

YUKON ALASKA

15477770 SONORA CREEK NEAR BIG DELTA

LOCATION.--Lat 64°22'40", long 144°48'41", in SE¹/₄ sec.20, T.6 S., R.15 E. (Big Delta B-2 quad), Hydrologic Unit 19040503, on left bank, 1.2 mi upstream from mouth, 6.5 mi southeast of Pogo Mine Camp site, and 34 mi northeast of Big Delta.

DRAINAGE AREA.--10.5 mi².

PERIOD OF RECORD.--August 1997 to current year.

REVISED RECORDS.--WDR AK-00-1: 1998 (M). WDR AK-01-1: 2000.

GAGE.--Water-stage recorder. Elevation of gage is 1450 ft above sea level, from topographic map.

REMARKS.--Records fair 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	8.2	e5.9	e4.1	e2.9	e2.5	e2.2	e2.0	e16	8.8	5.4	6.6	4.1
2	8.5	e5.8	e4.0	e2.9	e2.5	e2.2	e2.0	e20	9.5	5.2	6.4	4.0
3	8.9	e5.7	e4.0	e2.9	e2.5	e2.2	e2.0	e17	11	5.2	5.9	4.1
4	8.9	e5.7	e3.9	e2.8	e2.4	e2.2	e2.0	e13	9.0	5.2	5.5	4.1
5	8.6	e5.6	e3.8	e2.8	e2.4	e2.2	e2.0	18	7.6	12	5.3	4.1
6	8.5	e5.5	e3.8	e2.8	e2.4	e2.2	e2.0	23	6.6	12	5.1	4.0
7	8.5	e5.4	e3.7	e2.8	e2.4	e2.2	e2.1	e99	6.5	9.6	4.9	4.0
8	8.3	e5.3	e3.7	e2.8	e2.4	e2.2	e2.1	26	8.0	8.0	4.7	3.9
9	8.2	e5.2	e3.6	e2.8	e2.4	e2.2	e2.1	24	21	7.2	4.6	3.8
10	7.9	e5.2	e3.6	e2.8	e2.4	e2.2	e2.1	16	17	7.0	4.9	3.7
11	7.2	e5.1	e3.6	e2.8	e2.4	e2.1	e2.1	17	11	6.6	4.7	3.6
12	e6.1	e5.0	e3.5	e2.7	e2.4	e2.1	e2.1	31	8.7	6.1	4.5	3.6
13	6.2	e5.5	e3.5	e2.7	e2.4	e2.1	e2.2	15	7.8	5.8	4.3	3.6
14	6.1	e5.4	e3.4	e2.7	e2.3	e2.1	e2.2	10	7.3	5.7	4.2	3.8
15	e5.7	e5.3	e3.4	e2.7	e2.3	e2.1	e2.2	8.6	7.0	5.8	4.2	3.8
16	e5.6	e5.2	e3.3	e2.7	e2.3	e2.1	e2.2	7.2	6.7	5.5	4.2	3.6
17	e5.6	e5.2	e3.3	e2.7	e2.3	e2.1	e2.3	5.8	6.5	5.3	4.1	3.5
18	e5.5	e5.1	e3.3	e2.7	e2.3	e2.1	e2.3	5.2	6.2	5.2	4.0	3.5
19	e5.7	e5.0	e3.3	e2.7	e2.3	e2.1	e2.4	4.9	6.1	5.4	4.0	3.4
20	e5.9	e4.9	e3.2	e2.6	e2.3	e2.1	e2.5	4.6	6.0	5.4	4.1	3.5
21	e6.1	e4.8	e3.2	e2.6	e2.3	e2.1	e2.6	4.2	5.8	5.3	4.2	3.7
22	e6.2	e4.8	e3.2	e2.6	e2.3	e2.1	e2.9	4.1	5.8	5.8	4.1	3.6
23	e6.3	e4.7	e3.2	e2.6	e2.3	e2.1	e3.4	4.0	5.8	5.4	4.1	3.7
24	e6.4	e4.6	e3.1	e2.6	e2.3	e2.1	e3.9	4.3	5.5	5.2	4.0	3.5
25	e6.4	e4.5	e3.1	e2.6	e2.2	e2.1	e4.6	5.7	5.5	5.1	4.1	2.9
26	e6.4	e4.4	e3.1	e2.6	e2.2	e2.1	e5.5	8.1	5.5	5.1	4.1	3.8
27	e6.3	e4.4	e3.0	e2.5	e2.2	e2.1	e7.0	15	5.4	4.9	3.9	3.7
28	e6.3	e4.3	e3.0	e2.5	e2.2	e2.0	e8.3	9.3	5.5	4.8	4.4	3.3
29	e6.2	e4.2	e3.0	e2.5	e2.2	e2.0	e10	7.6	5.2	5.0	4.2	3.2
30	e6.1	e4.1	e2.9	e2.5	---	e2.0	e13	8.2	5.5	4.9	4.2	3.6
31	e6.1	---	e2.9	e2.5	---	e2.0	---	8.2	---	4.7	4.0	---
TOTAL	212.9	151.8	105.7	83.4	67.8	65.7	104.1	460.0	233.8	189.8	141.5	110.7
MEAN	6.87	5.06	3.41	2.69	2.34	2.12	3.47	14.8	7.79	6.12	4.56	3.69
MAX	8.9	5.9	4.1	2.9	2.5	2.2	13	99	21	12	6.6	4.1
MIN	5.5	4.1	2.9	2.5	2.2	2.0	2.0	4.0	5.2	4.7	3.9	2.9
AC-FT	422	301	210	165	134	130	206	912	464	376	281	220
CFSM	0.65	0.48	0.32	0.26	0.22	0.20	0.33	1.41	0.74	0.58	0.43	0.35
IN.	0.75	0.54	0.37	0.30	0.24	0.23	0.37	1.63	0.83	0.67	0.50	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)#

	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	4.77	2.91	1.97	1.41	1.25	1.14	2.71	5.04
MAX	8.88	5.06	3.41	2.69	2.34	2.12	7.40	16.4
(WY)	2001	2004	2004	2004	2004	2004	2003	2000
MIN	1.63	1.31	0.98	0.71	0.56	0.45	0.91	4.27
(WY)	2000	2000	1998	1998	1998	1998	1998	1998

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1997 - 2004#

ANNUAL TOTAL	1879.5	1927.2	
ANNUAL MEAN	5.15	5.27	4.40
HIGHEST ANNUAL MEAN			5.91
LOWEST ANNUAL MEAN			2.07
HIGHEST DAILY MEAN			e99
LOWEST DAILY MEAN	47	Sep 1	e99
ANNUAL SEVEN-DAY MINIMUM	1.5	Feb 23	2.0
MAXIMUM PEAK FLOW			c180
MAXIMUM PEAK STAGE			30.46
ANNUAL RUNOFF (AC-FT)	3730	3820	3180
ANNUAL RUNOFF (CFSM)	0.490	0.501	0.419
ANNUAL RUNOFF (INCHES)	6.66	6.83	5.69
10 PERCENT EXCEEDS	9.8	8.4	9.0
50 PERCENT EXCEEDS	3.8	4.1	2.7
90 PERCENT EXCEEDS	1.5	2.2	0.70

See Period of Record; partial years used in monthly statistics

a From Feb. 23 to Apr. 3

b From Mar. 28 to Apr. 6

c From rating curve extended above 30 ft³/s

e Estimated