Water-Data Report 2013

15243900 SNOW RIVER NEAR SEWARD, AK

Kenai Peninsula Basin
Upper Kenai Peninsula Subbasin

LOCATION.--Lat 60°17′42″, long 149°20′38″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.6, T.2 N., R.1 E., Kenai Peninsula Borough, AK, Hydrologic Unit 19020302, (Seward B-7 quad), on left bank, 0.5 mi below the Alaska Railroad bridge, 3.0 mi upstream from the mouth at Kenai Lake, and 13.5 mi north Seward.

DRAINAGE AREA.--148 mi^2 (revised from 128 mi^2 in WY 1998).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August to September of 1970, 1974, 1977 and April 1997 to current year.

GAGE.--Water stage recorder. Elevation of gage is 470 ft above sea level, from topographic map. Prior to April 9, 1998 at site 0.5 mi upstream at different datum.

REMARKS.--Records fair, except for estimated periods which are poor. Rain gage at station. GOES satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Glacier-dammed lake outburst flood about August 31, 1967, 55,000 ft^3/s from rating curve extended above 27,000 ft^3/s, gage-height 42.60 ft from floodmarks, site and datum then in use.

REVISIONS.--On February 13, 2014, maximum discharges for water years 1999 and 2003-20012 were revised as shown in the following table. They supersede figures previously published in Water-Data Reports for those years. Previous or subsequent revisions to data presented in this report, if any, are available in USGS Water Data for the Nation at http://waterdata.usgs.gov/nwis/inventory?search_site_no=15243900.

REVISED MAXIMUM DISCHARGES

Water Year	Date	Discharge (ft^3/s)	Gage height (ft)
1999	Oct. 10, 1998	15,000	13.30
2003	Nov. 6, 2002	19,800	13.53
2004	Nov.16, 2003	22,900	14.07
2005	Sep. 1, 2005	8,800	11.00
2006	Oct. 30, 2005	19,100	13.40
2007	Oct. 9, 2006	19,900	13.55
2008	Nov. 9, 2008	18,900	13.36
2009	Jul. 31, 2009	9,570	11.23
2010	Oct. 12, 2009	18,900	13.36
2011	Sep. 6, 2011	15,000	12.59
2012	Nov. 3, 2011	20,100	13.59

15243900 SNOW RIVER NEAR SEWARD, AK—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

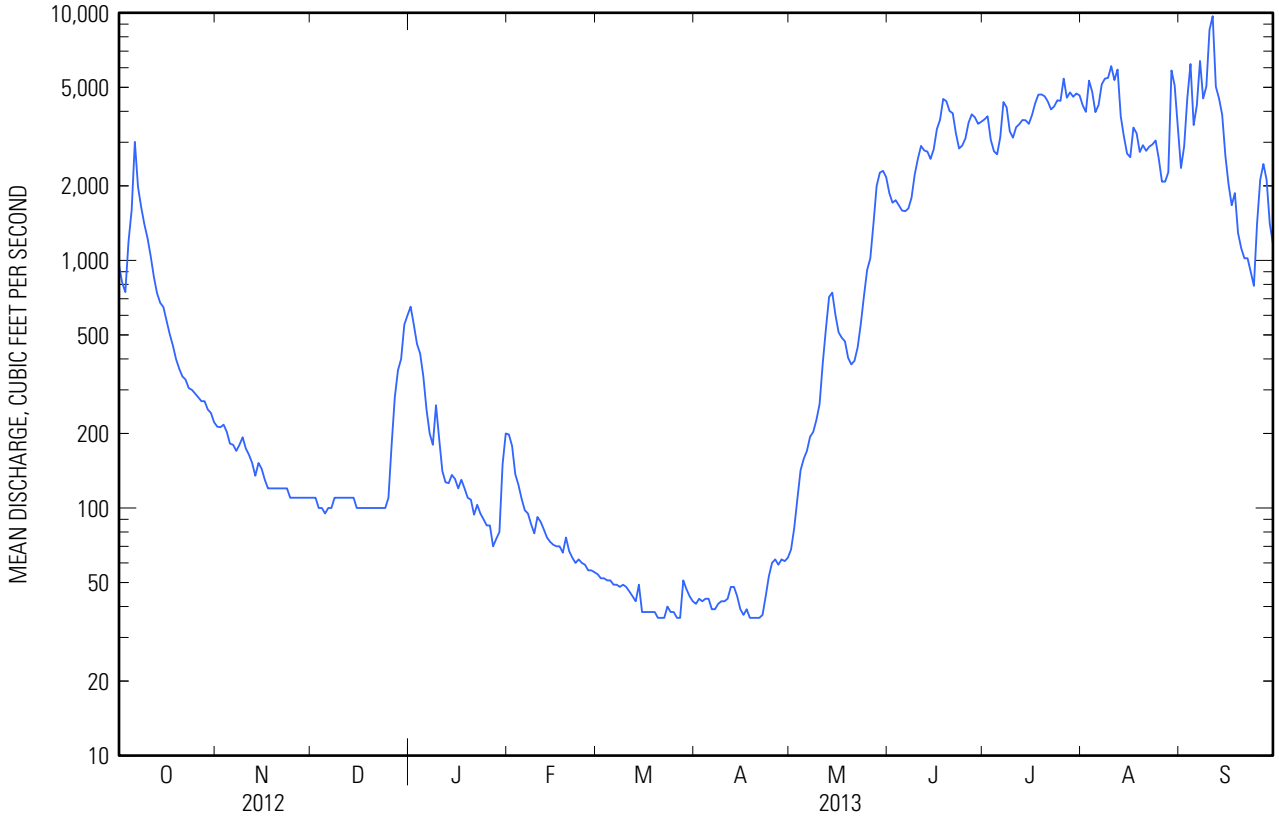
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	955	213	e110	e650	198	54	41	68	1,870	3,710	4,230	2,360
2	813	212	e110	e550	178	52	43	83	1,710	3,820	3,980	2,890
3	745	217	e100	e460	137	52	42	109	1,750	3,070	5,320	4,530
4	1,190	203	e100	e420	124	51	43	142	1,670	2,760	4,790	6,210
5	1,600	182	e95	e340	109	51	43	158	1,590	2,680	3,970	3,520
6	3,010	e180	e100	e250	98	49	39	170	1,580	3,150	4,240	4,230
7	1,980	e170	e100	e200	95	49	39	194	1,620	4,360	5,140	6,390
8	1,640	e180	e110	e180	86	48	41	203	1,790	4,150	5,420	4,510
9	1,400	193	e110	e260	79	49	42	227	2,220	3,320	5,460	5,040
10	1,230	174	e110	e190	92	48	42	263	2,570	3,130	6,090	8,540
11	1,040	164	e110	141	88	46	43	385	2,900	3,450	5,350	9,690
12	858	152	e110	127	82	e44	48	530	2,780	3,550	5,900	5,030
13	737	135	e110	126	76	e42	48	712	2,750	3,690	3,820	4,510
14	674	152	e110	136	73	49	44	741	2,570	3,680	3,160	3,870
15	648	144	e100	131	71	e38	39	602	2,810	3,560	2,700	2,650
16	571	130	e100	120	70	e38	37	512	3,390	3,860	2,610	2,030
17	504	e120	e100	130	70	e38	39	487	3,700	4,310	3,440	1,670
18	453	e120	e100	e120	66	e38	36	471	4,490	4,670	3,260	1,870
19	399	e120	e100	e110	76	e38	36	404	4,390	4,680	2,740	1,290
20	365	e120	e100	108	67	e36	36	380	4,010	4,600	2,920	1,120
21	340	e120	e100	94	63	e36	36	393	3,930	4,380	2,770	1,020
22	330	e120	e100	103	60	e36	37	445	3,260	4,070	2,880	1,020
23	305	e120	e100	e95	62	e40	44	554	2,830	4,190	2,940	899
24	300	e110	e100	e90	60	e38	53	719	2,910	4,430	3,050	789
25	290	e110	e110	e85	59	e38	60	915	3,110	4,410	2,570	1,410
26	280	e110	e180	e85	56	e36	62	1,020	3,600	5,420	2,080	2,120
27	270	e110	e280	e70	56	e36	59	1,410	3,890	4,540	2,080	2,450
28	270	e110	e360	e75	55	51	62	2,000	3,780	4,770	2,270	2,120
29	250	e110	e400	e80	---	47	61	2,260	3,560	4,580	5,850	1,410
30	242	e110	e550	e150	---	44	63	2,300	3,630	4,720	5,090	1,170
31	222	---	e600	e200	---	42	---	2,170	---	4,640	3,460	---
Total	23,911	4,411	4,965	5,876	2,406	1,354	1,358	21,027	86,660	124,350	119,580	96,358
Mean	771	147	160	190	85.9	43.7	45.3	678	2,889	4,011	3,857	3,212
Max	3,010	217	600	650	198	54	63	2,300	4,490	5,420	6,090	9,690
Min	222	110	95	70	55	36	36	68	1,580	2,680	2,080	789
Ac-ft	47,430	8,750	9,850	11,660	4,770	2,690	2,690	41,710	171,900	246,600	237,200	191,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2013, BY WATER YEAR (WY)#

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,349	747	255	153	120	82.8	164	866	2,126	3,011	2,849	2,704
Max	2,819	2,527	713	524	444	220	368	1,458	2,889	4,011	5,598	6,294
(WY)	(2010)	(2008)	(2003)	(2001)	(2003)	(1998)	(2005)	(2005)	(2013)	(2013)	(1977)	(1974)
Min	279	124	87.3	57.0	42.0	39.2	45.3	491	1,513	2,163	1,764	1,157
(WY)	(1998)	(2007)	(1999)	(1999)	(1999)	(1999)	(2013)	(2001)	(2011)	(2011)	(1998)	(2000)

15243900 SNOW RIVER NEAR SEWARD, AK—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1970 - 2013#	
Annual total	428,280		492,256			
Annual mean	1,170		1,349		1,168	
Highest annual mean					1,412	2001
Lowest annual mean					965	2000
Highest daily mean	10,700	Sep 20	9,690	Sep 11	[a]23,800	Sep 20, 1974
Lowest daily mean	49	Jan 26	36	Mar 20	24	Apr 4, 2007
Annual seven-day minimum	49	Jan 25	37	Apr 16	29	Mar 30, 2007
Maximum peak flow			12,100	Sep 11	[a]26,400	Sep 20, 1974
Maximum peak stage			11.90	Sep 11	[b]40.75	Sep 20, 1974
Instantaneous low flow			[c]22	Apr 10	20	Apr 5, 2007
Annual runoff (ac-ft)	849,500		976,400		845,800	
10 percent exceeds	3,090		4,230		3,030	
50 percent exceeds	328		260		424	
90 percent exceeds	55		44		65	

See Period of Record, partial years used in monthly summary statistics
a Result of release of stored water from glacier-dammed lake
b Site and datum then in use
c Apr. 10-11