

SOUTHEAST ALASKA

15053200 DUCK CREEK BELOW NANCY STREET NEAR AUKE BAY

LOCATION.--Lat 58°22'31", long 134°34'38", in NW¹/₄ SW¹/₄ NE¹/₄ sec. 30, T. 40 S., R. 66 E. (Juneau B-2 NW), Hydrologic Unit 19010301, City and Borough of Juneau, on right bank, 50 ft south of intersection of Nancy Street and Mendenhall Loop Road, 0.4 mi north of intersection of Egan Drive and Mendenhall Loop Road, and 1.44 mi upstream from mouth.

DRAINAGE AREA.-- 1.30 mi².

PERIOD OF RECORD.--December 1993 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 21.87 ft above sea level, determined by levels survey.

REMARKS.--No estimated daily discharge. Records are good, except for daily discharges less than 1 ft³/s, which are fair.

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	6.0	3.6	2.7	3.0	2.2	2.6	3.8	2.3	0.81	0.63	1.0	0.63
2	5.2	3.1	8.0	2.3	2.1	2.4	7.8	2.1	0.96	0.63	0.96	0.74
3	4.6	2.7	6.1	2.0	1.9	2.4	15	1.9	1.0	0.63	1.1	1.4
4	5.5	2.3	4.5	1.8	2.0	2.4	9.8	1.8	0.84	0.63	1.0	1.6
5	6.1	2.1	3.6	1.6	11	2.5	6.9	1.6	0.74	0.68	0.89	1.8
6	7.0	1.9	3.0	1.5	9.2	2.4	5.5	1.5	0.72	0.66	0.80	2.7
7	6.9	1.8	2.6	1.4	6.3	4.2	4.9	1.4	0.69	0.63	0.78	2.6
8	6.5	1.7	2.4	1.5	9.3	6.6	6.5	1.3	0.67	0.63	0.73	2.0
9	5.8	5.2	2.1	1.4	15	5.6	4.8	1.3	0.73	0.62	0.68	1.6
10	5.5	4.1	1.9	1.5	14	6.2	3.5	1.2	0.79	0.53	0.63	1.4
11	5.5	4.9	1.9	2.1	8.7	7.5	3.2	1.1	0.75	0.51	0.80	1.2
12	5.0	13	1.9	2.0	11	5.4	3.0	0.93	0.74	0.50	0.79	1.4
13	5.5	13	2.1	6.0	6.8	4.5	2.8	0.85	0.72	0.39	0.74	3.8
14	5.9	10	1.9	19	5.4	3.9	2.2	0.78	0.75	0.38	0.67	3.1
15	5.2	8.9	1.8	11	4.6	4.4	2.5	0.74	0.72	0.35	0.62	2.6
16	4.9	7.3	2.7	5.5	4.2	4.2	2.4	0.74	0.68	0.31	0.58	2.3
17	4.6	6.3	7.0	4.7	3.8	3.9	2.6	0.77	0.67	0.31	0.52	1.9
18	4.5	5.1	7.3	13	3.9	3.6	2.4	0.71	0.63	0.31	0.54	1.7
19	4.3	4.3	12	8.4	4.5	3.1	2.0	0.68	0.55	0.24	0.57	1.4
20	4.5	3.5	11	16	6.8	2.7	1.9	0.67	0.50	0.22	0.58	3.4
21	4.1	3.1	9.1	14	7.1	2.5	1.6	0.65	0.52	0.28	0.54	7.8
22	3.9	3.5	14	15	9.2	2.3	1.6	0.62	0.53	0.31	0.48	5.6
23	4.2	3.4	15	10	6.5	2.2	1.4	0.66	0.58	0.29	0.44	9.2
24	4.3	3.5	11	7.0	5.3	2.0	2.4	0.90	0.58	0.33	0.36	10
25	11	3.1	8.2	5.1	4.4	3.1	4.7	1.3	0.60	0.55	0.35	6.3
26	14	2.7	6.6	4.2	3.9	5.0	6.7	1.4	0.58	0.54	0.35	4.6
27	9.0	2.5	5.3	3.6	3.6	4.4	4.8	1.2	0.62	0.65	0.54	4.6
28	9.3	2.3	4.3	3.1	3.2	4.2	3.6	1.1	0.64	2.0	0.67	4.1
29	6.3	2.3	3.9	2.8	2.9	4.3	3.0	0.98	0.63	1.9	0.73	4.4
30	5.0	2.1	3.8	2.5	---	4.7	2.6	0.83	0.63	1.6	0.74	4.6
31	4.2	---	3.4	2.4	---	4.2	---	0.77	---	1.2	0.69	---
TOTAL	184.3	133.3	171.1	175.4	178.8	119.4	125.9	34.78	20.57	19.44	20.87	100.47
MEAN	5.95	4.44	5.52	5.66	6.17	3.85	4.20	1.12	0.69	0.63	0.67	3.35
MAX	14	13	15	19	15	7.5	15	2.3	1.0	2.0	1.1	10
MIN	3.9	1.7	1.8	1.4	1.9	2.0	1.4	0.62	0.50	0.22	0.35	0.63
AC-FT	366	264	339	348	355	237	250	69	41	39	41	199
CFSM	4.57	3.42	4.25	4.35	4.74	2.96	3.23	0.86	0.53	0.48	0.52	2.58
IN.	5.27	3.81	4.90	5.02	5.12	3.42	3.60	1.00	0.59	0.56	0.60	2.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)#

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
MEAN	9.04	4.85	5.31	3.17	2.73	2.48	2.80	2.47	2.03	2.53	3.66	7.66
MAX	18.1	10.3	12.2	5.66	6.17	5.08	6.16	4.97	3.47	4.23	7.66	14.5
(WY)	2000	2000	2000	2004	2004	1994	1999	1999	1999	1997	2002	2000
MIN	5.29	2.36	1.95	0.85	0.79	0.94	0.64	0.86	0.69	0.63	0.67	3.35
(WY)	1998	1996	1996	1997	1999	1995	2003	2002	2004	2004	2004	2004

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1994 - 2004#

ANNUAL TOTAL	1247.72	1284.33	
ANNUAL MEAN	3.42	3.51	4.06
HIGHEST ANNUAL MEAN			6.90
LOWEST ANNUAL MEAN			3.26
HIGHEST DAILY MEAN	22 Sep 27	19 Jan 14	68 Dec 28 1999
LOWEST DAILY MEAN	a0.31 Apr 9	0.22 Jul 20	0.19 Mar 15 2000
ANNUAL SEVEN-DAY MINIMUM	0.34 Apr 7	0.28 Jul 17	0.26 Mar 10 2000
MAXIMUM PEAK FLOW		27 Jan 14	80 Dec 28 1999
MAXIMUM PEAK STAGE		5.76 Jan 14	b7.59 Sep 25 1996
INSTANTANEOUS LOW FLOW	c	0.18 Jul 20	d0.18 Mar 8 1999
ANNUAL RUNOFF (AC-FT)	2470	2550	2940
ANNUAL RUNOFF (CFSM)	2.63	2.70	3.12
ANNUAL RUNOFF (INCHES)	35.70	36.75	42.40
10 PERCENT EXCEEDS	8.0	7.9	8.5
50 PERCENT EXCEEDS	2.2	2.4	2.6
90 PERCENT EXCEEDS	0.72	0.59	0.89

See period of record; partial years used in monthly statistics

a Apr. 9-11

b Backwater caused by culvert, which was removed Apr. 1998

c Undetermined, see lowest daily mean

d Mar. 8, 1999 and Mar. 14 and 15, 2000; and Jul. 20, 2004