

LOCATION.--Lat 60°19'05", long 151°15'32", in SW¼ sec.30, T.2 N., R.11 W., Kenai Peninsula Borough, near center of span on downstream side of bridge on Sterling Highway, 0.9 mi (1.4 km) upstream from Crooked Creek, 4 mi (6 km) downstream from Moosehead Rapids, 5 mi (8 km) south of Kasilof, and 10 mi (16 km) downstream from Tustumena Lake.

BASIN CHARACTERISTICS.--Drainage area, 738 mi² (1,911 km²); main-channel slope, 68.3 ft/mi (12.94 m/km); stream length, 55 mi (88 km); area of lakes and ponds, 15 percent; mean elevation, 1,810 ft (552 m); glacier area, 28 percent.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1949 to September 1970. Annual maximum, water years, 1971-74.

GAGE.--Nonrecording gage. Datum of gage is 23.37 ft (7.123 m) above mean sea level (Corps of Engineers' bench mark).

AVERAGE DISCHARGE.--21 years, 2,385 ft³/s (67.54 m³/s), 43.89 in/yr (1,115 mm/yr), 1,728,000 acre-ft/yr (2.13 km³/yr).

EXTREMES.--Maximum discharge during period of record, 12,300 ft³/s (348 m³/s) Sept. 14, 1957, gage height, 7.90 ft (2.408 m) from graph based on gage readings; maximum gage height observed, 8.62 ft (2.627 m) Nov. 25, 1955, backwater from ice; minimum daily discharge, 19 ft³/s (0.54 m³/s) Apr. 2, 1964.

EXTREMES, DISCHARGE IN CUBIC FEET PER SECOND, GAGE HEIGHT IN FEET

Water year	Momentary maximum			Minimum daily	
	Date	Discharge	Gage height	Date	Discharge
1949a	Sept. 9, 1949	7,860	6.06	July 2, 1949	12,080
1950	Aug. 27, 1950	8,440	6.30	Mar. 1-31, 1950	530
1951	Sept. 8, 1951	9,090	6.55	Mar. 16-31, 1951	280
1952	Aug. 16, 1952	7,430	5.88	Mar. 11-20, 1952	450
1953	Aug. 14, 1953	8,360	6.31	Apr. 16, 1953	611
1954	Dec. 13, 1953	---	d5.91	Mar. 1-31, 1954	280
	Aug. 28, 1954	7,090	5.77		
1955	Sept. 12, 1955	6,240	5.27	Mar. 20, 1955	459
1956	Nov. 25, 1955	---	d8.62	Mar. 1-31, 1956	270
	Aug. 29, 1956	7,880	5.92		
1957	Sept. 14, 1957	12,300	7.90	Apr. 1, 2, 1957	353
1958	Aug. 16, 1958	11,000	7.38	Apr. 26, 27, 29, 1958	531
1959	Sept. 1, 1959	8,150	6.22	Mar. 23-26, 1959	270
1960	Aug. 14, 1960	7,600	5.99	Apr. 22, 1960	359
1961	Sept. 15, 1961	8,150	6.12	Apr. 19, 1961	596
1962	Dec. 18, 1961	---	d7.43	May 9, 1962	602
	Sept. 5, 1962	7,110	5.73		
1963	Sept. 9, 1963	8,650	6.35	May 11, 1963	e428
1964	Aug. 31, 1964	7,140	5.74	Apr. 2, 1964	19
1965	Sept. 30, 1965	f6,970	5.67	Jan. 16-31, 1965	520
1966	Aug. 16, 1966	8,680	6.36	Mar. 21 to Apr. 24, 1966	300
1967	Aug. 25, 1967	11,400	7.36	Mar. 21 to Apr. 7, 1967	380
1968	Aug. 22, 1968	8,860	6.38	May 5, 1968	536
1969	Aug. 8, 1969	6,030	5.32	Jan. 9 to Feb. 13, 1969	340
1970	Oct. 22, 1969	7,370	5.85	May 8, 1970	560
1971	---	11,000	7.10		
1972	Sept. 1972	8,950	6.41		
1973	Sept. 1973	4,900	4.82		
1974	---	7,210	5.79		

a Period July to September.

b Minimum observed, gage height, 3.05 ft.

c Gage height, 1.57 ft.

d Backwater from ice.

e Gage height, 1.32 ft.

f Stage rising, peak occurred Oct. 4, 1965; maximum peak discharge, 5,420 ft³/s Sept. 18, 1965.

MONTHLY AND ANNUAL MEAN DISCHARGE, IN CUBIC FEET PER SECOND

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL
1949										3412	5154	6948	
1950	4150	2098	1000	760	550	530	649	661	1182	3785	6514	6780	2399
1951	3739	1642	897	535	360	290	453	703	1364	4573	7239	8139	2508
1952	4342	2022	1235	837	582	464	569	591	824	2900	6623	4971	2173
1953	4223	2684	1886	1097	883	795	669	771	1821	4900	7810	6452	2848
1954	3651	1756	897	560	380	280	440	695	1390	3509	6406	5665	2148
1955	3654	2057	816	600	540	480	505	547	844	2681	5385	5561	1981
1956	2832	1161	358	290	280	270	449	743	1012	2462	6321	6483	1893
1957	3325	1441	725	454	401	428	414	625	1790	4855	6619	10480	2638
1958	5885	3706	1842	1145	719	572	581	656	1818	5513	9460	6207	3196
1959	2958	1425	847	414	314	285	494	717	1556	4311	6320	5691	2124
1960	3805	2037	1122	662	524	469	403	570	1576	3959	7029	5497	2313
1961	3203	1624	1138	952	955	693	673	809	1575	4060	7144	7057	2500
1962	4243	2083	1500	920	680	620	674	676	1400	4247	6148	5612	2414
1963	3022	1768	1130	716	609	566	520	591	1279	3656	6124	7462	2296
1964	4352	2328	1294	827	537	489	113	264	985	3785	6195	5857	2261
1965	3421	2014	1152	559	530	746	719	702	1038	2093	4168	5270	1874
1966	4954	1757	975	673	436	332	309	656	1281	4102	7638	7388	2557
1967	4981	2082	1048	666	491	399	457	981	1668	4565	10030	9594	3097
1968	5368	2494	1597	1156	868	700	597	649	1434	4024	7594	5506	2677
1969	2584	1262	635	350	371	492	488	581	1704	4725	5329	3982	1888
1970	5323	3430	1880	866	939	919	676	760	1218	2531	4575	4284	2293
MEAN	4001	2042	1142	716	569	515	517	664	1369	3648	6628	6404	2385
MONTHLY PERCENT	14	7	4	3	2	2	2	2	5	14	23	22	