

15514000 CHENA RIVER AT FAIRBANKS

LOCATION.--Lat 64°50'45", long 147°42'04", in NW¹/₄ sec. 11, T. 1 S., R. 1 W. (Fairbanks D-2 quad), Fairbanks North Star Borough, Hydrologic Unit 19040506, on right bank 100 ft downstream from Steese Highway Bridge, 800 ft upstream from Wendell Street bridge, 0.3 mi upstream from Noyes Slough, 11 mi upstream from mouth, and 11 mi downstream from Chena Slough.

DRAINAGE AREA.--1,995 mi².

PERIOD OF RECORD.--July 1947 to September 1948 (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder and supplementary gage. Datum of gage is 422.92 ft above sea level. Supplementary gage, Chena River at Lathrop Street (15514003), 1.6 mi downstream on left bank, used during winter period. See WSP 1936 and 2136 for history of changes prior to April 27, 1968.

REMARKS.--Records are good except for estimated daily discharges, which are fair. Regulation during high-flow periods began July 9, 1981 at Moose Creek Dam 31.8 mi upstream. Flows were not regulated this year. GOES satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD--Outstanding floods occurred in early May 1905 and 1911, late August 1930, and May 11-14, 1937. See WDR AK-90-1 for more information.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2440	e1120	e890	e600	e430	e375	e330	2520	3000	970	1120	829
2	2420	e1240	e870	e590	e420	e375	e330	2980	3060	959	1220	839
3	2390	e1340	e850	e580	e420	e375	e330	3180	3000	947	1590	854
4	2330	e1320	e820	e580	e410	e370	e330	2860	3600	933	1730	894
5	2270	e1290	e800	e570	e410	e370	e330	2550	3690	928	1600	928
6	2230	e1270	e780	e570	e400	e365	e340	2510	3020	917	1480	924
7	2190	e1240	e770	e560	e400	e365	e360	2780	2560	930	1370	910
8	2130	e1200	e760	e560	e390	e365	e360	4850	2270	1050	1280	895
9	2070	e1100	e760	e550	e390	e360	e380	6350	2110	1050	1210	876
10	2020	e930	e750	e550	e380	e360	e390	4470	2020	1000	1160	863
11	1980	e820	e740	e530	e380	e360	e420	3720	1980	968	1110	854
12	1930	e730	e730	e520	e380	e360	e450	3300	1920	941	1070	838
13	1870	e600	e720	e510	e380	e365	e470	3340	1800	916	1050	828
14	1830	e500	e710	e500	e380	e370	e500	3680	1690	890	1030	833
15	1760	e470	e700	e500	e380	e375	e510	3370	1600	867	1010	822
16	1670	e460	e690	e500	e380	e370	e530	3140	1540	860	987	814
17	1520	e490	e690	e500	e380	e365	e580	2990	1490	854	967	800
18	1400	e510	e680	e490	e380	e360	e680	2810	1410	841	956	785
19	1300	e560	e680	e480	e380	e360	e760	2600	1360	832	942	774
20	e1120	e610	e680	e470	e380	e355	e820	2490	1310	827	933	768
21	e1050	e660	e680	e460	e380	e355	e970	2330	1250	832	919	774
22	e1020	e720	e680	e450	e380	e350	e1000	2100	1200	836	908	783
23	e1000	e760	e680	e450	e380	e350	e1050	1930	1170	872	899	808
24	e1030	e790	e680	e450	e380	e345	e1200	1860	1130	912	890	811
25	e1120	e830	e680	e450	e380	e345	e1400	2000	1090	947	883	815
26	e1280	e850	e680	e450	e380	e340	e1600	2690	1060	983	872	820
27	e1370	e860	e680	e440	e380	e340	e1800	3110	1030	1010	866	806
28	e1290	e880	e670	e440	e380	e335	e2000	2860	1000	1040	853	800
29	e1200	e890	e660	e440	e380	e335	e2200	2710	988	1020	838	803
30	e1150	e900	e650	e430	---	e330	2330	2770	978	1000	832	802
31	e1100	---	e630	e430	---	e330	---	2970	---	1010	827	---
TOTAL	51480	25940	22440	15600	11270	11075	24750	93820	55326	28942	33402	24950
MEAN	1661	865	724	503	389	357	825	3026	1844	934	1077	832
MAX	2440	1340	890	600	430	375	2330	6350	3690	1050	1730	928
MIN	1000	460	630	430	380	330	330	1860	978	827	827	768
MED	1670	840	690	500	380	360	520	2860	1570	933	987	821
AC-FT	102100	51450	44510	30940	22350	21970	49090	186100	109700	57410	66250	49490
CFSM	0.83	0.43	0.36	0.25	0.19	0.18	0.41	1.52	0.92	0.47	0.54	0.42
IN.	0.96	0.48	0.42	0.29	0.21	0.21	0.46	1.75	1.03	0.54	0.62	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2004, BY WATER YEAR (WY)#

MEAN	1209	602	455	347	287	264	479	3613	2520	2035	2492	2191
MAX	2413	1231	922	595	509	445	1406	10250	6721	6133	13120	5735
(WY)	1962	1994	1994	1987	1968	1968	1993	1948	1949	1949	1967	1962
MIN	461	297	194	163	120	120	209	1050	816	665	682	615
(WY)	1967	1959	1977	1977	1953	1958	1977	1998	1969	1958	1957	1957

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1948 - 2004#
ANNUAL TOTAL	620174	398995	
ANNUAL MEAN	1699	1090	1360
HIGHEST ANNUAL MEAN			2603
LOWEST ANNUAL MEAN			713
HIGHEST DAILY MEAN	10200	Jul 30	64600
LOWEST DAILY MEAN	a340	Apr 7	c120
ANNUAL SEVEN-DAY MINIMUM	346	Apr 3	120
MAXIMUM PEAK FLOW		6780	74400
MAXIMUM PEAK STAGE		6.92	d18.82
ANNUAL RUNOFF (AC-FT)	1230000	791400	985600
ANNUAL RUNOFF (CFSM)	0.852	0.546	0.682
ANNUAL RUNOFF (INCHES)	11.56	7.44	9.27
10 PERCENT EXCEEDS	4220	2350	3070
50 PERCENT EXCEEDS	880	846	725
90 PERCENT EXCEEDS	416	375	240

See Period of Record
a April 7 to 9
b March 30 to April 5
c Monthly means published for Feb. 1953 and Mar. 1958
d Site then in use
e Estimated