

Water-Data Report 2011

**15215990 NICOLET CREEK NEAR CORDOVA, AK**

Prince William Sound Basin  
Eastern Prince William Sound Subbasin

LOCATION.--Lat 60°31'09", long 145°47'23" referenced to North American Datum of 1927, in SW ¼ SW ¼ SE ¼ sec.32, T.15 S., R.3 W., Valdez-Cordova Division, AK, Hydrologic Unit 19020201, (Cordova C-5 quad), 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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Annual maximum, water years 1991-99. September 1999 to May 2011 (discontinued).

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

REMARKS.--Record is poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 390 ft<sup>3</sup>/s, Feb. 1, gage height, 25.20 ft; minimum discharge, 0.18 ft<sup>3</sup>/s, Oct. 12, gage height, 21.97 ft

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	32	10	e0.69	e37	e160	e0.68	9.6	6.9	---	---	---	---
2	44	12	e0.63	81	e35	e0.67	4.1	5.9	---	---	---	---
3	19	14	e0.60	52	e10	e0.66	3.9	8.8	---	---	---	---
4	44	73	e7.0	38	e4.0	e0.65	14	14	---	---	---	---
5	6.7	15	4.5	13	e3.3	e0.64	22	13	---	---	---	---
6	50	22	23	2.8	e2.8	e0.63	7.4	7.3	---	---	---	---
7	19	7.9	5.0	e2.0	e2.4	e0.62	4.3	6.8	---	---	---	---
8	7.1	9.4	3.6	e1.7	e4.2	e0.61	22	6.0	---	---	---	---
9	4.3	12	1.9	e1.4	e9.8	e0.60	5.2	6.9	---	---	---	---
10	3.7	3.4	16	e1.2	e2.9	e0.59	3.7	6.6	---	---	---	---
11	18	9.0	17	e1.1	e6.3	e0.58	3.2	7.0	---	---	---	---
12	3.3	25	4.5	e0.96	e2.8	e0.57	2.8	6.0	---	---	---	---
13	1.9	17	e2.6	e0.87	e1.7	e0.56	2.3	6.2	---	---	---	---
14	1.5	6.0	e1.8	e0.79	e1.5	e0.55	2.7	5.9	---	---	---	---
15	1.3	3.3	e1.3	e0.74	e1.3	e0.54	3.8	5.3	---	---	---	---
16	13	2.1	e1.0	e0.68	e1.2	e0.53	4.3	4.9	---	---	---	---
17	9.9	1.4	e0.85	e0.65	e1.1	e0.52	4.4	---	---	---	---	---
18	25	1.2	e0.74	e0.62	e1.0	e0.51	4.4	---	---	---	---	---
19	15	1.1	e0.67	e0.59	e0.93	e0.50	4.4	---	---	---	---	---
20	5.0	0.97	e0.61	e1.3	e0.88	e0.49	4.3	---	---	---	---	---
21	3.5	0.93	e0.57	e21	e0.85	e0.48	45	---	---	---	---	---
22	1.7	0.93	e0.52	e18	e0.82	e0.47	69	---	---	---	---	---
23	1.4	4.1	e0.48	e24	e0.78	e0.46	29	---	---	---	---	---
24	1.2	41	e0.45	e35	e0.76	e2.0	12	---	---	---	---	---
25	7.7	20	e0.42	e37	e0.74	1.6	14	---	---	---	---	---
26	5.5	2.3	e0.40	e20	e0.72	1.3	14	---	---	---	---	---
27	4.4	1.3	e0.37	e9.2	e0.71	8.3	7.0	---	---	---	---	---
28	51	e1.0	e0.35	e2.0	e0.69	11	6.0	---	---	---	---	---
29	12	e0.85	e0.33	e1.4	---	14	5.4	---	---	---	---	---
30	3.6	e0.74	e5.0	e1.1	---	24	9.5	---	---	---	---	---
31	11	---	e65	e20	---	27	---	---	---	---	---	---
<b>Total</b>	426.7	318.92	167.88	427.10	259.18	102.31	343.7	---	---	---	---	---
<b>Mean</b>	13.8	10.6	5.42	13.8	9.26	3.30	11.5	---	---	---	---	---
<b>Max</b>	51	73	65	81	160	27	69	---	---	---	---	---
<b>Min</b>	1.2	0.74	0.33	0.59	0.69	0.46	2.3	---	---	---	---	---
<b>Ac-ft</b>	846	633	333	847	514	203	682	---	---	---	---	---
<b>Cfsm</b>	18.4	14.2	7.22	18.4	12.3	4.40	15.3	---	---	---	---	---
<b>In.</b>	21.16	15.82	8.33	21.18	12.86	5.07	17.05	---	---	---	---	---

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2011, BY WATER YEAR (WY) #**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	14.6	12.4	10.3	8.49	7.41	5.24	10.4	10.9	4.33	5.25	8.78	10.7
<b>Max</b>	28.2	28.1	26.5	26.6	20.7	21.2	22.4	16.1	9.35	7.60	21.4	19.9
<b>(WY)</b>	(2007)	(2005)	(2006)	(2001)	(2003)	(2005)	(2004)	(2000)	(2002)	(2010)	(2006)	(2004)
<b>Min</b>	5.81	1.94	1.05	0.37	0.63	0.63	3.02	6.27	1.04	1.27	0.80	5.36
<b>(WY)</b>	(2010)	(2007)	(2008)	(2008)	(2009)	(2009)	(2009)	(2003)	(2005)	(2007)	(2007)	(2010)

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SUMMARY STATISTICS

	Calendar Year 2010	Water Years 2000 - 2011 <sup>#</sup>
<b>Annual total</b>	2,753.21	
<b>Annual mean</b>	7.54	9.09
<b>Highest annual mean</b>		12.0 2005
<b>Lowest annual mean</b>		6.02 2009
<b>Highest daily mean</b>	73 Nov 4	245 Oct 9, 2006
<b>Lowest daily mean</b>	0.33 Dec 29	0.10 Mar 12, 2003
<b>Annual seven-day minimum</b>	0.40 Dec 23	0.10 Feb 28, 2007
<b>Maximum peak flow</b>		<sup>a</sup> 988 Nov 3, 1994
<b>Maximum peak stage</b>		<sup>b</sup> 26.53 Sep 26, 2004
<b>Annual runoff (ac-ft)</b>	5,460	6,580
<b>Annual runoff (cfsm)</b>	10.1	12.1
<b>Annual runoff (inches)</b>	136.56	164.64
<b>10 percent exceeds</b>	20	25
<b>50 percent exceeds</b>	3.5	2.9
<b>90 percent exceeds</b>	1.1	0.53

<sup>#</sup> See period of record, partial years used in monthly statistics.

<sup>a</sup> From rating curve extended above 66 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow

<sup>b</sup> Site and datum then in use

