.3	4.68	260
March	5.3	3.1	4.09	251
April	6.6	3.3	4.55	271
May	38	4.8	14.2	873
June	40	3.9	15.3	910
July	8.4	3.6	5.06	311
August	6.7	3.2	5.36	330
September	4.6	2.8	4.11	245
The year	40	2.7	6.38	4,620
1922-23				
October	5.2	3.0	4.47	275
November	7.5	4.2	5.82	346
December	7.8	5.0	6.55	403
January	7.3	5.0	6.44	396
February	6.8	4.9	5.80	322
March	5.9	4.9	5.22	321
April	6.8	4.9	5.78	344
May	12.3	5.7	7.57	465
June	18.4	5.8	9.76	581
July	9.7	5.9	8.08	497
August	9.0	5.4	6.52	401
September	7.1	5.1	6.23	371
The year	18.4	3.0	6.52	4,720
1923-24				
October	5.6	2.4	3.83	236
November	5.4	2.4	4.24	252
December	5.2	3.1	4.09	251
January	4.2	3.0	3.39	208
February	5.5	2.9	4.41	254
March	5.3	2.6	3.99	245
April	4.6	2.7	3.58	213
May	22.6	6.0	13.7	842
June	10.4	5.0	7.63	454
July	5.6	4.6	5.12	315
August	5.4	4.0	4.51	277
September	7.0	4.4	5.41	322
The year	22.6	2.4	5.33	3,870

Monthly discharge of Big Creek near Polson, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1924-25				
October	4.2	2.2	2.99	184
November	5.1	2.2	3.91	233
December	5.1	2.7	4.21	259
January	4.5	2.8	3.68	226
February	4.6	2.7	3.46	192
March	6.0	2.5	3.42	210
April	21.0	4.6	11.4	678
May	51.8	10.0	22.2	1,360
June	19.4	4.2	13.3	791
July	-	-	3.31	204
August	-	-	4.25	261
September	-	-	4.74	282
The year	51.8	-	6.74	4,880
1925-26				
October	5.1	3.1	4.23	260
November	5.5	3.2	4.59	273
December	5.8	3.4	5.03	309
January	4.8	3.0	4.02	247
February	4.8	3.0	4.04	224
March	4.8	2.9	3.95	243
April	27.0	3.0	9.52	566
May	28.6	3.0	9.94	611
June	5.2	3.2	4.11	245
July	5.3	2.7	4.52	278
August	6.0	3.7	5.21	320
September	6.1	3.1	5.03	299
The year	28.6	2.7	5.36	3,880
1926-27				
October	6.0	3.7	4.95	304
November	6.3	3.4	5.11	304
December	5.5	2.7	4.34	267
January	5.2	3.1	4.00	246
February	5.0	3.0	4.26	237
March	4.9	2.4	4.18	257
April	43	3.3	10.9	649
May	35	2.3	15.1	928
June	55	17	32.4	1,930
July	20	5.5	10.9	670
August	8.3	4.6	6.31	388
September	7.3	4.3	5.81	346
The year	55	2.3	9.01	6,530
1927-28				
October	5.7	3.4	4.32	266
November	5.8	3.5	4.96	295
December	6.0	3.2	4.64	285
January	5.6	3.3	4.53	279
February	5.2	3.4	4.22	243
March	4.5	2.9	3.35	206
April	19.3	3.0	9.91	590
May	37.4	22.4	32.0	1,970
June	30.1	22.4	25.5	1,520
July	27.0	5.4	18.1	1,110
August	7.9	4.1	6.17	379
September	6.8	3.0	4.69	279
The year	37.4	2.9	10.2	7,420
1928-29				
October	5.4	3.4	4.50	277
November	6.1	3.0	4.64	276
December	6.5	4.0	5.30	326
January	4.8	3.6	4.30	264
February	4.4	3.0	3.84	213
March	4.1	2.9	3.57	220
April	20.0	3.0	4.54	270
May	26.8	15.6	19.60	1,210
June	25.7	16.1	19.90	1,180
July	15.6	3.2	6.40	394
August	5.0	3.6	4.37	269
September	5.0	3.8	4.47	266
The year	26.8	2.9	7.13	5,160

Monthly discharge of Big Creek near Polson, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1929-30				
October	5.1	3.7	a4.55	280
November	5.3	3.6	4.54	270
December	5.1	3.9	4.53	279
January	4.9	4.0	4.53	279
February	4.9	3.3	4.37	243
March	4.6	3.3	3.90	240
April	12.7	3.5	7.07	421
May	7.3	3.8	5.15	317
June	6.5	3.9	4.56	271
July	6.1	4.3	5.35	329
August	6.5	5.0	5.79	356
September	6.7	4.7	6.04	359
The year	12.7	3.3	5.03	3,640
1930-31				
October	7.1	5.7	6.42	395
November	7.9	5.9	6.83	406
December	8.3	4.7	6.18	380
January	6.2	2.9	4.47	275
February	6.2	3.2	5.22	290
March	5.9	2.7	4.34	267
April	5.8	4.3	5.36	319
May	6.2	4.3	5.41	333
June	6.5	5.0	5.64	336
July	6.7	4.8	5.82	358
August	6.9	5.0	6.12	376
September	7.1	3.2	5.85	348
The year	8.3	2.7	5.64	4,080
1931-32				
October	8.3	4.9	6.73	414
November	8.6	3.4	6.34	377
December	7.1	4.7	6.02	370
January	6.3	3.3	5.61	345
February	6.4	1.9	4.71	271
March	9.0	2.7	5.44	334
April	7.2	4.6	6.42	382
May	8.0	1.7	6.02	370
June	7.8	4.5	6.92	412
July	8.0	3.0	7.18	441
August	7.9	4.5	7.51	462
September	7.9	6.7	7.56	450
The year	9.0	1.7	6.37	4,630

Yearly discharge of Big Creek near Polson, Mont.

Year	Year ending Sept. 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1918	8.94	6,470	8.63	6,240
1919	7.32	5,300	7.06	5,110
1920	4.38	3,180	4.43	3,210
1921	5.08	3,680	5.05	3,660
1922	6.38	4,620	6.57	4,760
1923	6.52	4,720	6.13	4,440
1924	5.33	3,870	5.24	3,810
1925	6.74	4,880	6.97	5,050
1926	5.36	3,880	5.40	3,910
1927	9.01	6,530	8.97	6,500
1928	10.2	7,420	10.3	7,460
1929	7.13	5,160	7.07	5,120
1930	5.03	3,640	5.52	4,000
1931	5.64	4,080	5.61	4,060
1932	6.37	4,630	-	-
Highest	10.2	7,420	10.3	7,460
Average	6.63	4,800	6.64	4,810
Lowest	4.38	3,180	4.43	3,210

Little Bitterroot River near Marion, Mont.

Location.- Staff gage, lat. 48°05', long. 114°41', in T. 27 N., R. 24 W., at log bridge downstream from outlet of Little Bitterroot Lake, near Marion.
Records available.- January 1910 to September 1916.
Extremes.- Maximum discharge observed, 53 second-feet Apr. 27, 1916 (gage height, 3.05 feet); no flow Jan. 19-23, 1915 (gage height, 0.30 foot).
Remarks.- No diversion. Some water stored in the lake above station gage during spring and summer of 1916.

Monthly discharge of Little Bitterroot River near Marion, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
January 1910	-	-	e4.00	246
February	-	-	e4.00	222
March	-	-	e28.0	1,720
April	36	-	a28.4	1,690
May	43	3.5	22.0	1,350
June	35	16	26.0	1,550
July	31	11	20.0	1,230
August	11	1.2	3.7	228
September	17	1.1	8.3	494
The period	-	-	-	8,730
October 1910	10.2	2.6	6.4	394
November	5.0	2.0	3.3	196
December	4.0	1.6	2.8	172
April 24-30, 1911	8.7	8.7	8.70	121
May	18.0	8.7	15.2	935
June	19	14	16.1	958
July	18	3.7	10.6	652
August	5.0	2.4	3.43	211
September	3.3	2.4	2.60	155
October 1911	2.6	2.6	2.60	160
November	2.6	2.6	2.60	155
December	3.3	2.4	3.14	193
April 1912	8.3	2.7	5.10	303
May	14	8.1	10.8	664
June	11	4.6	6.95	414
July	9.7	4.2	7.21	443
August	6.2	1.0	2.15	132
September	3.0	2.1	2.39	142
October 1912	2.0	1.2	1.56	95.9
November 1-13	1.3	1.1	1.13	29.1
April 13-30, 1913	14.4	3.0	8.41	300
May	25.2	14.4	19.7	1,210
June	25.2	21.5	23.3	1,390
July	21.5	.8	2.82	173
August	1.5	.6	1.14	70
September	2.6	1.2	1.76	105
October 1913	2.6	1.5	1.90	117
November	1.5	1.5	1.50	89
December	1.5	.8	1.18	73
April 1914	10.3	5.0	6.94	413
May	11.9	7.3	10.5	646
June	10.3	5.2	7.43	442
July	8.0	.6	4.54	279
August	.8	.6	.62	38
September	1.2	.8	.85	51
October 1914	3.8	.8	2.81	173
November	1.2	.8	.87	52
December	1.6	1.2	1.32	81
January 1915	1.4	0	.29	18
February	.6	.1	.37	21
March	1.2	.5	.74	46
April	.8	.1	.51	30
May	3.0	.1	1.06	65
June	2.8	.1	1.23	73
July	2.5	.8	1.35	83
August	5.8	.1	1.14	70
September	5.8	3.0	3.83	228
Water year 1914-15	5.8	0	1.30	940

a Partly estimated.
e Estimated.

Monthly discharge of Little Bitterroot River near Marion, Mont.-Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 1915	3.6	.5	2.15	132
November	1.2	.5	.66	39
December	1.2	.5	.63	38
Calendar year 1915	5.8	0	1.16	843
January 1916	4.3	.5	1.52	94
February	18.5	5.0	12.7	730
March	14.2	9.4	11.5	707
April	53	13.3	34.4	2,050
May	50	34	38.7	2,380
June	40	36	38.5	2,290
July	42	1.5	27.2	1,670
August	1.5	.2	.94	58
September	1.8	.2	.75	45
Water year 1915-16	53	.2	14.1	10,200

Little Bitterroot River near Hubbart, Mont.

Location.- Staff gage, lat. 47°53', long. 114°40', upstream from canyon leading to second fall of Little Bitterroot River, 1½ miles west of ranch buildings of Hubbart Cattle Co., near Hubbart post office, 15 miles south of Marion.
Records available.- October 1909 to September 1916. April to October 1909 at site about 1 mile downstream.
Extremes.- Maximum discharge observed, 340 second-feet May 6, 1916 (gage height, 4.0 feet); minimum observed, 1.4 second-feet, Oct. 20-27 and Nov. 10, 1914 (gage height, 0.9 foot).
Remarks.- No diversion. Natural storage in Little Bitterroot Lake 15 miles above station.

Monthly discharge of Little Bitterroot River near Hubbart, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1909				
April 22-30	66	48	57	1,020
May 1-22	122	58	89	3,880
August	40	13	22	1,350
September	13	13	13	774
1909-10				
October	13	13	13	799
November	56	13	24	1,430
January	-	-	e18	1,110
February	-	-	e18	1,000
March	206	-	133	8,180
April	176	76	133	7,910
May	119	52	80	4,920
June	70	32	47	2,800
July	44	18	29	1,780
August	17	10	12	740
September	19	10	13	774
1910-11				
October	19	16	16	984
November	19	16	17	1,010
December	-	-	e16	984
April	72	25	42.8	2,550
May	80	54	65.1	4,000
June	80	32	50.0	2,980
July	51	14	28.3	1,740
August	34	12	17.4	1,070
September	22	8	10.5	625
1911-12				
October	8	6.5	6.72	413
April	77	70	72.4	4,310
May	78	53	70.6	4,340
June	50	16	30.4	1,810
July	18	15	16.3	1,000
August	15	10	12.5	769
September	12	10	11.0	655
1912-13				
October	11	8	10.4	640
November 1-11	17	8	11.9	260
July 23-31	14	12	12.3	220
August	12	10	11.2	689
September	10	8	9.4	559

e Estimated.

Monthly discharge of Little Bitterroot River near Hubbart, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1913-14				
October	12	6	10.5	646
November 1-14	10	6	7.6	211
April	61	23	47.0	2,800
May	-	28	46.6	2,870
June	26	18	22.9	1,360
July	18	8	12.6	775
August	8	2	4.4	271
September	3	2	2.6	155
1914-15				
October	2.4	1.4	1.90	117
November	7.7	1.4	3.13	186
April	64	22	37.0	2,200
May	45	25	33.4	2,050
June	37	13	20.5	1,220
July	16	10	13.2	812
August	14	6.8	9.38	577
September	12	7.1	10.2	607
1915-16				
October	12	8	8.61	529
November 1-13	8.0	6.5	6.82	176
April	260	134	187	11,100
May	340	111	177	10,900
June	144	96	118	7,020
July	92	20	58.4	3,590
August	19	14	16.7	1,030
September	14	12	13.1	780

Little Bitterroot River near Niarada, Mont.

Location.- Staff gage, lat. 47°48', long. 114°39', in T. 24 N., R. 24 W., at Angus McDonald's ranch, 2 miles southwest of Niarada.
Records available.- April 1916 to September 1917. April 1908 to December 1909 published as Little Bitterroot River near Dayton.
Extremes.- Maximum discharge observed, 412 second-feet May 7, 1916 (gage height, 5.30 feet); minimum observed, 3.0 second-feet Aug. 28, 1917 (gage height, 0.60 foot).
Remarks.- Several small diversions for irrigation above station. Natural storage in Little Bitterroot Lake.

Monthly discharge of Little Bitterroot River near Niarada, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1908				
April 18-30	262	101	177	4,550
May	158	97	134	8,240
June	344	82	124	7,380
July	80	46	61.3	3,770
August	44	21	29.5	1,810
September	31	13	19.3	1,150
The period	-	-	-	26,900
1908-9				
October	36	19	23.3	1,430
March 19-31	47	28	39.6	1,020
April	102	42	65.8	3,920
May	258	79	143	8,790
June	190	59	129	7,680
July	72	26	44.1	2,710
August	42	20	26.3	1,620
September	24	18	21.0	1,250
October	21	20	20.4	1,250
November	110	21	37.2	2,210
1916				
April 12-30	384	193	262	9,870
May	412	161	239	14,700
June	224	133	174	10,400
July	130	30	82.8	5,090
August	28	18	23.1	1,420
September	18	15	16.5	982
The period	-	-	-	42,500
1916-17				
October	22	15	17.2	1,060
November	18	15	15.6	925
April	116	30	62.6	3,720
May	325	92	163	10,000
June	129	44	78.9	4,690
July	30	18	19.6	1,200
August	17	3	9.10	558
September	6	4	5.30	315

Crow Creek near Ronan, Mont.

Location.- Staff gage, lat. 47°29', long. 114°05' in SW¼ sec. 13, T. 20 N., R. 20 W., 500 feet upstream from old highway bridge, about a quarter of a mile upstream from present bridge on state road from St. Ignatius to Ronan, and 3 miles south of Ronan.

Records available.- September 1906 to September 1917.

Extremes.- Maximum discharge observed, 1,400 second-feet June 6, 1908 (gage height, 10.85 feet); minimum observed, 3.2 second-feet Sept. 19-21, 1917 (gage height, 0.32 foot).

Remarks.- Water diverted above station by Pablo feeder canal to irrigate about 12,400 acres. No regulation.

Monthly discharge of Crow Creek near Ronan, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1906				
September 21-30	27	22	23.9	474
1906-7				
October	42	22	29.9	1,840
November	156	27	51.5	3,060
December	59	27	34.2	2,100
January	-	-	e25.0	1,540
February	-	-	e20.0	1,110
March	119	25	39.8	2,450
April	61	30	43.7	2,600
May	386	33	148	9,100
June	427	244	306	18,200
July	392	93	196	12,100
August	89	44	62.8	3,860
September	59	33	41.1	2,450
The year	427		83.4	60,400
1907-8				
October	34	24	27.5	1,690
November	24	20	21.2	1,260
December	21	18	20.0	1,230
March	27	18	21.5	1,320
April	150	18	57.0	3,390
May	314	54	179	11,000
June	1,400	151	a536	31,900
July	250	55	109	6,700
August	52	32	37.5	2,310
September	271	22	42.0	2,500
1908-9				
October	59	23	34.0	2,090
November	39	20	24.2	1,440
May	264	28	76.7	4,720
June	426	162	274	16,300
July	232	38	133	8,180
August	38	24	30.9	1,900
September	34	22	25.8	1,540
1909-10				
October	32	18	21.6	1,330
November	158	18	53.4	3,180
January	-	-	e25	1,540
February	-	-	e25	1,390
March	112	28	46.8	2,880
April	228	35	105	6,250
May	300	106	197	12,100
June	170	76	127	7,560
July	56	23	33.4	2,050
August	25	22	22.9	1,410
September	25	14	20.0	1,190
1910-11				
October	37	20	23.9	1,470
November	43	25	31.8	1,890
December	31	17	23.7	1,460
January	-	-	e10.0	615
February	-	-	e10.0	555
March	22	15	16.2	996
April	91	17	33.9	2,020
May	222	63	105	6,460
June	475	130	339	20,200
July	294	68	146	8,980
August	73	31	43.5	2,670
September	46	23	33 5	1,990
The year	475	-	68.1	49,300

a Discharge interpolated June 6-28.
e Estimated.

Monthly discharge of Crow Creek near Ronan, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911-12				
October	46	24	35.0	2,150
November	36	15	22.2	1,320
December	-	-	e15.0	922
March 15-31	26	17	22.4	755
April	57	-	30.6	1,820
May	-	23	130	7,990
June	-	-	227	13,500
July	262	56	117	7,190
August	91	17	49.5	3,040
September	46	12	27.1	1,610
1912-13				
October	23	12	15.4	947
November	-	-	12.0	714
December	-	-	7.0	430
April	94	2.0	36.7	2,180
May	462	47	115	7,070
June	474	264	369	22,000
July	213	14	87.2	5,360
August	62	7.0	39.3	2,420
September	57	7.0	36.0	2,140
1913-14				
October	125	20	39.6	2,430
November	44	28	31.9	1,900
December	26	20	23.1	1,420
January	25	17	19.9	1,220
February	-	-	17.0	944
March	22	14.5	19.3	1,190
April	69	17	35.9	2,140
May	260	57	152	9,350
June	367	59	164	9,760
July	72	24	46.9	2,880
August	39	5	14.9	916
September	18.2	3.3	5.74	342
The year	367	3.3	47.6	34,500
1914-15				
October	159	14	45.6	2,800
November	55	35	47.4	2,820
December 1-12	33	25	27.0	643
March	85	47	60.6	3,730
April	243	57	110	6,550
May	248	97	187	11,500
June	378	151	194	11,500
July	378	62	188	11,600
August	54	28	35.1	2,160
September	164	30	47.6	2,830
1915-16				
October	64	46	52.8	3,250
November	46	41	42.1	2,510
December	41	32	33.9	2,080
March 5-31	170	56	74.2	3,970
April	114	46	57.7	3,430
May	294	76	150	9,220
June	664	138	435	25,900
July	560	18	299	18,400
August	58	5.5	21.0	1,290
September	188	36	78.2	4,650
1916-17				
October	46	9.5	25.6	1,570
November	12	6.5	8.07	480
December 1-11	9.5	7.5	8.61	188
March 25-31	36	36	36.0	500
April	87	41	53	3,150
May	375	100	279	17,200
June	700	375	526	31,300
July	420	28	126	7,750
August	28	5.7	12.5	769
September	7.3	3.2	4.29	255

Crow Creek at Lozeau's ranch, near Ronan, Mont.

Location.- Chain gage, lat. 47°30', long. 114°15', in E½ sec. 15, T. 20 N., R. 21 E., at Louis Lozeau's ranch, about a mile downstream from Mud Creek, 2⅛ miles upstream from mouth, and 8 miles southwest of Ronan.
Records available.- April 1911 to September 1916.
Extremes.- Maximum discharge observed, 960 second-feet June 29, 1911 (gage height, 3.4 feet); minimum observed, 4 second-feet Mar. 21, 1913 (gage height, 0.8 foot).
Remarks.- Several diversions above station for irrigation. No regulation.

Monthly discharge of Crow Creek at Lozeau's ranch, near Ronan, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911				
May	386	100	156	9,590
June	960	124	413	24,600
July	515	61	181	11,100
August	61	33	48.6	2,990
September	78	46	55.7	3,310
1911-12				
October	78	46	63.1	3,880
November	61	23	48.6	2,890
December	61	28	41.8	2,570
January	64	33	44.4	2,730
February	122	33	52.2	3,000
March	75	14	41.2	2,530
April	78	36	52.8	3,140
May	282	46	136	8,360
June	527	200	284	16,900
July	320	97	173	10,600
August	187	36	88.7	5,450
September	97	47	68.6	4,080
The year	527	14	91.1	66,100
1912-13				
October	77	33	55.2	3,390
November	61	50	50.7	3,020
December	54	-	42.1	2,590
March 2-31	534	4	70.8	4,210
April	111	50	66.8	3,980
May	628	50	155	9,530
June	616	155	299	17,800
July	170	78	101	6,210
August	78	37	55.8	3,430
September	65	37	56.5	3,360
1913-14				
October	115	55	62.7	3,860
November	78	55	64.3	3,830
December	55	55	55	3,380
January	53	43	49.1	3,020
February	80	-	44.6	2,480
March	164	43	65.9	4,050
April	99	43	69.5	4,140
May	179	65	120	7,380
June	355	110	207	12,300
July	127	49	85.2	5,240
August	80	35	45.1	2,770
September	99	35	42.1	3,100
The year	355	-	76.8	55,600
1914-15				
October	-	-	105	6,460
November	179	72	101	6,010
December 1-15	80	43	55.5	1,650
March 22-31	110	65	79.5	1,580
April	410	53	153	9,100
May	301	150	209	12,900
June	357	139	206	12,300
July	397	139	187	11,500
August	123	42	72.1	4,430
September	70	50	62.1	3,700
1915-16				
October	116	70	92.5	5,690
November	116	57	67.5	4,020
December	65	50	57.6	3,540
January 1-6	50	48	49.3	587
March	520	40	149	9,160
April	120	63	85.6	5,090
May	282	74	130	7,990
June 1-16	640	120	281	8,920
July 8-31	717	92	385	18,300
August	109	66	79.7	4,900
September	296	86	131	7,800

Mud Creek near Ronan, Mont.

Location.- Staff gage, lat. 47°33', long. 114°08', in T. 21 N., R. 20 W. at Jeffrey's ranch, 3 miles northwest of Ronan.
Records available.- April 1908 to December 1910.
Extremes.- Maximum daily discharge, 39 second-feet June 23, 27-30, 1909 (gage height, 4.5 feet); minimum daily, 1.6 second-feet April 7, 8, 1909 (gage height, 2.25 feet).
Remarks.- Pablo ditch diverts water for irrigation 200 feet below station. No regulation.

Monthly discharge of Mud Creek near Ronan, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1908				
April 17-30	7	5	6.29	175
August	14	8	9.77	601
September	9	2.8	5.30	315
1908-9				
October	8.5	8	8.10	498
November	8	7	7.60	452
December	7.5	6	6.89	260
March	8.3	1.7	4.10	252
April	5.2	1.6	2.85	170
May	6.9	2.5	4.96	305
June	39	1.8	16.5	982
July	33	17	24.7	1,520
August	20	8.3	14.2	873
September	16	6.3	9.56	569
1909-10				
October	6.9	2.9	6.27	386
November	6.3	5.2	5.60	333
December	5.2	3.9	4.37	269
January	-	-	e4.0	246
February	-	-	e5.0	278
March	20	6.8	10.7	658
April	14	6.8	7.56	450
May	20	8.8	12.7	781
June	14	11	12.4	738
July	7.2	3.5	5.12	315
August	4.6	4.0	4.17	256
September	4.1	3.5	3.65	217
Water year 1909-10	20	2.9	6.81	4,930
1910				
October	3.5	3.4	3.46	213
November	4.1	3.4	3.82	227
December	3.8	3.4	3.48	214
Calendar year 1910	20	3.4	6.34	4,590

e Estimated

Mission Creek near St. Ignatius, Mont.

Location.- Staff gage, lat. 47°20', long. 114°07' in SW¼ sec. 10, T. 18 N., R. 20 W., about 1 mile downstream from St. Ignatius.
Records available.- September 1906 to September 1917.
Extremes.- Maximum discharge, 2,000 second-feet (estimated) June 10, 1908; minimum discharge observed, 8 second-feet at times during 1908 and Feb. 28, 1911 (gage height, 0.2 foot).
Remarks.- Several diversions above station for irrigation. Flow regulated by St. Marys Lake.

Monthly discharge of Mission Creek near St. Ignatius, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1906				
September 21-30	65	50	54.4	1,080

Monthly discharge of Mission Creek nsar St. Ignatius, Mont.--Continued

Month	Discharge in second-feet			Run-off in acra-feet
	Maximum	Minimum	Mean	
1906-7				
October	57	45	50.5	3,110
November	69	34	48.1	2,860
December	40	33	36.5	2,240
January	32	10	a16.9	1,040
February	21	13	14.4	800
March	34	16	20.2	1,240
April	54	27	36.7	2,180
May	236	41	103	6,330
June	442	154	a236	14,000
July	550	160	293	18,000
August	160	75	107	6,580
September	87	51	70.9	4,220
The year	550	10	86.5	62,600
1907-8				
October	48	30	38.5	2,370
November	30	14	21.1	1,260
December	14	10	11.8	726
January	10	8	a9.87	607
February	10	8	9.03	519
March	11	8	9.97	613
April	86	10	29.7	1,770
May	236	53	120	7,380
June	2,000	218	a823	49,000
July	440	92	230	14,100
August	92	55	73.5	4,520
September	120	44	58.6	3,490
The year	2,000	8	119	86,400
1908-9				
October	55	44	47.7	2,930
November	44	34	41.3	2,460
December	34	25	29.5	1,810
January	58	22	29.3	1,800
February	22	16	19.0	1,060
March	16	16	16.0	984
April	16	13	15.0	893
May	207	16	49.7	3,060
June	602	151	275	16,400
July	311	127	191	11,700
August	118	58	81.6	5,020
September	73	45	51.8	3,080
The year	602	13	70.7	51,200
1909-10				
October	63	40	47.5	2,920
November	58	30	41.3	2,460
December	30	21	24.4	1,500
January	17	12	14.5	892
February	52	12	22.3	1,240
March	57	13	21.6	1,330
April	112	17	37.3	2,220
May	200	52	98.0	6,030
June	210	69	120	7,140
July	89	32	48.8	3,000
August	36	19	28.0	1,720
September	28	20	22.1	1,320
The year	210	12	43.9	31,800
1910-11				
October	32	26	27.9	1,720
November	36	25	28.6	1,700
December	24	17	19.1	1,170
January	16	10	14.7	904
February	13	8	11.0	611
March	-	-	e14.0	861
April	29	10	16.3	970
May	82	29	47.0	2,890
June	380	70	234	13,900
July	243	104	171	10,500
August	100	58	77.6	4,770
September	66	48	52.6	3,130
The year	380	8	59.6	43,100

a Partly estimated.
e Estimated.

Monthly discharge of Mission Creek near St. Ignatius, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911-12				
October	61	36	45	2,770
November	36	27	30.5	1,810
February	13	12	12.4	713
March	14	11	12.0	738
April	38	16	23.8	1,420
May	202	20	96.3	5,920
June	343	70	223	12,400
July	175	157	165	3,600
August	166	63	109	6,700
September	106	51	61.5	3,660
1912-13				
October	51	40	46.7	2,870
November	36	27	31.3	1,860
December	27	20	23.2	1,430
January	18	14	16.3	1,000
February	18	14	16.0	889
March	14	14	14.0	861
April	40	14	26.5	1,580
May	265	26	91.6	5,630
June	370	201	262	15,600
July	335	102	160	9,840
August	102	61	82.1	5,050
September	54	29	38.8	2,310
The year	370	14	67.6	48,900
1913-14				
October	38	29	30.3	1,860
November	29	22	25.8	1,540
December	22	10	15.8	972
January	16	11	15.7	965
February	16	11	12.7	705
March	14	11	11.9	732
April	22	11	15.4	916
May	201	26	91.4	5,620
June	358	132	209	12,400
July	226	68	137	8,420
August	61	29	37.8	2,320
September	38	16	33.2	1,980
The year	358	10	53.2	39,400
1914-15				
October	76	38	52.0	3,200
November	61	29	36.8	2,190
December	29	22	26.4	1,620
March 16-31	16	16	16.0	508
April	111	19	55.8	3,320
May	178	61	120	7,380
June	385	201	246	14,600
July	358	226	295	18,100
August	213	132	167	10,300
September	111	38	61.1	3,640
1915-16				
October	61	29	54.2	3,330
November	48	38	40.5	2,410
December	38	29	33.2	2,040
January	29	16	23.2	1,430
February	22	16	16.7	961
March	24	14	17.1	1,050
April	59	20	36.4	2,170
May	108	53	70.9	4,360
June	590	78	228	13,600
July	400	221	332	20,400
August	284	68	121	7,440
September	135	62	80.8	4,810
The year	590	14	88.1	64,000

Monthly discharge of Mission Creek near St. Ignatius, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1916-17				
October	50	35	38.2	2,350
November	35	27	29.2	1,740
December	27	16	22.8	1,400
January	16	16	16.0	984
February	16	12	13.7	761
March	12	12	12.0	738
April	31	11	21.9	1,300
May	245	21	85.2	5,240
June	426	98	253	15,100
July	265	105	206	12,700
August	100	65	80.7	4,960
September	84	65	77.1	4,590
The year	426	11	71.6	51,900

Yearly discharge of Mission Creek near St. Ignatius, Mont.

Year	Year ending September 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1907	86.5	62,600	81.1	58,700
1908	119	86,400	123	89,200
1909	70.7	51,200	70.3	50,900
1910	43.9	31,800	40.7	29,500
1911	59.6	43,100	-	-
1913	67.6	48,900	65.1	47,100
1914	53.2	39,400	56.7	41,100
1916	88.1	64,000	85.0	61,700
1917	71.6	51,900	-	-

Dry Creek near St. Ignatius, Mont.

Location.- Staff gage, lat. 47°17', long. 114°00', in T. 18 N., R. 19 W., at Felsman's ranch, 1½ miles downstream from St. Marys Lake, above the only tributary, and 5 miles southeast of St. Ignatius.
Records available.- April 1908 to September 1916.
Extremes.- Maximum discharge, 250 second-feet (estimated) June 6-7, 1908; no flow at times.
Remarks.- One small diversion above gage. Flow regulated by St. Marys Lake.

Monthly discharge of Dry Creek near St. Ignatius, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1908				
April 16-30	21	7	12.2	363
May	48	10	27.3	1,680
June	250	48	119	7,080
July	92	28	54.7	3,360
August	28	3	11.5	707
September	17	1	6.93	412
The period	-	-	-	13,600
1908-9				
October	7	3	5.16	317
November	5	0	3.13	186
May 9-31	44	0	10.8	492
June	144	32	75.0	4,460
July	95	29	49.4	3,040
August	29	2.2	8.97	552
September	4.2	1.0	2.35	140

Monthly discharge of Dry Creek near St. Ignatius, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1909-10				
October	7.0	0	3.54	218
November	7.0	0	.99	58.9
December	-	-	-	-
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	22	0	3.7	220
May	48	7	28.7	1,760
June	48	19	27.2	1,620
July	25	1	10.1	621
August	-	-	0	-
September	-	-	0	-
1910-11				
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	11	0	a4.0	246
June	150	4	77.2	4,590
July	78	20	41.0	2,520
August	20	0	4.9	301
September	-	-	0	0
The year	150	0	10.6	7,660
1911-12				
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	11	1	a4.3	256
May	40	2	23.6	1,450
June	78	34	56.9	3,390
July	78	26	42.3	2,600
August	33	5	16.2	996
September	7	1	4.4	262
The year	78	0	12.3	8,950
1912-13				
October	1	0	.13	8
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	6	0	a3.72	221
May	67	0	15.3	941
June	72	39	53.2	3,170
July	57	16	30.7	1,890
August	19	10	13.8	848
September	10	5	3.7	220
The year	72	0	10.1	7,290
1913-14				
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	10	0	2.39	142
May	202	4	33.7	2,070
June	150	25	66.0	3,930
July	101	14	39.6	2,430
August	14	7	9.48	583
September	7	3	4.93	293
The year	202	0	13.1	9,450

a Partly estimated.

Monthly discharge of Dry Creek near St. Ignatius, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1914-15				
October	38	3.0	15.6	959
November	10	6.0	7.87	468
December 1-12	6	2.0	4.17	99.3
March 20-31	6	.5	3.66	87.1
April	44	4.0	20.3	1,210
May	49	16	36.9	2,270
June	113	34	62.8	3,740
July	86	47	66.1	4,060
August	54	16	25.8	1,590
September	20	14	16.1	958
1915-16				
October	17	4.0	10.2	627
November 1-13	6.0	5.0	5.77	149
April	24	4.0	9.87	587
May	33	17	23.8	1,460
June	220	20	72.6	4,320
July	111	6.5	61.5	3,780
August	9.3	6.8	7.84	482
September	21	6.5	11.2	666

Post Creek at Fitzpatrick's ranch, near Ronan, Mont.

Location.- Staff gage, lat. 47°28', long. 114°01', in T. 20 N., R. 19 W., near the house of J. G. Fitzpatrick, 8 miles southeast of Ronan, 10 miles north of St. Ignatius, and 2 miles upstream from North Fork of Post Creek.
Records available.- September 1906 to May 1911.
Extremes.- Maximum discharge, 2,800 second-feet June 10, 1908 (gage height, 8.48 feet, estimated from high-water mark); minimum daily discharge, 20 second-feet Jan. 17-30, 1908 (ice present).
Remarks.- Two small diversions above gage.

Monthly discharge of Post Creek at Fitzpatrick's ranch, near Ronan, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
September 21-30, 1906	59	54	57.0	1,130
October 1906	64	50	55.5	3,410
November	88	54	65.5	3,900
December	54	50	50.3	3,090
January 1907	-	-	e40.0	2,460
February	-	-	e40.0	2,220
March	39	35	37.2	2,290
April	56	39	45.4	2,700
May	290	39	106	6,520
June	412	153	261	15,500
July	410	196	259	15,900
August	196	58	116	7,130
September	99	38	55.7	3,310
Water year 1906-7	412	-	94.5	68,400
October 1907	38	31	33.7	2,070
November	31	25	28.6	1,700
December	28	25	26.8	1,650
Calendar year 1907	412	25	87.6	63,400
January 1908	25	20	22.6	1,390
February	30	22	25.1	1,440
March	35	27	30.7	1,890
April	103	29	53.7	3,200
May	178	72	123	7,560
June	2,800	191	1,030	61,300
July	346	144	253	15,600
August	136	51	79.5	4,890
September	136	41	67.2	4,000
Water year 1907-8	2,800	20	147	107,000

e Estimated.

Monthly discharge of Post Creek at Fitzpatrick's ranch, near Ronan, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 1908	51	32	35.3	2,170
November	36	36	36.0	2,140
December	36	24	32.5	2,000
Calendar year 1908	2,800	20	148	108,000
January 1909	32	24	26.5	1,630
February	24	24	24	1,330
March	57	24	29.1	1,790
April	32	24	28.1	1,670
May	213	32	66.3	4,080
June	1,020	136	304	18,100
July	331	78	210	12,900
August	78	78	78	4,800
September	78	55	62.2	3,700
Water year 1908-9	1,020	24	77.8	56,300
October 1909	63	50	52.5	3,230
November	70	50	55.7	3,310
December	51	32	43.9	2,700
Calendar year 1909	1,020	24	81.8	59,200
January 1910	35	26	28.8	1,770
February	35	24	31.2	1,730
March	54	27	37.2	2,290
April	127	27	59.3	3,530
May	260	86	165	10,100
June	356	116	172	10,200
July	140	56	93.8	5,770
August	62	45	55.2	3,390
September	45	27	35.9	2,140
Water year 1909-10	356	24	69.3	50,200
October 1910	50	31	38.5	2,370
November	96	35	52.5	3,120
December	40	27	31.9	1,960
Calendar year 1910	356	24	66.8	48,400
January 1911	24	16	20.0	1,230
February	20	20	20.0	1,110
March	37	20	26.4	1,620
April	54	28	36.8	2,190
May 1-9	105	54	71.1	1,270
The period Oct. 1 to May 9	-	-	-	14,900

Post Creek at Deschamp's ranch, near Ronan, Mont.

Location.- Staff gage, lat. 47°28', long. 114°02', in T. 20 N., R. 19 W., at Deschamp's ranch, just upstream from North Fork of Post Creek, 7 miles southeast of Ronan, and 10 miles north of St. Ignatius.
Records available.- April to November 1911.
Extremes.- Maximum daily discharge, 546 second-feet June 25 (gage height, 2.95 feet); minimum daily, 16 second-feet Apr. 20 (gage height, 0.6 foot).
Remarks.- Several small diversions above gage.

Monthly discharge of Post Creek at Deschamp's ranch, near Ronan, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911				
April 20-30	55	16	42.5	927
May	131	44	69.3	4,260
June	546	97	329	19,600
July	294	128	184	11,300
August	128	52	87.5	5,380
September	60	32	40.0	2,380
October	44	32	35.5	2,180
November 1-11	32	32	32.0	698
The period	-	-	-	44,300

Post Creek near St. Ignatius, Mont.

Location.- Chain gage, lat. 47°24', long. 114°05', on line between SW¼ sec. 24 and SE¼ sec. 23, T. 19 N., R. 20 W., on highway bridge on stage road between St. Ignatius and Ronan, 1 mile downstream from North Fork of Post Creek and 5 miles north of St. Ignatius.
Records available.- September 1911 to September 1917.
Extremes.- Maximum discharge observed, 680 second-feet June 29, 1916 (gage height, 5.20 feet); minimum observed, 20 second-feet Sept. 3, 1914 (gage height, 2.0 feet).
Remarks.- Several diversions above station. Natural storage in McDonald Lake.

Monthly discharge of Post Creek near St. Ignatius, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
September 19-30, 1911	81	64	67.7	1,610
October	112	59	72.3	4,450
November	59	49	53.1	3,160
December	54	43	48.4	2,980
April 1912	60	42	49.4	2,940
May	242	48	111	6,820
June	414	158	289	17,200
July	345	102	196	12,100
August	225	58	101	6,210
September	142	66	95.2	5,660
November 1912	66	54	60.6	3,610
December	58	51	52.9	3,250
January 1913	52	43	45.8	2,820
February	-	37	45.9	2,550
March	56	38	43.7	2,690
April	73	43	58.5	3,480
May	377	56	120	7,380
June	404	225	335	19,900
July	324	142	192	11,800
August	160	-	116	7,130
September	46	31	33.3	1,980
The period	-	-	-	66,600
October 1913	49	31	40.6	2,500
November	56	46	49.3	2,930
December	46	43	43.8	2,690
Calendar year 1913	404	31	93.7	67,800
January 1914	59	40	43.1	2,650
February	110	32	42.2	2,340
March	62	25	41.3	2,540
April	48	25	32.8	1,950
May	311	28	125	7,690
June	431	125	244	14,500
July	248	62	180	11,100
August	57	22	32.2	1,980
September	44	20	25.7	1,530
Water year 1913-14	431	20	75.1	54,400
October 1914	93	22	32.5	2,000
November	86	44	71.0	4,220
December 1-15	66	40	53.1	1,580
April 1915	142	51	89.5	5,330
May	431	89	189	11,600
June	377	170	228	13,600
July	286	180	223	13,700
August	170	95	132	8,120
September	134	72	85.1	5,060
October 1915	95	32	43.3	2,660
November	63	55	61.7	3,670
December	63	55	55.4	3,410
January 1916	55	47	a47.5	2,920
February	151	39	55.6	3,200
March	109	39	62.8	3,860
April	95	63	71.0	4,220
May	127	64	96.7	5,950
June	680	117	328	19,500
July	590	206	378	23,200
August	206	104	152	9,350
September	206	77	116	6,900
Water year 1915-16	680	32	122	88,800

a Partly estimated.

Monthly discharge of Post Creek near St. Ignatius, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 1916	77	30	50.5	3,100
November	34	24	25.6	1,770
December	34	24	a26.7	1,640
Calendar year 1916	680	24	118	85,610
January 1917	38	30	32.6	2,000
February	38	23	30.7	1,700
March	65	23	30.7	1,880
April	74	30	39.5	2,350
May	200	23	79.3	4,860
June	466	84	275	16,300
July	377	30	160.5	9,850
August	38	23	29.3	1,800
September	55	23	30	1,780
Water year 1916-17	466	23	67.7	49,000

a Partly estimated.

South Fork of Jocko River near Jocko, Mont.

Location.- Staff gage, lat. 47°12', long. 113°51', in NE¼ sec. 35, T. 17 N., R. 18 W., 300 feet downstream from confluence with Middle Fork and 10 miles northeast of Jocko.
Records available.- May 1912 to September 1915.
Extremes.- Maximum discharge observed, 1,080 second-feet May 31, 1913 (gage height, 4.15 feet); minimum observed, 29 second-feet Dec. 7, 1912 (gage height, 1.93 feet).
Remarks.- No diversion or regulation.

Monthly discharge of South Fork of Jocko River near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1912				
May 11-31	668	320	501	20,900
June	685	277	529	31,500
July	269	138	182	11,200
August	137	115	126	7,750
September	112	54	80.0	4,760
The period	-	-	-	76,100
1912-13				
October	54	43	47.5	2,920
November	62	37	52.0	3,090
December	37	28	33.2	2,040
May	782	117	328	20,200
June	760	254	506	30,100
July	246	129	167	10,300
August	137	94	121	7,440
September	91	53	65.1	3,870
1913-14				
October	78	40	56.3	3,460
November 1-15	39	30	34.3	1,020
April	127	34	67.9	4,040
May	405	120	285	17,500
June	360	168	265	15,800
July	166	72	120	7,380
August	70	47	56.0	3,440
September	58	40	48.7	2,900
1914-15				
October	164	52	116	7,130
November	98	-	50.1	2,980
April	176	55	125	7,440
May	251	137	198	12,200
June	251	172	214	12,700
July	167	106	138	8,480
August	105	65	84.1	5,170
September	78	53	64.3	3,830

Jocko River near Jocko, Mont.

Location.- Staff gage, lat. 47°10', long. 113°59', in sec. 10, T. 16 N., R. 19 W., 500 feet upstream from headworks of Jocko K Canal, 800 feet upstream from Big Knife Creek, and 2 miles northeast of Jocko.
Records available.- April 1918 to September 1919. August 1908 to September 1916 at site 2 miles downstream (gage heights and discharge measurements only prior to April 1909)
Extremes.- Maximum discharge, 6,200 second-feet June 6, 1908 (gage height, 12.25 feet, site and datum then in use, from high-water mark), float measurement; minimum observed, 48 second-feet Mar. 7, 1919 (gage height, 3.04 feet).
Remarks.- No diversion or regulation above present site. Jocko K Canal diverts between the two sites.

Monthly discharge of Jocko River near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April 13-30, 1909	111	65	86.7	3,100
May	957	116	369	22,700
June	1,480	497	946	56,300
July	551	254	355	21,800
August	249	153	194	11,900
September	165	128	140	8,330
The period	-	-	-	124,100
October 1909	134	105	117	7,190
November	191	84	123	7,320
January 1910	-	-	e85	5,230
February	-	-	e85	4,720
March	154	85	110	6,760
April	713	111	327	19,500
May	880	403	551	33,900
June	630	103	311	18,500
July	100	24	55.3	3,400
August	57	21	32.3	1,990
September	78	51	58.8	3,500
October 1910	138	52	67.8	4,130
November	146	85	104	6,190
December	-	-	e75	4,610
Calendar year 1910	880	21	155	112,000
January 1911	-	-	e70	4,300
February	-	-	e65	3,610
March	-	-	e80	4,920
April	380	80	176	10,500
May	856	280	408	25,100
June	935	550	724	43,100
July	519	103	243	14,900
August	134	98	118	7,260
September	126	96	109	6,490
Water year 1910-11	935	-	187	135,000
October 1911	118	89	107	6,580
November	106	80	96	5,710
December	-	-	e75	4,610
Calendar year 1911	935	-	189	137,000
January 1912	-	-	e70	4,300
February	-	-	e60	3,450
March	-	-	e65	4,000
April	335	86	244	14,500
May	1,000	265	700	43,000
June	1,000	550	808	48,100
July	550	147	301	18,500
August	172	148	162	9,960
September	172	134	157	9,340
Water year 1911-12	1,000	-	237	172,000
October 1912	152	120	135	8,300
November	143	102	120	7,140
December	101	77	89.6	5,510
Calendar year 1912	1,000	-	243	176,000
April 22-30, 1913	355	265	289	5,160
May	1,580	184	619	38,100
June	1,580	542	1,040	61,900
July	515	155	297	18,300
August	208	152	185	11,400
September	173	123	137	8,150
October 1913	162	125	137	8,420
November	152	108	137	8,150
December 1-12	-	-	83.9	2,000
April 1914	355	78	241	14,300
May	762	323	608	37,400
June	935	298	493	29,300
July	282	53	134	8,240
August	113	53	89.7	5,520
September	104	81	87.7	5,220

e Estimated.

Monthly discharge of Jocko River near Jocko, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 1914	-	95	189	11,600
March 26-31, 1915	131	119	125	1,490
April	550	134	317	18,900
May	570	347	485	29,800
June	625	368	499	29,700
July	380	223	308	18,900
August	211	142	154	9,470
September	173	122	160	9,520
October 1915	156	106	140	8,610
November 1-5	122	122	122	1,210
March 15-31, 1916	208	144	189	4,370
April	585	207	309	18,400
May	712	405	514	31,600
June	1,630	518	1,080	64,300
July	1,500	285	760	46,700
August	306	178	248	15,200
September	266	128	169	10,100
April 11-30, 1918	885	370	536	21,300
May	1,130	455	845	52,000
June	2,720	425	1,370	81,500
July	374	192	264	16,200
August	209	130	168	10,300
September	128	101	111	6,600
The period	-	-	-	188,000
October 1918	107	93	99.9	6,140
December	73	51	64.6	3,970
January 1919	60	51	56.0	3,440
February	58	51	54.0	3,000
March	83	48	55.9	3,440
April	560	90	199	11,800
May	1,080	245	467	28,700
June	455	181	308	18,300
July	209	112	149	9,160
August	116	79	95.0	5,840
September	78	64	71.2	4,240

Jocko River at Ravalli, Mont.

Location.- Chain gage, lat. 47°17', long. 114°11', in sec. 32, T. 18 N., R. 20 W., 400 feet downstream from railroad station at Ravalli.
Records available.- October 1906 to April 1911.
Extremes.- Maximum discharge, 7,500 second-feet (estimated) June 10, 1908 (gage height, 7.63 feet, from high-water mark); minimum discharge observed, 92 second-feet Feb. 21 to Mar. 11, 1908 (gage height, 1.3 feet).
Remarks.- Several diversions above station for irrigation.

Monthly discharge of Jocko River at Ravalli, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 18-31, 1906	262	152	179	4,970
November	493	162	224	13,300
December	208	173	188	11,600
January 1907	184	152	166	10,200
February	324	173	200	11,100
March	324	196	246	15,100
April	472	234	344	20,500
May	1,500	308	842	51,800
June	1,860	815	1,190	70,800
July	1,180	358	585	36,000
August	376	262	312	19,200
September	277	234	245	14,600
The period	-	-	-	279,200
October 1907	234	184	208	12,800
November	184	162	177	10,500
December	162	142	157	9,650
Calendar year 1907	1,860	142	390	282,000
January 1908	142	108	125	7,690
February	514	92	131	7,540
March	142	92	114	7,010
April	605	124	238	14,200
May	760	324	550	33,800
June	7,500	731	2,410	143,000
July	693	329	479	29,500
August	329	286	302	18,600
September	428	228	286	17,000

Monthly discharge of Jocko River at Ravalli, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 1908	247	210	220	13,500
November	210	193	200	11,900
December	193	160	172	10,600
Calendar year 1908	7,500	92	433	314,000
January 1909	-	-	e150	9,220
February	-	-	e150	8,330
March	202	164	181	11,100
April	202	182	187	11,100
May	1,240	182	486	29,900
June	1,540	345	914	54,400
July	620	264	406	25,000
August	315	224	255	15,700
September	207	192	195	11,600
Water year 1908-9	1,540	-	293	212,000
October 1909	192	179	183	11,300
November	224	168	185	11,000
December	179	179	a179	11,000
Calendar year 1909	1,540	-	290	210,000
January 1910	-	-	e170	10,500
February	-	-	e170	9,440
March	-	-	e200	12,300
April	1,120	235	602	35,800
May	1,590	705	942	57,900
June	705	205	392	23,300
July	180	110	138	8,480
August	180	110	125	7,690
September	180	155	167	9,940
Water year 1909-10	1,590	110	288	209,000
October 1910	250	167	180	11,100
November	220	167	191	11,400
December	167	120	148	9,100
Calendar year 1910	1,590	110	286	207,000
January 1911	140	100	114	7,010
February	138	98	110	6,110
March	175	98	131	8,060
April 1-8	200	175	191	3,030
The period	-	-	-	55,800

a Partly estimated.
e Estimated.

Middle Fork of Jocko River near Jocko, Mont.

Location.- Staff gage, lat. 47°11', long. 113°50', near north line of sec. 35, T. 17 N., R. 18 W., 300 feet upstream from confluence with South Fork and 10 miles northeast of Jocko.
Records available.- May 1912 to September 1915.
Extremes.- Maximum discharge observed, 134 second-feet June 1, 1912 (gage height, 1.4 feet); minimum observed, 8 second-feet Dec. 13, 1913 (gage height, 0.45 foot).
Remarks.- No diversion or regulation.

Monthly discharge of Middle Fork of Jocko River near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1912				
May	133	31	81.5	5,010
June	134	68	92.1	5,480
July	67	50	58.3	3,580
August	50	32	38.7	2,380
September	32	25	29.0	1,730
The period	-	-	-	18,200

Monthly discharge of Middle Fork of Jocko River near Jocko, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1912-13				
October	25	19	21.6	1,330
November	20	16	18.6	1,110
December	16	15	15.1	928
April 26-30	24	23	23.6	234
May	114	22	63.1	3,880
June	111	65	81.0	4,820
July	64	41	51.5	3,170
August	40	24	33.2	2,040
September	24	19	21.2	1,260
1913-14				
October	22	13	16.9	1,040
November	13	10	11.4	678
December 1-13	9	8	8.7	224
April	29	13	19.7	1,170
May	71	28	52.0	3,200
June	58	36	43.9	2,610
July	35	28	30.8	1,890
August	28	20	23.8	1,460
September	20	17	18.4	1,090
1914-15				
October	47	18	32.7	2,010
November	25	10	14.9	887
December 1-12	10	9	9.7	231
April	47	18	32.8	1,950
May	45	31	37.3	2,290
June	39	35	36.5	2,170
July	38	30	34.1	2,100
August	30	20	23.6	1,450
September	24	18	21.6	1,290

North Fork of Jocko River near Jocko, Mont.

Location.- Staff gage, lat. 47°12', long. 113°50', in NW¼ sec. 23, T. 17 N., R. 18 W., three-quarters of a mile upstream from Falls Creek, and 11 miles northeast of Jocko.
Records available.- May 1912 to September 1915.
Extremes.- Maximum discharge observed, 492 second-feet May 31, 1913 (gage height, 3.4 feet); minimum observed, 6 second-feet Dec. 13, 1913 (gage height, 0.55 foot).
Remarks.- No diversion or regulation.

Monthly discharge of North Fork of Jocko River near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1912				
May	303	56	201	12,400
June	322	145	236	14,000
July	140	37	75.2	4,620
August	36	22	29.5	1,810
September	35	21	25.3	1,510
The period	-	-	-	34,300
1912-13				
October	27	23	24.4	1,500
November	35	24	28.8	1,710
December	23	13	12.5	953
April 26-30	50	24	37	367
May	492	57	231	14,200
June	466	145	305	18,100
July	135	34	60.3	3,710
August	33	20	27.8	1,710
September	20	11	13.9	827
1913-14				
October	15	12	13.0	779
November	12	7	9.30	553
December 1-13	7	6	6.69	172
April	92	21	47.8	2,840
May	383	87	252	15,500
June	295	85	162	9,640
July	83	20	54.6	3,360
August	19	9.5	13.8	848
September	26	8.0	13.3	785

Monthly discharge of North Fork of Jocko River near Jocko, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1914-15				
October	106	16	61.5	3,780
November	60	17	29.1	1,730
December 1-12	17	15	15.8	376
March 26-31	31	31	31.0	369
April	198	31	114	6,780
May	187	92	159	9,780
June	177	96	123	7,320
July	96	40	71.0	4,370
August	39	18	24.5	1,510
September	31	20	25.8	1,540

Falls Creek near Jocko, Mont.

Location.- Staff gage, lat. 47°13', long. 113°51', in NE¼ sec. 22, T. 17 N., R. 18 W., a quarter of a mile upstream from mouth and 10 miles northeast of Jocko.
Records available.- May 1912 to September 1915.
Extremes.- Maximum discharge observed, 89 second-feet May 31 and June 1, 1912 (gage height, 1.5 feet); minimum observed, 1.0 second-foot Dec. 6, 1913 (gage height, 0.0 foot).
Remarks.- No diversion or regulation.

Monthly discharge of Falls Creek near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1912				
May 11-31	89	38	68.0	2,830
June	89	20	54.3	3,230
July	20	8.0	14.6	898
August	8.0	7.0	7.29	448
September	7.0	7.0	7.00	417
The period	-	-	-	7,820
1912-13				
October	7.0	4.5	5.46	336
May	102	8.6	34.1	2,100
June	96	27	49.0	2,920
July	36	6.1	13.2	812
August	6.4	4.4	5.35	329
September	4.3	2.5	3.11	185
1913-14				
October	4.2	2.8	3.13	192
November	2.8	1.0	2.02	120
December 1-6	-	-	1.00	11.9
April	10.2	2.6	5.68	338
May	83	9.9	49.0	3,010
June	57	19	31.7	1,890
July	18	5.6	11.4	701
August	5.5	2.4	3.87	238
September	11.5	2.1	4.50	268
1914-15				
October	31	4.8	16.0	984
November	9.8	3.8	6.19	368
December 1-12	3.8	1.5	2.99	71.2
March 26-31	4.9	3.9	4.40	52.4
April	58	3.8	29.5	1,760
May	60	18	46.8	2,880
June	58	25	41.9	2,490
July	29	13	21.4	1,320
August	14	3.4	6.79	418
September	16	4.0	10.8	643

Big Knife Creek near Jocko, Mont.

Location.- Staff gage, lat. 47°09', long. 113°57', in NW¼ sec. 14, T. 16 N., R. 19 W., 200 feet upstream from headgate of Big Knife Canal and 2½ miles northeast of Jocko.
Records available.- August 1910 to September 1916. August 1908 to August 1910 at site 1 mile downstream.
Extremes.- Maximum discharge observed, 78 second-feet June 30, 1916 (gage height, 3.65 feet); minimum observed, 4.3 second-feet Apr. 17, 1911 (gage height, 1.83 feet).
Remarks.- Discharge in August and September 1910 affected by operation of canal.

Monthly discharge of Big Knife Creek near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1909				
April 13-30	7.8	6.8	7.08	253
May	22	7.7	12.0	738
June	52	28	37.4	2,230
July	43	22	27.9	1,720
August	22	15.4	18.0	1,110
September	17.6	13.0	14.4	857
The period	-	-	-	6,910
1909-10				
October	13.5	10.5	11.7	719
November	11.2	9.7	10.3	613
January	-	-	e7.8	480
February	-	-	e7.5	416
March	8.9	7.5	7.8	481
April	22	7.5	12.3	732
May	32	13	19.1	1,170
June	22	13	17.1	1,020
July	15	12	13.0	799
August	12	3.7	9.38	577
September	3.3	.9	1.31	78
1910-11				
October	7.3	6.2	6.58	405
November	6.6	5.5	5.99	356
December	-	-	5.00	307
January	-	-	5.00	307
February	-	-	4.00	222
March	-	-	4.70	289
April	6.6	4.3	4.70	280
May	18	5.6	8.98	552
June	40	21	32.0	1,900
July	30	16	20.6	1,270
August	16	12	13.4	824
September	12	9.4	10.7	637
The year	40	-	10.2	7,350
1911-12				
October	10	8.2	8.88	546
November	8.0	-	7.15	425
December	-	-	6.00	369
May 10-31	40	8.0	22.4	977
June	50	30	37.5	2,230
July	40	19	26.5	1,630
August	19	13	15.6	959
September	13	9.5	10.7	637
1912-13				
October	9.4	7.8	8.45	520
April 22-30	7.4	6.5	6.90	124
May	38	6.5	15.1	928
June	40	28	34.2	2,040
July	28	16	20.2	1,240
August	16	14	14.8	910
September	14	10	11.8	702
1913-14				
October	12	9.4	10.2	627
November	9.4	7.3	8.40	500
December 1-12	7.1	5.8	6.38	152
April	5.9	4.6	5.46	325
May	26	6.0	16.1	990
June	33	21	26.7	1,590
July	23	14.2	17.6	1,080
August	14.1	10.2	11.8	726
September	12.2	9.5	10.5	625
1914-15				
October	14.8	-	10.5	646
May 24-31	34	30	31.2	495
June	34	27	31.0	1,840
July	28	20	24.7	1,520
August	20	13	16.5	1,010
September	14	11	12.5	744

e Estimated.

Monthly discharge of Big Knife Creek near Jocko, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1915-16				
October	14	8.4	10.4	640
November	8.2	-	7.61	453
December	-	-	7.05	433
April 14-30	13	8.9	9.95	336
May	25	12	17.1	1,050
June	78	20	47.0	2,800
July	74	23	49.5	3,040
August	37	20	27.6	1,700
September	21	14	17.8	1,060

Agency Creek near Jocko, Mont.

Location.- Staff gage, lat. 47°08', long. 113°57', in T. 16 N., R. 19 W., just upstream from intake of Matt ditch, 2 miles east of Jocko.
Records available.- August 1908 to September 1916 (gage heights only prior to April 1909).
Extremes.- Maximum discharge observed, 228 second-feet June 20, 1916 (gage height, 3.30 feet); minimum observed, 2.0 second-feet Dec. 12, 1913 (gage height, 1.38 feet).
Remarks.- No diversion or regulation.

Monthly discharge of Agency Creek near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April 16-30, 1909	10.6	4.4	6.43	191
May	69	10.3	22.9	1,410
June	104	49	69.8	4,150
July	70	15.3	34.0	2,090
August	24	8.6	12.1	744
September	10.3	7.6	8.51	506
The period	-	-	-	9,090
October 1909	8.0	e 6	6.58	405
November	6.8	5.1	5.95	354
January 1910	-	-	e6	369
February	-	-	e6	333
March	-	-	e6.5	400
April	50	5	17.6	1,050
May	60	23	38.0	2,340
June	41	13	23.3	1,390
July	13	6.6	9.12	561
August	6.5	5.1	5.61	345
September	6.7	4.5	5.24	312
October 1910	5.5	4.2	4.83	297
November	7.8	4.6	5.43	325
December	-	-	5.00	307
Calendar year 1910	60	-	11.1	8,030
January 1911	-	-	5.30	326
February	-	-	4.00	222
March	-	-	3.60	221
April	12	3.1	5.16	307
May	31	9.2	17.8	1,090
June	68	34	45.7	2,720
July	33	11	18.5	1,140
August	11	6.6	8.49	522
September	9.6	6.4	8.03	478
Water year 1910-11	68	-	11.0	7,960
October 1911	9.0	6.3	7.79	479
November	6.0	4.0	4.73	281
December	-	-	4.00	246
Calendar year 1911	68	-	11.1	8,030
April 1912	10	4.0	7.19	428
May	44	7.8	28.4	1,750
June	58	28	44.8	2,670
July	49	14	27.0	1,660
August	14	9.2	11.6	713
September	11	7.7	9.56	569

e Estimated.

Monthly discharge of Agency Creek near Jocko, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 1912	7.6	6.5	6.97	429
April 22-30, 1913	6.7	6.5	6.38	114
May	80	4.8	28.8	1,770
June	70	37.2	47.2	2,810
July	37.2	11.4	20.8	1,280
August	11.6	6.7	9.65	593
September	6.5	4.0	5.03	299
October 1913	7.2	4.6	5.66	348
November	6.4	2.2	3.99	237
April 1914	8.9	2.8	5.90	351
May	70	9.0	42.8	2,630
June	55	29	39.2	2,330
July	28	9.6	17.8	1,090
August	9.4	5.5	7.36	453
September	7.2	4.8	5.70	339
October 1-20, 1914	10.6	5.6	8.37	332
June	50	30	37.2	2,210
July	46	17.5	29.7	1,830
August	18.2	7.0	11.8	726
September	31.0	7.3	10.6	631
October 1915	46	7.0	13.4	842
November 1-5	7.0	6.4	6.70	66
April 14-30, 1916	16	6.0	8.59	290
May	49	11	19.9	1,220
June	228	21	94.6	5,630
July	110	22	58.5	3,600
August	20	8.6	12.0	738
September	9.0	5.8	8.08	481

Blodgett Creek near Jocko, Mont.

Location.- Staff gage, lat. 47°09', long. 113°58', in T. 16 N., R. 19 W., 1½ miles northeast of Jocko.
Records available.- May to December 1909.
Extremes.- Maximum discharge observed, 3.4 second-feet June 3 (gage height, 1.00 foot); minimum observed, 0.4 second-foot at times in November and December (gage height, 0.50 foot).

Monthly discharge of Blodgett Creek near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1909				
May 22-31	2.2	1.1	1.67	33.1
June	3.4	2.0	2.61	155
July	2.2	1.3	1.72	106
August	1.3	.8	1.03	63.3
September	1.0	.6	.69	41.1
October	.7	.5	.55	33.8
November	.5	.4	.44	26.2
The period	-	-	-	458

Finley Creek near Jocko, Mont.

Location.- Staff gage, lat. 47°06', long. 114°03', in sec. 31, T. 16 N., R. 19 W., at ford about 100 feet upstream from highway bridge, an eighth of a mile downstream from confluence of East and West Forks, 4 miles southwest of Jocko, and 5 miles southeast of Arlee.
Records available.- August 1908 to September 1915 (gage heights only prior to April 1909).
Extremes.- Maximum discharge observed, 269 second-feet June 3, 1909 (gage height, 2.3 feet); minimum observed, 4.5 second-feet Dec. 12, 1913 (gage height, 0.95 foot).
Remarks.- Several diversions for irrigation. No regulation.

Monthly discharge of Finley Creek near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April 15-30, 1909	56	19.4	32.5	1,030
May	185	34	70.5	4,330
June	269	68	147	8,750
July	62	19.4	35.0	2,150
August	24	9.3	15.0	922
September	19.4	9.3	12.2	726
The period	-	-	-	17,900
October 1909	12.0	9.3	9.39	577
November	19.4	9.3	11.1	660
April 1910	136	20	55.3	3,290
May	115	43	60.2	3,700
June	43	12	23.1	1,370
July	11	6.2	8.45	520
August	6.2	4.7	5.38	331
September	7.8	5.0	6.97	415
October 1910	8.6	7.4	8.22	505
November	11	8.2	9.23	549
January 1911	-	-	6.10	375
February	-	-	8.00	444
March	-	-	10.0	615
April	24	8.2	11.6	690
May	57	19	38.6	2,370
June	110	46	81.9	4,870
July	44	14	24.9	1,530
August	13	7.1	10.1	621
September	10	7	8.12	483
October 1911	13	8.8	9.90	609
November	8.8	-	7.32	436
December	-	-	7.00	430
Calendar year 1911	110	-	18.6	13,500
January 1912	-	-	7.0	430
February	-	-	8.0	460
March	-	-	9.0	553
April	29	12	23.1	1,370
May	124	30	76.8	4,720
June	118	46	88.8	5,280
July	78	18	41.1	2,530
August	24	13	16.4	1,010
September	16	11	14.4	857
Water year 1911-12	124	-	25.7	18,700
October 1912	11	11	11.0	676
November	-	-	e8.0	476
December	-	-	e7.0	430
Calendar year 1912	124	-	25.9	18,800
April 22-30, 1913	73	55	61.2	1,090
May	158	38	73.5	4,520
June	130	48	77.8	4,630
July	48	10	29.1	1,790
August	11	6.4	8.90	547
September	8.8	4.6	5.82	346
October 1913	12	5.8	9.04	556
November	8.7	6.3	7.34	437
December 1-12	6.3	4.5	5.57	133
April 1914	28	9.6	20.2	1,200
May	87	28	69.5	4,270
June	100	43	66.6	3,960
July	41	9.3	21.7	1,330
August	9.3	6.2	8.54	525
September	7.1	5.8	6.22	370
October 1-20, 1914	14.8	6.0	9.79	388
May 24-31, 1915	91	82	85.0	1,350
June	95	42	73.4	4,370
July	61	23	38.1	2,340
August	24	7.8	14.7	904
September	14	7.4	9.53	567

e Estimated.

East Finley Creek near Jocko, Mont.

Location.- Staff gage, lat. 47°06', long. 114°02', near south line of sec. 32, T. 16 N., R. 19 W., just upstream from intake of Indian ditch, 200 feet downstream from crossing of Bureau of Reclamation canal, 4 miles southwest of Jocko, and 6 miles southeast of Arlee.
Records available.- August 1908 to September 1915 (gage heights only prior to April 1909).
Extremes.- Maximum discharge observed, 132 second-feet June 3, 1909 (gage height, 2.84 feet); minimum observed, 2.5 second-feet Apr. 2, 1912 (gage height, 1.23 feet).
Remarks.- Bureau of Reclamation canal diverts water above station at times. No regulation.

Monthly discharge of East Finley Creek near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April 15-30, 1909	5.3	3.6	4.26	135
May	94	6.9	26	1,600
June	132	34	67.5	4,020
July	48	14	25.5	1,570
August	19	6	9.69	596
September	11	4.1	6.97	415
The period	-	-	-	8,340
October 1909	6.5	4.1	5.18	318
November	6.8	4.1	5.21	310
January 1910	-	-	e5.0	307
February	-	-	e5.0	278
March	11	5.0	6.52	401
April	64	6.3	20.7	1,230
May	85	24	40.3	2,480
June	39	13	21.8	1,300
July	12	5.2	7.82	481
August	5.1	4.1	4.35	267
September	6.3	3.6	4.63	276
October 1910	5.5	3.5	5.07	312
November	6.9	4.9	5.76	343
December	-	-	5.0	307
January 1911	-	-	3.00	184
February	-	-	3.00	167
March	-	-	3.10	191
April	24	3.3	6.52	388
May	50	15	25.5	1,570
June	82	27	53.6	3,190
July	24	3.1	14.0	861
The period	-	-	-	7,510
January 1912	-	-	3.0	184
February	-	-	2.5	144
March	-	-	2.5	154
April	30	2.5	10.8	643
May	51	7.9	35.6	2,190
June	58	28	41.5	2,470
July	37	8.8	17.8	1,090
August	11	7.4	8.68	534
September	9.4	6.4	7.60	452
The period	-	-	-	7,860
October 1912	7.1	5.4	6.28	386
November	-	-	e4.0	238
December	-	-	e3.5	215
Calendar year 1912	58	-	12.0	8,700
April 22-30, 1913	30	11	16.0	286
May	103	9.2	35.6	2,190
June	88	34	53.2	3,170
July	34	10	19.1	1,170
August	11	6.5	8.95	550
September	6.3	4.1	5.26	313
October 1913	11	4.6	7.11	437
November	9.3	5.5	6.60	393
December 1-12	5.5	4.5	5.04	120
April 1914	10.4	2.8	6.56	390
May	55	10.6	39.6	2,430
June	50	23	34.8	2,070
July	25	7.1	13.6	836
August	7.0	4.7	5.79	356
September	7.3	4.2	5.53	329

e Estimated.

Monthly discharge of East Finley Creek near Jocko, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October 1914	16	-	9.06	557
May 24-31, 1915	71	45	54.1	858
June	71	24	47.0	2,800
July	55	17	28.5	1,750
August	16	7.0	10.5	646
September	14	7.6	9.14	544

Indian ditch near Jocko, Mont.

Location.- Staff gage, lat. 47°06', long. 114°02', near south line of sec. 32, T. 16 N., R. 19 W., 200 feet downstream from intake on East Finley Creek, 4 miles southwest of Jocko, and 6 miles southeast of Arlee.
Records available.- August 1908 to September 1916.
Remarks.- Flow completely regulated by diversion dam. Water diverted during greater part of year for stock and irrigation uses.

Monthly discharge of Indian ditch near Jocko, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1909				
April 17-30	3.0	1.8	2.02	56
May	28	1.6	8.45	520
June	20	2.0	10.7	637
July	22	8.0	14.2	873
August	12.5	4.4	6.78	417
September	7.6	4.2	5.11	304
The period	-	-	-	2,810
1909-10				
October	5.0	3.4	4.08	251
November	4.6	3.5	3.98	237
April	24	1.0	10.3	613
May	18	12	14.6	898
June	22	14	19.2	1,140
July	13	5.4	8.28	509
August	5.3	2.3	3.87	238
September	6.2	3.6	4.43	264
1910-11				
October	5.1	3.6	4.74	291
November	6.4	4.3	5.38	320
April	17	2.6	5.21	310
May	26	0	10.4	640
June	23	11	16.5	982
July	14	2.5	9.59	590
1912				
January	-	-	e2.0	123
February	-	-	e1.5	86
March	-	-	e1.5	92
April	5.3	.6	3.64	217
May	23	2.4	10.5	646
June	29	4.1	19.1	1,140
July	18	3.1	5.62	346
August	4.0	1.4	2.81	173
September	6.7	3.1	5.08	302
The period	-	-	-	3,120
1912-13				
October	8.4	6.0	7.15	440
April 22-30	10.0	7.2	9.20	164
May	10.0	5.5	7.99	491
June	27.9	9.0	20.2	1,200
July	14.2	2.2	5.84	359
August	8.3	5.1	6.55	403
September	5.0	3.4	4.11	245

e Estimated.

Monthly discharge of Indian ditch near Jocko, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1913-14				
October	7.5	3.5	5.92	364
November	6.9	3.6	5.50	327
December 1-12	3.6	2.2	2.84	68
April	9.5	2.2	5.95	354
May	25	5.5	16.1	990
June	16	5.9	11.2	666
July	11	4.8	7.76	477
August	5.3	3.9	4.90	301
September	8.5	3.9	6.23	371
1914-15				
October	9.8	-	7.64	470
June	11.5	.7	5.54	330
July	13.8	2.8	7.02	432
August	9.4	1.9	5.35	329
September	10.6	5.0	6.96	414
1915-16				
October	7.6	1.7	4.21	259
November 1-5	6.0	5.5	5.76	57
April 14-30	3.0	.7	1.32	45
May	1.7	.4	1.04	64
June	16	.0	7.60	452
July	29	3.0	9.47	582
August	22	2.4	4.20	258
September	6.6	1.7	3.66	218

Valley Creek near Ravalli, Mont.

Location.- Staff gage, lat. 47°14', long. 114°10', in T. 17 N., R. 20 W., near mouth at crossing of highway between Jocko and Ravalli, 3 miles south of Ravalli and 8 miles west of Arlee.
Records available.- April 1909 to June 1910.
Extremes.- Maximum daily discharge, 290 second-feet June 2, 3, 1909 (gage height, 2.7 feet); minimum daily, 19.1 second-feet at times during August to December 1909 (gage height, 1.15 feet).

Monthly discharge of Valley Creek near Ravalli, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1909				
April 17-30	-	-	28.3	786
May	252	33	116	7,130
June	290	69	169	10,100
July	69	33	52.6	3,230
August	33	19.1	24.3	1,490
September	38	19.1	21.9	1,300
The period	-	-	-	24,000
1909-10				
October	21	19.1	20.2	1,240
November	49	19.1	24.0	1,430
March 20-31	-	-	76.4	1,820
April	172	40	98.7	5,870
May	161	64	107	6,580
June	79	26	42.3	2,520

Revais Creek near Dixon, Mont.

Location.- Staff gage, lat. 47°17', long. 114°23', in T. 18 N., R. 22 W., downstream from highway bridge 4 miles southwest of Dixon.
Records available.- April 1911 to September 1916, October 1917 to September 1919.
Extremes.- Maximum discharge observed, 512 second-feet June 19, 1916 (gage height, 3.7 feet); minimum observed, 3 second-feet Jan. 23 to Mar. 19 and Sept. 13, 1918.
Remarks.- No diversion or regulation.

Monthly discharge of Revais Creek near Dixon, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911				
May	144	45	69.3	4,260
June	154	55	102	6,070
July	67	14	32.1	1,970
August	18	11	13.8	848
September	18	8	13.6	809
The period	-	-	-	14,000
1911-12				
October	18	11	14.8	910
November	14	11	11.3	672
December	11	8	10.4	640
January	11	8	8.9	547
February	8	8	8.0	460
March	12	8	8.5	523
April	67	12	40.8	2,430
May	226	45	130	7,990
June	154	36	87.1	5,180
July	45	14	24.2	1,490
August	14	11	11.9	732
September	11	11	11.0	655
The year	226	8	30.6	22,200
1912-13				
October	8	8	8.0	492
November	11	8	8.7	518
December	8	8	8.0	492
January	8	7	7.6	467
February	11	7	7.8	433
March	8	7	7.4	455
April	81	7	41.4	2,460
May	336	40	147	9,040
June	266	50	123	7,320
July	50	14	27.9	1,720
August	14	9.5	10.7	658
September	11	7	8.2	488
The year	336	7	33.9	24,500
1913-14				
October	12	7	8.3	510
November	16	9.5	12.2	726
December	11	7	7.8	480
January	8	6	6.5	400
February	8	6	6.5	361
March	11	6	8.5	523
April	97	8	42.6	2,530
May	202	50	118	7,260
June	177	29	65.5	3,900
July	29	11	17.1	1,050
August	11	6	7.5	461
September	8	6	6.5	387
The year	202	6	25.6	18,600
1914-15				
October	14	6.0	9.8	603
November	18	11.0	15.6	928
December 1-12	14	8.0	10.0	238
March 14-31	12.5	6.0	9.06	323
April	74	11.9	38.9	2,310
May	139	26.0	74.8	4,600
June	61	23.0	42.3	2,520
July	26	11.0	19.9	1,220
August	16	8.0	10.6	652
September	12.5	7.0	8.86	527
1915-16				
October	10.4	7.6	8.76	539
November	8.9	7.6	7.73	460
December	8.9	6.6	6.95	427
January	8.3	6.6	6.68	411
February	10.4	6.6	7.95	457
March	102	6.6	36.9	2,270
April	214	37	73.8	4,390
May	271	61	114	7,010
June	472	100	238	14,200
July	228	26	81.2	4,990
August	24	10.1	16.4	1,010
September	13.1	7.4	9.85	586
The year	472	6.6	50.5	36,800

Monthly discharge of Revais Creek near Dixon, Mont.--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1917-18				
October	9	8	8.26	508
November	8	8	8.00	476
December	142	8	18.7	1,150
January	138	3	46.5	2,860
February	3	3	3.00	167
March	42	3	8.55	526
April	106	22	69.6	4,140
May	191	78	122	7,500
June	204	38	132	7,860
July	38	16	22.3	1,370
August	16	5	9.94	611
September	5	2	4.93	293
The year	204	3	37.9	27,500
1919				
April	112	15	42.0	2,500
May	144	55	92.1	5,660
June	87	21	43.6	2,590
July	21	7	9.97	613
August	11	4	5.42	333
September	7	4	4.37	260
The period	-	-	-	12,000

Yearly discharge of Revais Creek near Dixon, Mont.

Year	Year ending Sept. 30		Calendar year	
	Mean discharge in second-feet	Run-off in acre-feet	Mean discharge in second-feet	Run-off in acre-feet
1912	30.6	22,200	29.6	21,510
1913	33.9	24,500	34.2	24,760
1914	25.6	18,600	-	-
1916	50.5	36,800	-	-
1918	37.9	27,500	-	-

Thompson River near Thompson Falls, Mont.

Location.- Staff gage, lat. 47°36', long. 115°14', in SE¼ sec. 7, T. 21 N., R. 28 W., at the second highway bridge, 1 mile upstream from mouth of Thompson River and 8 miles east of Thompson Falls.
Records available.- February to September 1911. 1912 (occasional gage readings and discharge figures).
Extremes.- Maximum daily discharge, 1,690 second-feet May 6, 1911 (gage height, 5.80 feet); minimum discharge observed, 140 second-feet Mar. 20, 1912.
Remarks.- One large diversion for irrigation half a mile above station.

Monthly discharge of Thompson River near Thompson Falls, Mont.

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911				
January	-	-	e150	9,220
February	-	-	a160	8,890
March	625	150	338	20,800
April	1,260	460	963	57,300
May	1,690	970	1,240	76,200
June	1,580	880	1,180	70,200
July	970	375	547	33,600
August	430	198	307	18,900
September	335	190	256	15,200
The period	-	-	-	310,000

a Partly estimated.
e Estimated.

Prospect Creek near Thompson Falls, Mont.

Location.- Staff gage, lat. 47°35', long. 115°22', in NE¼NE¼ sec. 18, T. 21 N., R. 29 W., at first highway bridge upstream from Dry Creek, 1 mile southwest of Thompson Falls.
Drainage area.- 139 square miles.
Records available.- February to September 1911. 1912 (occasional figures of discharge).
Extremes.- Maximum daily discharge, 1,250 second-feet Mar. 23, 1911 (gage height, 6.1 feet); minimum discharge observed, 47 second-feet Sept. 13, 1912 (gage height, 2.6 feet).
Remarks.- No diversion or regulation.

Monthly discharge of Prospect Creek near Thompson Falls, Mont.

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1911						
February 12-28	88	82	85.4	0.614	0.39	2,880
March	1,250	80	385	2.77	3.19	23,700
April	1,080	397	716	5.15	5.75	42,600
May	990	365	790	5.68	6.55	48,600
June	840	322	549	3.95	4.41	32,700
July	307	122	189	1.36	1.57	11,600
August	120	65	95.2	.685	.79	5,850
September	66	50	59.6	.429	.48	3,550
The period	-	-	-	-	-	171,000

Priest River at outlet of Priest Lake, near Coolin, Idaho

Location.- Water-stage recorder, lat. 48°29', long. 116°54', in SW¼ sec. 5, T. 59 N., R. 4 W., at southwest end of Priest Lake, 2 miles northwest of Coolin. Zero of gage, 2,435.06 feet, datum of Coast and Geodetic Survey, or 2,437.99 feet, datum of Geological Survey, above mean sea level.
Drainage area.- 572 square miles.
Records available.- June 1911 to September 1918 (only fragmentary gage heights prior to July 1912), May 1919 to September 1938.
Extremes.- Maximum discharge recorded, 7,290 second-feet May 30, 1917 (gage height, 6.83 feet); minimum recorded, 118 second-feet Nov. 25, 1936 (gage height, -0.32 foot).
Remarks.- No diversions above station.

Monthly discharge of Priest River at outlet of Priest Lake, near Coolin, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1912						
July 13-31	1,570	1,080	1,300	2.27	1.60	49,000
August	1,080	548	786	1.37	1.58	48,300
September	695	520	604	1.06	1.18	35,900
1912-13						
October	520	425	474	.829	.96	29,100
November	1,110	470	824	1.44	1.61	49,000
December	1,040	695	837	1.46	1.68	51,500
May	5,450	2,100	3,340	5.84	6.73	205,000
June	5,970	3,410	4,890	8.55	9.54	291,000
July	3,220	1,280	2,080	3.64	4.20	128,000
August	1,210	578	833	1.46	1.68	51,200
September	568	458	514	.899	1.00	30,600
1913-14						
October	485	385	451	.788	.91	27,700
November	715	408	542	.948	1.06	32,300
December	715	485	586	1.02	1.18	36,000
January	-	-	779	1.36	1.57	47,900
February	-	-	743	1.30	1.35	41,300
March	911	625	717	1.25	1.44	44,100
April	3,170	943	2,060	3.60	4.02	123,000
May	5,030	3,170	4,300	7.52	8.67	264,000
June	4,510	2,760	3,520	6.15	6.86	209,000
July	2,700	985	1,780	3.11	3.58	109,000
August	985	385	628	1.10	1.27	38,600
September	485	280	380	.664	.74	22,600
The year	5,030	280	1,380	2.41	32.65	996,000

Monthly discharge of Priest River at outlet of Priest Lake, near Coolin, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1914-15						
October	735	466	567	0.991	1.14	34,900
November	1,180	735	1,050	1.84	2.05	62,500
December	980	584	764	1.34	1.54	47,000
January	572	428	496	.867	1.00	30,500
February	441	405	422	.738	.77	23,400
March	760	446	552	.965	1.12	33,900
April	2,400	780	1,760	3.08	3.44	105,000
May	2,400	2,120	2,240	3.92	4.52	138,000
June	2,120	1,200	1,580	2.76	3.08	94,000
July	1,160	780	939	1.64	1.89	57,700
August	780	408	596	1.04	1.20	36,600
September	408	308	332	.580	.65	19,800
The year	2,400	308	943	1.65	22.40	683,000
1915-16						
October	-	-	289	.505	.58	17,800
November	418	329	375	.656	.73	22,300
December	472	397	447	.781	.90	27,500
January	477	389	431	.753	.87	26,500
February	468	389	435	.760	.82	25,000
March	1,160	459	707	1.24	1.43	43,500
April	1,680	1,080	1,280	2.24	2.50	76,200
May	4,730	1,720	3,760	6.57	7.57	231,000
June	5,640	4,280	4,810	8.41	9.38	286,000
July	4,730	1,630	3,200	5.59	6.44	197,000
August	1,540	661	999	1.75	2.02	61,400
September	655	454	552	.965	1.08	32,800
The year	5,640	-	1,440	2.52	34.32	1,050,000
1916-17						
October	440	-	330	.577	.67	20,300
November	-	-	250	.437	.49	14,900
December	-	-	246	.430	.50	15,100
January	-	-	283	.495	.57	17,400
February	-	-	296	.517	.54	16,400
March	-	-	321	.561	.65	19,700
April	-	-	557	.974	1.09	33,100
May	7,240	-	3,780	6.61	7.62	232,000
June	7,240	4,140	5,910	10.3	11.49	352,000
July	4,000	1,020	2,200	3.85	4.44	135,000
August	980	418	621	1.09	1.26	38,200
September	400	261	330	.577	.64	19,600
The year	7,240	-	1,260	2.20	29.96	914,000
1917-18						
October	258	178	221	.386	.44	13,600
November	193	172	184	.322	.36	10,900
December	-	178	299	.523	.60	18,400
January	769	-	707	1.24	1.43	43,500
February	611	524	567	.991	1.03	31,500
March	827	485	558	.976	1.13	34,300
April	2,350	875	1,570	2.74	3.06	93,400
May	3,670	2,400	3,300	5.77	6.65	203,000
June	-	2,350	3,360	5.87	6.55	200,000
July	2,240	875	1,400	2.45	2.82	86,100
August	804	538	656	1.15	1.33	40,300
September	548	334	434	.759	.85	25,800
The year	-	172	1,110	1.94	26.25	801,000
1919						
May	5,800	3,410	4,260	7.45	8.59	262,000
June	5,350	2,570	3,600	6.29	7.02	214,000
July	2,400	819	1,420	2.48	2.86	87,300
August	798	382	569	.995	1.15	35,000
September	374	222	304	.531	.59	18,100
The period	-	-	-	-	-	616,000

Monthly discharge of Priest River at outlet of Priest Lake, near Coolin, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1919-20						
October	229	188	209	0.365	0.42	12,900
November	285	-	253	.442	.49	15,100
December	319	-	257	.449	.52	15,800
January	319	-	298	.521	.60	18,300
February	319	288	303	.530	.57	17,400
March	378	274	324	.566	.65	19,900
April	910	387	562	.983	1.10	33,400
May	3,170	950	2,300	4.02	4.64	141,000
June	3,050	2,300	2,710	4.74	5.29	161,000
July	2,240	834	1,450	2.53	2.92	89,200
August	814	395	560	.979	1.13	34,400
September	691	342	485	.848	.95	28,900
The year	3,170	188	810	1.42	19.28	587,000
1920-21						
October	827	686	766	1.34	1.54	47,100
November	990	558	737	1.29	1.44	43,900
December	990	-	882	1.54	1.78	54,200
January	875	732	808	1.41	1.63	49,700
February	950	668	806	1.41	1.47	44,800
March	-	808	1,050	1.84	2.12	64,600
April	-	-	2,490	4.35	4.85	148,000
May	6,440	2,700	4,400	7.69	8.87	271,000
June	5,960	2,820	4,680	8.18	9.13	278,000
July	2,760	801	1,490	2.60	3.00	91,600
August	788	421	571	1.00	1.15	35,100
September	399	259	308	.54	.60	18,300
The year	6,440	259	1,580	2.76	37.58	1,150,000
1921-22						
October	330	236	263	.460	.53	16,200
November	416	325	354	.619	.69	21,100
December	594	395	502	.878	1.01	30,900
January	558	426	464	.811	.94	28,500
February	448	362	407	.712	.74	22,600
March	387	346	364	.636	.73	22,400
April	1,050	362	554	.969	1.08	33,000
May	4,800	1,070	2,850	4.98	5.74	175,000
June	5,120	1,930	3,810	6.66	7.43	227,000
July	1,880	620	1,060	1.85	2.13	65,200
August	604	358	451	.788	.91	27,700
September	374	248	323	.565	.63	19,200
The year	5,120	236	951	1.66	22.56	689,000
1922-23						
October	358	229	270	.472	.54	16,600
November	362	285	324	.566	.63	19,300
December	416	259	300	.524	.60	18,400
January	564	412	513	.897	1.03	31,500
February	472	358	414	.724	.75	23,000
March	370	338	354	.619	.71	21,800
April	-	362	994	1.74	1.94	59,100
May	4,080	-	3,480	6.08	7.01	214,000
June	4,080	2,700	3,570	6.25	6.97	212,000
July	2,700	852	1,580	2.76	3.18	97,200
August	830	444	585	1.02	1.18	36,000
September	431	247	325	.568	.63	19,300
The year	4,080	229	1,060	1.85	25.17	768,000
1923-24						
October	250	219	231	.404	.47	14,200
November	261	216	234	.409	.46	13,900
December	307	254	273	.477	.55	16,800
January	319	254	271	.474	.55	16,700
February	580	339	493	.862	.93	28,400
March	575	490	523	.914	1.05	32,200
April	-	438	553	.967	1.08	32,900
May	4,220	-	3,170	5.54	6.39	195,000
June	2,760	978	1,740	3.04	3.39	104,000
July	938	402	589	1.03	1.19	36,200
August	389	280	331	.579	.67	20,400
September	273	170	214	.374	.42	12,700
The year	4,220	170	720	1.26	17.15	523,000

Monthly discharge of Priest River at outlet of Priest Lake, near Coolin, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1924-25						
October	248	173	194	0.339	0.39	11,900
November	419	258	386	.675	.75	23,000
December	484	368	429	.750	.86	26,400
January	542	479	499	.872	1.01	30,700
February	776	553	717	1.25	1.30	39,800
March	735	660	691	1.21	1.40	42,500
April	4,080	710	2,690	4.70	5.24	160,000
May	5,570	3,660	4,420	7.73	8.91	272,000
June	4,220	2,120	3,030	5.30	5.91	180,000
July	2,000	618	1,140	1.99	2.29	70,100
August	602	276	415	.726	.84	25,500
September	262	185	210	.367	.41	12,500
The year	5,570	173	1,240	2.17	29.31	894,000
1925-26						
October	190	148	159	.278	.32	9,780
November	184	143	158	.276	.31	9,400
December	291	192	255	.446	.51	15,700
January	291	244	268	.469	.54	16,500
February	318	258	292	.510	.53	16,200
March	354	258	295	.516	.59	18,100
April	2,640	310	1,000	1.75	1.95	59,500
May	3,080	1,280	2,180	3.81	4.39	134,000
June	1,230	537	807	1.41	1.57	48,000
July	522	265	391	.684	.79	24,000
August	283	207	242	.423	.49	14,900
September	428	265	330	.577	.64	19,600
The year	3,080	143	533	.932	12.63	386,000
1926-27						
October	946	428	690	1.21	1.40	42,400
November	803	598	648	1.13	1.26	38,600
December	1,280	875	1,100	1.92	2.21	67,600
January	-	-	925	1.62	1.87	56,900
February	-	-	687	1.20	1.25	38,200
March	703	643	671	1.17	1.35	41,300
April	2,400	643	1,020	1.78	1.99	60,700
May	4,950	2,520	3,650	6.38	7.36	224,000
June	5,410	3,270	4,480	7.83	8.74	267,000
July	-	-	1,790	3.13	3.61	110,000
August	-	-	564	.986	1.14	34,700
September	1,180	334	821	1.44	1.61	48,900
The year	5,410	334	1,420	2.48	33.79	1,030,000
1927-28						
October	1,570	1,090	1,370	2.40	2.77	84,200
November	1,420	1,180	1,280	2.24	2.50	76,200
December	1,370	841	1,130	1.98	2.28	69,500
January	832	571	678	1.19	1.37	41,700
February	571	527	547	.956	1.03	31,500
March	1,570	513	722	1.26	1.45	44,400
April	2,220	1,420	1,650	2.88	3.21	98,200
May	5,250	2,220	3,870	6.77	7.80	238,000
June	4,500	1,840	2,880	5.03	5.61	171,000
July	1,840	803	1,310	2.29	2.64	80,600
August	769	374	536	.937	1.08	33,000
September	370	237	296	.517	.58	17,600
The year	5,250	237	1,360	2.38	32.32	986,000
1928-29						
October	276	234	263	.460	.53	16,200
November	302	254	274	.479	.53	16,300
December	287	201	255	.446	.51	15,700
January	240	214	225	.393	.45	13,800
February	230	214	221	.386	.40	12,300
March	338	217	247	.432	.50	15,200
April	796	334	409	.715	.80	24,300
May	3,660	868	2,410	4.21	4.85	148,000
June	3,140	1,730	2,290	4.00	4.46	136,000
July	1,680	620	1,060	1.85	2.13	65,200
August	603	302	434	.759	.88	26,700
September	295	190	236	.413	.46	14,000
The year	3,660	190	697	1.22	16.50	504,000

Monthly discharge of Priest River at outlet of Priest Lake, near Coolin, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929-30						
October	194	165	178	0.311	0.36	10,900
November	177	129	156	.273	.30	9,280
December	224	120	176	.308	.36	10,800
January	224	159	193	.337	.39	11,900
February	252	188	226	.395	.41	12,600
March	407	238	286	.500	.58	17,600
April	3,630	439	1,400	2.45	2.73	83,300
May	3,310	1,830	2,340	4.09	4.72	144,000
June	2,000	1,000	1,360	2.38	2.66	80,900
July	1,000	451	695	1.22	1.41	42,700
August	435	261	352	.615	.71	21,600
September	255	170	208	.364	.41	12,400
The year	3,630	120	633	1.11	15.04	458,000
1930-31						
October	188	161	175	.306	.35	10,800
November	214	181	198	.346	.39	11,800
December	204	181	194	.339	.39	11,900
January	235	181	197	.344	.40	12,100
February	247	172	208	.364	.38	11,600
March	606	241	309	.540	.62	19,000
April	1,510	684	1,080	1.89	2.11	64,300
May	4,220	1,610	3,310	5.79	6.68	204,000
June	2,500	1,130	1,640	2.87	3.20	97,600
July	1,110	467	733	1.28	1.48	45,100
August	462	198	302	.528	.61	18,600
September	195	169	182	.318	.35	10,800
The year	4,220	161	714	1.25	16.96	518,000
1931-32						
October	189	144	162	.283	.33	9,960
November	291	195	246	.430	.48	14,600
December	349	251	299	.523	.60	18,400
January	371	330	351	.614	.71	21,600
February	495	303	345	.603	.65	19,800
March	922	573	762	1.33	1.53	46,900
April	3,800	954	2,440	4.27	4.76	145,000
May	6,890	3,880	5,600	9.79	11.29	344,000
June	5,040	2,780	4,180	7.31	8.16	249,000
July	2,700	770	1,510	2.64	3.04	92,800
August	750	384	510	.892	1.03	31,400
September	394	218	283	.495	.55	16,800
The year	6,890	144	1,390	2.43	33.13	1,010,000
1932-33						
October	308	178	236	.413	.48	14,500
November	788	320	527	.921	1.03	31,400
December	-	750	855	1.49	1.72	52,600
January	766	590	669	1.17	1.35	41,100
February	590	424	481	.841	.88	26,700
March	488	429	448	.783	.90	27,500
April	2,630	499	942	1.65	1.84	56,100
May	4,870	2,860	3,690	6.45	7.44	227,000
June	5,940	3,950	5,120	8.95	9.99	305,000
July	3,790	969	2,100	3.67	4.23	129,000
August	942	370	615	1.08	1.24	37,800
September	379	329	349	.610	.68	20,800
The year	5,940	178	1,340	2.34	31.78	970,000
1933-34						
October	644	338	386	.675	.78	23,740
November	820	671	757	1.32	1.47	45,050
December	1,860	685	1,143	2.00	2.31	70,300
January	1,860	1,360	1,622	2.84	3.27	99,710
February	1,360	988	1,129	1.97	2.05	62,690
March	1,630	996	1,119	1.96	2.26	68,810
April	5,780	1,740	3,445	6.02	6.72	205,000
May	5,690	3,140	4,135	7.23	8.34	254,200
June	3,000	1,020	1,827	3.19	3.56	108,700
July	996	405	650	1.14	1.31	40,000
August	400	226	299	.523	.60	18,370
September	215	140	174	.304	.34	10,350
The year	5,780	140	1,391	2.43	33.01	1,007,000

Monthly discharge of Priest River at outlet of Priest Lake, near Coolin, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1934-35						
October	237	136	164	0.287	0.33	10,070
November	671	199	491	.858	.96	29,240
December	664	567	614	1.07	1.23	37,750
January	706	537	621	1.09	1.26	38,180
February	720	611	677	1.18	1.23	37,580
March	650	567	604	1.06	1.22	37,160
April	2,360	573	1,084	1.90	2.12	64,480
May	4,960	2,490	3,739	6.54	7.54	229,900
June	5,040	2,350	3,877	6.78	7.56	230,700
July	2,350	847	1,534	2.68	3.09	94,340
August	816	415	572	1.00	1.15	35,150
September	406	244	300	.524	.58	17,880
The year	5,040	136	1,191	2.08	28.27	862,400
1935-36						
October	240	194	216	.378	.44	13,310
November	218	178	197	.344	.38	11,720
December	253	212	228	.399	.46	13,990
January	325	263	301	.526	.61	18,520
February	266	240	249	.435	.47	14,350
March	291	243	270	.472	.54	16,630
April	3,540	270	1,124	1.97	2.20	66,900
May	4,540	3,000	3,890	6.80	7.84	239,200
June	2,900	1,020	1,813	3.17	3.54	107,900
July	980	401	679	1.19	1.37	41,730
August	392	200	282	.493	.57	17,310
September	227	162	193	.337	.38	11,500
The year	4,540	162	789	1.38	18.80	573,100
1936-37						
October	167	141	152	.266	.31	9,380
November	151	120	133	.233	.26	7,940
December	203	120	152	.266	.31	9,350
January	200	172	189	.330	.38	11,640
February	270	200	236	.413	.43	13,100
March	250	212	224	.392	.45	13,800
April	940	233	496	.867	.97	29,540
May	3,140	980	2,258	3.95	4.55	138,800
June	3,140	2,160	2,628	4.59	5.12	156,400
July	2,100	713	1,269	2.22	2.56	78,000
August	707	357	495	.865	1.00	30,450
September	374	266	333	.582	.65	19,800
The year	3,140	120	716	1.25	11.99	518,200
1937-38						
October	328	263	285	.498	.57	17,540
November	1,060	321	611	1.07	1.19	36,350
December	1,060	828	932	1.63	1.88	57,310
January	1,020	835	926	1.62	1.87	56,940
February	902	608	754	1.32	1.38	41,900
March	850	577	711	1.24	1.43	43,720
April	3,780	850	1,797	3.14	3.50	106,900
May	5,780	3,780	4,395	7.68	8.85	270,200
June	5,780	2,420	4,010	7.01	7.82	238,600
July	2,300	686	1,338	2.34	2.70	82,260
August	660	302	441	.771	.89	27,140
September	298	209	250	.437	.49	14,850
The year	5,780	209	1,373	2.40	32.57	993,700

Yearly discharge of Priest River at outlet of Priest Lake, near Coolin, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1914	1,380	2.41	32.65	996,000	1,440	2.52	34.23	1,040,000
1915	943	1.65	22.40	683,000	837	1.46	19.88	606,000
1916	1,440	2.52	34.32	1,050,000	1,420	2.48	33.77	1,030,000
1917	1,260	2.20	29.96	914,000	1,250	2.19	29.70	906,000
1918	1,110	1.94	26.25	801,000	-	-	-	-
1920	810	1.42	19.28	587,000	949	1.66	22.61	689,000
1921	1,580	2.76	37.58	1,150,000	1,480	2.59	35.05	1,070,000
1922	951	1.66	22.56	689,000	932	1.63	22.10	675,000
1923	1,060	1.85	25.17	768,000	1,050	1.84	24.88	759,000
1924	720	1.26	17.15	523,000	743	1.30	17.67	540,000
1925	1,240	2.17	29.31	894,000	1,200	2.10	28.45	868,000
1926	533	.932	12.63	386,000	690	1.21	16.36	499,000
1927	1,420	2.48	33.79	1,030,000	1,530	2.67	36.47	1,110,000
1928	1,360	2.38	32.32	986,000	1,110	1.94	26.34	804,000
1929	697	1.22	16.50	504,000	673	1.18	15.95	486,000
1930	633	1.11	15.04	458,000	638	1.12	15.15	462,000
1931	714	1.25	16.96	518,000	725	1.27	17.24	526,000
1932	1,390	2.43	33.13	1,010,000	1,470	2.57	34.95	1,070,000
1933	1,340	2.34	31.78	970,000	1,400	2.45	33.11	1,010,000
1934	1,391	2.43	33.01	1,007,000	1,305	2.28	30.97	944,900
1935	1,191	2.08	28.27	862,400	1,139	1.99	27.03	824,400
1936	789	1.38	18.80	573,100	772	1.35	18.40	560,700
1937	716	1.25	11.99	518,200	833	1.46	19.75	602,700
1938	1,373	2.40	32.57	993,700	1,282	2.24	30.42	928,000
Highest	1,580	2.76	37.58	1,150,000	1,530	2.67	36.47	1,110,000
Average	1,085	1.90	25.77	786,300	1,081	1.89	25.67	783,100
Lowest	533	.932	12.63	386,000	638	1.12	15.15	462,000

Priest River at Falk's ranch, near Priest River, Idaho

Location.- Staff gage, lat. 48°16', long. 116°52', in sec. 20, T. 57 N., R. 4 W., at Falk's ranch, 4 miles upstream from West Branch of Priest River, 8 miles north of Priest River, and 18 miles downstream from Priest Lake.
Records available.- March 1911 to November 1912.
Drainage area.- 792 square miles.
Extremes.- Maximum discharge observed, 6,140 second-feet May 28, 29, 1912 (gage height, 8.4 feet); minimum observed, 344 second-feet Oct. 23 to Nov. 5, 1911 (gage height, 2.2 feet)
Remarks.- No diversion or regulation.

Monthly discharge of Priest River at Falk's ranch, near Priest River, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1911						
March 2-31	1,180	544	739	0.933	1.04	44,000
April	2,640	1,200	1,580	1.99	2.22	94,000
May	5,650	2,640	4,490	5.67	6.54	276,000
June	4,360	2,450	3,670	4.63	5.17	218,000
July	2,360	1,050	1,590	2.01	2.32	97,800
August	1,050	588	831	1.05	1.21	51,100
September	678	509	572	.722	.81	34,000
The period	-	-	-	-	-	815,000
1911-12						
October	503	344	398	.503	.58	24,500
November	724	344	453	.572	.64	27,000
December	592	384	515	.650	.75	31,700
May	6,140	2,560	4,390	5.54	6.39	270,000
June	5,520	1,760	3,330	4.20	4.69	198,000
July	1,760	1,010	1,330	1.68	1.94	81,800
August	961	549	758	.957	1.10	46,600
September	724	592	637	.804	.90	37,900
1912						
October	592	465	527	.665	.77	32,400
November 1-20	1,260	507	929	1.17	.87	36,900

Priest River near Priest River, Idaho

Location.- Water-stage recorder, lat. 48°13', long. 116°55', in NE¼SE¼ sec. 11, T. 56 N., R. 5 W., 500 feet downstream from Saddler Creek, a quarter of a mile downstream from Lower West Branch, 2⅝ miles north of Priest River, and 3⅝ miles upstream from mouth.
Drainage area.- 902 square miles.
Records available.- October 1930 to September 1938.
Extremes.- Maximum discharge recorded, 8,890 second-feet May 23, 1932 (gage height, 8.03 feet); minimum recorded, 184 second-feet Jan. 7, 1937 (gage height, 0.54 foot).
Remarks.- No diversions above station. Some regulation on tributary.

Monthly discharge of Priest River near Priest River, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930-31						
October	305	250	277	0.307	0.35	17,000
November	346	275	307	.340	.38	18,300
December	309	279	298	.330	.38	18,300
January	482	283	329	.365	.42	20,200
February	654	262	396	.439	.46	22,000
March	1,250	435	785	.870	1.00	48,300
April	2,020	1,100	1,550	1.72	1.92	92,200
May	4,850	2,220	3,770	4.18	4.82	232,000
June	2,920	1,330	1,950	2.16	2.41	116,000
July	1,290	589	885	.981	1.13	54,400
August	600	266	414	.459	.53	25,500
September	314	229	266	.295	.33	15,800
The year	4,850	229	940	1.04	14.13	680,000
1931-32						
October	360	217	266	.295	.34	16,400
November	498	292	395	.438	.49	23,500
December	-	-	480	.532	.61	29,500
January	-	-	490	.543	.63	30,100
February	700	-	506	.561	.60	29,100
March	2,300	750	1,270	1.41	1.63	78,100
April	5,600	2,500	4,180	4.63	5.17	249,000
May	8,890	5,650	7,540	8.36	9.64	464,000
June	6,320	3,250	5,150	5.71	6.37	306,000
July	3,130	1,020	1,860	2.06	2.38	114,000
August	984	492	677	.751	.87	41,600
September	492	343	406	.450	.50	24,200
The year	8,890	217	1,940	2.15	29.23	1,410,000
1932-33						
October	602	310	414	.459	.53	25,500
November	1,160	635	896	.993	1.11	53,300
December	1,300	-	1,080	1.20	1.38	66,400
January	1,080	796	915	1.01	1.16	56,300
February	796	596	698	.774	.81	38,800
March	-	583	692	.767	.88	42,500
April	4,320	-	1,900	2.11	2.35	113,000
May	6,020	4,320	4,910	5.44	6.27	302,000
June	7,080	4,600	6,220	6.90	7.70	370,000
July	4,460	1,200	2,500	2.77	3.19	154,000
August	1,200	516	803	.890	1.03	49,400
September	540	445	487	.540	.60	29,000
The year	7,080	310	1,800	2.00	27.01	1,300,000
1933-34						
October	936	450	535	.593	.68	32,910
November	1,340	882	1,072	1.19	1.33	63,820
December	5,010	860	2,367	2.62	3.02	145,500
January	3,550	2,270	2,742	3.04	3.50	168,600
February	2,270	1,480	1,884	2.09	2.18	104,600
March	3,070	1,710	2,008	2.23	2.57	123,500
April	6,900	3,130	4,452	4.94	5.51	264,900
May	6,750	3,490	4,791	5.31	6.12	294,600
June	3,430	1,240	2,197	2.44	2.72	130,800
July	1,210	548	819	.908	1.05	50,370
August	536	325	416	.461	.53	25,580
September	325	255	287	.318	.35	17,070
The year	6,900	255	1,964	2.18	29.56	1,422,000

Monthly discharge of Priest River near Priest River, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1934-35						
October	647	242	329	0.365	0.42	20,260
November	1,070	420	869	.963	1.07	51,730
December	1,100	806	892	.989	1.14	54,820
January	1,400	650	963	1.07	1.23	59,210
February	1,160	949	1,045	1.16	1.21	58,010
March	1,280	892	1,071	1.19	1.37	65,880
April	3,550	1,050	2,046	2.27	2.53	121,700
May	6,150	3,620	5,111	5.67	6.54	314,200
June	6,000	2,710	4,546	5.04	5.62	270,500
July	2,710	1,050	1,758	1.95	2.25	108,100
August	1,000	550	735	.815	.94	45,220
September	540	348	425	.471	.53	25,310
The year	6,150	242	1,651	1.83	24.85	1,195,000
1935-36						
October	396	313	345	.382	.44	21,190
November	381	322	355	.394	.44	21,100
December	427	343	372	.412	.48	22,860
January	602	370	464	.514	.59	28,550
February	410	370	360	.399	.43	20,710
March	669	420	538	.596	.69	33,060
April	4,460	422	1,832	2.03	2.26	109,000
May	5,570	3,490	4,716	5.23	6.03	290,000
June	3,430	1,240	2,169	2.40	2.68	129,000
July	1,400	515	863	.957	1.10	53,080
August	504	280	381	.422	.49	23,450
September	381	265	307	.340	.38	18,290
The year	5,570	265	1,061	1.18	16.01	770,300
1936-37						
October	277	234	253	.280	.32	15,580
November	237	215	227	.252	.28	13,490
December	555	212	293	.325	.37	18,010
January	343	191	284	.315	.36	17,480
February	440	320	370	.410	.43	20,550
March	695	399	459	.509	.59	28,240
April	2,400	766	1,386	1.54	1.72	82,500
May	3,940	2,200	3,144	3.49	4.02	193,300
June	3,800	2,670	3,235	3.59	4.00	192,500
July	2,620	918	1,562	1.73	1.99	96,040
August	904	479	657	.728	.84	40,400
September	571	377	445	.493	.55	26,490
The year	3,940	191	1,028	1.14	15.47	744,600
1937-38						
October	462	382	416	.461	.53	25,600
November	2,080	457	1,038	1.15	1.28	61,790
December	2,560	1,190	1,435	1.59	1.83	88,260
January	2,840	1,230	1,709	1.89	2.18	105,100
February	1,420	983	1,199	1.33	1.38	66,570
March	2,890	998	1,728	1.92	2.21	106,300
April	5,700	1,750	3,472	3.85	4.30	206,600
May	6,960	4,820	5,578	6.18	7.12	343,000
June	6,800	2,840	4,714	5.23	5.84	280,500
July	2,720	834	1,587	1.76	2.03	97,590
August	800	435	579	.642	.74	35,600
September	430	340	377	.418	.47	22,430
The year	6,960	340	1,988	2.20	29.91	1,439,000

Yearly discharge of Priest River near Priest River, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1931	940	1.04	14.13	680,000	961	1.07	14.46	696,000
1932	1,940	2.15	29.23	1,410,000	2,040	2.26	30.81	1,480,000
1933	1,800	2.00	27.01	1,300,000	1,930	2.14	29.02	1,400,000
1934	1,964	2.18	29.56	1,422,000	1,805	2.00	27.16	1,307,000
1935	1,651	1.83	24.85	1,195,000	1,565	1.74	23.58	1,133,000
1936	1,061	1.18	16.01	770,300	1,036	1.15	15.62	752,200
1937	1,028	1.14	15.47	744,600	1,206	1.34	18.14	873,200
1938	1,988	2.20	29.91	1,439,000	1,847	2.05	27.80	1,337,000

Priest River at Priest River, Idaho

Location.- Staff gage, lat. 48°11', long. 116°54', in sec. 24, T. 56 N., R. 5 W., at highway bridge three-quarters of a mile northeast of town of Priest River and 1½ miles upstream from mouth. Datum of gage is 2,052.24 feet above mean sea level.
Drainage area.- 904 square miles.
Records available.- June 1903 to April 1905, November 1910 to April 1911 (January to April 1911 incomplete), May to December 1923, February 1929 to September 1930.
Extremes.- Maximum discharge observed, 6,300 second-feet Apr. 30, 1904; minimum discharge, 216 second-feet Nov. 21, 1929.
Remarks.- No diversion above station. Some regulation caused by flash dam on West Branch of Priest River.

Monthly discharge of Priest River at Priest River, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
July 1903	4,700	1,740	3,060	3.38	3.90	188,000
August	1,690	950	1,360	1.50	1.73	83,600
September	1,080	835	928	1.03	1.15	55,200
The period	-	-	-	-	-	327,000
October 1903	1,080	810	978	1.08	1.24	60,100
November	1,320	890	1,040	1.15	1.28	61,900
December	1,370	1,050	1,140	1.26	1.45	70,100
January 1904	1,120	920	1,010	1.12	1.29	62,100
February	950	862	930	1.03	1.11	53,500
March	1,540	890	1,190	1.32	1.52	73,200
April	6,300	1,160	3,510	3.88	4.33	209,000
May	5,920	4,350	5,330	5.90	6.80	328,000
June	5,250	3,050	4,400	4.87	5.43	262.000
July	3,120	1,240	2,030	2.25	2.59	125,000
August	1,240	675	877	.970	1.12	53,900
September	675	530	580	.642	.72	34,500
Water year 1903-4	6,300	530	1,920	2.12	28.88	1,390,000
October 1904	545	500	517	.572	.66	31,800
November	835	485	564	.624	.70	33,600
December	718	598	624	.690	.80	38,400
Calendar year 1904	6,300	485	1,800	1.99	27.07	1,300,000
January 1905	740	-	621	.687	.79	38,200
February	1,020	-	722	.799	.83	40,100
March	1,790	890	1,340	1.48	1.71	82,400
April	2,360	1,590	1,780	1.97	2.20	106,000
The period	-	-	-	-	-	370,000
November 18-30, 1910	3,250	860	1,530	1.69	.88	42,500
December	1,980	860	1,120	1.24	1.43	68,900
May 11-31, 1923	-	4,710	5,200	5.75	4.49	217,000
June	-	-	4,370	4.83	5.39	260,000
July	-	1,050	1,820	2.01	2.32	112,000
August	1,050	602	782	.865	1.00	48,100
September	575	380	459	.508	.57	27,300
The period	-	-	-	-	-	664,000
October 1923	425	335	363	.402	.46	22,300
November	525	315	380	.420	.47	22,600
December	575	335	408	.451	.52	25,100
Feb. 27-28, 1929	383	380	382	.423	.03	1,520
March	1,020	390	571	.632	.73	35,100
April	1,980	572	958	1.06	1.18	57,000
May	-	1,300	2,960	3.27	3.77	182,000
June	-	2,130	2,850	3.15	3.51	170,000
July	2,130	791	1,290	1.43	1.65	79,300
August	758	431	587	.649	.75	36,100
September	431	301	358	.396	.44	21,300
The period	-	-	-	-	-	582,000
October 1929	318	271	292	.323	.37	18,000
November	293	216	262	.290	.32	15,600
December	469	222	356	.394	.45	21,900
January 1930	384	249	307	.340	.39	18,900
February	469	301	366	.405	.42	20,300
March	888	354	524	.580	.67	32,200
April	4,300	771	1,840	2.04	2.28	109,000
May	3,600	2,020	2,710	3.00	3.46	167,000
June	2,420	1,250	1,610	1.78	1.99	95,800
July	1,210	612	864	.956	1.10	53,100
August	583	337	442	.489	.56	27,200
September	327	258	287	.317	.35	17,100
water year 1929-30	4,300	216	824	.912	12.36	596,000

SPOKANE RIVER BASIN

Coeur d'Alene River at Prichard, Idaho

Location.- Staff gage, lat. 47°40', long. 115°58', in sec. 20, T. 50 N., R. 4 E., at Prichard ranger station, three-eighths of a mile upstream from Prichard Creek and half a mile upstream from Prichard.
Records available.- October 1911 to September 1914.
Extremes.- Maximum discharge observed, 7,610 second-feet May 10, 11, 1913 (gage height, 6.1 feet); minimum observed, 124 second-feet Oct. 23 to Nov. 1, 1911.
Remarks.- No diversion or regulation.

Monthly discharge of North Fork of Coeur d'Alene River at Prichard, Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911-12				
October 23-31	124	124	124	2,210
November	2,340	124	502	29,900
December	335	148	210	12,900
January	1,120	208	466	28,700
February	1,320	440	728	41,900
March	2,040	245	612	37,600
April	5,280	1,890	3,330	198,000
May	4,920	1,870	2,850	175,000
June	2,320	470	1,000	59,500
July	610	193	310	19,100
August	250	145	178	10,900
September	340	192	251	14,900
The period	-	-	-	631,000
1912-13				
October	515	192	262	16,100
November	3,490	340	1,300	77,400
December	560	315	388	23,900
March	1,340	526	802	49,300
April	7,380	1,140	4,110	245,000
May	7,610	2,630	4,680	288,000
June	3,670	703	1,580	94,000
July	940	317	530	32,600
August	317	172	238	14,600
September	268	158	170	10,100
1913-14				
October	273	149	189	11,600
November	639	163	409	24,300
December	576	213	333	20,500
January	2,180	210	725	44,600
February	730	254	403	22,400
March	3,160	730	1,600	98,400
April	5,990	1,120	3,430	204,000
May	3,500	730	1,830	113,000
June	730	354	482	28,700
July	296	164	227	14,000
August	164	131	153	9,410
September	414	126	171	10,200
The year	5,990	126	830	601,000

Coeur d'Alene River at Enaville, Idaho

Location.- Staff gage, lat. 47°34', long. 116°15', in sec. 30, T. 49 N., R. 2 E., at Enaville, half a mile upstream from South Fork of Coeur d'Alene River.
Records available.- March 1911 to April 1913.
Extremes.- Maximum discharge observed, 9,420 second-feet Apr. 12, 1912 (gage height, 10.7 feet); minimum, 210 second-feet Sept. 29, 30, 1911 (gage height, 2.20 feet).
Remarks.- No diversion or regulation.

Monthly discharge of Coeur d'Alene River at Enavilla, Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911				
March 3-31	5,810	440	2,790	160,000
April	8,480	2,850	4,940	294,000
May	7,730	2,970	4,920	303,000
June	4,270	1,100	2,220	132,000
July	1,100	465	705	43,300
August	760	296	436	26,800
September	540	210	389	23,100
The period	-	-	-	982,000
1911-12				
October 1-28	315	217	255	14,200
February	2,250	910	1,840	106,000
March	3,780	660	1,200	73,800
April	9,420	3,160	5,780	344,000
May	7,250	3,520	4,850	298,000
June	3,160	850	1,640	97,600
July	970	495	728	44,800
August	495	240	416	25,600
September	728	360	524	31,200
1912				
October	810	360	489	30,100
November	5,810	585	2,210	132,000
December	1,170	680	921	56,600
The period	-	-	-	219,000

Coeur d'Alene River near Cataldo, Idaho

Location.- Water-stage recorder, lat. 47°34', long. 116°18', in sec. 26, T. 49 N., R. 1 E., 1½ miles upstream from Cataldo and 3 miles downstream from South Fork of Coeur d'Alene River. Prior to October 1925 staff gage at same site and datum. Datum of gage is 2,100.00 feet above mean sea level.
Drainage area.- 1,220 square miles.
Records available.- April 1911 to December 1912, July 1920 to September 1938.
Extremes.- Maximum discharge, 55,300 second-feet Dec. 22 or 23, 1933 (gage height, 56.9 feet, from high-water mark); minimum, 122 second-feet Dec. 4, 1929; minimum gage height, 37.03 feet Sept. 6, 1931.
Remarks.- No diversion or regulation of consequence above station.

Monthly discharge of Coeur d'Alene River near Cataldo, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1911						
April 25-30	13,500	6,980	10,400	8.52	1.90	124,000
May	12,200	3,980	7,190	5.89	6.79	442,000
June	6,140	1,400	2,820	2.31	2.58	168,000
July	1,400	610	901	.739	.85	55,400
August	780	405	555	.455	.52	34,100
September	500	365	430	.352	.39	25,600
The period	-	-	-	-	-	849,000
1911-12						
October	405	300	345	.283	.33	21,200
November	5,340	300	1,120	.918	1.02	66,600
December	980	405	636	.521	.60	39,100
January	2,910	405	1,160	.951	1.10	71,300
February	4,450	1,400	2,430	1.99	2.15	140,000
March	5,340	780	1,600	1.31	1.51	98,400
April	14,400	4,290	8,500	6.97	7.78	506,000
May	12,700	5,150	7,990	6.55	7.55	491,000
June	5,150	1,140	2,520	2.07	2.31	150,000
July	1,400	555	837	.686	.79	51,500
August	610	365	483	.396	.46	29,700
September	1,140	405	594	.487	.54	35,300
The year	14,400	300	2,340	1.92	26.14	1,700,000

Monthly discharge of Coeur d'Alene River near Cataldo, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1912						
October	780	405	547	0.448	0.52	33,600
November	7,410	665	2,600	2.13	2.38	155,000
December	1,310	665	907	.743	.86	55,800
The period	-	-	-	-	-	244,000
1920						
August	585	374	444	.364	.42	27,300
September	1,130	312	625	.512	.57	37,200
The period	-	-	-	-	-	64,500
1920-21						
October	1,360	850	1,070	.877	1.01	65,800
November	3,770	565	1,540	1.26	1.41	91,600
December	14,000	910	1,960	1.61	1.86	121,000
January	11,600	3,120	5,010	4.11	4.74	308,000
February	17,800	1,220	4,440	3.64	3.79	247,000
March	22,000	3,000	6,560	5.38	6.20	403,000
April	16,400	3,910	8,200	6.72	7.50	488,000
May	15,500	4,050	8,760	7.18	8.28	539,000
June	4,200	1,150	2,300	1.89	2.11	137,000
July	1,220	540	812	.666	.77	49,900
August	540	375	470	.385	.44	28,900
September	440	355	390	.320	.36	23,200
The year	22,000	355	3,450	2.83	38.47	2,500,000
1921-22						
October	640	315	410	.336	.39	25,200
November	1,090	315	488	.400	.45	29,000
December	18,100	850	3,060	2.51	2.89	188,000
January	910	-	635	.520	.60	39,000
February	565	-	496	.407	.42	27,500
March	1,820	440	830	.680	.78	51,000
April	9,720	1,580	4,920	4.03	4.50	293,000
May	17,600	4,680	9,230	7.57	8.73	568,000
June	6,200	1,090	2,790	2.29	2.56	166,000
July	1,030	515	728	.597	.69	44,800
August	565	335	434	.356	.41	26,700
September	440	315	362	.297	.33	21,500
The year	18,100	315	2,040	1.67	22.75	1,480,000
1922-23						
October	540	295	351	.288	.33	21,600
November	540	335	386	.316	.35	23,000
December	3,000	-	686	.562	.65	42,200
January	11,600	1,020	3,050	2.50	2.88	188,000
February	1,080	-	616	.505	.53	34,200
March	9,470	885	2,000	1.64	1.89	123,000
April	17,000	4,990	9,120	7.48	8.34	543,000
May	14,900	3,940	7,720	6.33	7.30	475,000
June	7,720	1,740	4,090	3.35	3.74	243,000
July	1,740	672	1,130	.926	1.07	69,500
August	885	468	587	.481	.55	36,100
September	468	380	398	.326	.36	23,700
The year	17,000	-	2,520	2.07	27.99	1,820,000
1923-24						
October	885	400	460	.377	.43	28,300
November	1,290	360	552	.452	.50	32,800
December	1,740	605	845	.693	.80	52,000
January	1,580	-	551	.452	.52	33,900
February	11,300	2,480	4,770	3.91	4.22	274,000
March	3,370	1,500	2,370	1.94	2.24	146,000
April	8,250	1,500	4,990	4.09	4.56	297,000
May	15,800	1,740	5,570	4.57	5.27	342,000
June	1,580	630	1,080	.885	.99	64,300
July	655	400	530	.434	.50	32,600
August	465	300	358	.293	.34	22,000
September	380	260	305	.250	.28	18,100
The year	15,800	260	1,850	1.52	20.65	1,340,000

Monthly discharge of Coeur d'Alene River near Cataldo, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1924-25						
October	710	280	359	0.294	0.34	22,100
November	2,060	510	1,020	.836	.93	60,700
December	7,270	580	1,810	1.48	1.71	111,000
January	8,840	630	1,430	1.17	1.35	87,900
February	23,700	2,180	6,770	5.55	5.78	376,000
March	11,300	2,080	4,840	3.97	4.58	298,000
April	21,700	5,660	11,300	9.26	10.33	672,000
May	9,090	3,810	6,740	5.52	6.36	414,000
June	3,380	1,260	2,150	1.76	1.96	128,000
July	1,190	590	835	.684	.79	51,300
August	618	410	514	.421	.49	31,600
September	485	320	378	.310	.35	22,500
The year	23,700	280	3,140	2.57	34.97	2,280,000
1925-26						
October	385	300	334	.274	.32	20,500
November	510	280	363	.298	.33	21,600
December	1,720	410	906	.743	.86	55,700
January	810	460	631	.517	.60	38,800
February	3,960	535	1,900	1.56	1.62	106,000
March	5,480	1,990	3,290	2.70	3.11	202,000
April	10,800	1,720	5,050	4.14	4.62	300,000
May	4,780	1,120	2,180	1.79	2.06	134,000
June	1,050	510	768	.630	.70	45,700
July	618	300	404	.331	.38	24,800
August	598	260	314	.257	.30	19,300
September	1,050	340	568	.466	.52	33,800
The year	10,800	260	1,390	1.14	15.42	1,000,000
1926-27						
October	2,010	482	1,050	.861	.99	64,600
November	11,300	665	1,890	1.55	1.73	112,000
December	12,600	1,080	3,350	2.74	3.16	206,000
January	3,120	-	1,700	1.39	1.60	105,000
February	6,940	1,110	2,620	2.15	2.24	146,000
March	4,280	2,010	2,690	2.20	2.54	165,000
April	25,800	3,450	7,970	6.53	7.29	474,000
May	15,800	6,040	9,570	7.84	9.04	588,000
June	8,250	2,100	5,100	4.18	4.66	303,000
July	2,010	720	1,210	.992	1.14	74,400
August	709	454	542	.444	.51	33,300
September	1,550	501	839	.688	.77	49,900
The year	25,800	454	3,210	2.63	35.67	2,320,000
1927-28						
October	3,450	762	1,980	1.62	1.87	122,000
November	16,900	1,590	6,530	5.35	5.97	389,000
December	11,000	1,200	3,720	3.05	3.52	229,000
January	8,440	1,400	2,860	2.34	2.70	176,000
February	2,420	1,240	1,770	1.45	1.56	102,000
March	11,000	1,200	4,910	4.02	4.64	302,000
April	12,600	3,110	5,800	4.75	5.30	345,000
May	14,600	3,110	8,350	6.84	7.89	513,000
June	2,850	1,060	1,710	1.40	1.56	102,000
July	1,060	515	735	.602	.69	45,200
August	520	359	422	.346	.40	25,900
September	367	317	339	.278	.31	20,200
The year	16,900	317	3,270	2.68	36.41	2,370,000
1928-29						
October	640	328	449	.368	.42	27,600
November	1,240	306	563	.461	.51	33,500
December	565	197	370	.303	.35	22,800
January	431	-	305	.250	.29	18,800
February	-	-	276	.226	.24	15,300
March	7,060	274	1,760	1.44	1.66	108,000
April	10,700	1,650	4,550	3.73	4.16	271,000
May	8,510	2,240	5,560	4.56	5.26	342,000
June	2,330	940	1,570	1.29	1.44	93,400
July	882	446	617	.506	.58	37,900
August	446	307	358	.293	.34	22,000
September	402	295	335	.274	.31	10,900
The year	10,700	197	1,400	1.15	15.56	1,010,000

Monthly discharge of Coeur d'Alene River near Cataldo, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1929-30						
October	399	289	317	0.260	0.30	19,500
November	320	172	238	.195	.22	14,200
December	1,460	141	511	.419	.48	31,400
January	442	165	241	.198	.23	14,800
February	6,280	280	1,530	1.25	1.30	85,000
March	6,280	1,030	2,240	1.84	2.12	138,000
April	7,260	3,110	4,790	3.93	4.38	285,000
May	4,220	1,740	2,570	2.11	2.43	158,000
June	2,330	940	1,520	1.25	1.40	90,400
July	882	410	601	.493	.57	37,000
August	399	266	329	.270	.31	20,200
September	320	228	278	.228	.25	16,500
The year	7,260	141	1,260	1.03	13.99	910,000
1930-31						
October	430	218	334	.274	.32	20,500
November	855	314	428	.351	.39	25,500
December	327	206	276	.226	.26	17,000
January	1,630	206	495	.406	.47	30,400
February	1,970	566	1,040	.852	.89	57,800
March	10,600	977	3,420	2.80	3.23	210,000
April	12,900	3,570	6,560	5.38	6.00	390,000
May	8,830	1,430	4,190	3.43	3.95	258,000
June	1,390	580	919	.753	.84	54,700
July	580	314	416	.341	.39	25,600
August	327	252	276	.226	.26	17,000
September	430	238	318	.261	.29	18,900
The year	12,900	206	1,560	1.28	17.29	1,130,000
1931-32						
October	418	266	322	.264	.30	19,800
November	687	246	394	.323	.36	23,400
December	610	201	353	.289	.33	21,700
January	2,020	399	762	.625	.72	46,900
February	16,000	463	1,980	1.62	1.75	114,000
March	9,250	1,970	4,850	3.98	4.59	298,000
April	21,500	6,800	12,100	9.92	11.07	720,000
May	15,500	5,020	10,900	8.93	10.30	670,000
June	6,230	1,390	3,400	2.79	3.11	202,000
July	1,590	543	906	.743	.86	55,700
August	547	402	462	.379	.44	28,400
September	418	358	380	.311	.35	22,600
The year	21,500	201	3,060	2.51	34.18	2,220,000
1932-33						
October	605	340	427	.350	.40	26,300
November	6,990	511	2,460	2.02	2.25	146,000
December	9,250	700	2,350	1.93	2.22	144,000
January	3,830	880	1,720	1.41	1.63	106,000
February	977	650	760	.623	.65	42,200
March	4,550	769	2,270	1.86	2.14	140,000
April	21,200	3,080	8,820	7.23	8.07	525,000
May	12,900	6,760	9,100	7.46	8.60	560,000
June	16,000	2,380	6,770	5.55	6.19	403,000
July	2,270	693	1,280	1.05	1.21	78,700
August	706	462	571	.468	.54	35,100
September	558	442	485	.398	.44	28,900
The year	21,200	340	3,090	2.53	34.34	2,240,000
1933-34						
October	3,110	384	871	.714	.82	53,560
November	9,020	883	2,131	1.75	1.95	126,800
December	50,000	842	13,230	10.8	12.45	813,700
January	22,200	3,570	8,323	6.82	7.86	511,800
February	5,870	2,440	4,265	3.50	3.64	236,800
March	20,000	2,860	6,490	5.32	6.13	399,100
April	12,200	4,110	6,336	5.19	5.79	377,000
May	3,570	1,470	2,444	2.00	2.31	150,300
June	1,390	714	971	.796	.89	57,780
July	687	372	516	.423	.49	31,700
August	395	268	320	.262	.30	19,690
September	344	254	298	.244	.27	17,740
The year	50,000	254	3,862	3.17	42.90	2,796,000

Monthly discharge of Coeur d'Alene River near Cataldo, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1934-35						
October	3,080	273	636	0.521	0.60	39,090
November	3,440	874	1,907	1.56	1.74	113,500
December	6,320	924	1,857	1.52	1.75	114,200
January	5,600	800	2,214	1.81	2.09	136,100
February	3,260	1,520	2,297	1.88	1.96	127,600
March	7,590	1,500	3,004	2.46	2.84	184,700
April	13,400	2,750	7,915	6.49	7.24	471,000
May	13,900	6,520	9,218	7.56	8.72	566,800
June	6,140	1,220	2,721	2.23	2.49	161,900
July	1,210	560	808	.662	.76	49,690
August	590	365	462	.379	.44	28,390
September	374	300	330	.270	.30	19,640
The year	13,900	273	2,780	2.28	30.93	2,013,000
1935-36						
October	360	288	324	.266	.31	19,910
November	406	270	338	.277	.31	20,110
December	470	245	317	.260	.30	19,510
January	1,320	296	550	.451	.52	33,810
February	994	290	383	.314	.34	22,010
March	4,400	1,000	2,026	1.66	1.91	124,600
April	21,000	800	10,730	8.80	9.82	638,500
May	11,600	2,390	6,296	5.16	5.95	387,200
June	2,860	924	1,742	1.43	1.60	103,600
July	886	450	656	.538	.62	40,350
August	415	300	347	.284	.33	21,360
September	365	276	321	.263	.29	19,100
The year	21,000	245	1,997	1.64	22.30	1,450,000
1936-37						
October	306	270	285	.234	.27	17,510
November	275	210	253	.207	.23	15,050
December	1,870	225	521	.427	.49	32,060
January	366	240	269	.220	.25	16,570
February	355	220	277	.227	.24	15,370
March	2,700	328	1,393	1.14	1.31	85,660
April	13,700	2,710	6,437	5.28	5.89	383,000
May	16,600	3,670	8,090	6.63	7.64	497,400
June	3,820	1,510	2,327	1.91	2.13	138,400
July	1,350	554	818	.670	.77	50,270
August	709	372	484	.397	.46	29,770
September	458	328	362	.297	.33	21,540
The year	16,600	210	1,799	1.47	20.01	1,303,000
1937-38						
October	422	182	281	.230	.26	17,260
November	4,400	240	1,531	1.25	1.40	91,130
December	4,700	1,070	2,541	2.08	2.40	156,300
January	5,690	1,360	2,721	2.23	2.57	167,300
February	1,860	1,010	1,278	1.05	1.09	70,970
March	8,120	1,580	3,759	3.08	3.55	231,100
April	34,800	2,960	10,200	8.36	9.33	607,000
May	12,000	3,700	5,846	4.79	5.52	359,400
June	3,320	1,050	1,892	1.55	1.73	112,600
July	1,020	500	735	.602	.69	45,200
August	488	311	407	.334	.39	25,010
September	500	280	323	.265	.30	19,240
The year	34,800	182	2,628	2.15	29.23	1,903,000

Yearly discharge of Coeur d'Alene River near Cataldo, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1912.....	2,340	1.92	26.14	1,700,000	2,500	2.05	27.95	1,820,000
1921.....	3,450	2.83	38.47	2,500,000	3,410	2.80	37.92	2,470,000
1922.....	2,040	1.67	22.75	1,480,000	1,830	1.50	20.35	1,320,000
1923.....	2,520	2.07	27.99	1,820,000	2,550	2.09	28.39	1,850,000
1924.....	1,850	1.52	20.65	1,340,000	1,960	1.61	21.90	1,420,000
1925.....	3,140	2.57	34.97	2,280,000	3,010	2.47	33.50	2,180,000
1926.....	1,390	1.14	15.42	1,000,000	1,780	1.46	19.79	1,290,000
1927.....	3,210	2.63	35.67	2,320,000	3,700	3.03	41.15	2,680,000
1928.....	3,270	2.68	36.41	2,370,000	2,360	1.93	26.33	1,720,000
1929.....	1,400	1.15	15.56	1,010,000	1,370	1.12	15.28	993,000
1930.....	1,260	1.03	13.99	910,000	1,250	1.02	13.96	908,000
1931.....	1,560	1.28	17.29	1,130,000	1,560	1.28	17.31	1,130,000
1932.....	3,060	2.51	34.18	2,220,000	3,410	2.80	38.06	2,470,000
1933.....	3,090	2.53	34.34	2,240,000	4,020	3.30	44.69	2,910,000
1934.....	3,862	3.17	42.90	2,796,000	2,857	2.34	31.77	2,069,000
1935.....	2,780	2.28	30.93	2,013,000	2,494	2.04	27.76	1,805,000
1936.....	1,997	1.64	22.30	1,450,000	2,004	1.64	22.37	1,455,000
1937.....	1,799	1.47	20.01	1,303,000	2,076	1.70	23.08	1,503,000
1938.....	2,628	2.15	29.23	1,903,000	2,385	1.95	26.54	1,727,000
Highest.....	3,862	3.17	42.90	2,796,000	4,020	3.30	44.69	2,910,000
Average.....	2,455	2.01	27.33	1,778,000	2,449	2.01	27.27	1,775,000
Lowest.....	1,260	1.03	13.99	910,000	1,250	1.02	13.96	908,000

Spokane River at Post Falls, Idaho

Location.- Water-stage recorder, lat. 47°42', long. 116°58', in sec. 4, T. 50 N., R. 5 W., 1,500 feet downstream from power plant of Washington Water Power Co., 3,300 feet downstream from intake of Spokane Valley Farm Co's canal, and 1 mile west of village of Post Falls. Zero of gage is 2,000 feet above mean sea level.

Drainage area.- 3,880 square miles.

Records available.- January 1913 to September 1938.

Extremes.- Maximum discharge, 50,100 second-feet Dec. 25, 1933; minimum, 422 second-feet Nov. 26, 1935, Oct. 14, 1937; minimum gage height, 65.32 feet Oct. 14, 1937

Remarks.- Records good. Spokane Valley Farms Co.'s canal diverts water at point 3,300 feet above station for irrigation. Flow partly regulated by storage and release of water at Coeur d'Alene Lake. Monthly figures showing discharge in second-feet per square mile and run-off in inches are not published, owing to regulation by Coeur d'Alene Lake. The yearly figures represent more nearly the natural flow.

Monthly discharge of Spokane River at Post Falls, Idaho

Month	Observed				Diversion through Spokane Valley Farms Co's Canal (acre-feet)	Adjusted for diversion			
	Discharge in second-feet			Run-off in acre-feet		Run-off in acre-feet	Discharge in second-feet		Run-off in inches
	Maximum	Minimum	Mean				Mean	Per square mile	
1912-13									
October..	-	-	-	-	2,757	124,000	2,020	-	-
November.	-	-	-	-	2,618	240,000	4,030	-	-
December.	-	-	-	-	2,580	216,000	3,510	-	-
January..	4,880	2,520	3,918	240,893	2,370	243,263	3,956	-	-
February.	5,090	2,760	3,706	205,825	2,287	208,112	3,747	-	-
March....	7,880	4,290	5,648	347,286	2,868	350,154	5,695	-	-
April....	28,700	8,160	19,560	1,164,139	3,582	1,167,721	19,620	-	-
May.....	31,500	19,900	25,640	1,576,264	4,276	1,580,540	25,710	-	-
June.....	31,500	10,400	20,780	1,236,496	4,165	1,240,661	20,850	-	-
July.....	10,400	1,470	4,542	279,293	4,304	283,597	4,612	-	-
August...	1,560	1,380	1,479	90,922	4,304	95,226	1,549	-	-
September	1,770	1,300	1,409	83,861	3,929	87,790	1,475	-	-
The year	31,500	1,300	-	-	40,040	5,837,064	8,060	2.08	28.24

Monthly discharge of Spokane River at Post Falls, Idaho--Continued

Month	Observed				Diversion through Spokane Valley Farms Co's Canal (acre-feet)	Adjusted for diversion			
	Discharge in second-feet			Run-off in acre-feet		Run-off in acre-feet	Discharge in second-feet		Run-off in inches
	Maximum	Minimum	Mean				Mean	Per square mile	
1913-14									
October..	4,900	1,380	2,323	142,830	3,743	146,573	2,384	-	-
November.	5,290	1,560	3,593	213,779	2,977	216,756	3,643	-	-
December.	4,170	1,300	2,274	139,795	3,203	142,998	2,326	-	-
January..	7,490	1,560	2,700	166,017	3,507	169,524	2,757	-	-
February.	6,780	3,200	5,308	294,803	3,229	298,032	5,366	-	-
March....	13,500	6,780	10,010	615,213	3,838	619,051	10,070	-	-
April....	20,600	2,240	16,260	967,736	4,310	972,046	16,330	-	-
May.....	17,600	8,760	15,210	935,306	4,735	940,041	15,290	-	-
June.....	7,740	1,470	4,522	269,098	4,582	273,680	4,599	-	-
July.....	2,240	1,220	1,515	93,124	4,735	97,859	1,592	-	-
August...	1,560	1,080	1,386	85,210	4,735	89,945	1,463	-	-
September	1,660	884	1,198	71,294	4,580	75,874	1,275	-	-
The year	20,600	884	5,517	3,994,205	48,174	4,042,379	5,584	1.44	19.54
1914-15									
October..	1,660	875	1,224	75,243	2,757	78,000	1,269	-	-
November.	5,090	920	4,126	245,534	2,265	247,799	4,164	-	-
December.	4,710	1,300	3,128	192,357	2,152	194,509	3,163	-	-
January..	2,770	1,150	1,748	107,504	2,077	109,581	1,782	-	-
February.	1,770	970	1,308	72,655	1,745	74,400	1,339	-	-
March....	10,100	1,150	5,469	336,258	2,333	338,591	5,507	-	-
April....	11,900	8,240	10,870	646,572	3,352	649,924	10,930	-	-
May.....	11,300	1,770	6,675	410,400	4,481	414,881	6,748	-	-
June.....	9,290	1,880	4,325	257,355	5,236	262,591	4,413	-	-
July.....	2,770	1,380	2,053	126,248	5,411	131,659	2,141	-	-
August...	1,770	1,380	1,555	95,623	5,578	101,201	1,646	-	-
September	1,560	1,380	1,488	88,542	5,379	93,921	1,578	-	-
The year	11,900	875	3,666	2,654,291	42,766	2,697,057	3,725	.960	13.03
1915-16									
October..	1,560	1,220	1,445	88,840	2,287	91,127	1,482	-	-
November.	2,370	1,380	1,521	90,486	2,777	93,263	1,568	-	-
December.	3,050	2,000	2,182	134,142	2,616	136,758	2,224	-	-
January..	4,710	2,120	2,572	158,122	1,501	159,623	2,596	-	-
February.	7,490	2,770	5,028	289,230	1,587	290,817	5,056	-	-
March....	25,200	5,900	14,320	880,364	3,537	883,901	14,380	-	-
April....	23,600	19,500	21,450	1,276,165	4,272	1,280,437	21,520	-	-
May.....	27,900	18,000	22,280	1,370,182	5,712	1,375,894	22,370	-	-
June.....	19,800	16,900	18,270	1,087,140	5,984	1,093,124	18,370	-	-
July.....	16,600	2,370	10,720	659,068	5,873	664,941	10,820	-	-
August...	2,240	1,560	1,678	103,180	6,186	109,366	1,779	-	-
September	1,560	1,470	1,527	90,863	4,677	95,540	1,606	-	-
The year	27,900	1,220	8,579	6,227,782	47,009	6,274,791	8,644	2.23	30.35
1916-17									
October..	1,560	1,380	1,490	91,636	3,596	95,232	1,548	-	-
November.	2,120	1,380	1,732	103,061	2,348	105,409	1,772	-	-
December.	1,880	1,660	1,798	110,579	1,722	112,301	1,826	-	-
January..	1,880	1,770	1,862	114,506	0	114,506	1,862	-	-
February.	3,350	1,770	2,676	148,621	2,239	150,860	2,716	-	-
March....	3,670	2,000	2,652	163,061	2,358	165,419	2,690	-	-
April....	25,200	3,050	14,110	839,782	2,354	842,136	14,150	-	-
May.....	39,800	23,200	31,750	1,952,331	5,096	1,957,427	31,830	-	-
June.....	37,000	16,300	25,570	1,521,322	6,141	1,527,463	25,670	-	-
July.....	15,700	2,280	5,885	361,864	7,160	369,024	6,001	-	-
August...	2,410	1,920	2,133	131,167	5,978	137,145	2,230	-	-
September	2,040	1,700	1,841	109,547	3,660	113,207	1,902	-	-
The year	39,800	1,380	7,801	5,647,477	42,652	5,690,129	7,860	2.03	27.55
1917-18									
October..	1,980	1,420	1,610	99,015	3,074	102,089	1,660	-	-
November.	1,730	960	1,328	79,002	2,380	81,382	1,368	-	-
December.	29,200	960	6,343	390,010	2,460	392,470	6,383	-	-
January..	39,200	10,400	23,550	1,447,934	1,845	1,449,779	23,580	-	-
February.	10,700	6,210	8,849	491,445	2,221	493,666	8,889	-	-
March....	15,100	5,070	7,568	465,342	3,074	468,416	7,618	-	-
April....	19,400	14,700	17,190	1,022,678	3,570	1,026,248	17,250	-	-
May.....	19,400	11,300	15,830	973,091	5,534	978,625	15,920	-	-
June.....	11,000	1,620	7,347	437,157	6,545	443,702	7,457	-	-
July.....	2,390	1,090	1,586	97,527	7,379	104,906	1,706	-	-
August...	1,420	1,090	1,212	74,519	6,764	81,283	1,322	-	-
September	1,520	1,090	1,238	73,666	4,165	77,831	1,308	-	-
The year	39,200	960	7,806	5,651,386	49,011	5,700,397	7,874	2.03	27.55

Monthly discharge of Spokane River at Post Falls, Idaho--Continued

Month	Observed				Diversion through Spokane Valley Farms Co's Canal (acre-feet)	Adjusted for diversion			
	Discharge in second-feet			Run-off in acre-feet		Run-off in acre-feet	Discharge in second-feet		Run-off in inches
	Maximum	Minimum	Mean				Mean	Per square mile	
1918-19									
October..	1,850	1,160	1,284	78,962	3,074	82,036	1,334	-	-
November.	2,110	1,240	1,763	104,926	2,380	107,306	1,803	-	-
December.	7,050	1,850	3,601	221,435	2,460	223,895	3,641	-	-
January..	14,400	1,420	5,174	318,129	1,845	319,974	5,204	-	-
February.	11,600	2,110	5,842	324,456	2,221	326,677	5,882	-	-
March....	13,800	5,070	7,995	491,583	3,074	494,657	8,045	-	-
April....	24,500	14,400	19,800	1,178,380	3,570	1,181,950	19,860	-	-
May.....	25,800	16,100	19,160	1,177,983	5,534	1,183,517	19,250	-	-
June.....	16,100	2,390	7,575	450,764	7,140	*457,904	7,695	-	-
July.....	3,120	1,330	1,701	104,588	7,993	112,581	1,831	-	-
August...	1,520	1,020	1,177	72,357	7,379	79,736	1,297	-	-
September	1,330	1,020	1,127	67,061	*4,707	71,768	1,206	-	-
The year	25,800	1,020	6,341	4,590,624	*51,377	*4,642,001	*6,412	1.65	22.39
1919-20									
October..	1,240	960	1,141	70,155	3,257	73,412	1,194	-	-
November.	1,330	1,090	1,155	68,727	2,293	71,020	1,194	-	-
December.	1,330	1,090	1,225	75,352	405	75,757	1,232	-	-
January..	1,420	1,160	1,266	77,871	0	77,871	1,266	-	-
February.	4,130	1,240	1,967	113,137	0	113,137	1,967	-	-
March....	11,300	1,240	5,663	348,198	2,886	351,084	5,710	-	-
April....	13,100	5,070	9,737	579,412	4,159	583,571	9,807	-	-
May.....	19,400	12,500	15,650	962,380	5,933	968,313	15,750	-	-
June.....	12,800	2,820	7,907	470,479	7,232	477,711	8,029	-	-
July.....	4,500	860	1,730	106,354	8,265	114,619	1,864	-	-
August...	1,420	1,020	1,225	75,332	7,876	83,208	1,353	-	-
September	1,420	960	1,101	65,494	3,578	69,072	1,161	-	-
The year	19,400	860	4,150	3,012,891	45,884	3,058,775	4,213	1.09	14.83
1920-21									
October..	4,310	960	2,501	153,798	2,577	156,375	2,543	-	-
November.	8,380	1,090	3,852	229,210	2,289	231,499	3,890	-	-
December.	8,280	1,650	4,213	259,061	1,926	260,987	4,244	-	-
January..	13,700	6,160	9,675	594,902	2,025	596,927	9,708	-	-
February.	13,300	4,420	8,725	484,542	1,607	486,149	8,754	-	-
March....	18,800	9,560	13,980	859,557	1,664	861,221	14,010	-	-
April....	20,200	14,100	16,530	983,802	2,055	985,857	16,560	-	-
May.....	25,400	17,400	21,880	1,345,587	3,719	1,349,306	21,940	-	-
June.....	19,200	1,840	10,090	600,655	8,856	609,511	10,240	-	-
July.....	4,240	940	1,428	87,828	8,793	96,621	1,571	-	-
August...	1,320	1,020	1,154	70,969	8,182	79,151	1,287	-	-
September	1,160	940	1,054	62,737	5,349	68,086	1,144	-	-
The year	25,400	940	7,918	5,732,648	49,042	5,781,690	7,986	2.06	27.95
1921-22									
October..	-	990	1,115	68,549	2,418	70,967	1,154	-	-
November.	3,380	-	1,547	92,033	1,204	93,237	1,567	-	-
December.	8,820	4,780	6,422	394,889	813	395,702	6,435	-	-
January..	4,550	1,190	2,217	136,304	0	136,304	2,217	-	-
February.	1,540	1,080	1,268	70,413	0	70,413	1,268	-	-
March....	4,210	1,380	2,284	140,430	0	140,430	2,284	-	-
April....	14,100	4,550	10,350	615,689	1,452	617,141	10,370	-	-
May.....	24,900	14,100	19,590	1,204,364	5,724	1,210,088	19,680	-	-
June.....	18,800	1,330	11,780	701,117	8,592	709,709	11,920	-	-
July.....	4,080	930	1,316	80,896	9,501	90,397	1,471	-	-
August...	1,080	908	992	60,978	8,626	69,604	1,132	-	-
September	1,040	908	973	57,900	4,915	62,815	1,056	-	-
The year	24,900	908	5,005	3,623,562	43,245	3,666,807	5,065	1.31	17.78
1922-23									
October..	1,200	951	1,034	63,594	2,323	65,917	1,072	-	-
November.	1,530	1,220	1,347	80,152	845	80,997	1,361	-	-
December.	3,040	1,090	1,565	96,238	0	96,238	1,565	-	-
January..	9,920	3,540	6,773	416,430	0	416,430	6,773	-	-
February.	4,310	-	2,368	131,484	0	131,484	2,368	-	-
March....	7,000	2,210	3,410	209,693	0	209,693	3,410	-	-
April....	20,000	9,000	15,870	944,132	0	944,132	15,870	-	-
May.....	21,000	16,200	19,000	1,168,066	1,751	1,169,817	19,030	-	-
June.....	17,400	3,500	13,420	798,347	10,703	809,050	13,600	-	-
July.....	5,930	918	2,249	138,313	13,730	152,043	2,472	-	-
August...	1,400	878	1,070	65,802	12,490	78,292	1,273	-	-
September	-	-	1,272	75,669	5,377	81,046	1,362	-	-
The year	21,000	878	5,785	4,187,920	47,219	4,235,139	5,850	1.51	20.49

* Previously published in error.

Monthly discharge of Spokane River at Post Falls, Idaho--Continued

Month	Observed				Diversion through Spokane Valley Farms Co's Canal (acre-feet)	Adjusted for diversion			
	Discharge in second-feet			Run-off in acre-feet		Run-off in acre-feet	Discharge in second-feet		Run-off in inches
	Maximum	Minimum	Mean				Mean	Per square mile	
1923-24									
October..	1,220	943	1,100	67,638	871	68,509	1,114	-	-
November.	-	1,140	1,375	81,818	0	81,818	1,375	-	-
December.	5,230	1,160	2,330	143,266	0	143,266	2,330	-	-
January..	2,660	1,440	1,726	106,155	0	106,155	1,726	-	-
February.	12,600	4,700	9,918	570,486	0	570,486	9,918	-	-
March....	9,170	1,890	6,488	398,916	0	398,916	6,488	-	-
April....	12,000	2,050	7,962	473,792	4,838	478,630	8,043	-	-
May.....	17,400	3,670	14,540	894,110	11,564	905,674	14,730	-	-
June.....	4,340	1,050	2,419	143,921	14,146	158,067	2,657	-	-
July.....	1,480	980	1,179	72,476	14,221	86,697	1,410	-	-
August...	1,380	950	1,149	70,669	13,609	84,278	1,370	-	-
September	1,090	895	974	57,969	5,629	63,598	1,069	-	-
The year	17,400	895	4,244	3,081,216	64,878	3,146,094	4,334	1.12	15.24
1924-25									
October..	1,080	845	948	58,264	0	58,264	948	-	-
November.	6,760	870	1,949	115,974	0	115,974	1,949	-	-
December.	8,790	1,340	4,974	305,812	0	305,812	4,974	-	-
January..	6,930	-	3,785	232,701	0	232,701	3,785	-	-
February.	22,800	8,790	14,660	814,393	0	814,393	14,660	-	-
March....	12,700	7,920	10,190	626,261	0	626,261	10,190	-	-
April....	30,600	13,100	23,180	1,379,107	6,278	1,385,385	23,290	-	-
May.....	20,000	16,600	19,070	1,172,826	11,213	1,184,039	19,250	-	-
June.....	15,800	2,680	8,321	495,134	11,284	506,418	8,511	-	-
July.....	2,680	840	1,412	86,803	15,481	102,284	1,664	-	-
August...	1,710	1,190	1,493	91,815	14,815	106,630	1,734	-	-
September	1,410	1,130	1,276	75,907	6,668	82,575	1,338	-	-
The year	30,600	840	7,535	5,454,997	65,739	5,520,736	7,626	1.97	26.73
1925-26									
October..	1,520	1,000	1,228	75,491	0	75,491	1,228	-	-
November.	1,580	1,030	1,168	69,501	0	69,501	1,168	-	-
December.	2,450	1,010	1,377	84,655	0	84,655	1,377	-	-
January..	3,440	1,260	2,027	124,661	0	124,661	2,027	-	-
February.	7,540	2,840	5,940	329,911	0	329,911	5,940	-	-
March....	8,520	5,930	7,145	439,359	2,473	441,832	7,185	-	-
April....	14,800	6,470	10,150	604,007	8,269	612,276	10,290	-	-
May.....	13,100	1,590	6,625	407,345	13,301	420,646	6,841	-	-
June.....	2,110	1,320	1,584	94,255	14,634	108,889	1,830	-	-
July.....	1,880	1,080	1,463	89,970	14,414	104,384	1,697	-	-
August...	1,480	672	991	60,944	14,051	74,995	1,220	-	-
September	1,420	630	1,006	59,867	5,580	65,447	1,100	-	-
The year	14,800	630	3,370	2,439,966	72,722	2,512,688	3,471	.895	12.15
1926-27									
October..	4,180	1,140	1,743	107,147	0	107,147	1,743	-	-
November.	10,400	2,440	4,605	274,036	0	274,036	4,605	-	-
December.	16,200	4,100	10,400	639,749	0	639,749	10,400	-	-
January..	6,710	2,280	4,965	305,316	0	305,316	4,965	-	-
February.	-	3,910	7,035	390,704	0	390,704	7,035	-	-
March....	-	7,610	8,730	536,807	3,471	540,278	8,786	-	-
April....	23,800	9,080	12,180	725,058	5,496	730,554	12,270	-	-
May.....	27,900	20,000	23,850	1,466,578	9,921	1,476,499	24,010	-	-
June.....	21,400	11,000	17,610	1,048,066	14,364	1,062,430	17,850	-	-
July.....	9,290	1,150	2,560	157,408	14,705	172,113	2,799	-	-
August...	1,740	1,310	1,580	97,150	15,068	112,218	1,825	-	-
September	-	1,150	1,424	84,734	5,373	90,107	1,514	-	-
The year	27,900	1,140	8,057	5,832,753	68,398	5,901,151	8,151	2.10	28.50
1927-28									
October..	9,970	1,660	5,460	335,702	0	335,702	5,460	-	-
November.	22,400	4,200	13,130	781,190	0	781,190	13,100	-	-
December.	23,300	6,660	14,920	917,355	0	917,355	14,900	-	-
January..	12,900	4,940	8,732	536,906	0	536,906	8,730	-	-
February.	7,390	3,550	6,220	357,778	0	357,778	6,220	-	-
March....	17,400	1,890	10,930	672,178	575	672,753	10,940	-	-
April....	19,600	12,400	15,230	906,248	4,013	910,261	15,300	-	-
May.....	26,300	18,200	22,620	1,390,810	11,671	1,402,481	22,810	-	-
June.....	18,900	2,060	7,806	464,509	14,864	479,373	8,056	-	-
July.....	2,740	1,090	1,524	93,719	15,624	109,343	1,778	-	-
August...	1,190	813	1,003	61,644	14,214	75,858	1,234	-	-
September	1,120	853	913	54,309	6,129	60,438	1,016	-	-
The year	26,300	813	9,053	6,572,348	67,090	6,639,438	9,146	2.36	32.12

Monthly discharge of Spokane River at Post Falls, Idaho--Continued

Month	Observed				Diversion through Spokane Valley Farms Co.'s Canal (acre-feet)	Adjusted for diversion			
	Discharge in second-feet			Run-off in acre-feet		Run-off in acre-feet	Discharge in second-feet		Run-off in inches
	Maximum	Minimum	Mean				Mean	Per square mile	
1928-29									
October..	1,320	820	1,097	67,448	0	67,448	1,097	-	-
November.	1,320	965	1,149	68,390	0	68,390	1,149	-	-
December.	1,650	795	1,189	73,121	0	73,121	1,189	-	-
January..	1,420	900	1,087	66,843	0	66,843	1,087	-	-
February.	1,110	-	1,025	56,906	0	56,906	1,025	-	-
March....	8,000	1,040	1,751	107,683	0	107,683	1,751	-	-
April....	12,600	3,400	7,065	420,397	1,311	421,708	7,087	-	-
May.....	14,000	11,300	13,090	805,091	9,376	814,467	13,240	-	-
June.....	10,700	1,780	5,059	301,051	12,403	313,454	5,267	-	-
July.....	2,450	795	1,187	72,982	12,833	85,815	1,396	-	-
August...	1,590	770	1,113	68,430	13,583	82,013	1,334	-	-
September	1,530	1,070	1,242	73,924	5,591	79,515	1,336	-	-
The year	14,000	770	3,014	2,182,266	55,097	2,237,363	3,090	0.796	10.80
1929-30									
October..	1,230	820	960	59,018	0	59,018	960	-	-
November.	1,320	900	972	57,828	0	57,828	972	-	-
December.	1,150	845	935	57,461	0	57,461	935	-	-
January..	1,650	900	1,307	80,370	0	80,370	1,310	-	-
February.	6,910	965	2,487	138,129	0	138,129	2,490	-	-
March....	10,200	2,040	3,873	238,155	436	238,591	3,880	-	-
April....	12,000	10,200	11,270	670,810	6,785	677,595	11,380	-	-
May.....	11,300	3,830	7,055	433,825	12,004	445,829	7,250	-	-
June.....	6,250	1,370	3,531	210,129	12,014	222,143	3,733	-	-
July.....	1,840	770	1,018	62,588	13,069	75,657	1,231	-	-
August...	1,230	965	1,108	68,142	14,396	82,538	1,342	-	-
September	1,190	1,000	1,071	63,729	5,691	69,420	1,167	-	-
The year	12,000	770	2,956	2,140,184	64,395	2,204,579	3,045	.785	10.65
1930-31									
October..	1,110	900	1,020	62,698	0	62,698	1,020	-	-
November.	1,110	900	965	57,441	0	57,441	965	-	-
December.	1,190	965	1,015	62,400	0	62,400	1,010	-	-
January..	1,190	930	996	61,260	0	61,260	996	-	-
February.	4,320	930	1,913	106,255	0	106,255	1,910	-	-
March....	12,000	1,910	6,776	416,628	561	417,189	6,785	-	-
April....	15,600	10,900	13,550	806,083	5,161	811,244	13,640	-	-
May.....	14,800	3,500	11,000	676,185	12,821	689,006	11,210	-	-
June.....	3,500	1,000	2,005	119,286	14,221	133,507	2,244	-	-
July.....	1,070	820	935	57,471	15,070	72,541	1,180	-	-
August...	1,420	820	1,072	65,940	15,606	81,546	1,326	-	-
September	1,280	820	1,023	60,883	6,405	67,288	1,131	-	-
The year	15,600	820	3,526	2,552,530	69,845	2,622,375	3,622	.934	12.67
1931-32									
October..	1,370	820	1,045	64,225	0	64,225	1,045	-	-
November.	965	795	882	52,512	0	52,512	882	-	-
December.	965	900	910	55,964	0	55,964	910	-	-
January..	4,320	1,190	2,582	158,737	0	158,737	2,582	-	-
February.	8,900	1,480	2,430	139,755	0	139,755	2,430	-	-
March....	16,400	7,830	11,790	725,038	0	725,038	11,790	-	-
April....	28,900	17,300	23,770	1,414,215	1,341	1,415,556	23,790	-	-
May.....	32,400	22,700	28,990	1,782,347	10,631	1,792,978	29,160	-	-
June.....	21,300	2,820	12,500	743,881	14,918	758,799	12,750	-	-
July.....	3,310	930	1,643	101,048	15,642	116,690	1,897	-	-
August...	965	795	847	52,066	14,820	66,886	1,088	-	-
September	965	795	848	50,489	7,902	58,391	981	-	-
The year	32,400	795	7,356	5,340,277	65,254	5,405,531	7,446	1.92	26.13
1932-33									
October..	1,150	820	988	60,744	0	60,744	988	-	-
November.	9,450	795	4,931	293,415	0	293,415	4,930	-	-
December.	8,900	1,150	4,667	286,988	0	286,988	4,670	-	-
January..	7,450	1,650	4,533	278,717	0	278,717	4,530	-	-
February.	3,400	1,480	2,483	137,891	0	137,891	2,480	-	-
March....	9,550	1,910	5,588	343,577	964	344,541	5,604	-	-
April....	27,400	9,880	14,210	845,712	4,340	850,052	14,280	-	-
May.....	28,900	20,000	22,670	1,393,587	13,170	1,406,757	22,880	-	-
June.....	27,000	12,400	21,830	1,298,777	14,824	1,313,601	22,080	-	-
July.....	11,700	845	3,119	191,792	13,609	205,401	3,340	-	-
August...	1,040	795	839	51,560	14,731	66,291	1,079	-	-
September	1,150	770	916	54,496	7,095	61,591	1,035	-	-
The year	28,900	770	7,234	5,237,256	68,733	5,305,989	7,329	1.89	25.65

Monthly discharge of Spokane River at Post Falls, Idaho--Continued

Month	Observed				Diversion through Spokane Valley Farms Co.'s Canal (acre-feet)	Adjusted for diversion			
	Discharge in second-feet			Run-off in acre-feet		Run-off in acre-feet	Discharge in second-feet		Run-off in inches
	Maximum	Minimum	Mean				Mean	Per square mile	
1933-34									
October..	8,290	965	2,720	167,276	0	167,276	2,720	-	-
November.	12,000	2,170	6,537	388,959	0	388,959	6,537	-	-
December.	49,800	2,040	23,660	1,454,995	0	1,454,995	23,660	-	-
January..	33,500	17,700	24,930	1,533,025	0	1,533,025	24,930	-	-
February.	19,800	9,220	13,750	763,577	0	763,577	13,750	-	-
March....	20,400	8,900	12,730	782,479	0	782,479	12,730	-	-
April....	26,300	17,400	21,170	1,259,702	4,320	1,264,022	21,240	-	-
May.....	17,000	3,500	9,156	562,988	15,864	578,852	9,414	-	-
June.....	4,880	745	2,113	125,722	15,862	141,584	2,380	-	-
July.....	1,190	720	914	56,202	15,275	71,477	1,162	-	-
August...	989	610	822	50,541	14,670	65,211	1,061	-	-
September	948	632	721	42,908	6,857	49,765	836	-	-
The year	49,800	610	9,929	7,188,374	72,848	7,261,222	10,030	2.59	35.15
1934-35									
October..	1,070	626	793	48,783	0	48,783	793	-	-
November.	6,320	1,030	4,113	244,721	0	244,721	4,113	-	-
December.	8,010	906	4,355	267,780	0	267,780	4,355	-	-
January..	7,550	3,820	5,470	336,337	0	336,337	5,470	-	-
February.	7,550	5,260	6,517	361,924	0	361,924	6,517	-	-
March....	11,100	4,000	7,888	485,018	561	485,579	7,897	-	-
April....	23,800	7,780	14,670	873,124	4,080	877,204	14,740	-	-
May.....	25,500	20,200	23,050	1,417,388	14,949	1,432,337	23,290	-	-
June.....	19,500	1,810	9,810	583,736	16,620	600,356	10,090	-	-
July.....	2,960	782	1,453	89,359	16,580	105,939	1,723	-	-
August...	1,400	808	1,004	61,714	15,947	77,661	1,263	-	-
September	1,450	1,000	1,246	74,142	7,567	81,709	1,373	-	-
The year	25,500	626	6,691	4,844,026	76,304	4,920,330	6,796	1.75	23.75
1935-36									
October..	1,430	840	1,055	64,879	0	64,879	1,055	-	-
November.	920	452	627	37,325	0	37,325	627	-	-
December.	1,000	566	784	48,179	0	48,179	784	-	-
January..	2,610	636	1,632	100,374	0	100,374	1,632	-	-
February.	2,280	1,520	1,972	113,415	0	113,415	1,972	-	-
March....	7,780	1,380	5,773	354,942	0	354,942	5,773	-	-
April....	35,400	3,220	16,980	1,010,261	0	1,010,261	16,980	-	-
May.....	31,700	12,300	21,990	1,352,331	14,707	1,367,038	22,230	-	-
June.....	11,700	920	5,249	312,357	17,129	329,486	5,537	-	-
July.....	2,000	629	1,059	65,107	16,366	81,473	1,325	-	-
August...	1,380	746	1,070	65,780	14,965	80,745	1,313	-	-
September	1,430	906	1,151	68,501	6,609	75,110	1,262	-	-
The year	35,400	452	4,950	3,593,451	69,776	3,663,227	5,046	1.30	17.69
1936-37									
October..	1,520	1,080	1,375	84,536	0	84,536	1,375	-	-
November.	1,000	584	787	46,840	0	46,840	787	-	-
December.	998	648	811	49,849	0	49,849	811	-	-
January..	1,700	820	1,330	81,759	0	81,759	1,330	-	-
February.	1,300	850	1,075	59,718	0	59,718	1,075	-	-
March....	5,260	1,100	2,587	159,055	0	159,055	2,587	-	-
April....	18,600	6,000	12,420	739,041	0	739,041	12,420	-	-
May.....	23,100	16,200	20,320	1,249,587	9,338	1,258,925	20,470	-	-
June.....	15,400	3,060	7,514	447,134	15,822	462,956	7,780	-	-
July.....	3,220	733	1,321	81,235	16,332	97,567	1,587	-	-
August...	1,300	726	979	60,212	15,477	75,689	1,231	-	-
September	1,470	990	1,283	76,320	6,752	83,072	1,396	-	-
The year	23,100	584	4,331	3,135,286	63,721	3,199,007	4,419	1.14	15.47
1937-38									
October..	1,600	596	952	58,542	0	58,542	952	-	-
November.	7,780	1,000	2,029	120,714	0	120,714	2,029	-	-
December.	8,730	2,100	5,542	340,740	0	340,740	5,542	-	-
January..	9,740	2,830	7,406	455,385	0	455,385	7,406	-	-
February.	6,430	2,680	4,463	247,855	0	247,855	4,463	-	-
March....	13,600	4,090	9,567	588,278	0	588,278	9,567	-	-
April....	33,500	8,850	18,630	1,108,304	934	1,109,238	18,640	-	-
May.....	27,300	15,400	19,290	1,186,314	11,092	1,197,406	19,470	-	-
June.....	15,100	1,190	7,111	423,114	15,751	433,865	7,375	-	-
July.....	2,340	778	1,303	80,089	16,812	96,901	1,576	-	-
August...	1,220	610	921	56,634	16,259	72,893	1,185	-	-
September	1,340	899	1,119	66,583	7,751	74,334	1,249	-	-
The year	33,500	596	6,537	4,732,552	68,599	4,801,151	6,632	1.71	23.20

Yearly discharge of Spokane River at Post Falls, Idaho

Year	Observed		Diversion through Spokane Valley Farms Co.'s Canal (acre-feet)	Adjusted for diversion			
	Mean discharge in second-feet	Run-off in acre-feet		Run-off in acre-feet	Discharge in second-feet: Mean	Discharge in second-feet: Per square mile	Run-off in inches
Year ending Sept. 30							
1914.....	5,517	3,994,000	48,170	4,042,000	5,584	1.44	19.54
1915.....	3,666	2,654,000	42,770	2,697,000	3,725	.960	13.03
1916.....	8,579	6,228,000	47,010	6,275,000	8,644	2.23	30.35
1917.....	7,801	5,647,000	42,650	5,690,000	7,860	2.03	27.55
1918.....	7,806	5,651,000	49,010	5,700,000	7,874	2.03	27.55
1919.....	6,341	4,591,000	*51,380	*4,642,000	*6,412	1.65	22.39
1920.....	4,150	3,013,000	45,880	3,059,000	4,213	1.09	14.83
1921.....	7,918	5,733,000	49,040	5,782,000	7,986	2.06	27.95
1922.....	5,005	3,624,000	43,250	3,667,000	5,065	1.31	17.78
1923.....	5,785	4,188,000	47,220	4,235,000	5,850	1.51	20.49
1924.....	4,244	3,081,000	64,880	3,146,000	4,334	1.12	15.24
1925.....	7,535	5,455,000	65,740	5,521,000	7,626	1.97	26.73
1926.....	3,370	2,440,000	72,720	2,513,000	3,471	.895	12.15
1927.....	8,057	5,833,000	68,400	5,901,000	8,151	2.10	28.50
1928.....	9,053	6,572,000	67,090	6,639,000	9,146	2.36	32.12
1929.....	3,014	2,182,000	55,100	2,237,000	3,090	.796	10.80
1930.....	2,956	2,140,000	64,400	2,204,000	3,045	.785	10.65
1931.....	3,526	2,553,000	69,850	2,623,000	3,622	.934	12.67
1932.....	7,356	5,340,000	65,250	5,405,000	7,446	1.92	26.13
1933.....	7,234	5,237,000	68,730	5,306,000	7,329	1.89	25.65
1934.....	9,929	7,188,000	72,850	7,261,000	10,030	2.59	35.15
1935.....	6,691	4,844,000	76,300	4,920,000	6,796	1.75	23.75
1936.....	4,950	3,593,000	69,780	3,663,000	5,046	1.30	17.69
1937.....	4,331	3,135,000	63,720	3,199,000	4,419	1.14	15.47
1938.....	6,537	4,733,000	68,600	4,802,000	6,632	1.71	23.20
Highest....	9,929	7,188,000	76,300	7,261,000	10,030	2.59	35.15
Average....	6,054	4,386,000	59,190	4,445,000	6,136	1.58	21.49
Lowest.....	2,956	2,140,000	42,650	2,204,000	3,045	.785	10.65
Calendar year							
1913.....	7,903	5,721,000	42,010	5,763,000	7,961	2.05	27.82
1914.....	5,540	4,011,000	45,430	4,056,000	5,603	1.44	19.54
1915.....	3,391	2,455,000	43,270	2,498,000	3,450	.889	12.06
1916.....	8,568	6,220,000	47,000	6,267,000	8,632	2.22	30.21
1917.....	8,164	5,910,000	42,900	5,953,000	8,223	2.12	28.77
1918.....	7,581	5,489,000	49,010	5,538,000	7,649	1.97	26.73
1919.....	6,077	4,400,000	*49,420	*4,449,000	*6,145	1.58	21.44
1920.....	4,740	3,441,000	46,720	3,488,000	4,804	1.24	16.88
1921.....	7,799	5,646,000	46,680	5,693,000	7,863	2.03	27.55
1922.....	4,569	3,308,000	41,980	3,350,000	4,627	1.19	16.15
1923.....	5,858	4,241,000	44,920	4,286,000	5,920	1.53	20.76
1924.....	4,502	3,269,000	64,010	3,333,000	4,591	1.18	16.06
1925.....	7,189	5,205,000	65,740	5,271,000	7,280	1.88	25.51
1926.....	4,463	3,231,000	72,720	3,304,000	4,564	1.18	16.01
1927.....	9,456	6,846,000	68,400	6,914,000	9,551	2.46	33.38
1928.....	6,539	4,747,000	67,090	4,814,000	6,632	1.71	23.27
1929.....	2,966	2,148,000	55,100	2,203,000	3,043	.784	10.64
1930.....	2,968	2,148,000	64,400	2,212,000	3,057	.788	10.69
1931.....	3,512	2,543,000	69,850	2,613,000	3,609	.930	12.62
1932.....	8,002	5,809,000	65,250	5,874,000	8,091	2.09	28.44
1933.....	9,127	6,607,000	68,730	6,676,000	9,222	2.38	32.30
1934.....	7,926	5,738,000	72,850	5,811,000	8,027	2.07	28.09
1935.....	6,123	4,433,000	76,300	4,509,000	6,229	1.61	21.85
1936.....	4,992	3,624,000	69,780	3,694,000	5,089	1.31	17.83
1937.....	4,799	3,474,000	63,720	3,538,000	4,887	1.26	17.10
1938.....	6,135	4,442,000	69,400	4,511,000	6,231	1.61	21.85
Highest....	9,456	6,846,000	76,300	6,914,000	9,551	2.46	33.38
Average....	6,111	4,427,000	58,180	4,485,000	6,192	1.60	21.68
Lowest.....	2,966	2,148,000	41,980	2,203,000	3,043	.784	10.64

* Previously published in error.

North Fork of Coeur d'Alene River near Enaville, Idaho

Location.- Staff gage, lat. 47°37', long. 116°15', in sec. 6, T. 49 N., R. 2 E., at Canning's ranch, 1 mile upstream from mouth, 5 miles north of Enaville, and below all tributaries.

Records available.- October 1911 to December 1912.

Extremes.- Maximum discharge observed, 2,250 second-feet Apr. 11, 1912 (gage height, 12.3 feet); minimum observed, 30 second-feet Oct. 23-29, Oct. 31 to Nov. 5, Nov. 11-13, 1911 (gage height, 7.60 feet).

Remarks.- No diversion or regulation.

Monthly discharge of North Fork of Coeur d'Alene River near Enaville, Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911-12				
October 23-31	35	30	30.6	546
November	1,090	30	168	10,000
December	116	51	69.9	4,300
January	690	51	178	10,900
February	970	187	439	25,300
March	540	80	190	11,700
April	2,250	565	1,330	79,100
May	1,550	640	944	58,000
June	590	133	242	14,000
July	180	58	94.1	5,790
August	151	41	52.0	3,200
September	180	44	67.9	4,040
The period	-	-	-	227,000
1912				
October	142	41	69.4	4,270
November	1,760	72	449	26,700
December	285	79	125	7,690
The period	-	-	-	38,700

St. Joe River at Avery, Idaho

Location.- Staff gage, lat. 47°15', long. 115°49', in sec. 15, T. 45 N., R. 5 E., at Avery, Shoshone County, half a mile downstream from North Fork.
Records available.- January 1911 to June 1917 (only fragmentary gage heights prior to April 1911).
Extremes.- Maximum discharge observed, 17,900 second-feet May 28, 1913 (gage height, 7.3 feet); minimum not determined, probably occurred during winter.
Remarks.- Above all important diversions; no regulation.

Monthly discharge of St. Joe River at Avery, Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911				
April	8,000	1,630	3,570	212,000
May	8,600	3,220	4,920	303,000
June	6,400	1,520	3,340	199,000
July	1,750	570	977	60,100
August	630	340	462	28,400
September	400	340	343	20,400
The period	-	-	-	823,000
1911-12				
October	390	340	375	23,100
November	1,590	340	566	33,700
February	670	390	523	30,100
March	1,140	285	503	30,900
April	6,880	1,190	2,720	162,000
May	8,120	2,380	5,570	342,000
June	5,360	1,820	3,450	205,000
July	1,680	650	960	59,000
August	650	350	457	28,100
September	880	315	423	25,200
1912-13				
October	573	360	428	26,300
November	1,280	620	913	54,300
December	1,280	480	616	37,900
April	7,390	770	3,750	223,000
May	17,000	2,600	8,980	552,000
June	13,100	2,390	5,900	351,000
July	2,310	645	1,220	75,000
August	781	384	550	33,800
September	384	280	348	20,700

Monthly discharge of St. Joe River at Avery, Idaho--Continued

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1913-14				
October	432	280	326	20,000
November	690	310	491	29,200
December	-	-	399	24,500
January	-	-	470	28,900
February	-	-	420	23,300
March	2,420	598	1,390	85,500
April	6,800	1,040	3,830	228,000
May	6,800	2,870	5,180	319,000
June	2,990	968	1,640	97,600
July	968	485	695	42,700
August	498	350	402	24,700
The period	-	-	-	923,000
1914-15				
October	610	393	476	29,300
November	3,850	637	1,530	91,000
December	983	-	646	39,700
January	-	-	550	33,800
February	-	-	568	31,500
March	1,580	439	823	50,600
April	4,110	1,300	2,560	152,000
May	2,870	1,580	2,080	128,000
June	2,100	890	1,420	84,500
July	890	548	696	42,800
August	548	350	422	25,900
September	462	330	361	21,500
The year	4,110	330	1,010	731,000
1915-16				
October	393	300	343	21,100
November	610	270	400	23,800
December	718	290	441	27,100
January	-	-	440	27,100
February	-	-	566	32,600
March	4,910	-	1,950	120,000
April	8,960	2,100	3,850	229,000
May	11,400	3,410	5,710	351,000
June	10,400	4,700	7,040	419,000
July	4,960	1,050	2,500	154,000
August	1,080	433	663	40,800
September	608	378	431	25,600
The year	11,400	270	2,030	1,470,000
1916-17				
October	433	318	359	22,100
November 1-12	982	345	525	12,500
April	4,700	433	2,110	126,000
May	15,800	3,160	8,610	529,000
June	11,300	3,260	6,360	378,000

St. Joe River at Calder, Idaho

Location.- Water-stage recorder, lat. 47°16', long. 116°11', in sec. 3, T. 45 N., R. 2 E., 150 feet southwest of Chicago, Milwaukee & St. Paul Railway station at Calder. Datum of gage is about 2,100 feet above mean sea level.
Drainage area.- 1,080 square miles.
Records available.- July 1920 to September 1938.
Extremes.- Maximum discharge, 53,000 second-feet Dec. 23, 1933, computed on basis of slope between gages downstream; maximum gage height, 93.1 feet, from high-water mark, Apr. 18, 1938; minimum discharge, 96 second-feet Dec. 5, 1928 (gage height, 78.43 feet).
Remarks.- No diversions above gage. Operation of splash dam at Marble Creek causes some diurnal fluctuation during log-driving season.

Monthly discharge of St. Joe River at Calder, Idaho

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1920						
July 13-31	2,000	718	1,200	1.11	0.78	45,200
August	1,180	435	647	.599	.69	39,800
September	1,620	435	805	.745	.83	47,900

Monthly discharge of St. Joe River at Calder, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1920-21						
October	1,560	870	1,240	1.15	1.33	76,200
November	3,490	630	1,440	1.33	1.48	85,700
December	7,150	655	1,330	1.23	1.42	81,800
January	3,460	930	1,620	1.50	1.73	99,600
February	5,150	703	2,140	1.98	2.06	119,000
March	11,500	1,910	4,040	3.74	4.31	248,000
April	10,900	3,010	5,900	5.46	6.09	351,000
May	16,800	6,150	12,500	11.6	13.37	769,000
June	9,400	2,030	5,040	4.67	5.21	300,000
July	2,030	601	1,150	1.06	1.22	70,700
August	685	420	535	.495	.57	32,900
September	691	440	518	.480	.54	30,800
The year	16,800	420	3,120	2.89	39.33	2,260,000
1921-22						
October	730	430	479	.444	.51	29,500
November	1,580	310	559	.518	.58	33,300
December	9,380	615	2,000	1.85	2.13	123,000
January	900	-	481	.445	.51	29,600
February	-	-	456	.422	.44	25,300
March	1,360	-	689	.638	.74	42,400
April	6,220	1,260	3,170	2.94	3.28	189,000
May	16,600	5,980	9,450	8.75	10.09	581,000
June	11,700	2,040	5,850	5.42	6.05	348,000
July	1,940	750	1,200	1.11	1.28	73,800
August	780	430	596	.552	.64	36,600
September	640	340	401	.371	.41	23,900
The year	16,600	-	2,120	1.96	26.66	1,540,000
1922-23						
October	468	276	334	.309	.36	20,500
November	967	202	374	.346	.39	22,300
December	1,640	-	516	.478	.55	31,700
January	4,540	350	1,260	1.17	1.35	77,500
February	798	-	539	.499	.52	29,900
March	5,950	580	1,240	1.15	1.33	76,200
April	11,400	2,960	6,200	5.74	6.40	369,000
May	13,000	4,380	8,260	7.65	8.82	508,000
June	8,310	2,700	5,440	5.04	5.62	324,000
July	2,620	892	1,510	1.40	1.61	92,800
August	932	526	682	.631	.73	41,900
September	558	375	453	.419	.47	27,000
The year	13,000	-	2,240	2.07	28.15	1,620,000
1923-24						
October	978	323	460	.426	.49	28,300
November	1,640	311	551	.510	.57	32,800
December	1,280	254	600	.556	.64	36,900
January	-	-	539	.499	.58	33,100
February	-	1,350	2,180	2.02	2.18	125,000
March	1,700	943	1,250	1.16	1.34	76,900
April	9,170	957	4,100	3.80	4.24	244,000
May	12,500	2,760	7,680	7.11	8.20	472,000
June	2,740	1,080	1,830	1.69	1.89	109,000
July	1,090	500	761	.705	.81	46,800
August	565	360	447	.414	.48	27,500
September	480	360	397	.368	.41	23,600
The year	12,500	-	1,730	1.60	21.83	1,260,000
1924-25						
October	590	345	414	.383	.44	25,500
November	2,330	540	995	.921	1.03	59,200
December	6,300	590	1,620	1.50	1.73	99,600
January	-	-	1,440	1.33	1.53	88,500
February	-	1,390	4,050	3.75	3.90	225,000
March	5,060	1,390	2,640	2.44	2.81	162,000
April	16,600	5,800	10,500	9.72	10.84	625,000
May	13,200	6,270	10,500	9.72	11.21	646,000
June	5,690	2,130	3,700	3.43	3.83	220,000
July	2,060	766	1,200	1.11	1.28	73,800
August	921	512	632	.585	.67	38,900
September	612	440	490	.454	.51	29,200
The year	-	-	3,170	2.94	39.78	2,290,000

Monthly discharge of St. Joe River at Calder, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1925-26						
October	560	345	390	0.361	0.42	24,000
November	524	275	281	.353	.39	22,700
December	2,030	450	792	.733	.85	48,700
January	780	-	509	.471	.54	31,300
February	2,560	492	1,110	1.03	1.07	61,600
March	3,770	1,350	2,270	2.10	2.42	140,000
April	10,800	1,470	5,260	4.87	5.43	313,000
May	7,300	1,750	3,590	3.32	3.83	221,000
June	1,680	722	1,150	1.06	1.18	68,400
July	923	395	554	.513	.59	34,100
August	786	321	405	.375	.43	24,900
September	1,230	395	549	.508	.57	32,700
The year	10,800	275	1,410	1.31	17.72	1,020,000
1926-27						
October	1,950	534	1,100	1.02	1.18	67,600
November	7,420	865	2,030	1.88	2.10	121,000
December	9,600	-	2,950	2.73	3.15	181,000
January	2,070	842	1,380	1.28	1.48	84,800
February	3,110	984	1,390	1.29	1.34	77,200
March	2,840	1,240	1,670	1.55	1.79	103,000
April	17,000	2,150	5,130	4.75	5.30	305,000
May	17,300	6,270	9,720	9.00	10.38	598,000
June	13,400	3,540	8,400	7.78	8.68	500,000
July	3,270	1,110	1,830	1.69	1.95	113,000
August	1,070	573	773	.716	.83	47,500
September	1,340	538	798	.739	.82	47,500
The year	17,300	534	3,100	2.87	39.00	2,250,000
1927-28						
October	2,800	1,050	1,620	1.50	1.73	99,600
November	12,400	1,380	6,020	5.57	6.21	358,000
December	9,720	-	3,530	3.27	3.77	217,000
January	-	-	2,670	2.47	2.85	164,000
February	2,060	1,140	1,540	1.43	1.54	88,600
March	7,270	1,190	3,380	3.13	3.61	208,000
April	11,800	2,360	4,480	4.15	4.63	267,000
May	16,300	6,560	12,220	11.3	13.03	750,000
June	6,020	1,950	3,410	3.16	3.53	203,000
July	1,760	746	1,130	1.05	1.21	69,500
August	734	433	550	.509	.59	33,800
September	456	333	381	.353	.39	22,700
The year	16,300	333	3,420	3.17	43.09	2,480,000
1928-29						
October	890	305	413	.382	.44	25,400
November	800	263	372	.344	.38	22,100
December	728	147	291	.269	.31	17,900
January	281	-	204	.189	.22	12,500
February	-	-	239	.221	.23	13,300
March	3,120	-	986	.913	1.05	60,600
April	7,450	956	2,820	2.61	2.91	168,000
May	8,510	3,840	5,850	5.42	6.25	360,000
June	4,500	1,690	3,110	2.88	3.21	185,000
July	1,630	691	1,020	.944	1.09	62,700
August	659	411	519	.481	.55	31,900
September	415	321	363	.336	.37	21,600
The year	8,510	147	1,360	1.26	17.01	981,000
1929-30						
October	592	222	323	.299	.34	19,900
November	338	175	258	.239	.27	15,400
December	2,160	230	590	.546	.63	36,300
January	472	200	290	.269	.31	17,800
February	3,510	300	992	.919	.96	55,100
March	3,920	719	1,580	1.46	1.68	97,200
April	8,240	3,510	5,850	5.42	6.05	348,000
May	5,790	2,980	3,770	3.49	4.02	232,000
June	3,200	1,210	2,110	1.95	2.18	126,000
July	1,210	521	820	.759	.88	50,400
August	526	387	466	.431	.50	28,700
September	510	316	373	.345	.38	22,200
The year	8,240	175	1,450	1.34	18.20	1,050,000

Monthly discharge of St. Joe River at Calder, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930-31						
October	760	338	464	0.430	0.50	28,500
November	1,600	375	535	.495	.55	31,800
December	420	290	349	.323	.37	21,500
January	1,600	290	613	.568	.65	37,700
February	990	498	673	.623	.65	37,400
March	4,460	582	1,620	1.50	1.73	99,600
April	6,710	2,510	4,110	3.81	4.25	245,000
May	8,510	2,580	5,420	5.02	5.79	333,000
June	2,450	826	1,390	1.29	1.43	82,700
July	795	460	594	.550	.63	36,500
August	521	281	379	.351	.40	23,300
September	498	261	337	.312	.35	20,100
The year	8,510	261	1,380	1.28	17.30	997,000
1931-32						
October	477	264	333	.308	.36	20,500
November	760	250	391	.362	.40	23,300
December	-	-	389	.360	.42	23,900
January	1,060	330	437	.405	.47	26,900
February	6,240	-	934	.865	.93	53,700
March	5,570	878	2,100	1.94	2.24	129,000
April	13,400	3,590	7,470	6.92	7.72	444,000
May	16,600	6,240	12,000	11.1	12.80	738,000
June	6,950	2,200	4,770	4.42	4.93	284,000
July	2,140	763	1,260	1.17	1.35	77,500
August	757	477	598	.554	.64	36,800
September	515	376	435	.403	.45	25,900
The year	16,600	250	2,600	2.41	32.71	1,880,000
1932-33						
October	707	366	463	.429	.49	28,500
November	3,430	502	1,470	1.36	1.52	87,500
December	5,570	550	1,480	1.37	1.58	91,000
January	2,600	550	952	.881	1.02	58,500
February	600	450	524	.485	.50	29,100
March	2,270	592	1,170	1.08	1.24	71,900
April	15,200	1,640	5,780	5.35	5.97	344,000
May	14,100	5,260	8,600	7.96	9.18	529,000
June	18,400	3,670	10,100	9.35	10.40	601,000
July	3,350	857	1,690	1.56	1.80	104,000
August	956	516	671	.621	.72	41,300
September	697	456	542	.502	.56	32,300
The year	18,400	366	2,790	2.58	34.98	2,020,000
1933-34						
October	6,950	443	1,433	1.33	1.53	88,100
November	11,800	1,330	2,824	2.61	2.91	168,000
December	40,000	1,250	8,887	8.23	9.49	546,500
January	11,500	3,050	5,442	5.04	5.81	334,600
February	4,370	2,390	3,342	3.09	3.22	185,600
March	18,600	2,580	6,414	5.94	6.85	394,400
April	12,800	6,710	9,178	8.50	9.48	546,100
May	6,710	2,510	4,404	4.08	4.70	270,800
June	2,390	890	1,445	1.34	1.50	85,980
July	857	464	632	.585	.67	38,870
August	481	302	380	.352	.41	23,390
September	472	287	344	.319	.36	20,480
The year	40,000	287	3,733	3.46	46.93	2,703,000
1934-35						
October	3,070	317	646	.598	.69	39,700
November	2,310	807	1,342	1.24	1.38	79,830
December	3,340	644	1,091	1.01	1.15	67,080
January	2,500	450	1,144	1.06	1.22	70,310
February	1,450	958	1,178	1.09	1.14	65,440
March	5,100	939	1,756	1.63	1.88	108,000
April	10,400	1,560	5,621	5.20	5.80	334,500
May	12,900	7,040	9,232	8.55	9.86	567,600
June	7,510	1,950	3,978	3.68	4.11	236,700
July	1,990	701	1,152	1.07	1.23	70,830
August	742	393	535	.495	.57	32,870
September	472	325	366	.339	.37	21,790
The year	12,900	317	2,341	2.17	29.40	1,695,000

Monthly discharge of St. Joe River at Calder, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1935-36						
October	490	301	344	0.319	0.37	21,160
November	393	264	332	.307	.34	19,730
December	449	212	324	.300	.35	19,900
January	753	264	383	.355	.41	23,540
February	1,000	270	344	.319	.34	19,810
March	2,300	535	1,078	.998	1.15	66,280
April	17,500	568	9,307	8.62	9.62	553,800
May	13,000	4,410	8,122	7.52	8.67	499,400
June	4,750	1,350	2,767	2.56	2.86	164,600
July	1,310	584	882	.817	.94	54,220
August	601	379	465	.431	.50	28,590
September	472	304	363	.336	.37	21,600
The year	17,500	212	2,056	1.90	25.92	1,493,000
1936-37						
October	376	278	307	.284	.33	18,850
November	382	198	259	.240	.27	15,410
December	717	260	359	.332	.38	22,060
January	270	200	238	.220	.25	14,640
February	320	210	258	.239	.25	14,340
March	1,230	300	725	.671	.77	44,590
April	7,390	1,010	3,097	2.87	3.20	184,300
May	11,700	3,630	7,997	7.40	8.53	491,700
June	5,470	1,830	3,180	2.94	3.28	189,200
July	1,740	634	1,027	.951	1.10	63,160
August	795	400	531	.492	.57	32,650
September	462	326	360	.333	.37	21,410
The year	11,700	198	1,536	1.42	19.30	1,112,000
1937-38						
October	458	310	354	.328	.38	21,780
November	1,650	316	672	.622	.69	39,970
December	2,130	358	1,017	.942	1.09	62,560
January	2,000	500	992	.919	1.06	61,020
February	1,010	584	778	.720	.75	43,220
March	4,170	1,230	2,072	1.92	2.21	127,400
April	39,400	1,650	9,112	8.44	9.42	542,200
May	13,400	5,470	8,458	7.83	9.03	520,100
June	6,700	1,830	3,778	3.50	3.90	224,800
July	1,740	729	1,149	1.06	1.22	70,650
August	795	420	576	.533	.61	35,440
September	765	342	407	.377	.42	24,230
The year	39,400	310	2,449	2.27	30.78	1,773,000

Yearly discharge of St. Joe River at Calder, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1921	3,120	2.89	39.33	2,260,000	3,040	2.81	38.32	2,210,000
1922	2,120	1.96	26.66	1,540,000	1,970	1.82	24.74	1,420,000
1923	2,240	2.07	28.15	1,620,000	2,270	2.10	28.55	1,640,000
1924	1,730	1.60	21.83	1,260,000	1,850	1.71	23.33	1,340,000
1925	3,170	2.94	39.78	2,290,000	3,040	2.81	38.24	2,200,000
1926	1,410	1.31	17.72	1,020,000	1,790	1.66	22.49	1,300,000
1927	3,100	2.87	39.00	2,250,000	3,520	3.26	44.28	2,550,000
1928	3,420	3.17	43.09	2,480,000	2,580	2.39	32.51	1,870,000
1929	1,360	1.26	17.01	981,000	1,360	1.26	17.12	987,000
1930	1,450	1.34	18.20	1,050,000	1,460	1.35	18.38	1,060,000
1931	1,380	1.28	17.30	997,000	1,360	1.26	17.06	983,000
1932	2,600	2.41	32.71	1,880,000	2,790	2.58	35.12	2,020,000
1933	2,790	2.58	34.98	2,020,000	3,610	3.34	45.32	2,610,000
1934	3,733	3.46	46.93	2,703,000	2,883	2.67	36.22	2,087,000
1935	2,341	2.17	29.40	1,695,000	2,167	2.01	27.24	1,569,000
1936	2,056	1.90	25.92	1,493,000	2,050	1.90	25.84	1,488,000
1937	1,536	1.42	19.30	1,112,000	1,630	1.51	20.48	1,180,000
1938	2,449	2.27	30.78	1,773,000	2,403	2.22	30.20	1,740,000
Highest	3,733	3.46	46.93	2,703,000	3,610	3.34	45.32	2,610,000
Average	2,334	2.16	29.34	1,690,000	2,321	2.15	29.19	1,681,000
Lowest	1,360	1.26	17.01	981,000	1,360	1.26	17.06	983,000

St. Joe River near Calder, Idaho

Location.- Staff gage, lat. 47°16', long. 116°14', in sec. 5, T. 45 N., R. 2 E., at logging camp, 2½ miles downstream from Calder.
Records available.- April 1911 to September 1912.
Extremes.- Maximum discharge observed, 15,400 second-feet May 21, 1912 (gage height, 9.0 feet); minimum observed, 380 second-feet Nov. 2, 1911 (gage height, 1.6 feet).
Remarks.- No diversion or regulation.

Monthly discharge of St. Joe River near Calder, Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911				
April 14-30	12,600	2,620	6,840	231,000
May	14,100	4,200	7,360	453,000
June	8,660	2,080	4,300	256,000
July	2,210	830	1,330	81,800
August	910	520	682	41,900
September	830	470	564	33,600
The period	-	-	-	1,100,000
1911-12				
October	690	420	507	31,200
November	4,200	380	962	57,200
December	830	420	598	36,800
January	1,970	420	1,040	64,000
February	1,970	760	1,230	70,800
March	2,620	570	1,030	63,300
April	8,660	2,920	5,480	326,000
May	15,400	4,830	9,860	606,000
June	8,520	1,970	4,970	296,000
July	2,080	750	1,170	71,900
August	870	545	641	39,400
September	1,200	495	634	37,700
The year	15,400	380	2,340	1,700,000

St. Maries River at Lotus, Idaho

Location.- Staff gage, lat. 47°14', long. 116°37', in sec. 20, T. 45 N., R. 2 W., just downstream from Lotus. Datum of gage is about 2,160 feet above mean sea level.
Drainage area.- 420 square miles.
Records available.- July 1911 to October 1912, July 1920 to September 1938.
Extremes.- Maximum discharge observed, 23,800 second-feet Dec. 22, 23, 1933 (gage height, 12.1 feet); minimum discharge, 16 second-feet (estimated) Nov. 21, 1929; minimum gage height, 2.71 feet Nov. 20, 1929.
Remarks.- No diversion or regulation; occasional backwater effect from logs.

Monthly discharge of St. Maries River at Lotus Idaho

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1911				
July 10-31	160	79	114	4,970
August 1-12	107	79	96.5	2,300
1911-12				
October	160	68	93.3	5,740
November	850	79	205	12,200
December 1-9	182	140	158	2,820
February	1,850	260	869	50,000
March	1,670	182	491	30,200
April	4,670	1,580	3,330	198,000
May	4,020	1,500	2,530	156,000
June	1,670	300	735	43,700
July	402	124	211	13,000
August	152	82	104	6,400
September	495	94	151	8,980
October 1912	300	94	150	9,220
1920				
July 15-31	129	79	95.3	3,210
August	111	54	66.4	4,080
September	275	58	111	6,600

Monthly discharge of St. Maries River at Lotus, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1920-21						
October	292	98	164	0.390	0.45	10,100
November	590	70	256	.610	.68	15,200
December	2,700	93	376	.895	1.03	23,100
January	2,350	369	827	1.97	2.27	50,800
February	1,910	224	711	1.69	1.76	39,500
March	7,710	860	1,950	4.64	5.35	120,000
April	3,450	820	1,630	3.88	4.33	97,000
May	1,400	590	1,040	2.48	2.86	64,000
June	565	193	344	.819	.91	20,500
July	266	79	130	.310	.36	7,990
August	143	62	74.3	.177	.20	4,570
September	346	60	155	.369	.41	9,220
The year	7,710	60	638	1.52	20.61	462,000
1921-22						
October	465	205	277	.660	.76	17,000
November	780	260	372	.886	.99	22,100
December	2,120	-	412	.981	1.13	25,300
January	-	-	81.9	.195	.22	5,040
February	-	-	53.2	.127	.13	2,950
March	-	-	70.6	.168	.19	4,340
April	2,780	760	1,810	4.31	4.81	108,000
May	2,780	1,070	1,810	4.31	4.97	111,000
June	1,120	-	552	1.31	1.46	32,800
July	-	-	97.1	.231	.27	5,970
August	-	-	79.5	.189	.22	4,890
September	-	-	57.5	.137	.15	3,420
The year	2,780	-	474	1.13	15.30	343,000
1922-23						
October	92	45	57.1	.136	.16	3,510
November	382	32	77.3	.184	.21	4,600
December	-	-	80.6	.192	.22	4,960
January	2,920	-	610	1.45	1.67	37,500
February	-	-	159	.379	.39	8,830
March	2,310	-	644	1.53	1.76	39,600
April	3,950	1,010	1,860	4.43	4.94	111,000
May	1,340	425	821	1.95	2.25	50,500
June	3,030	256	817	1.95	2.18	48,600
July	243	92	159	.379	.44	9,780
August	231	64	87.4	.208	.24	5,370
September	64	49	54.1	.129	.14	3,220
The year	3,950	-	452	1.08	14.60	327,000
1923-24						
October	144	51	69.6	.166	.19	4,280
November	490	53	125	.298	.33	7,440
December	1,120	-	204	.486	.56	12,500
January	-	-	148	.352	.41	9,100
February	-	672	1,170	2.79	3.01	67,300
March	1,020	243	495	1.18	1.36	30,400
April	1,480	275	764	1.82	2.03	45,500
May	-	204	647	1.54	1.78	39,800
June	200	86	146	.348	.39	8,690
July	102	47	66.5	.158	.18	4,090
August	93	37	48.9	.116	.13	3,010
September	135	36	54.0	.129	.14	3,210
The year	-	36	324	.771	10.51	235,000
1924-25						
October	171	49	66.7	.159	.18	4,100
November	1,090	110	284	.676	.75	16,900
December	900	120	310	.738	.85	19,100
January	-	-	583	1.39	1.60	35,800
February	-	458	1,590	3.79	3.95	88,300
March	2,060	590	1,260	3.00	3.46	77,500
April	3,850	790	2,150	5.12	5.71	128,000
May	1,750	490	989	2.35	2.71	60,800
June	490	171	348	.829	.92	20,700
July	146	65	102	.243	.28	6,270
August	106	44	61.8	.147	.17	3,800
September	55	46	50.6	.120	.13	3,010
The year	-	44	641	1.53	20.71	464,000

Monthly discharge of St. Maries River at Lotus, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1925-26						
October	204	54	69.6	0.166	0.19	4,280
November	160	-	76.6	.182	.20	4,560
December	885	54	244	.581	.67	15,000
January	-	-	148	.352	.41	9,100
February	2,800	-	787	1.87	1.95	43,700
March	1,750	458	902	2.15	2.48	55,500
April	1,320	458	810	1.93	2.15	48,200
May	490	157	319	.760	.88	19,600
June	270	78	135	.321	.36	8,030
July	98	47	65.6	.156	.18	4,030
August	122	41	54.0	.129	.15	3,320
September	306	60	96.5	.230	.26	5,740
The year	2,800	-	305	.726	9.88	221,000
1926-27						
October	236	68	137	.326	.37	8,420
November	2,860	96	541	1.29	1.44	32,200
December	2,570	-	654	1.56	1.80	40,200
January	-	-	409	.974	1.12	25,100
February	3,810	315	1,180	2.81	2.93	65,500
March	1,640	652	1,030	2.45	2.82	63,300
April	3,420	960	1,720	4.10	4.57	102,000
May	2,370	780	1,390	3.31	3.82	85,500
June	1,640	315	814	1.94	2.16	48,400
July	315	92	178	.424	.49	10,900
August	105	64	83.4	.199	.23	5,130
September	380	82	161	.383	.43	9,580
The year	3,810	64	686	1.63	22.18	496,000
1927-28						
October	1,220	105	360	.857	.99	22,100
November	5,800	287	1,800	4.29	4.79	107,000
December	3,810	-	1,110	2.64	3.04	68,200
January	-	-	922	2.20	2.54	56,700
February	1,250	350	662	1.58	1.70	38,100
March	4,840	300	2,010	4.79	5.52	124,000
April	3,990	880	1,640	3.90	4.35	97,600
May	2,120	510	1,170	2.79	3.22	71,900
June	442	158	270	.643	.72	16,100
July	192	71	118	.281	.32	7,260
August	71	44	60.0	.143	.16	3,690
September	76	45	50.5	.120	.13	3,000
The year	5,800	44	848	2.02	27.48	616,000
1928-29						
October	118	53	72.4	.172	.20	4,450
November	245	51	87.4	.208	.23	5,200
December	126	23	66.2	.158	.18	4,070
January	107	24	49.2	.117	.13	3,030
February	51	24	33.5	.080	.08	1,860
March	1,030	60	354	.843	.97	21,800
April	1,500	102	656	1.56	1.74	39,000
May	835	230	556	1.32	1.52	34,200
June	478	141	254	.605	.68	15,100
July	134	46	77.5	.185	.21	4,770
August	45	30	37.4	.089	.10	2,300
September	45	29	33.8	.080	.09	2,010
The year	1,500	23	190	.452	6.13	138,000
1929-30						
October	172	38	48.6	.116	.13	2,990
November	102	16	43.7	.104	.12	2,600
December	250	22	114	.271	.31	7,010
January	64	18	28.2	.067	.08	1,730
February	2,000	34	381	.907	.94	21,200
March	2,270	96	496	1.18	1.36	30,500
April	790	478	583	1.39	1.55	34,700
May	1,830	219	456	1.09	1.26	28,000
June	790	130	264	.629	.70	15,700
July	145	43	69.6	.166	.19	4,280
August	48	36	41.9	.100	.12	2,580
September	90	36	54.9	.131	.15	3,270
The year	2,270	16	214	.510	6.91	155,000

Monthly discharge of St. Maries River at Lotus, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1930-31						
October	203	51	67.3	0.160	0.18	4,140
November	573	39	87.3	.208	.23	5,190
December	-	-	37.9	.090	.10	2,320
January	-	-	87.0	.207	.24	5,350
February	790	117	240	.571	.59	13,300
March	2,120	181	916	2.18	2.51	56,300
April	3,990	573	1,350	3.21	3.58	80,300
May	930	215	476	1.13	1.30	29,300
June	200	79	120	.286	.32	7,140
July	79	32	50.0	.119	.14	3,070
August	35	21	26.4	.063	.07	1,620
September	92	22	43.7	.104	.12	2,600
The year	3,990	21	291	.693	9.38	211,000
1931-32						
October	140	34	59.3	.141	.16	3,650
November	161	-	65.8	.157	.18	3,920
December	-	-	54.3	.129	.15	3,340
January	-	-	115	.274	.32	7,070
February	3,200	-	382	.910	.98	22,000
March	3,500	370	1,450	3.45	3.98	89,200
April	4,410	1,760	2,810	6.69	7.46	167,000
May	4,200	930	2,120	5.05	5.82	130,000
June	930	195	497	1.18	1.32	29,600
July	218	72	121	.288	.33	7,440
August	70	45	55.5	.132	.15	3,410
September	51	40	44.8	.107	.12	2,670
The year	4,410	-	647	1.54	20.97	469,000
1932-33						
October	151	42	69.8	.166	.19	4,290
November	1,370	89	343	.817	.91	20,400
December	880	50	256	.610	.70	15,700
January	400	-	206	.490	.56	12,700
February	220	-	122	.290	.30	6,780
March	2,760	230	972	2.31	2.66	59,800
April	3,740	1,000	2,400	5.71	6.37	143,000
May	2,580	1,230	1,510	3.60	4.15	92,800
June	2,240	262	798	1.90	2.12	47,500
July	253	77	138	.329	.38	8,480
August	121	48	67.9	.162	.19	4,180
September	121	48	77.0	.183	.20	4,580
The year	3,740	42	581	1.38	18.73	420,000
1933-34						
October	690	56	168	.400	.46	10,350
November	2,080	149	359	.855	.95	21,370
December	10,900	179	3,322	7.91	9.12	204,300
January	6,620	790	2,290	5.45	6.28	140,800
February	1,360	344	869	2.07	2.15	48,270
March	3,330	645	1,387	3.30	3.80	85,310
April	2,760	600	1,090	2.60	2.90	64,970
May	512	166	285	.679	.78	17,550
June	374	93	160	.381	.43	9,530
July	107	56	77.1	.184	.21	4,740
August	56	35	45.3	.108	.12	2,780
September	75	34	46.2	.110	.12	2,750
The year	10,900	34	846	2.01	27.32	612,700
1934-35						
October	852	46	120	.286	.33	7,370
November	401	87	194	.462	.52	11,530
December	3,360	87	348	.829	.96	21,390
January	2,280	130	544	1.30	1.50	33,430
February	1,440	315	497	1.18	1.23	27,610
March	4,330	315	1,039	2.47	2.85	63,880
April	3,990	637	2,170	5.17	5.77	129,100
May	1,980	832	1,346	3.20	3.69	82,750
June	784	162	359	.855	.95	21,340
July	208	72	115	.274	.32	7,070
August	82	44	59.4	.141	.16	3,650
September	52	39	42.3	.101	.11	2,520
The year	4,330	39	569	1.35	18.39	411,600

Monthly discharge of St. Maries River at Lotus, Idaho--Continued

Month	Discharge in second-feet				Run-off	
	Maximum	Minimum	Mean	Per square mile	Inches	Acre-feet
1935-36						
October	92	33	56.7	0.135	0.16	3,490
November	114	33	70.5	.168	.19	4,200
December	220	39	89.7	.214	.25	5,510
January	330	50	138	.329	.38	8,490
February	500	60	113	.269	.29	6,510
March	2,360	247	817	1.95	2.25	50,210
April	3,670	208	2,058	4.90	5.47	122,500
May	2,120	338	1,015	2.42	2.79	62,430
June	1,630	142	396	.943	1.05	23,580
July	139	56	97.5	.232	.27	5,990
August	56	32	43.4	.103	.12	2,670
September	84	37	49.2	.117	.13	2,930
The year	3,670	32	411	.979	13.35	298,500
1936-37						
October	52	39	46.1	.110	.13	2,830
November	80	21	41.9	.100	.11	2,490
December	205	25	80.5	.192	.22	4,950
January	40	30	36.5	.087	.10	2,250
February	70	30	42.3	.101	.11	2,350
March	1,130	80	513	1.22	1.41	31,560
April	6,370	823	2,141	5.10	5.69	127,400
May	2,200	527	1,156	2.75	3.17	71,090
June	480	197	337	.802	.89	20,050
July	185	66	104	.248	.29	6,380
August	84	45	59.3	.141	.16	3,650
September	98	43	49.5	.118	.13	2,950
The year	6,370	21	384	.914	12.41	278,000
1937-38						
October	101	45	66.5	.158	.18	4,090
November	1,380	63	280	.667	.74	16,630
December	1,900	119	577	1.37	1.58	35,470
January	1,830	238	618	1.47	1.70	37,990
February	549	276	382	.910	.95	21,220
March	3,670	662	1,567	3.73	4.30	96,370
April	7,980	812	2,002	4.77	5.32	119,100
May	1,560	460	789	1.88	2.17	48,520
June	434	138	246	.586	.65	14,670
July	134	63	92.9	.221	.25	5,710
August	73	41	54.6	.130	.15	3,360
September	266	38	60.2	.143	.16	3,580
The year	7,980	38	562	1.34	18.15	406,700

Yearly discharge of St. Maries River at Lotus, Idaho

Year	Year ending Sept. 30				Calendar year			
	Discharge in second-feet		Run-off		Discharge in second-feet		Run-off	
	Mean	Per square mile	Inches	Acre-feet	Mean	Per square mile	Inches	Acre-feet
1921	638	1.52	20.61	462,000	660	1.57	21.33	478,000
1922	474	1.13	15.30	343,000	403	.960	13.01	291,000
1923	452	1.08	14.60	327,000	467	1.11	15.09	339,000
1924	324	.771	10.51	235,000	346	.824	11.21	251,000
1925	641	1.53	20.71	464,000	619	1.47	19.99	448,000
1926	305	.726	9.88	221,000	384	.914	12.43	278,000
1927	686	1.63	22.18	496,000	847	2.02	27.39	613,000
1928	848	2.02	27.48	616,000	594	1.41	19.27	432,000
1929	190	.452	6.13	138,000	189	.450	6.08	137,000
1930	214	.510	6.91	155,000	212	.505	6.86	154,000
1931	291	.693	9.38	211,000	290	.690	9.36	210,000
1932	647	1.54	20.97	469,000	688	1.64	22.28	499,000
1933	581	1.38	18.73	420,000	851	2.03	27.46	616,000
1934	846	2.01	27.32	612,700	576	1.37	18.60	417,000
1935	569	1.35	18.39	411,600	531	1.26	17.18	384,600
1936	411	.979	13.35	298,500	407	.969	13.21	295,600
1937	384	.914	12.41	278,000	447	1.06	14.45	323,900
1938	562	1.34	18.15	406,700	513	1.22	16.57	371,100
Highest	848	2.02	27.48	616,000	851	2.03	27.46	616,000
Average	504	1.20	16.28	364,700	501	1.19	16.21	363,200
Lowest	190	.452	6.13	138,000	189	.450	6.08	137,000

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