

ARCTIC SLOPE ALASKA

15906000 SAGAVANIRK TOK RIVER TRIBUTARY NEAR PUMP STATION 3

LOCATION.--Lat 68°41'13", long 149°05'42", in SW¹/₄ 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 mi².

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 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.8	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	27	4.2	5.7	2.1
2	e0.8	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	23	4.3	5.3	2.2
3	e0.7	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	21	4.2	5.1	2.3
4	e0.7	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	19	4.3	4.8	2.4
5	e0.7	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	18	4.1	4.7	2.5
6	e0.7	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	17	5.8	4.6	2.3
7	e0.6	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	16	8.0	4.5	2.3
8	e0.6	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.5	15	6.7	4.5	2.2
9	e0.6	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e1.0	13	13	4.3	2.1
10	e0.6	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e1.0	13	16	4.1	2.1
11	e0.5	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e1.0	12	25	3.9	2.1
12	e0.5	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5.0	12	96	3.7	1.9
13	e0.5	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e10	11	173	3.6	1.9
14	e0.5	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e10	10	104	3.4	1.8
15	e0.4	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5.0	9.3	61	3.2	1.7
16	e0.4	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5.0	8.5	40	3.1	1.7
17	e0.4	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5.0	7.9	30	2.8	1.6
18	e0.4	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e30	6.9	25	2.7	1.6
19	e0.3	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e140	6.0	21	2.6	1.6
20	e0.3	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e123	5.6	16	2.4	2.0
21	e0.3	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	117	5.4	13	2.3	3.1
22	e0.3	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	133	5.1	12	2.2	3.1
23	e0.2	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	103	4.9	10	2.1	2.7
24	e0.2	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	83	4.6	9.1	2.1	2.5
25	e0.2	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	75	4.3	8.2	2.1	2.3
26	e0.2	e0.0	e0.0	e0.0	e0.0	e0.0	e0.1	67	4.2	7.4	2.2	e2.0
27	e0.1	e0.0	e0.0	e0.0	e0.0	e0.0	e0.1	62	4.0	7.0	2.4	e1.9
28	e0.1	e0.0	e0.0	e0.0	e0.0	e0.0	e0.1	55	3.8	7.1	2.3	e1.8
29	e0.1	e0.0	e0.0	e0.0	---	e0.0	e0.2	46	3.6	6.5	2.1	e1.7
30	e0.1	e0.0	e0.0	e0.0	---	e0.0	e0.1	39	3.8	6.2	2.0	e1.6
31	e0.1	---	e0.0	e0.0	---	e0.0	---	32	---	5.9	2.2	---
TOTAL	12.9	0.0	0.0	0.0	0.0	0.0	0.6	1148.5	314.9	754.0	103.0	63.1
MEAN	0.42	0.00	0.00	0.00	0.00	0.00	0.02	37.0	10.5	24.3	3.32	2.10
MAX	0.80	0.00	0.00	0.00	0.00	0.00	0.20	140	27	173	5.7	3.1
MIN	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	4.1	2.0	1.6
AC-FT	26	0.00	0.00	0.00	0.00	0.00	1.2	2280	625	1500	204	125
CFSM	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.37	0.86	0.12	0.07
IN.	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.41	0.99	0.13	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

	3.32	0.02	0.00	0.00	0.00	0.00	0.00	0.00	33.6	53.1	37.9	50.9	25.5
MEAN	3.32	0.02	0.00	0.00	0.00	0.00	0.00	0.00	33.6	53.1	37.9	50.9	25.5
MAX	15.4	0.40	0.00	0.00	0.00	0.00	0.00	0.02	95.6	150	84.3	111	77.4
(WY)	2004	2004	1988	1988	1988	1988	2005	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	2.10	
(WY)	1988	1988	1988	1988	1988	1988	1988	2001	1988	1990	1990	2005	

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005#	
ANNUAL TOTAL	5029.40		2397.0			
ANNUAL MEAN	13.7		6.57		17.3	
HIGHEST ANNUAL MEAN					29.4	
LOWEST ANNUAL MEAN					6.57	
HIGHEST DAILY MEAN	306	Jul 11	173	Jul 13	871	Aug 16 2002
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Nov 1	c0.00	Oct 1 1987
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Nov 1	0.00	Oct 1 1987
MAXIMUM PEAK FLOW			190	Jul 13	d1810	Aug 15 2002
MAXIMUM PEAK STAGE			19.26	Jul 13	21.90	Aug 15 2002
ANNUAL RUNOFF (AC-FT)	9980		4750		12540	
ANNUAL RUNOFF (CFSM)	0.484		0.231		0.610	
ANNUAL RUNOFF (INCHES)	6.59		3.14		8.28	
10 PERCENT EXCEEDS	38		13		49	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

See Period of Record; partial years were used in monthly statistics.

a From Jan. 1 to May 11

b From Nov. 1 to Apr. 25 and May 1 to 7

c No flow during winter months

d Estimated, from rating extended above 450 ft³/s on basis of slope-area measurement of peak discharge.

e Estimated