Water-Data Report 2011

15908000 SAGAVANIRKTOK RIVER NEAR PUMP STATION 3, AK

Prudhoe Bay Basin
Sagavanirktok River Subbasin

LOCATION.--Lat 69°00′54″, long 148°49′02″ referenced to North American Datum of 1927, in NW ¼ sec.16, T.5 S., R.14 E., North Slope Borough, AK, Hydrologic Unit 19060402, (Sagavanirktok River A-4 quad), on left bank 600 ft east of Dalton Highway at mi 324.7, 6.0 mi upstream from Lupine River, and 15 mi north of Pump Station 3.

DRAINAGE AREA.--1,860 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1982 to current year.

REVISED RECORDS.--WDR AK-03-1:1991(M), 1992(M), 1999(M).

GAGE.--Water-stage recorder. Elevation is 1,150 ft above sea level, from topographic map.

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

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 15908000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/15908000.2011.pdf

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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	e900	e540	e240	e95	e75	e60	e60	e120	4,570	3,030	4,220	1,190
2	e850	e520	e240	e95	e75	e60	e60	e120	3,630	3,340	4,350	1,200
3	e800	e500	e240	e95	e75	e60	e60	e120	3,220	3,380	6,810	1,300
4	e700	e480	e220	e95	e75	e60	e60	e120	2,880	3,280	6,520	1,370
5	e700	e460	e220	e90	e70	e60	e60	e120	2,600	2,970	5,690	1,450
6	e600	e460	e220	e90	e70	e60	e60	e120	2,700	2,620	4,990	1,580
7	e550	e440	e200	e90	e70	e60	e60	e120	2,980	2,400	4,130	1,810
8	e500	e440	e200	e90	e70	e60	e60	e120	3,150	2,420	3,490	1,920
9	e460	e420	e190	e90	e70	e60	e60	e120	2,820	2,450	2,980	1,960
10	e420	e400	e190	e90	e70	e60	e60	e130	2,340	2,290	2,620	2,040
11	e400	e400	e180	e90	e70	e60	e60	e140	2,110	2,170	2,350	2,040
12	e380	e380	e180	e90	e70	e60	e60	e160	2,010	2,170	2,130	1,970
13	e380	e380	e170	e90	e70	e60	e60	e180	1,760	2,870	1,950	1,850
14	e360	e360	e170	e90	e65	e60	e60	e200	1,660	9,160	1,890	1,750
15	e360	e360	e160	e85	e65	e60	e65	e230	1,610	10,300	1,830	1,670
16	e360	e360	e160	e85	e65	e60	e70	e270	1,960	7,110	1,780	1,640
17	e380	e360	e150	e85	e65	e60	e75	e350	2,000	6,150	1,710	1,680
18	e420	e340	e150	e85	e65	e60	e80	e550	2,160	5,640	1,640	1,670
19	e460	e340	e140	e85	e65	e60	e80	e850	2,350	4,950	1,560	1,650
20	e500	e340	e140	e85	e65	e60	e80	e1,600	2,310	4,290	1,490	1,610
21	e540	e340	e130	e85	e65	e60	e80	e3,000	2,530	3,700	1,420	1,570
22	e580	e340	e130	e80	e65	e60	e80	e5,000	2,900	3,530	1,370	1,500
23	e620	e340	e120	e80	e65	e60	e80	e10,000	4,360	3,240	1,300	1,430
24	e660	e320	e120	e80	e65	e60	e80	e14,500	7,620	2,960	1,250	1,360
25	e660	e300	e110	e80	e65	e60	e80	e16,500	8,660	2,740	1,210	1,260
26	e660	e300	e110	e80	e65	e60	e100	e14,000	5,740	2,750	1,190	1,110
27	e620	e280	e100	e80	e65	e60	e115	12,600	4,620	2,780	1,190	1,020
28	e600	e280	e100	e80	e65	e60	e120	11,700	3,960	2,630	1,140	956
29	e580	e260	e100	e80	---	e60	e120	9,310	4,180	2,610	1,120	937
30	e560	e260	e100	e75	---	e60	e120	7,360	3,500	2,870	1,190	949
31	e540	---	e95	e75	---	e60	---	6,060	---	3,170	1,150	---
Total	17,100	11,300	4,975	2,665	1,905	1,860	2,265	115,770	98,890	115,970	77,660	45,442
Mean	552	377	160	86.0	68.0	60.0	75.5	3,735	3,296	3,741	2,505	1,515
Max	900	540	240	95	75	60	120	16,500	8,660	10,300	6,810	2,040
Min	360	260	95	75	65	60	60	120	1,610	2,170	1,120	937
Ac-ft	33,920	22,410	9,870	5,290	3,780	3,690	4,490	229,600	196,100	230,000	154,000	90,130
Cfsm	0.30	0.20	0.09	0.05	0.04	0.03	0.04	2.01	1.77	2.01	1.35	0.81
In.	0.34	0.23	0.10	0.05	0.04	0.04	0.05	2.32	1.98	2.32	1.55	0.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2011, BY WATER YEAR (WY)#

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	608	241	104	56.5	38.7	32.4	33.0	1,392	5,650	4,784	3,926	1,766
Max	1,372	402	242	205	185	169	159	3,735	9,737	7,370	6,883	3,984
(WY)	(2004)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)	(2011)	(1992)	(1995)	(2010)	(1997)
Min	279	76.0	4.03	0.00	0.00	0.00	0.00	4.77	3,296	2,839	1,464	679
(WY)	(1983)	(1984)	(1991)	(1983)	(1983)	(1983)	(1984)	(1986)	(2011)	(1991)	(2005)	(2008)

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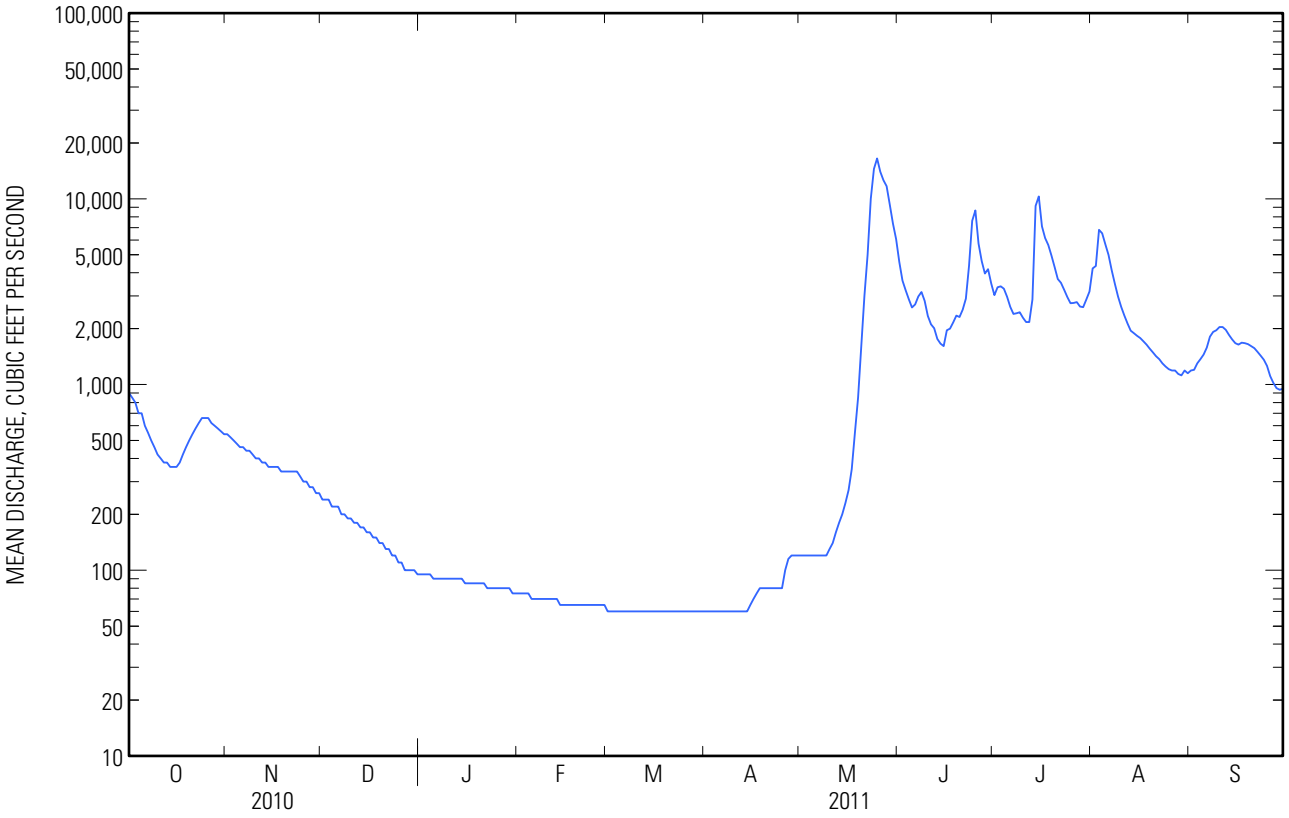
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1982 - 2011#	
Annual total	702,690		495,802			
Annual mean	1,925		1,358		1,561	
Highest annual mean					2,148	2003
Lowest annual mean					993	1983
Highest daily mean	14,000	Aug 9	16,500	May 25	33,000	Aug 16, 2002
Lowest daily mean	40	Apr 12	60	Mar 1	0.00	Dec 25, 1982
Annual seven-day minimum	40	Apr 12	60	Mar 1	0.00	Dec 25, 1982
Maximum peak flow			[a]		48,300	Aug 16, 2002
Maximum peak stage					21.94	Aug 16, 2002
Maximum peak stage					[b]25.68	Jun 8, 2000
Annual runoff (ac-ft)	1,394,000		983,400		1,131,000	
Annual runoff (cfsm)	1.04		0.730		0.839	
Annual runoff (inches)	14.05		9.92		11.40	
10 percent exceeds	6,090		3,490		4,890	
50 percent exceeds	360		360		220	
90 percent exceeds	45		60		0.00	

See Period of Record; partial year used in monthly statistics
[a] Not determined; see Highest daily mean
[b] Backwater from ice and snow