

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 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e730	e250	e35	e3.0	e0.0	e0.0	e0.0	e0.0	e9000	1020	393	162
2	e720	e240	e30	e3.0	e0.0	e0.0	e0.0	e0.0	e9400	1000	364	174
3	e710	e220	e30	e2.0	e0.0	e0.0	e0.0	e0.0	e10000	1050	342	167
4	e700	e200	e25	e2.0	e0.0	e0.0	e0.0	e0.0	e11500	1030	330	158
5	e690	e190	e25	e2.0	e0.0	e0.0	e0.0	e0.0	e14000	999	317	153
6	e680	e180	e25	e2.0	e0.0	e0.0	e0.0	e0.0	19700	1020	310	146
7	e670	e160	e20	e1.0	e0.0	e0.0	e0.0	e0.0	29500	1000	299	156
8	e660	e150	e20	e1.0	e0.0	e0.0	e0.0	e0.0	32100	1010	292	156
9	e650	e140	e20	e1.0	e0.0	e0.0	e0.0	e0.0	33500	1020	316	140
10	e640	e130	e15	e1.0	e0.0	e0.0	e0.0	e0.0	32200	1130	309	145
11	e630	e120	e15	e0.0	e0.0	e0.0	e0.0	e0.0	26100	1230	303	140
12	e620	e110	e15	e0.0	e0.0	e0.0	e0.0	e0.0	21300	1690	289	144
13	e610	e100	e15	e0.0	e0.0	e0.0	e0.0	e0.0	16300	3380	269	153
14	e600	e90	e10	e0.0	e0.0	e0.0	e0.0	e0.0	12300	3820	253	147
15	e580	e85	e10	e0.0	e0.0	e0.0	e0.0	e0.0	11000	3590	250	131
16	e560	e80	e10	e0.0	e0.0	e0.0	e0.0	e0.0	11300	2980	237	124
17	e540	e75	e9.0	e0.0	e0.0	e0.0	e0.0	e0.0	9010	2250	228	130
18	e520	e70	e8.0	e0.0	e0.0	e0.0	e0.0	e0.0	6760	1740	219	114
19	e500	e65	e8.0	e0.0	e0.0	e0.0	e0.0	e20	5530	1420	213	106
20	e480	e60	e7.0	e0.0	e0.0	e0.0	e0.0	e40	4390	1180	206	121
21	e460	e60	e7.0	e0.0	e0.0	e0.0	e0.0	e80	3360	1030	196	133
22	e440	e55	e6.0	e0.0	e0.0	e0.0	e0.0	e200	2640	916	194	113
23	e420	e50	e6.0	e0.0	e0.0	e0.0	e0.0	e400	2160	827	185	119
24	e400	e50	e5.0	e0.0	e0.0	e0.0	e0.0	e700	1760	740	186	118
25	e390	e45	e5.0	e0.0	e0.0	e0.0	e0.0	e1200	1520	660	181	119
26	e370	e45	e5.0	e0.0	e0.0	e0.0	e0.0	e1800	1410	603	180	e120
27	e350	e40	e4.0	e0.0	e0.0	e0.0	e0.0	e2800	1290	558	175	e115
28	e330	e40	e4.0	e0.0	e0.0	e0.0	e0.0	e4300	1190	510	159	e110
29	e310	e35	e4.0	e0.0	---	e0.0	e0.0	e6000	1120	480	162	e105
30	e290	e35	e3.0	e0.0	---	e0.0	e0.0	e7200	1070	441	162	e100
31	e270	---	e3.0	e0.0	---	e0.0	---	e8300	---	415	159	---
TOTAL	16520	3170	404.0	18.0	0.0	0.0	0.0	33040.0	342410	40739	7678	4019
MEAN	533	106	13.0	0.58	0.00	0.00	0.00	1066	11410	1314	248	134
MAX	730	250	35	3.0	0.0	0.0	0.0	8300	33500	3820	393	174
MIN	270	35	3.0	0.0	0.0	0.0	0.0	0.0	1070	415	159	100
MED	560	82	10	0.0	0.0	0.0	0.0	0.0	9210	1020	237	132
AC-FT	32770	6290	801	36	0.00	0.00	0.00	65530	679200	80810	15230	7970
CFSM	0.17	0.03	0.00	0.00	0.00	0.00	0.00	0.34	3.65	0.42	0.08	0.04
IN.	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.39	4.07	0.48	0.09	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2005, BY WATER YEAR (WY)#

	MEAN	294	26.8	3.05	0.92	0.88	0.88	0.88	1679	10420	1223	1793	1581
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	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	134	
(WY)	1975	1977	1976	1976	1975	1975	1975	1975	1990	1971	1990	2005	

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1971 - 2005#

ANNUAL TOTAL	668723.0	447998.0	
ANNUAL MEAN	1827	1227	1403
HIGHEST ANNUAL MEAN			2304
LOWEST ANNUAL MEAN			658
HIGHEST DAILY MEAN	30000	Jun 3	33500
LOWEST DAILY MEAN	a0.0	Jan 1	b0.0
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00
MAXIMUM PEAK FLOW			34900
MAXIMUM PEAK STAGE			33.30
ANNUAL RUNOFF (AC-FT)	1326000		888600
ANNUAL RUNOFF (CFSM)	0.584		0.392
ANNUAL RUNOFF (INCHES)	7.95		5.32
10 PERCENT EXCEEDS	4600		1710
50 PERCENT EXCEEDS	62		65
90 PERCENT EXCEEDS	0.00		0.00

See Period of Record; partial years used in monthly statistics
a From Jan. 1 to May 18
b From Jan. 11 to May 18
c No flow during winter months
e Estimated