

# ARCTIC SLOPE ALASKA

## 15906000 SAGAVANIRK TOK RIVER TRIBUTARY NEAR PUMP STATION 3

LOCATION.--Lat 68°41'13", long 149°05'42", in SW<sup>1</sup>/<sub>4</sub> sec. 4, T. 9 S., R. 13 E. (Phillip Smith Mountains C-4 quad), Hydrologic Unit 19060402, on right bank 30 ft downstream from culvert, at mi 297.9 Dalton Highway, 14 mi south of Pump Station 3, and 16.5 mi upstream from mouth.

DRAINAGE AREA.--28.4 mi<sup>2</sup>.

PERIOD OF RECORD.--Annual maximums, water years 1979-87. October 1987 to current year. (No winter record in water year 1989.)

REVISED RECORDS.--WDR AK-96-1:1992(M), 1994(M), 1995(M).

GAGE.--Water stage recorder. Elevation of gage is 2,475 ft above sea level, from topographic map. Crest-stage gage only, August 15, 1979 to September 12, 1987, 30 ft upstream of culvert at same datum.

REMARKS.--Records good except for estimated daily discharges, which are 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	e30	e1.6	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	32	4.7	233	16
2	e70	e1.5	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	27	4.1	158	18
3	e55	e1.4	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	24	3.7	208	17
4	e44	e1.3	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	24	3.5	177	16
5	e38	e1.2	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	20	3.5	108	15
6	e33	e1.1	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	17	8.5	74	15
7	e28	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	15	13	56	14
8	e24	e0.90	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	13	24	46	14
9	e20	e0.80	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	12	52	38	13
10	e17	e0.60	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	10	246	33	15
11	e15	e0.40	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	9.5	306	31	16
12	e13	e0.20	e0.00	e0.00	e0.00	e0.00	e0.00	e0.20	8.7	147	29	15
13	e11	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.50	8.1	88	39	14
14	e10	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.80	7.9	e64	91	e12
15	e8.5	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1.5	11	e48	73	e10
16	e7.5	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e3.0	17	40	55	e8.4
17	e6.8	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e5.0	16	40	44	e7.5
18	e6.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e8.0	12	42	37	e6.6
19	e5.3	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e12	9.3	40	33	e6.0
20	e4.8	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e20	7.6	38	30	e5.2
21	e4.3	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e30	6.7	36	27	e4.3
22	e3.8	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e60	6.4	34	25	e3.6
23	e3.4	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	111	6.2	32	23	e3.1
24	e3.1	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	154	5.8	29	23	e2.7
25	e2.8	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	138	5.6	25	22	e2.3
26	e2.5	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	93	6.4	22	21	e2.0
27	e2.3	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	75	6.4	20	19	e1.7
28	e2.1	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	63	5.8	27	18	e1.4
29	e1.9	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	51	5.3	33	17	e1.1
30	e1.8	e0.00	e0.00	e0.00	---	e0.00	e0.00	44	5.0	33	17	e0.90
31	e1.7	---	e0.00	e0.00	---	e0.00	---	38	---	142	17	---
TOTAL	476.6	12.00	0.00	0.00	0.00	0.00	0.00	908.00	360.7	1649.0	1822	276.80
MEAN	15.4	0.40	0.00	0.00	0.00	0.00	0.00	29.3	12.0	53.2	58.8	9.23
MAX	70	1.6	0.00	0.00	0.00	0.00	0.00	154	32	306	233	18
MIN	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.0	3.5	17	0.90
AC-FT	945	24	0.00	0.00	0.00	0.00	0.00	1800	715	3270	3610	549
CFSM	0.54	0.01	0.00	0.00	0.00	0.00	0.00	1.03	0.42	1.87	2.07	0.32
IN.	0.62	0.02	0.00	0.00	0.00	0.00	0.00	1.19	0.47	2.16	2.39	0.36

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)#

	3.51	0.03	0.00	0.00	0.00	0.00	0.00	33.4	55.8	38.7	53.7	26.9
MEAN	3.51	0.03	0.00	0.00	0.00	0.00	0.00	33.4	55.8	38.7	53.7	26.9
MAX	15.4	0.40	0.00	0.00	0.00	0.00	0.01	95.6	150	84.3	111	77.4
(WY)	2004	2004	1988	1988	1988	1988	2003	1995	1992	2003	2002	1997
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	10.4	8.19	3.17	9.23
(WY)	1988	1988	1988	1988	1988	1988	1988	2001	1988	1990	1990	2004

### SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1988 - 2004#

ANNUAL TOTAL	11088.70	5505.10		
ANNUAL MEAN	30.4	15.0	18.0	
HIGHEST ANNUAL MEAN			29.4	2003
LOWEST ANNUAL MEAN			7.49	1988
HIGHEST DAILY MEAN	526	Jun 6	306	Jul 11
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Nov 13
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Nov 13
MAXIMUM PEAK FLOW			392	Jul 11
MAXIMUM PEAK STAGE			20.27	Jul 11
ANNUAL RUNOFF (AC-FT)	21990	10920	13030	
ANNUAL RUNOFF (CFSM)	1.07	0.530	0.633	
ANNUAL RUNOFF (INCHES)	14.52	7.21	8.60	
10 PERCENT EXCEEDS	76	39	50	
50 PERCENT EXCEEDS	0.00	0.30	0.00	
90 PERCENT EXCEEDS	0.00	0.00	0.00	

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

a From Jan. 1 to Apr. 24 and from Apr. 27 to May 25

b From Nov. 13 to May 11

c No flow during winter months

d Estimated, from rating extended above 450 ft<sup>3</sup>/s on basis of slope-area measurement of peak discharge

e Estimated