

SOUTH-CENTRAL ALASKA

15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING

LOCATION.--Lat $60^{\circ}28'50''$, long $149^{\circ}52'50''$, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 5 N., R. 3 W. (Seward B-8 quad), Hydrologic Unit 19020302 Kenai Peninsula Borough, on left bank, approximately 0.5 mi upstream from mouth, and 1.5 mi west of Cooper Landing.

DRAINAGE AREA.--48.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to January 1965, August 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 450 ft above sea level, from topographic map. From October 1957 to January 1965, 0.4 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Since July 1959, entire flow from 31.8 mi² of drainage area has been regulated by dam at Cooper Lake outlet. No spilling since 1959 except for period May 1961 to October 1962. GOES satellite telemetry at station.

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	39	e30	37	e16	e13	13	12	111	78	70	50	27
2	60	e30	34	e20	e13	12	e12	104	71	64	50	26
3	189	e30	32	e22	e13	12	12	91	65	64	49	25
4	164	e28	e26	e24	e13	12	11	87	68	60	47	28
5	127	e28	e20	e22	e13	13	e11	84	79	58	45	29
6	97	e28	e16	e22	e13	13	e11	82	82	61	44	33
7	78	e28	e16	e22	e13	13	e11	84	81	62	42	33
8	57	e26	e16	e20	e13	14	e10	86	80	65	41	32
9	49	e26	e18	e19	e14	14	e10	95	79	60	39	33
10	46	e26	e24	e18	e13	15	e10	103	86	57	38	42
11	43	e30	e24	e17	e13	17	e10	109	88	57	37	37
12	49	e34	e24	e16	e13	15	e10	123	82	56	35	39
13	55	38	e26	e16	e13	17	e11	131	76	53	34	38
14	59	36	28	e15	e15	16	e12	134	77	50	33	36
15	52	34	28	e15	e14	15	e13	115	85	48	32	36
16	53	33	22	e15	14	14	e14	100	93	48	31	39
17	49	31	22	e14	14	14	e15	90	96	45	30	43
18	44	30	22	e13	13	13	e16	88	112	44	29	42
19	43	31	22	e13	13	13	18	89	113	44	28	40
20	40	30	22	e13	13	13	22	95	89	47	27	37
21	38	29	e24	e14	13	15	26	97	80	48	30	36
22	36	28	e15	e15	13	13	66	96	78	44	28	37
23	35	28	24	e16	13	13	65	96	74	43	28	46
24	33	28	e24	e15	13	13	67	97	69	43	27	55
25	32	26	e24	e15	13	13	71	90	66	48	26	51
26	32	25	e22	e15	13	13	82	86	65	51	25	48
27	32	28	e20	e15	13	13	93	94	64	49	24	50
28	31	60	e19	e14	13	12	108	98	70	46	24	50
29	31	41	e18	e14	---	12	132	100	69	46	25	49
30	31	36	e17	e15	---	e12	114	93	69	45	24	48
31	e30	---	e16	e14	---	12	---	83	---	46	29	---
TOTAL	1754	936	714	514	370	419	1075	3031	2384	1622	1051	1165
MEAN	56.6	31.2	23.0	16.6	13.2	13.5	35.8	97.8	79.5	52.3	33.9	38.8
MAX	189	60	37	24	15	17	132	134	113	70	50	55
MIN	30	25	16	13	13	12	10	82	64	43	24	25
AC-FT	3480	1860	1420	1020	734	831	2130	6010	4730	3220	2080	2310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY) #

MEAN	74.6	49.7	25.9	19.4	16.1	12.0	19.7	99.1	174	129	73.3	66.6
MAX	264	285	82.9	58.9	50.5	28.0	50.3	219	412	326	226	309
(WY)	1958	1958	1958	1958	2003	1958	1958	1961	1958	1961	1961	1961
MIN	20.7	11.9	10.0	8.00	6.43	4.50	9.00	42.6	73.7	48.8	22.6	17.6
(WY)	1964	1964	1964	1964	1999	1999	1960	1964	1963	2004	2004	2004

See Period of Record; partial year was used in monthly statistics.

e Estimated

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15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1958 - 2005#
ANNUAL TOTAL	14974.7	15035	
ANNUAL MEAN	40.9	41.2	64.1
HIGHEST ANNUAL MEAN			a174
LOWEST ANNUAL MEAN			29.9
HIGHEST DAILY MEAN	224	May 24	ab810
LOWEST DAILY MEAN	8.9	Mar 29	c10
ANNUAL SEVEN-DAY MINIMUM	9.0	Mar 27	10
MAXIMUM PEAK FLOW			246
MAXIMUM PEAK STAGE			10.98
INSTANTANEOUS LOW FLOW	g	g	Oct 3
ANNUAL RUNOFF (AC-FT)	29700	29820	46450
10 PERCENT EXCEEDS	116	88	152
50 PERCENT EXCEEDS	24	31	33
90 PERCENT EXCEEDS	10	13	10

See Period of Record; partial year was used in monthly statistics.

a Includes natural flow or spill from area upstream from Cooper Lake dam.

b Caused by release of water behind log jam upstream. Site and datum then in use.

c From Apr. 8 to Apr. 12

d From Mar. 19 to Apr. 14, 1999

f From high water mark

g Not determined. See Lowest Daily Mean.

h Caused by temporary storage behind ice jam upstream (observed).