

ARCTIC SLOPE ALASKA

15896000 KUPARUK RIVER NEAR DEADHORSE

LOCATION.--Lat 70°16'54", long 148°57'35", in NE¹/₄ sec. 25, T. 11 N., R. 12 E. (Beechey Point B-4 quad), North Slope Borough, Hydrologic Unit 19060401, on right bank, 1.8 mi northeast of SE Eileen State No. 1, 2.1 mi south of Frontier Service City Camp, 10 mi upstream from mouth on Gwyder Bay, 3 miles upstream of Spine Road, and 13 mi northwest of Deadhorse.

DRAINAGE AREA.--3,130 mi².

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by private engineering firm).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Winter low flow may be discontinuous as the flow probably varies significantly along the main stem of the river due to the formation of auffs in the vicinity of springs. Flow may cease at other points. 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	e1000	e200	e20	e0.0	e0.0	e0.0	e0.0	e0.0	e26000	1370	1860	1660
2	e950	e190	e15	e0.0	e0.0	e0.0	e0.0	e0.0	e28000	1270	8010	2590
3	e900	e180	e15	e0.0	e0.0	e0.0	e0.0	e0.0	e30000	1170	12700	6180
4	e850	e170	e15	e0.0	e0.0	e0.0	e0.0	e0.0	e29000	1090	8970	8230
5	e800	e160	e10	e0.0	e0.0	e0.0	e0.0	e0.0	e26500	1040	7090	8030
6	e760	e160	e10	e0.0	e0.0	e0.0	e0.0	e0.0	24600	1010	6260	7240
7	e720	e150	e9.0	e0.0	e0.0	e0.0	e0.0	e0.0	19400	1020	4660	6080
8	e680	e140	e8.0	e0.0	e0.0	e0.0	e0.0	e0.0	16000	1020	3500	4870
9	e640	e130	e7.0	e0.0	e0.0	e0.0	e0.0	e0.0	12900	1250	2720	3930
10	e620	e120	e6.0	e0.0	e0.0	e0.0	e0.0	e0.0	9370	2410	2190	3280
11	e580	e110	e5.0	e0.0	e0.0	e0.0	e0.0	e0.0	7110	3070	1830	2850
12	e550	e110	e5.0	e0.0	e0.0	e0.0	e0.0	e0.0	5910	5610	1590	2660
13	e520	e100	e4.0	e0.0	e0.0	e0.0	e0.0	e0.0	5220	8340	1520	2480
14	e500	e95	e4.0	e0.0	e0.0	e0.0	e0.0	e0.0	4960	6440	1460	2260
15	e470	e85	e3.0	e0.0	e0.0	e0.0	e0.0	e0.0	4570	4530	1650	2020
16	e450	e80	e3.0	e0.0	e0.0	e0.0	e0.0	e0.0	4000	3340	3030	1810
17	e430	e75	e2.0	e0.0	e0.0	e0.0	e0.0	e0.0	3600	2590	4110	1620
18	e410	e65	e2.0	e0.0	e0.0	e0.0	e0.0	e0.0	3370	2110	3440	1480
19	e390	e60	e2.0	e0.0	e0.0	e0.0	e0.0	e10	2890	1760	2760	1350
20	e370	e55	e2.0	e0.0	e0.0	e0.0	e0.0	e50	2590	1550	2300	1240
21	e350	e50	e1.0	e0.0	e0.0	e0.0	e0.0	e300	2310	2490	2010	1150
22	e330	e45	e1.0	e0.0	e0.0	e0.0	e0.0	e1000	2020	4460	1820	1080
23	e310	e45	e1.0	e0.0	e0.0	e0.0	e0.0	e1800	1810	3460	1650	1030
24	e300	e40	e1.0	e0.0	e0.0	e0.0	e0.0	e3000	1680	2730	1550	989
25	e290	e35	e1.0	e0.0	e0.0	e0.0	e0.0	e5000	1570	2110	1470	e930
26	e270	e30	e0.0	e0.0	e0.0	e0.0	e0.0	e8000	1550	1730	1410	e890
27	e260	e30	e0.0	e0.0	e0.0	e0.0	e0.0	e11000	1490	1480	1380	e850
28	e250	e25	e0.0	e0.0	e0.0	e0.0	e0.0	e15000	1630	1320	1400	e810
29	e240	e25	e0.0	e0.0	e0.0	e0.0	e0.0	e19000	1730	1190	1430	e780
30	e220	e20	e0.0	e0.0	---	e0.0	e0.0	e22000	1550	1130	1390	e760
31	e210	---	e0.0	e0.0	---	e0.0	---	e24000	---	1320	1440	---
TOTAL	15620	2780	152.0	0.0	0.0	0.0	0.0	110160.0	283330	75410	98600	81129
MEAN	504	92.7	4.90	0.00	0.00	0.00	0.00	3554	9444	2433	3181	2704
MAX	1000	200	20	0.0	0.0	0.0	0.0	24000	30000	8340	12700	8230
MIN	210	20	0.0	0.0	0.0	0.0	0.0	0.0	1490	1010	1380	760
MED	450	82	3.0	0.0	0.0	0.0	0.0	0.0	4280	1730	1860	1740
AC-FT	30980	5510	301	0.00	0.00	0.00	0.00	218500	562000	149600	195600	160900
CFSM	0.16	0.03	0.00	0.00	0.00	0.00	0.00	1.14	3.02	0.78	1.02	0.86
IN.	0.19	0.03	0.00	0.00	0.00	0.00	0.00	1.31	3.37	0.90	1.17	0.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)#

	MEAN	287	24.4	2.75	0.93	0.91	0.91	0.91	1698	10390	1220	1838	1624
MAX	1675	174	24.3	10.0	10.0	10.0	10.0	10.0	8877	26360	3309	5229	4863
(WY)	2003	1973	1973	1972	1972	1972	1972	1972	1996	1982	2003	2002	1997
MIN	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	726	300	127	192	
(WY)	1975	1977	1977	1976	1976	1975	1975	1975	1990	1971	1990	1974	

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1971 - 2004#

ANNUAL TOTAL	559972.0	667181.0	
ANNUAL MEAN	1534	1823	1408
HIGHEST ANNUAL MEAN			2304
LOWEST ANNUAL MEAN			658
HIGHEST DAILY MEAN	43000	Jun 7	30000
LOWEST DAILY MEAN	a0.0	Jan 1	b0.0
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00
MAXIMUM PEAK FLOW			d
MAXIMUM PEAK STAGE			f35.65
ANNUAL RUNOFF (AC-FT)	1111000		May 25
ANNUAL RUNOFF (CFSM)	0.490		0.582
ANNUAL RUNOFF (INCHES)	6.66		7.93
10 PERCENT EXCEEDS	3650		4600
50 PERCENT EXCEEDS	25		58
90 PERCENT EXCEEDS	0.00		0.00

See Period of Record, partial years used in monthly statistics

a From Dec. 29, 2002 to May 29, 2003

b From Dec. 26 to May 18

c No flow during winter months

d Not determined, occurred during period of backwater from ice and snow, see highest daily mean

e Estimated

f Backwater from snow and ice