

SOUTH-CENTRAL ALASKA

15215990 NICOLET CREEK NEAR CORDOVA

LOCATION.--Lat 60°31'09", long 145°47'23", in SW¹/₄ SW¹/₄ SE¹/₄ sec. 32, T. 15 S., R. 3 W. (Cordova C-5 quad), Hydrologic Unit 19020201, on right bank 275 ft upstream from culvert for Whitshed Road, 475 ft upstream from mouth and 2.1 mi southwest of Cordova.

DRAINAGE AREA.--0.75 mi².

PERIOD OF RECORD.--Annual maximum, water years 1991-99. September 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 40 ft above sea level, from topographic map.

REMARKS.--Records good except for discharges greater than 60 ft³/s, which are fair; and estimated daily discharges, which are poor.

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	e8.5	0.86	e0.90	e1.1	e1.5	0.89	0.99	19	15	0.34	1.4	0.63
2	e18	0.97	e0.70	e1.0	e1.1	3.1	94	19	4.7	0.28	0.95	13
3	e70	0.82	e0.60	e1.0	e1.3	8.9	61	8.1	4.5	0.28	0.61	13
4	3.8	0.72	e0.90	e1.0	e9.0	e3.0	13	7.9	1.9	0.74	0.41	3.3
5	12	0.66	e0.60	e1.0	e15	e1.5	6.2	7.8	1.3	0.83	0.34	1.5
6	29	1.9	e1.0	e1.0	e10	e1.0	44	7.3	1.1	0.54	0.29	1.1
7	43	14	e1.0	e1.0	e6.0	e1.0	58	7.8	0.87	0.31	0.27	0.81
8	6.2	57	e5.0	e1.0	e21	e1.0	16	5.5	1.2	0.25	0.25	0.71
9	14	5.0	e12	e1.5	e10	e1.0	31	6.8	1.2	0.22	0.23	0.62
10	34	1.7	8.8	e2.5	111	e2.0	6.4	5.7	2.2	0.24	0.20	0.59
11	2.6	3.0	20	e1.1	25	4.4	4.0	5.1	2.5	0.22	0.33	0.51
12	1.9	15	12	e1.0	e2.0	8.1	3.7	5.5	1.2	0.21	0.38	0.50
13	1.5	2.6	16	e0.90	e1.5	5.5	3.5	4.6	0.80	0.20	0.26	0.44
14	1.2	1.5	4.6	e0.85	e1.0	2.8	5.0	3.9	0.61	0.21	0.23	0.45
15	1.0	1.2	4.7	e0.80	e0.90	1.8	5.8	3.0	0.66	0.19	0.19	0.46
16	0.85	0.96	4.8	e0.75	e0.80	1.5	6.9	16	6.9	0.17	0.17	0.38
17	0.74	e0.90	31	e0.70	e0.70	1.2	10	16	31	0.20	0.15	0.37
18	1.5	e0.80	4.4	e0.70	e0.70	e1.1	18	4.8	2.7	1.1	0.14	0.34
19	28	e0.70	18	2.1	e2.0	e1.3	5.9	3.4	1.2	1.5	0.33	0.98
20	15	e0.60	8.2	48	30	e1.1	4.6	2.6	0.82	0.62	0.51	18
21	2.4	e1.0	37	83	86	e1.0	4.4	2.0	0.61	1.5	0.27	15
22	1.6	e3.0	28	26	21	e0.90	27	1.7	0.46	31	0.21	49
23	23	e2.0	3.3	e4.0	e3.5	0.83	15	3.4	0.39	5.7	0.17	38
24	11	e1.5	2.6	e2.0	e3.0	0.74	25	29	0.33	1.9	0.14	3.9
25	34	e1.1	3.5	e1.5	e2.5	1.6	49	33	0.30	1.5	0.13	66
26	22	e1.1	1.8	e1.1	e2.0	1.9	8.4	6.0	0.26	29	6.8	e200
27	5.5	e1.0	1.2	e1.1	e2.0	2.1	51	2.1	0.25	74	24	e50
28	2.0	e1.0	1.1	e1.0	e1.0	1.5	56	3.9	0.26	25	23	e20
29	1.3	e1.0	e3.0	e1.0	e1.0	1.7	24	2.3	0.32	6.2	2.4	e18
30	1.1	e0.95	e2.0	e1.0	---	1.3	13	1.4	0.30	2.9	1.2	e80
31	0.97	---	e1.5	e1.1	---	1.2	---	7.1	---	2.1	0.77	---
TOTAL	397.66	124.54	240.20	191.80	372.50	66.96	670.79	251.7	85.84	189.45	66.73	597.59
MEAN	12.8	4.15	7.75	6.19	12.8	2.16	22.4	8.12	2.86	6.11	2.15	19.9
MAX	70	57	37	83	111	8.9	94	33	31	74	24	200
MIN	0.74	0.60	0.60	0.70	0.70	0.74	0.99	1.4	0.25	0.17	0.13	0.34
AC-FT	789	247	476	380	739	133	1330	499	170	376	132	1190
CFSM	17.1	5.54	10.3	8.25	17.1	2.88	29.8	10.8	3.82	8.15	2.87	26.6
IN.	19.72	6.18	11.91	9.51	18.48	3.32	33.27	12.48	4.26	9.40	3.31	29.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)#

	2000	2001	2002	2003	2004
MEAN	16.0	11.0	12.7	13.6	10.5
MAX	20.2	19.8	20.4	26.6	20.7
(WY)	2001	2003	2000	2001	2003
MIN	10.4	4.15	5.33	6.19	2.00
(WY)	2002	2004	2003	2004	2002

See Period of Record and Remarks
e Estimated

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15215990 NICOLET CREEK NEAR CORDOVA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004#	
ANNUAL TOTAL	2873.75		3255.76			
ANNUAL MEAN	7.87		8.90		10.1	
HIGHEST ANNUAL MEAN					11.7 2001	
LOWEST ANNUAL MEAN					8.90 2004	
HIGHEST DAILY MEAN	124	Feb 5	200	Sep 26	200	Sep 26 2004
LOWEST DAILY MEAN	a0.10	Mar 12	0.13	Aug 25	a0.10	Mar 12 2003
ANNUAL SEVEN-DAY MINIMUM	0.41	Apr 1	0.20	Jul 11	0.19	Jun 27 2001
MAXIMUM PEAK FLOW			b740	Sep 26	cd988	Nov 3 1994
MAXIMUM PEAK STAGE					d19.60	Nov 3 1994
MAXIMUM PEAK STAGE			26.53	Sep 26	26.53	Sep 26 2004
INSTANTANEOUS LOW FLOW			f0.10	Jul 17	f0.10	Jul 17 2004
ANNUAL RUNOFF (AC-FT)	5700		6460		7290	
ANNUAL RUNOFF (CFSM)	10.5		11.9		13.4	
ANNUAL RUNOFF (INCHES)	142.54		161.49		182.19	
10 PERCENT EXCEEDS	23		26		30	
50 PERCENT EXCEEDS	2.0		1.7		3.5	
90 PERCENT EXCEEDS	0.55		0.33		0.74	

See Period of Record and Remarks

a Mar. 12 and 13

b From rating extended above 33 ft³/s on basis of step-backwater analysis

c From rating curve extended above 66 ft³/s on basis of slope-area measurement of peak flow

d Site and datum then in use

f Minimum observed, but may have been lower during periods of ice effect.