

SOUTH-CENTRAL ALASKA

15199500 SINONA CREEK NEAR CHISTOCHINA

LOCATION.--Lat 62°35'28", long 144°38'48", in SW¹/₄ of NW¹/₄ sec. 3, T. 9 N., R. 4 E., (Gulkana C-2 quad), Hydrologic Unit 19020101, on downstream left bank, at Glenn Highway/Tok Cutoff (Alaska Route 1) bridge, 1.8 miles NE of Chistochina.

DRAINAGE AREA.-- 167 mi²

PERIOD OF RECORD.--September 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,900 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. GOES satellite telemetry at station.

REVISIONS.--The maximum discharge for water year 2003 has been revised to 194 ft³/s, May 13, 2003. Revised daily discharges, in cubic feet per second, for May 11-14, 2003, are given below. These figures supercede those published in the report for 2003.

May 11.....160 May 13.....178
 12.....178 May 14.....160

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	16	e10	e5.5	e3.5	e1.4	e3.5	e5.5	e12	27	21	12	12
2	15	e10	e5.5	e3.5	e1.4	e3.5	e5.5	e16	29	20	12	13
3	15	e10	e5.5	e3.5	e1.4	e3.5	e5.5	e21	28	20	11	15
4	15	e9.5	e5.5	e3.0	e1.4	e3.5	e5.5	e29	39	18	11	18
5	15	e9.5	e5.5	e3.0	e1.4	e3.5	e5.5	e39	63	16	10	16
6	16	e9.5	e5.5	e3.0	e1.4	e3.5	e5.5	e50	53	16	9.6	15
7	16	e9.5	e5.5	e3.0	e1.4	e3.5	e6.0	e70	41	17	9.1	14
8	16	e9.5	e5.5	e3.0	e1.4	e3.5	e6.0	e100	37	16	9.5	14
9	17	e9.5	e5.0	e3.0	e2.0	e4.0	e6.0	e135	36	17	8.3	13
10	17	e9.0	e5.0	e3.0	e2.0	e4.0	e6.0	e175	82	16	8.4	13
11	e17	e9.0	e5.0	e3.0	e2.0	e4.0	e6.0	e230	129	15	7.9	13
12	e16	e9.0	e5.0	e3.0	e2.0	e4.5	e6.5	e310	124	14	10	13
13	15	e9.0	e5.0	e3.0	e2.0	e4.5	e6.5	e350	94	13	8.6	13
14	e15	e8.5	e5.0	e2.5	e2.0	e4.5	e6.5	326	70	13	8.4	13
15	15	e8.5	e4.5	e2.5	e2.5	e4.5	e6.5	243	53	12	11	13
16	e15	e8.0	e4.5	e2.5	e2.5	e4.5	e6.5	179	43	14	10	13
17	e15	e7.5	e4.5	e2.5	e2.5	e4.5	e6.5	137	36	12	10	13
18	e15	e7.0	e4.5	e2.5	e2.5	e4.5	e7.0	103	32	10	9.8	13
19	15	e7.0	e4.5	e2.5	e2.5	e4.5	e7.0	79	29	11	9.7	13
20	14	e7.0	e4.5	e2.5	e2.5	e4.5	e7.0	62	28	10	11	14
21	14	e7.0	e4.5	e2.0	e3.0	e5.0	e7.0	50	25	12	12	14
22	e14	e7.0	e4.5	e2.0	e3.0	e5.0	e7.5	41	25	12	11	14
23	16	e6.5	e4.0	e2.0	e3.0	e5.0	e7.5	35	24	11	11	16
24	14	e6.5	e4.0	e2.0	e3.0	e5.0	e7.5	32	22	12	11	17
25	14	e6.0	e4.0	e2.0	e3.0	e5.0	e7.5	30	21	14	11	16
26	15	e6.0	e4.0	e2.0	e3.0	e5.0	e8.0	28	22	13	12	16
27	15	e6.0	e4.0	e2.0	e3.0	e5.0	e8.0	27	22	13	12	17
28	e14	e6.0	e3.5	e2.0	e3.0	e5.0	e8.5	28	20	13	13	17
29	e13	e6.0	e3.5	e1.4	e3.0	e5.5	e8.5	27	20	14	14	17
30	e12	e5.5	e3.5	e1.4	---	e5.5	e8.5	26	19	13	13	16
31	e11	---	e3.5	e1.4	---	e5.5	---	28	---	12	13	---
TOTAL	462	239.0	144.0	78.2	65.2	137.0	201.5	3018	1293	440	330.3	434
MEAN	14.9	7.97	4.65	2.52	2.25	4.42	6.72	97.4	43.1	14.2	10.7	14.5
MAX	17	10	5.5	3.5	3.0	5.5	8.5	350	129	21	14	18
MIN	11	5.5	3.5	1.4	1.4	3.5	5.5	12	19	10	7.9	12
AC-FT	916	474	286	155	129	272	400	5990	2560	873	655	861
CFSM	0.09	0.05	0.03	0.02	0.01	0.03	0.04	0.58	0.26	0.09	0.06	0.09
IN.	0.10	0.05	0.03	0.02	0.01	0.03	0.04	0.67	0.29	0.10	0.07	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)#

	2002	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
MEAN	53.4	18.4	6.09	4.05	6.22	6.22	8.49	103	41.3	15.0	11.7	33.5
MAX	91.9	28.9	7.53	5.58	10.3	8.02	10.3	110	43.1	15.7	12.7	70.8
(WY)	2003	2003	2003	2003	2003	2003	2003	2003	2004	2003	2003	2002
MIN	14.9	7.97	4.65	2.52	2.25	4.42	6.72	97.4	39.5	14.2	10.7	14.5
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2003	2004	2004	2004

See Period of Record, partial years used in monthly statistics
 e Estimated

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004#	
ANNUAL TOTAL	7779.8		6842.2			
ANNUAL MEAN	21.3		18.7		24.3	
HIGHEST ANNUAL MEAN					29.8	2003
LOWEST ANNUAL MEAN					18.7	2004
HIGHEST DAILY MEAN	178	May 12	350	May 13	350	May 13 2004
LOWEST DAILY MEAN	a3.5	Dec 28	b1.4	Jan 29	b1.4	Jan 29 2004
ANNUAL SEVEN-DAY MINIMUM	3.7	Dec 25	1.4	Jan 29	1.4	Jan 29 2004
MAXIMUM PEAK FLOW			370	May 13	370	May 13 2004
MAXIMUM PEAK STAGE			7.75	May 13	7.75	May 13 2004
MAXIMUM PEAK STAGE			c11.55	May 01	c11.55	May 01 2004
ANNUAL RUNOFF (AC-FT)	15430		13570		17570	
ANNUAL RUNOFF (CFSM)	0.128		0.112		0.145	
ANNUAL RUNOFF (INCHES)	1.73		1.52		1.97	
10 PERCENT EXCEEDS	48		29		65	
50 PERCENT EXCEEDS	12		9.5		12	
90 PERCENT EXCEEDS	5.5		2.5		4.0	

See Period of Record, partial years used in monthly statistics

a Dec. 28-31

b Jan. 29 to Feb. 8

c Backwater from ice