

# ARCTIC SLOPE ALASKA

## 15798700 NUNAVAK CREEK NEAR BARROW

LOCATION.--Lat 71°15'35", long 156°46'57", in SE<sup>1</sup>/<sub>4</sub> sec. 18, T. 22 N., R. 18 W. (Barrow B-4 quad), North Slope Borough, Hydrologic Unit 19060202, 0.7 mi downstream from Emaiksoun Lake, 1.2 mi upstream from Nunavak Bay, and 2.3 mi south of Barrow Post Office.

DRAINAGE AREA.--2.79 mi<sup>2</sup>, approximately.

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

REVISED RECORDS.--WDR AK-76-1: 1972.

GAGE.--Water-stage recorder. Elevation of gage is 19 ft above sea level, from topographic map. Prior to May 29, 1982, at site 10 ft downstream at datum about 29.6 ft higher.

REMARKS.--Records poor.

### 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	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	8.5	2.4	1.5
2	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	7.6	1.7	0.92
3	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	7.8	3.4	0.74
4	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e16	7.9	8.2	0.59
5	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e9.8	7.1	2.7	0.43
6	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e12	6.8	1.4	e0.40
7	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e16	8.3	1.1	e0.60
8	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e28	8.1	1.5	0.78
9	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e53	8.9	2.7	0.52
10	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	42	6.0	3.0	0.33
11	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	33	8.0	1.8	0.28
12	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	31	9.9	1.5	0.24
13	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	33	8.1	1.9	0.15
14	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	35	8.3	1.4	0.11
15	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	34	9.4	1.4	0.11
16	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	32	16	1.6	0.09
17	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	28	15	1.7	0.07
18	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	24	9.1	2.1	e0.06
19	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	21	6.5	3.0	e0.05
20	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	19	6.8	2.6	e0.06
21	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	17	5.3	2.0	0.04
22	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	15	4.9	1.3	0.03
23	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	13	4.8	1.0	0.06
24	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	13	3.8	0.98	1.8
25	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	13	3.5	0.68	6.3
26	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	13	3.6	0.54	7.9
27	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	12	3.0	0.80	e4.0
28	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	11	2.2	0.72	e1.0
29	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	10	1.6	1.2	e0.00
30	e0.00	e0.00	e0.00	e0.00	---	e0.00	e0.00	e0.00	8.4	3.2	0.58	e0.00
31	e0.00	---	e0.00	e0.00	---	e0.00	---	e0.00	---	5.0	2.5	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	592.20	215.0	59.40	29.16
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.7	6.94	1.92	0.97
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53	16	8.2	7.9
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.6	0.54	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1170	426	118	58
CFSM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.08	2.49	0.69	0.35
IN.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.90	2.87	0.79	0.39

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004			
MEAN	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	8.62	2.14	0.89	1.05																							
MAX	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55	19.7	9.93	6.79	8.34																							
(WY)	1980	1972	1972	1972	1972	1972	1972	1972	1990	2004	1981	1994	1986																							
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.73	0.09	0.00	0.00																							
(WY)	1972	1972	1972	1972	1972	1972	1972	1972	1972	1992	1983	1983	1975																							

### SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1972 - 2004

ANNUAL TOTAL	253.36	895.76		
ANNUAL MEAN	0.69	2.45	1.08	
HIGHEST ANNUAL MEAN			2.45	2004
LOWEST ANNUAL MEAN			0.26	1992
HIGHEST DAILY MEAN	25	Jun 9	110	Jun 14 1994
LOWEST DAILY MEAN	a0.00	Jan 1	c0.00	Oct 1 1971
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1 1971
MAXIMUM PEAK FLOW			55	Jun 9
MAXIMUM PEAK STAGE			f	d131 Jun 10 1980
ANNUAL RUNOFF (AC-FT)	503	1780	g34.36	Jun 11 1994
ANNUAL RUNOFF (CFSM)	0.249	0.877	779	
ANNUAL RUNOFF (INCHES)	3.38	11.94	0.386	
10 PERCENT EXCEEDS	1.8	8.2	5.24	
50 PERCENT EXCEEDS	0.00	0.00	2.1	
90 PERCENT EXCEEDS	0.00	0.00	0.00	

- a From Jan. 1 to Jun 4 and Oct 01 to Dec 31
- b From Oct. 1 to Jun 3, Sep 29 to Sep 30
- c No flow during winter months and at times during summer months
- d At site and datum then in use, flow over snow
- e Estimated
- f Undetermined
- g Backwater from snow and ice