

# SOUTH-CENTRAL ALASKA

## 15297580 ALEC RIVER NEAR CHIGNIK

LOCATION.--Lat 56°27'14", long 158°54'58", in NW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 17, T. 43 S., R. 61 W. (Chignik B-3 quad), Hydrologic Unit 19020702, on left bank, 0.7 mi upstream from mouth, and 15.4 mi northwest of the village of Chignik Lake.

DRAINAGE AREA.-- 122.71 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- May 2004 to September 2005 (discontinued.)

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 32 ft above sea level, from topographic map.

REMARKS.--Records are fair. Rain gage at station. GOES satellite telemetry at station.

COOPERATION.--Data collected in cooperation with the U.S. Army Corps of Engineers.

EXTREMES FOR WATER YEAR 2004.--Maximum discharge for period May 19 to September 30, 2004, 4,640 ft<sup>3</sup>/s, June 4, gage height, 12.71 ft; minimum discharge not determined, occurs during the winter.

#### 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	---	---	---	---	---	---	---	---	881	2900	548	411
2	---	---	---	---	---	---	---	---	992	2290	535	441
3	---	---	---	---	---	---	---	---	2510	1970	541	428
4	---	---	---	---	---	---	---	---	3740	1590	535	448
5	---	---	---	---	---	---	---	---	2040	1330	554	400
6	---	---	---	---	---	---	---	---	1600	1170	541	372
7	---	---	---	---	---	---	---	---	1570	1050	489	367
8	---	---	---	---	---	---	---	---	1270	944	475	419
9	---	---	---	---	---	---	---	---	1070	913	465	372
10	---	---	---	---	---	---	---	---	987	905	456	385
11	---	---	---	---	---	---	---	---	958	832	455	367
12	---	---	---	---	---	---	---	---	934	766	440	369
13	---	---	---	---	---	---	---	---	1010	787	453	352
14	---	---	---	---	---	---	---	---	903	862	467	334
15	---	---	---	---	---	---	---	---	883	776	444	350
16	---	---	---	---	---	---	---	---	948	749	416	371
17	---	---	---	---	---	---	---	---	884	716	411	336
18	---	---	---	---	---	---	---	---	1350	647	413	450
19	---	---	---	---	---	---	---	†974	1460	671	390	492
20	---	---	---	---	---	---	---	1030	1190	698	388	569
21	---	---	---	---	---	---	---	1210	1250	691	371	535
22	---	---	---	---	---	---	---	1650	1240	692	642	516
23	---	---	---	---	---	---	---	2190	1190	611	1490	500
24	---	---	---	---	---	---	---	1920	1110	584	866	454
25	---	---	---	---	---	---	---	1570	993	1040	639	481
26	---	---	---	---	---	---	---	1280	882	1080	575	701
27	---	---	---	---	---	---	---	1280	908	855	604	622
28	---	---	---	---	---	---	---	1170	897	740	528	653
29	---	---	---	---	---	---	---	1140	1290	662	487	652
30	---	---	---	---	---	---	---	1030	1740	622	446	627
31	---	---	---	---	---	---	---	936	---	576	426	---
TOTAL	---	---	---	---	---	---	---	---	38680	30719	16490	13774
MEAN	---	---	---	---	---	---	---	---	1289	991	532	459
MAX	---	---	---	---	---	---	---	---	3740	2900	1490	701
MIN	---	---	---	---	---	---	---	---	881	576	371	334
AC-FT	---	---	---	---	---	---	---	---	76720	60930	32710	27320
CFSM	---	---	---	---	---	---	---	---	10.5	8.08	4.33	3.74
IN.	---	---	---	---	---	---	---	---	11.73	9.31	5.00	4.18

† Result of discharge measurement

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## 15297580 ALEC RIVER NEAR CHIGNIK—Continued

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	542	361	467	415	e670	478	e340	532	1150	749	541	1130
2	667	387	430	400	e660	491	e330	512	1120	698	518	963
3	616	418	387	393	e640	583	e320	557	1170	673	516	903
4	559	365	382	377	e620	635	e310	560	1070	655	501	1290
5	602	349	402	352	e670	855	e310	966	1040	607	464	1280
6	655	340	442	341	e640	708	e320	1860	1290	584	436	1310
7	731	347	381	e335	579	802	342	1270	1460	564	416	1230
8	649	326	363	e330	532	912	376	1010	1150	567	405	1080
9	611	418	360	e325	e480	925	375	924	1220	538	387	1070
10	593	418	410	e315	e460	813	343	911	1230	522	382	918
11	792	368	439	e320	e500	736	333	958	1260	508	398	842
12	892	362	372	e500	e560	695	322	1050	1410	571	375	785
13	798	365	365	e400	e650	639	331	1210	1150	571	356	705
14	729	363	355	328	693	602	329	1100	1020	506	351	658
15	668	381	559	1450	532	609	326	998	955	492	352	689
16	636	344	439	1710	671	575	321	928	909	506	404	640
17	608	345	403	1190	656	546	311	872	957	722	663	628
18	578	389	393	962	976	549	310	783	1140	639	709	796
19	565	479	373	847	735	528	308	714	941	549	600	985
20	511	420	364	767	774	513	300	677	817	518	623	992
21	495	413	434	744	688	483	372	634	807	497	600	828
22	491	429	834	695	691	462	416	588	1010	471	591	803
23	492	440	e660	625	636	448	364	564	884	451	617	757
24	470	413	e640	634	609	448	344	553	858	1050	743	699
25	451	414	e600	993	584	439	350	573	978	1030	637	644
26	454	406	e580	741	553	423	362	658	853	799	591	705
27	432	417	e560	677	522	420	428	1370	865	668	550	1700
28	417	401	e520	659	499	410	549	1180	851	748	600	1410
29	429	398	e600	905	---	399	557	1450	873	764	708	1570
30	401	388	e500	956	---	e380	538	1660	865	657	1470	1550
31	386	---	408	e750	---	e350	---	1310	---	588	1650	---
TOTAL	17920	11664	14422	20436	17480	17856	10837	28932	31303	19462	18154	29560
MEAN	578	389	465	659	624	576	361	933	1043	628	586	985
MAX	892	479	834	1710	976	925	557	1860	1460	1050	1650	1700
MIN	386	326	355	315	460	350	300	512	807	451	351	628
AC-FT	35540	23140	28610	40530	34670	35420	21500	57390	62090	38600	36010	58630
CFSM	4.71	3.17	3.79	5.37	5.09	4.69	2.94	7.61	8.50	5.12	4.77	8.03
IN.	5.43	3.54	4.37	6.20	5.30	5.41	3.29	8.77	9.49	5.90	5.50	8.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)#

	2004	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MEAN	578	389	465	659	624	576	361	933	1166	809	559	722
MAX	578	389	465	659	624	576	361	933	1289	991	586	985
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004	2005	2005
MIN	578	389	465	659	624	576	361	933	1043	628	532	459
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004

SUMMARY STATISTICS

FOR 2005 WATER YEAR

WATER YEARS 2004 - 2005#

ANNUAL TOTAL	238026	
ANNUAL MEAN	652	652
HIGHEST ANNUAL MEAN		652 2005
LOWEST ANNUAL MEAN		652 2005
HIGHEST DAILY MEAN	1860	May 6 3740 Jun 4 2004
LOWEST DAILY MEAN	300	Apr 20 300 Apr 20 2005
ANNUAL SEVEN-DAY MINIMUM	315	Apr 14 315 Apr 14 2005
MAXIMUM PEAK FLOW	2260	May 6 4640 Jun 4 2004
MAXIMUM PEAK STAGE	11.34	May 6 12.71 Jun 4 2004
INSTANTANEOUS LOW FLOW	a293	Apr 20 a293 Apr 20 2005
ANNUAL RUNOFF (AC-FT)	472100	472400
ANNUAL RUNOFF (CFSM)	5.31	5.31
ANNUAL RUNOFF (INCHES)	72.16	72.21
10 PERCENT EXCEEDS	1070	1070
50 PERCENT EXCEEDS	580	580
90 PERCENT EXCEEDS	352	352

# See Period of Record; partial year was used in monthly statistics.  
a Apr. 20-21  
e Estimated