Water-Data Report 2013

15743850 DAHL CREEK NEAR KOBUK, AK

Kobuk-Selawik Rivers Basin
Upper Kobuk River Subbasin

LOCATION.--Lat 66°56′46″, long 156°54′32″ referenced to North American Datum of 1927, in sec.28, T.18 N., R.9 E., Northwest Arctic Borough, AK, Hydrologic Unit 19050302, (Shungnak D-2 quad), on right bank 25 ft downstream from bridge on road to Bornite at west end of Dahl Creek landing strip, 3.5 mi upstream from mouth, 3 mi north of Kobuk, and 7.3 miles northeast of Shungnak.

DRAINAGE AREA.--11.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1986-87, April 1988 to current year (no winter record in water years 1989, 1991-92, 1994, 1996 and 2005-07).

REVISED RECORDS.--WDR AK-88-1: 1986(M).

GAGE.--Water-stage recorder. Elevation of gage is 225 ft above sea level, from topographic map. July 16, 1986, to April 28, 1988, the water-stage recorder was operated to obtain annual maximums. Prior to August 17, 1994 at site 50 ft upstream at same datum.

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

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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	73	e31	e12	e4.2	e2.5	e2.2	e2.2	e2.2	86	8.0	8.0	8.8
2	73	e30	e11	e4.0	e2.5	e2.2	e2.2	e2.2	77	7.6	8.0	8.9
3	86	e30	e11	e3.8	e2.5	e2.2	e2.2	e2.2	66	8.1	8.5	9.9
4	81	e29	e11	e3.8	e2.4	e2.2	e2.2	e2.2	55	9.0	12	11
5	83	e28	e10	e3.7	e2.4	e2.2	e2.2	e2.2	46	13	13	12
6	86	e27	e9.5	e3.6	e2.4	e2.2	e2.2	e2.2	40	11	11	12
7	82	e26	e9.2	e3.5	e2.4	e2.2	e2.2	e2.2	40	10	10	11
8	80	e25	e9.0	e3.4	e2.4	e2.2	e2.2	e2.2	37	9.0	9.6	11
9	77	e24	e8.6	e3.3	e2.4	e2.2	e2.2	e2.2	63	8.6	9.8	11
10	73	e23	e8.3	e3.2	e2.4	e2.2	e2.2	e2.2	50	8.5	10	12
11	71	e22	e8.0	e3.2	e2.3	e2.2	e2.2	e2.2	32	8.3	11	14
12	68	e21	e7.7	e3.2	e2.3	e2.2	e2.2	e2.3	25	8.0	10	15
13	65	e20	e7.4	e3.1	e2.3	e2.2	e2.2	e2.3	20	7.8	10	19
14	62	e20	e7.0	e3.0	e2.3	e2.2	e2.2	e2.4	16	7.6	9.6	19
15	58	e19	e6.8	e3.0	e2.3	e2.2	e2.2	e2.4	13	8.2	9.7	19
16	56	e19	e6.6	e3.0	e2.3	e2.2	e2.2	e2.5	13	9.4	10	19
17	54	e18	e6.3	e3.0	e2.3	e2.2	e2.2	e2.6	12	10	9.9	19
18	51	e18	e6.0	e2.9	e2.3	e2.2	e2.2	e2.7	11	8.9	9.7	19
19	49	e17	e5.8	e2.9	e2.3	e2.2	e2.2	e2.9	11	8.5	9.6	18
20	46	e17	e5.6	e2.8	e2.2	e2.2	e2.2	e3.1	9.8	8.8	9.6	18
21	44	e16	e5.4	e2.8	e2.2	e2.2	e2.2	e5.0	9.5	9.0	9.6	18
22	43	e16	e5.3	e2.8	e2.2	e2.2	e2.2	e20	9.2	8.6	9.5	17
23	e42	e15	e5.2	e2.7	e2.2	e2.2	e2.2	e70	8.6	8.4	9.3	17
24	e39	e15	e5.0	e2.7	e2.2	e2.2	e2.2	e190	8.3	8.3	9.1	16
25	38	e14	e4.9	e2.7	e2.2	e2.2	e2.2	e420	8.1	8.2	9.0	16
26	37	e14	e4.8	e2.7	e2.2	e2.2	e2.2	e590	7.9	8.1	9.0	16
27	36	e13	e4.7	e2.7	e2.2	e2.2	e2.2	e440	7.8	8.2	8.9	15
28	35	e13	e4.6	e2.6	e2.2	e2.2	e2.2	e270	7.6	8.2	9.7	15
29	34	e12	e4.5	e2.6	---	e2.2	e2.2	191	7.6	8.1	9.3	15
30	33	e12	e4.4	e2.6	---	e2.2	e2.2	134	7.6	8.1	9.0	14
31	32	---	e4.3	e2.5	---	e2.2	---	104	---	8.0	8.8	---
Total	1,787	604	219.9	96.0	64.8	68.2	66.0	2,481.4	805.0	269.5	300.2	445.6
Mean	57.6	20.1	7.09	3.10	2.31	2.20	2.20	80.0	26.8	8.69	9.68	14.9
Max	86	31	12	4.2	2.5	2.2	2.2	590	86	13	13	19
Min	32	12	4.3	2.5	2.2	2.2	2.2	2.2	7.6	7.6	8.0	8.8
Ac-ft	3,540	1,200	436	190	129	135	131	4,920	1,600	535	595	884
Cfsm	5.24	1.83	0.64	0.28	0.21	0.20	0.20	7.28	2.44	0.79	0.88	1.35
In.	6.04	2.04	0.74	0.32	0.22	0.23	0.22	8.39	2.72	0.91	1.02	1.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2013, BY WATER YEAR (WY) #

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	27.7	10.9	6.23	4.27	3.61	3.29	5.03	56.8	54.6	33.6	58.3	45.5
Max	67.2	21.0	9.46	6.88	6.15	5.63	26.6	130	116	73.2	223	115
(WY)	(1994)	(2004)	(2003)	(1998)	(1998)	(1998)	(2009)	(2009)	(1992)	(1989)	(1994)	(2012)
Min	9.10	3.70	2.55	2.00	1.56	1.40	1.50	6.21	10.6	8.69	9.68	12.4
(WY)	(2009)	(1993)	(1993)	(1993)	(2004)	(2004)	(1993)	(2001)	(2010)	(2013)	(2013)	(2007)

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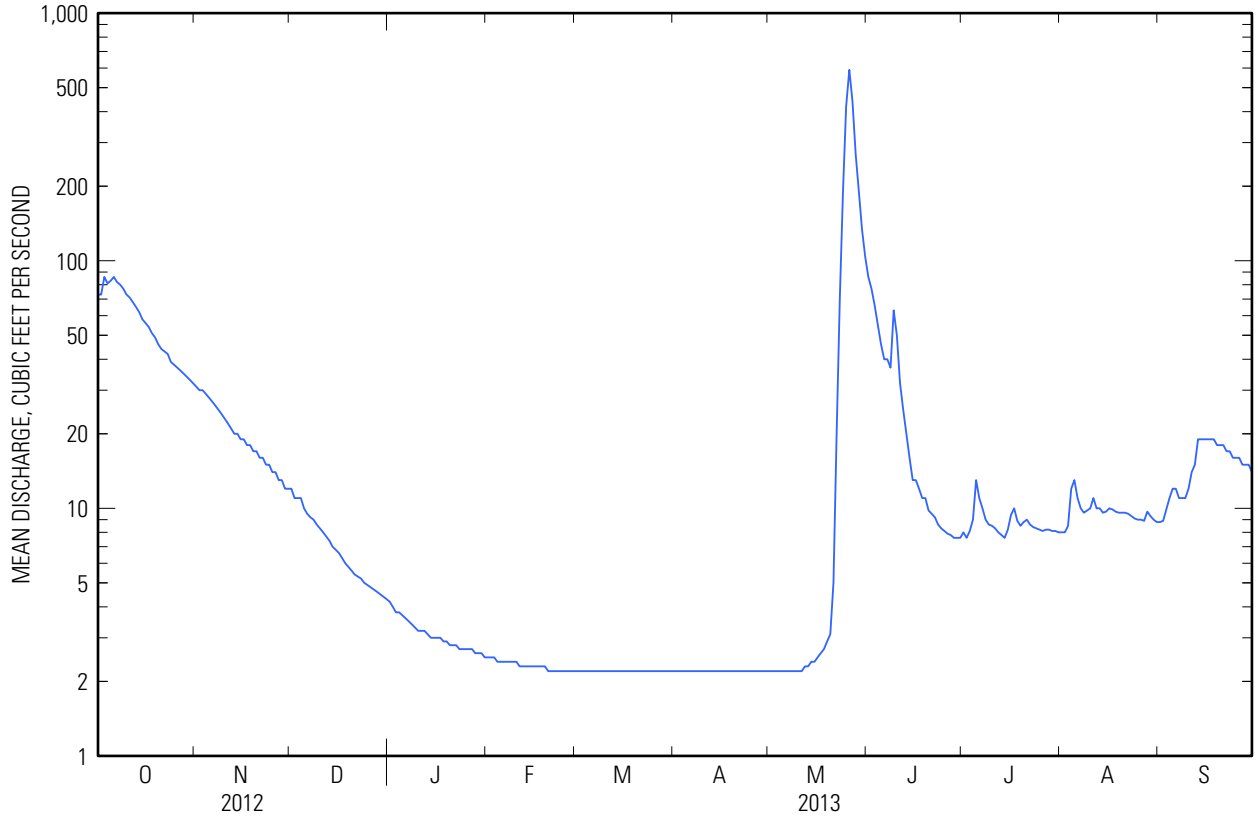
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1986 - 2013#	
Annual total	11,931.9		7,207.6			
Annual mean	32.6		19.7		24.2	
Highest annual mean					36.7	1993
Lowest annual mean					14.8	2008
Highest daily mean	234	Sep 6	590	May 26	1,400	Aug 17, 1994
Lowest daily mean	3.0	Mar 9	2.2	Feb 20	1.4	Feb 27, 2004
Annual seven-day minimum	3.0	Mar 9	2.2	Feb 20	1.4	Feb 27, 2004
Maximum peak flow			[a]		1,840	Aug 17, 1994
Maximum peak stage			[b]6.90	May 25	6.73	Aug 17, 1994
Maximum peak stage					[b]7.01	May 12, 2010
Annual runoff (ac-ft)	23,670		14,300		17,530	
Annual runoff (cfsm)	2.96		1.80		2.20	
Annual runoff (inches)	40.35		24.37		29.89	
10 percent exceeds	94		45		60	
50 percent exceeds	18		8.2		9.8	
90 percent exceeds	3.0		2.2		2.9	

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