

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.--Record is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e20	3.2	107	e0.10	e0.40	21	2.0	1.4	2.8	0.24	13	0.25
2	e10	2.3	59	e0.50	e0.40	7.3	1.5	2.4	1.6	0.43	23	0.30
3	e100	31	9.0	e20	e0.30	40	1.1	2.8	1.00	0.68	29	0.34
4	e60	5.0	3.4	e60	e0.20	14	0.84	5.9	0.78	0.38	50	6.8
5	e10	3.1	2.3	e3.0	e0.20	44	3.1	4.1	0.64	0.29	11	50
6	e4.0	2.1	1.8	e0.60	e0.20	25	37	2.7	0.55	0.23	1.9	56
7	e3.0	2.1	1.5	e0.60	e1.0	48	13	2.1	0.51	0.28	0.93	9.9
8	e2.5	2.3	1.1	e0.50	e7.0	72	5.3	1.8	0.52	0.81	0.57	1.9
9	e2.0	6.4	e1.0	e0.50	e1.0	20	4.6	1.5	0.89	0.37	0.73	2.9
10	e4.0	159	e1.0	e0.50	e1.0	75	7.0	1.2	0.66	0.27	0.87	32
11	e4.0	61	e2.0	e0.30	e0.50	96	5.2	0.97	5.6	0.23	1.0	1.6
12	e60	52	e2.0	e0.50	e0.50	96	4.0	39	2.6	0.47	0.84	3.3
13	e30	37	e2.0	e0.50	e0.50	47	4.3	29	0.91	1.7	0.70	1.9
14	e6.0	4.8	e1.5	e0.50	e25	7.1	4.9	48	0.64	0.56	0.91	1.1
15	e3.0	3.1	e1.5	e0.50	50	3.7	4.0	10	0.53	0.34	0.83	12
16	e2.5	7.8	e1.5	e0.50	6.3	2.1	3.4	4.4	0.49	16	0.93	30
17	e2.0	4.1	e2.0	e0.50	12	1.8	3.5	7.7	0.41	10	1.3	26
18	e2.0	30	e8.0	e1.0	4.0	1.3	34	4.6	0.45	3.3	4.8	2.3
19	e6.0	56	e3.0	e1.5	15	1.2	53	1.5	0.67	4.3	5.1	1.2
20	e5.0	9.8	e1.5	e5.0	21	0.89	93	1.00	3.9	1.8	2.0	0.98
21	e7.0	2.1	e1.5	e2.0	14	0.66	21	1.5	1.0	10	62	1.2
22	e5.0	17	e8.0	e3.0	38	0.93	128	1.8	0.67	1.7	5.3	1.8
23	3.7	12	e5.0	e1.0	14	1.0	14	1.0	0.92	0.90	118	15
24	5.4	27	e2.0	e0.40	4.9	0.72	3.8	0.92	0.58	0.96	7.6	54
25	1.9	39	e0.60	e0.40	25	0.66	2.9	0.91	0.44	56	1.4	6.0
26	32	5.4	e0.40	e0.40	27	0.57	2.3	12	0.36	42	1.1	3.7
27	14	72	e0.30	e0.40	7.2	18	2.2	41	0.32	16	0.97	5.7
28	32	127	e0.20	e0.40	60	6.2	2.6	16	0.31	4.3	0.61	35
29	27	30	e0.10	e0.40	---	2.1	2.4	29	0.28	1.7	0.84	2.6
30	14	30	e0.10	e0.40	---	1.5	1.7	17	0.23	1.1	0.61	4.0
31	5.6	---	e0.10	e0.40	---	2.4	---	6.0	---	33	0.49	---
TOTAL	483.6	843.6	230.40	106.30	336.60	658.13	465.64	299.20	31.26	210.34	348.33	369.77
MEAN	15.6	28.1	7.43	3.43	12.0	21.2	15.5	9.65	1.04	6.79	11.2	12.3
MAX	100	159	107	60	60	96	128	48	5.6	56	118	56
MIN	1.9	2.1	0.10	0.10	0.20	0.57	0.84	0.91	0.23	0.23	0.49	0.25
AC-FT	959	1670	457	211	668	1310	924	593	62	417	691	733
CFMSM	20.8	37.5	9.91	4.57	16.0	28.3	20.7	12.9	1.39	9.05	15.0	16.4
IN.	23.99	41.84	11.43	5.27	16.70	32.64	23.10	14.84	1.55	10.43	17.28	18.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)#

	2000	2001	2002	2003	2004	2005
MEAN	15.9	13.8	11.8	11.9	10.8	7.84
MAX	20.2	28.1	20.4	26.6	20.7	21.2
(WY)	2001	2005	2000	2001	2003	2005
MIN	10.4	4.15	5.33	3.43	2.00	2.16
(WY)	2002	2004	2003	2005	2002	2004

See Period of Record
e Estimated

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15215990 NICOLET CREEK NEAR CORDOVA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005#	
ANNUAL TOTAL	4050.96		4383.17			
ANNUAL MEAN	11.1		12.0		10.4	
HIGHEST ANNUAL MEAN					12.0	
LOWEST ANNUAL MEAN					8.90	
HIGHEST DAILY MEAN	200		159		200	
LOWEST DAILY MEAN	a	0.10	a	0.10	b	0.10
ANNUAL SEVEN-DAY MINIMUM	0.20	Jul 11	0.19	Dec 26	0.19	Dec 26
MAXIMUM PEAK FLOW			c	488	d	f988
MAXIMUM PEAK STAGE			25.75	Aug 23	f	19.60
MAXIMUM PEAK STAGE					g	26.53
INSTANTANEOUS LOW FLOW					g	0.10
ANNUAL RUNOFF (AC-FT)	8040		8690		7520	
ANNUAL RUNOFF (CFSM)	14.8		16.0		13.8	
ANNUAL RUNOFF (INCHES)	200.93		217.41		188.08	
10 PERCENT EXCEEDS	31		39		31	
50 PERCENT EXCEEDS	2.1		2.4		3.3	
90 PERCENT EXCEEDS	0.30		0.40		0.62	

See Period of Record

a Dec. 29 to Jan. 1 estimated

b Mar. 12 and Mar. 13

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

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

f Site and datum then in use

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