

# NORTHWEST ALASKA

## 15743850 DAHL CREEK NEAR KOBUK

LOCATION.--Lat 66°56'46", long 156°54'32", in NW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 21, T. 18 N., R.9 E. (Shungnak D-2 quad), Hydrologic Unit 19050302, 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<sup>2</sup>.

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

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.

### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	28	e14	e5.0	e1.8	e1.4	e1.4	13	58	20	29	33
2	47	27	e14	e4.8	e1.7	e1.4	e1.4	14	56	20	24	30
3	45	27	e13	e4.6	e1.7	e1.4	e1.4	15	50	19	23	29
4	43	26	e13	e4.4	e1.7	e1.4	e1.4	17	47	20	23	27
5	43	26	e13	e4.2	e1.7	e1.4	e1.4	18	46	20	22	26
6	44	e25	e12	e3.8	e1.7	e1.4	e1.4	107	44	20	22	26
7	44	e25	e12	e3.6	e1.6	e1.4	e1.5	59	42	20	22	25
8	44	e25	e12	e3.6	e1.6	e1.4	e1.6	28	39	19	24	24
9	43	e24	e11	e3.4	e1.6	e1.4	e1.6	21	38	19	33	24
10	43	e24	e11	e3.2	e1.6	e1.4	e1.6	24	36	19	32	23
11	42	e23	e11	e3.0	e1.6	e1.4	e1.7	27	34	18	30	23
12	41	e23	e10	e3.0	e1.6	e1.4	e1.8	27	33	18	32	25
13	40	e22	e10	e2.8	e1.5	e1.4	e1.9	29	32	18	335	24
14	39	e22	e10	e2.8	e1.5	e1.4	e1.9	52	31	17	159	23
15	38	e21	e9.2	e2.6	e1.5	e1.4	e1.9	64	29	17	128	22
16	38	e21	e9.0	e2.6	e1.5	e1.4	e1.8	85	28	17	112	21
17	37	e20	e8.8	e2.4	e1.5	e1.4	e1.8	97	28	17	98	21
18	36	e20	e8.6	e2.4	e1.5	e1.4	e1.8	113	26	17	86	21
19	e35	e19	e8.2	e2.4	e1.5	e1.4	e1.9	85	25	17	76	20
20	34	e19	e8.0	e2.2	e1.5	e1.4	e1.9	78	24	16	68	20
21	33	e18	e7.8	e2.2	e1.5	e1.4	e2.0	76	23	16	62	20
22	e33	e18	e7.6	e2.2	e1.5	e1.4	e2.2	80	23	16	56	20
23	e32	e17	e7.2	e2.0	e1.5	e1.4	e2.4	104	23	15	51	20
24	e31	e17	e7.0	e2.0	e1.5	e1.4	e2.8	155	25	15	46	20
25	31	e17	e6.8	e2.0	e1.5	e1.4	e3.4	103	24	15	43	19
26	e30	e16	e6.6	e1.9	e1.5	e1.4	e4.0	76	22	15	40	19
27	e29	e16	e6.4	e1.9	e1.4	e1.4	e5.0	63	22	15	38	18
28	e29	e15	e6.0	e1.9	e1.4	e1.4	e7.6	59	21	15	35	18
29	28	e15	e5.8	e1.9	e1.4	e1.4	e9.0	59	21	17	34	e19
30	28	e14	e5.6	e1.8	---	e1.4	e11	60	20	16	33	19
31	29	---	e5.4	e1.8	---	e1.4	---	58	---	30	33	---
TOTAL	1156	630	290.0	88.4	45.1	43.4	82.5	1866	970	553	1849	679
MEAN	37.3	21.0	9.35	2.85	1.56	1.40	2.75	60.2	32.3	17.8	59.6	22.6
MAX	47	28	14	5.0	1.8	1.4	11	155	58	30	335	33
MIN	28	14	5.4	1.8	1.4	1.4	1.4	13	20	15	22	18
AC-FT	2290	1250	575	175	89	86	164	3700	1920	1100	3670	1350
CFSM	3.39	1.91	0.85	0.26	0.14	0.13	0.25	5.47	2.94	1.62	5.42	2.06
IN.	3.91	2.13	0.98	0.30	0.15	0.15	0.28	6.31	3.28	1.87	6.25	2.30

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY) #

MEAN	29.5	11.1	6.52	4.64	3.97	3.62	4.07	51.7	62.5	36.5	69.0	48.6
MAX	67.2	21.0	9.46	6.88	6.15	5.63	7.39	93.1	116	73.2	223	104
(WY)	1994	2004	2003	1998	1998	1998	1997	1996	1992	1989	1994	1993
MIN	9.65	3.70	2.55	2.00	1.56	1.40	1.50	6.21	13.1	10.6	17.3	19.8
(WY)	1993	1993	1993	1993	2004	2004	1993	2001	1997	1997	1990	1991

# See Period of Record; partial years used in monthly statistics  
e Estimated

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## 15743850 DAHL CREEK NEAR KOBUK—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1986 - 2004#	
ANNUAL TOTAL	13479.6		8252.4			
ANNUAL MEAN	36.9		22.5		25.6	
HIGHEST ANNUAL MEAN					36.7 1993	
LOWEST ANNUAL MEAN					18.8 1999	
HIGHEST DAILY MEAN	186	Aug 16	335	Aug 13	1400	Aug 17 1994
LOWEST DAILY MEAN	a4.2	Mar 25	b1.4	Feb 27	b1.4	Feb 27 2004
ANNUAL SEVEN-DAY MINIMUM	4.2	Mar 25	1.4	Feb 27	1.4	Feb 27 2004
MAXIMUM PEAK FLOW			791	Aug 13	d1840	Aug 17 1994
MAXIMUM PEAK STAGE			6.18	Aug 13	6.73	Aug 17 1994
MAXIMUM PEAK STAGE					f7.03	May 10 2002
ANNUAL RUNOFF (AC-FT)	26740		16370		18550	
ANNUAL RUNOFF (CFSM)	3.36		2.05		2.33	
ANNUAL RUNOFF (INCHES)	45.59		27.91		31.63	
10 PERCENT EXCEEDS	92		47		65	
50 PERCENT EXCEEDS	19		18		11	
90 PERCENT EXCEEDS	4.4		1.4		3.0	

# See Period of Record; partial years used in monthly statistics

a From Mar. 25 to Apr. 15

b From Feb. 27 to Apr. 6

d From rating curve extended above 170 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow

f Backwater from ice