

SOUTH-CENTRAL ALASKA

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET NEAR CHIGNIK

LOCATION.--Lat 56°23'41", long 158°56'06", in SW¹/₄ SW¹/₄ SW¹/₄ sec. 05, T. 44 S., R. 61 W. (Chignik B-3 quad), Hydrologic Unit 19020702, on right bank, 1.5 mi below Black Lake, and 11.9 mi northwest from the village of Chignik Lake.

DRAINAGE AREA.-- 282.93 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. 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 CURRENT PERIOD.--Maximum discharge during period May 20 to September 30,2004, 2,440 ft³/s, June 5, gage height, 8.82 ft; minimum discharge 405 ft³/s, Sept. 29.

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	---	---	---	---	---	---	---	---	1480	1690	1020	702
2	---	---	---	---	---	---	---	---	1570	1840	957	783
3	---	---	---	---	---	---	---	---	1830	1980	975	794
4	---	---	---	---	---	---	---	---	2230	2000	935	717
5	---	---	---	---	---	---	---	---	2360	2070	901	685
6	---	---	---	---	---	---	---	---	2130	1890	895	640
7	---	---	---	---	---	---	---	---	2210	1760	869	599
8	---	---	---	---	---	---	---	---	2080	1650	792	663
9	---	---	---	---	---	---	---	---	2040	1560	808	656
10	---	---	---	---	---	---	---	---	1930	1480	775	650
11	---	---	---	---	---	---	---	---	1900	1390	781	646
12	---	---	---	---	---	---	---	---	1810	1170	624	695
13	---	---	---	---	---	---	---	---	1770	1130	545	657
14	---	---	---	---	---	---	---	---	1640	1220	564	631
15	---	---	---	---	---	---	---	---	1580	1190	759	661
16	---	---	---	---	---	---	---	---	1540	931	754	685
17	---	---	---	---	---	---	---	---	1480	1150	644	593
18	---	---	---	---	---	---	---	---	1320	1190	644	625
19	---	---	---	---	---	---	---	---	1540	1160	700	646
20	---	---	---	---	---	---	---	1360	1550	1180	672	818
21	---	---	---	---	---	---	---	1520	1540	1140	547	783
22	---	---	---	---	---	---	---	1540	1460	1120	555	798
23	---	---	---	---	---	---	---	1810	1610	1020	696	857
24	---	---	---	---	---	---	---	2010	1680	860	847	749
25	---	---	---	---	---	---	---	2130	1630	888	885	832
26	---	---	---	---	---	---	---	2110	1540	1060	953	1000
27	---	---	---	---	---	---	---	1860	1430	1100	881	853
28	---	---	---	---	---	---	---	1930	1370	1130	854	829
29	---	---	---	---	---	---	---	1950	1420	1120	833	608
30	---	---	---	---	---	---	---	1830	1530	1080	770	1050
31	---	---	---	---	---	---	---	1640	---	1040	682	---
TOTAL	---	---	---	---	---	---	---	---	51200	41189	24117	21905
MEAN	---	---	---	---	---	---	---	---	1707	1329	778	730
MAX	---	---	---	---	---	---	---	---	2360	2070	1020	1050
MIN	---	---	---	---	---	---	---	---	1320	860	545	593
MED	---	---	---	---	---	---	---	---	1600	1170	781	690
AC-FT	---	---	---	---	---	---	---	---	101600	81700	47840	43450
IN.	---	---	---	---	---	---	---	---	6.73	5.42	3.17	2.88

SOUTH-CENTRAL ALASKA

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET 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	1010	681	1010	1090	913	963	326	e570	1330	1110	907	1010
2	1090	701	1050	1100	e900	872	332	e550	1370	1050	955	980
3	1140	e600	954	1140	e900	868	316	e515	1470	956	948	1060
4	1160	558	853	1110	e900	865	319	691	1460	995	899	1120
5	1260	679	807	1040	e850	959	276	784	1330	994	858	1140
6	1220	753	968	991	e850	1080	228	1120	1230	1020	820	1230
7	1260	789	938	924	e850	1120	212	1300	1370	960	785	1290
8	1170	804	928	862	e800	1300	235	1210	1390	875	748	1110
9	1240	750	905	806	e800	1400	311	1090	1500	888	634	1120
10	1170	714	769	746	e800	1550	309	1100	1570	875	553	1290
11	1140	877	842	722	e800	1310	326	1170	1580	772	729	1190
12	1280	968	881	642	715	1200	206	1230	1690	800	731	1320
13	1390	935	903	595	718	1400	127	1270	1630	801	654	1200
14	1380	810	832	573	805	1180	91	1340	1580	759	649	1050
15	1340	1040	943	836	892	1350	205	1310	1480	676	655	1120
16	1300	946	962	1240	876	1300	196	1280	1320	812	629	1190
17	1240	802	955	1400	766	1060	125	1350	1230	863	747	1150
18	1190	912	962	1420	985	1030	160	1300	1460	847	800	1160
19	1220	853	928	1400	1030	1210	176	1220	1540	828	841	1220
20	1160	1040	873	1370	1370	1270	e220	1230	1310	807	837	1180
21	1180	851	826	1330	1400	1180	e350	1130	1180	721	776	1110
22	1090	1030	977	1300	1440	1070	e400	1050	1300	743	591	1120
23	1090	1060	1060	1170	1380	999	e420	1010	1230	682	815	1200
24	1110	1060	887	1000	1330	983	e510	853	1110	702	856	1190
25	759	1050	878	1120	1280	1040	e440	647	1240	848	729	1150
26	858	855	e850	1200	1190	723	e350	687	1200	897	917	960
27	955	855	e850	1170	1130	720	e340	904	1210	999	765	1320
28	929	945	e900	1050	1060	703	e600	1070	1230	1030	852	1480
29	967	978	900	1070	---	696	e640	1160	1210	1000	830	1530
30	853	880	963	1250	---	334	e610	1280	1170	971	910	1620
31	931	---	1050	1290	---	302	---	1340	---	940	1020	---
TOTAL	35082	25776	28404	32957	27730	32037	9356	32761	40920	27221	24440	35810
MEAN	1132	859	916	1063	990	1033	312	1057	1364	878	788	1194
MAX	1390	1060	1060	1420	1440	1550	640	1350	1690	1110	1020	1620
MIN	759	558	769	573	715	302	91	515	1110	676	553	960
MED	1160	855	905	1100	900	1060	313	1130	1330	875	800	1170
AC-FT	69590	51130	56340	65370	55000	63550	18560	64980	81160	53990	48480	71030
IN.	4.61	3.39	3.73	4.33	3.65	4.21	1.23	4.31	5.38	3.58	3.21	4.71

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

	2004	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004	2005
MEAN	1132	859	916	1063	990	1033	312	1057	1535	1103	783	962
MAX	1132	859	916	1063	990	1033	312	1057	1707	1329	788	1194
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004	2005	2005
MIN	1132	859	916	1063	990	1033	312	1057	1364	878	778	730
(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	352494		
ANNUAL MEAN	966		966
HIGHEST ANNUAL MEAN			966
LOWEST ANNUAL MEAN			966
HIGHEST DAILY MEAN	1690	Jun 12	2360
LOWEST DAILY MEAN	91	Apr 14	91
ANNUAL SEVEN-DAY MINIMUM	154	Apr 13	154
MAXIMUM PEAK FLOW	1730	Jun 12	2440
MAXIMUM PEAK STAGE	8.06	Jun 12	8.82
INSTANTANEOUS LOW FLOW	56	Apr 14	56
ANNUAL RUNOFF (AC-FT)	699200		699600
ANNUAL RUNOFF (INCHES)	46.35		46.38
10 PERCENT EXCEEDS	1330		1330
50 PERCENT EXCEEDS	967		967
90 PERCENT EXCEEDS	593		593

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