

# SOUTHEAST ALASKA

## 15052000 LEMON CREEK NEAR JUNEAU

LOCATION.--Lat 58°23'30", long 134°25'15", in SE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec. 19, T. 40 S., R. 67 E. (Juneau B-2 quad), Hydrologic Unit 19010301, City and Borough of Juneau, in Tongass National Forest, on left bank 0.3 mi upstream from Canyon Creek, 4.5 mi upstream from the mouth at Gastineau Channel, and 6 mi north of Juneau.

DRAINAGE AREA.-- 12.1 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1951 to November 1953, July 1954 to September 1973, annual maximum 1999, May 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above sea level, from topographic map. Prior to Oct.1967 same site and datum about 6.94 ft lower; Oct.1967 to Sept 1973 at same site at datum about 5.85 ft lower.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Large diurnal fluctuations caused by glacier melt at source. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 1,200 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct. 1	1515	1200	10.29	Aug. 30	1615	1260	10.36
Oct. 5	1215	1330	10.43	Sept. 7	1815	1730	10.82
July 27	2215	1500	10.61	Sept. 18	1815	*2240	*11.23
Aug. 5	1000	1540	10.64	Sept. 24	1800	1800	10.88
Aug. 25	1730	1790	10.87				

### 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	904	33	59	e19	16	56	12	116	237	502	227	521
2	484	33	81	e18	13	43	12	98	217	822	253	289
3	277	74	59	17	12	32	12	96	219	621	536	206
4	679	40	33	17	11	34	13	101	292	494	1020	229
5	956	29	24	e16	e9.0	26	13	101	277	428	1190	311
6	360	25	22	e15	e9.0	22	16	117	271	392	610	970
7	244	20	17	15	e10	20	16	154	292	352	419	1280
8	247	19	16	15	e10	37	15	168	312	333	364	724
9	221	19	17	14	e11	41	16	200	320	300	429	335
10	221	17	16	13	e11	83	17	231	299	309	460	262
11	130	16	16	e12	e10	52	17	240	278	345	458	285
12	271	17	21	e12	e10	44	17	231	259	321	471	285
13	539	30	18	e12	10	38	17	282	274	481	491	517
14	270	57	29	e12	9.9	29	18	461	291	487	450	299
15	241	50	22	11	9.7	23	17	472	255	580	360	183
16	130	37	99	11	9.8	20	16	384	261	379	309	212
17	90	28	72	11	9.8	18	17	317	347	778	286	625
18	55	24	121	11	9.5	16	18	296	404	788	658	1400
19	43	26	79	11	9.3	e16	65	284	390	452	596	1040
20	38	102	49	11	9.2	e15	68	249	410	302	479	563
21	34	95	35	11	9.0	e14	129	256	375	368	426	403
22	30	51	57	23	9.2	e13	111	257	266	348	646	367
23	26	36	134	20	11	12	111	262	260	297	320	729
24	26	33	133	15	11	13	183	286	284	335	365	1160
25	24	28	58	14	12	12	223	246	303	391	1020	507
26	22	27	e35	13	11	13	240	301	327	452	656	229
27	33	29	e27	12	19	16	346	344	389	960	375	181
28	46	31	e23	12	39	14	403	285	603	851	340	549
29	76	31	e23	11	---	13	274	278	713	497	374	721
30	37	32	e22	19	---	12	161	315	450	315	885	478
31	29	---	e21	17	---	14	---	290	---	294	740	---
TOTAL	6783	1089	1438	440	330.4	811	2593	7718	9875	14574	16213	15860
MEAN	219	36.3	46.4	14.2	11.8	26.2	86.4	249	329	470	523	529
MAX	956	102	134	23	39	83	403	472	713	960	1190	1400
MIN	22	16	16	11	9.0	12	12	96	217	294	227	181
AC-FT	13450	2160	2850	873	655	1610	5140	15310	19590	28910	32160	31460
CFSM	17.8	2.95	3.77	1.15	0.96	2.13	7.03	20.2	26.8	38.2	42.5	43.0
IN.	20.51	3.29	4.35	1.33	1.00	2.45	7.84	23.34	29.87	44.08	49.03	47.97

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)#

MEAN	163	49.4	21.1	10.2	6.75	6.80	17.7	96.6	272	423	465	370
MAX	428	129	68.6	34.0	20.6	26.2	86.4	249	382	557	718	544
(WY)	2003	1970	2003	2003	2004	2005	2005	2005	1969	1961	1961	1957
MIN	50.8	16.4	4.71	1.50	1.00	1.50	4.50	42.6	158	310	324	205
(WY)	1957	1972	1962	1952	1952	1952	1955	1971	1952	1952	1954	1964

# See Period of Record; partial years were used in monthly statistics and break in record  
e Estimated

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## 15052000 LEMON CREEK NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005#	
ANNUAL TOTAL	67019.6		77724.4			
ANNUAL MEAN	183		213		160	
HIGHEST ANNUAL MEAN					213	
LOWEST ANNUAL MEAN					122	
HIGHEST DAILY MEAN	1360		1400		2660	
LOWEST DAILY MEAN	a	6.0	b	9.0	0.70	Aug 13 1961
ANNUAL SEVEN-DAY MINIMUM	6.1	Mar 17	9.4	Feb 16	0.73	Feb 13 1966
MAXIMUM PEAK FLOW			2240		c5900	
MAXIMUM PEAK STAGE			11.23		d	
ANNUAL RUNOFF (AC-FT)	132900		154200		115600	
ANNUAL RUNOFF (CFSM)	14.9		17.3		13.0	
ANNUAL RUNOFF (INCHES)	202.69		235.07		176.24	
10 PERCENT EXCEEDS	485		519		442	
50 PERCENT EXCEEDS	63		98		45	
90 PERCENT EXCEEDS	9.9		12		4.5	

# See Period of Record; partial years were used in monthly statistics and break in record

a Mar. 18-22

b Feb. 5, 6, and 21

c From rating curve extended above 1,200 ft<sup>3</sup>/s, from flood marks, at datum then in use

d Not determined