

SOUTH-CENTRAL ALASKA

15258000 KENAI RIVER AT COOPER LANDING

LOCATION.--Lat 60°29'34", long 149°48'28", in SE¹/₄ sec. 28, T. 5 N., R. 3 W. (Seward B-8 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, Chugach National Forest, on right bank 10 ft downstream from bridge on Sterling Highway, 0.9 mi upstream from Bean Creek, 0.9 mi east of Cooper Landing, and at Kenai Lake outlet.

DRAINAGE AREA.--634 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1947 to current year.

REVISED RECORDS.--WSP 2136: 1964 (M).

GAGE.--Water-stage recorder. Datum of gage is 419.92 ft above sea level (levels by Alaska Department of Transportation). See WSP 2136 for history of changes prior to August 28, 1965. August 28, 1965 to January 21, 1974, at site 10 ft upstream at present datum. January 22, 1974 to September 30, 1981, non-recording gage at site 40 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Record good. Diversion from Cooper Lake to Kenai Lake above gage through Cooper Lake power plant began May 1961. Rain gage at station. GOES satellite telemetry and telephone modem at station.

COOPERATION.--Records of diversion provided by Chugach Electric Association.

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	2660	1620	1570	953	602	484	560	2020	5830	6230	5800	4360
2	2830	1580	1560	947	593	481	550	2220	5600	6280	5710	4230
3	3840	1540	1530	963	584	478	547	2370	5350	6250	5730	4020
4	5000	1480	1510	953	574	476	543	2490	5160	6170	5980	3900
5	5610	1420	1470	934	571	475	539	2570	5170	6040	6110	4000
6	5750	1370	1450	925	568	470	543	2610	5270	6020	6070	4260
7	5570	1340	1410	908	561	468	546	2640	5290	6060	6030	4510
8	5240	1310	1360	900	550	467	545	2670	5330	6080	5970	4560
9	4900	1320	1320	886	550	481	545	2730	5480	6100	5920	4620
10	4530	1400	1280	858	537	480	545	2820	5920	6200	5870	4740
11	4190	1530	1250	834	539	519	538	2940	6420	6190	5840	4840
12	3960	1570	1220	820	532	540	540	3140	6700	6190	5880	4810
13	3840	1580	1200	809	540	556	546	3480	6770	6150	5980	4760
14	3840	1570	1180	797	544	569	549	4110	6720	6300	5920	4630
15	3750	1550	1170	782	553	585	542	4670	6650	6470	5830	4520
16	3590	1530	1130	753	552	584	540	4960	6690	6530	5680	4430
17	3420	1520	1120	738	545	586	551	5000	6910	6480	5510	4680
18	3230	1500	1100	720	539	589	559	4910	7320	6400	5460	4880
19	3060	1480	1090	707	533	587	569	4820	7650	6320	5380	4910
20	2870	1440	1080	713	533	584	583	4740	7740	6260	5420	4780
21	2710	1410	1090	698	527	587	606	4660	7630	6230	5360	4570
22	2600	1390	1100	690	519	593	684	4650	7390	6120	5280	4350
23	2540	1360	1060	688	516	594	762	4680	7020	5910	5240	4270
24	2370	1330	1010	686	503	589	832	4720	6700	5740	5270	4370
25	2260	1310	1010	683	504	582	935	4720	6410	5770	5230	4430
26	2160	1280	1010	670	495	575	1040	4740	6200	6140	5030	4330
27	2060	1280	1000	665	493	570	1170	4890	6110	6460	4820	4260
28	1960	1400	954	657	486	569	1340	5220	6050	6660	4640	4510
29	1870	1510	981	648	---	566	1560	5660	6060	6550	4450	4590
30	1790	1540	978	628	---	562	1800	5920	6120	6210	4250	4490
31	1720	---	967	612	---	557	---	5960	---	5920	4150	---
TOTAL	105720	43460	37160	24225	15143	16803	21709	123730	189660	192430	169810	134610
MEAN	3410	1449	1199	781	541	542	724	3991	6322	6207	5478	4487
MAX	5750	1620	1570	963	602	594	1800	5960	7740	6660	6110	4910
MIN	1720	1280	954	612	486	467	538	2020	5160	5740	4150	3900
MED	3230	1460	1130	753	539	566	550	4660	6310	6200	5680	4510
AC-FT	209700	86200	73710	48050	30040	33330	43060	245400	376200	381700	336800	267000
CFSM	5.38	2.28	1.89	1.23	0.85	0.85	1.14	6.30	9.97	9.79	8.64	7.08
IN.	6.20	2.55	2.18	1.42	0.89	0.99	1.27	7.26	11.13	11.29	9.96	7.90

ADJUSTED TO EXCLUDE DIVERSION FROM COOPER LAKE

MEAN	3320	1365	1088	697	439	462	648	3874	6197	6208	5423	4351
CFSM	5.24	2.15	1.72	1.10	0.69	0.73	1.02	6.11	9.77	9.79	8.55	6.86
IN	6.04	2.40	1.98	1.27	0.75	0.84	1.14	7.05	10.90	11.29	9.86	7.66
AC-FT	204130	81220	66870	42860	25280	28390	38580	238230	368740	381700	333450	258890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2005, BY WATER YEAR (WY)#

MEAN	3359	1897	1171	834	681	528	559	2003	5470	6983	6322	5198
MAX	8955	6739	3755	2807	2066	1122	1071	4277	10010	10480	11430	11490
(WY)	1980	2003	2003	1981	1981	1977	1980	2004	1953	1980	1977	1967
MIN	1264	654	364	310	251	208	262	658	3268	4868	3651	2629
(WY)	1956	1951	1951	1951	1949	1951	1952	1952	1972	1996	1969	1969

See Period of Record; partial year was used in monthly statistics, and Remarks

SOUTH-CENTRAL ALASKA

15258000 KENAI RIVER AT COOPER LANDING—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1947 - 2005#	
ANNUAL TOTAL	1074947		1074460			
ANNUAL MEAN	2937		2944		2935	
ANNUAL MEAN	*2826		*2849		*2859	
HIGHEST ANNUAL MEAN					4499 1977	
LOWEST ANNUAL MEAN					2102 1969	
HIGHEST DAILY MEAN	8860	Jun 21	7740	Jun 20	22500	Sep 21 1974
LOWEST DAILY MEAN	643	Apr 2	467	Mar 8	100	Mar 28 1964
ANNUAL SEVEN-DAY MINIMUM	650	Mar 29	474	Mar 2	190	Mar 15 1951
MAXIMUM PEAK FLOW			7830	Jun 20	a23100	Sep 21 1974
MAXIMUM PEAK STAGE			11.71	Jun 20	17.18	Sep 21 1974
INSTANTANEOUS LOW FLOW			415	Mar 10	b0.00	Mar 27 1964
ANNUAL RUNOFF (AC-FT)	2132000		2131000		2126000	
ANNUAL RUNOFF (AC-FT)	*2046070		*2068340		*2071000	
ANNUAL RUNOFF (CFSM)	*4.46		*4.49		*4.51	
ANNUAL RUNOFF (INCHES)	*60.53		*61.18		*61.24	
10 PERCENT EXCEEDS	6390		6140		6950	
50 PERCENT EXCEEDS	1670		1800		1670	
90 PERCENT EXCEEDS	752		545		422	

- # See Period of Record; partial year was used in monthly statistics, and Remarks
- Values shown on this page are unadjusted for inflow from diversion, unless otherwise noted
- * Adjusted to account for inflow from diversion, see Remarks
- a Result of release of stored water from glacier-dammed lake at head of unnamed glacier in the Snow River Basin
- b No flow, Mar. 27 and Mar. 28, 1964, caused by earthquake