

# SOUTH-CENTRAL ALASKA

## 15295700 TERROR RIVER AT MOUTH NEAR KODIAK

LOCATION.--Lat 57°41'41", long 153°09'42", in SW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 5, T. 29 S., R. 24 W. (Kodiak C-4 quad), Kodiak Island Borough, Hydrologic Unit 19020701, on Kodiak Island, in Kodiak National Wildlife Refuge, on right bank, 0.9 mi upstream from mouth, 7.5 mi downstream from Terror Lake Dam, and 29 mi southwest of Kodiak.

DRAINAGE AREA.--30.7 mi<sup>2</sup>, 45.7 mi<sup>2</sup> prior to partial diversion of Terror Lake to hydropower plant in February 1985.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1964 to October 1968, October 1981 to current year.

REVISED RECORDS.--WDR AK-84-1: 1982-83. WDR AK-96-1: 1995(M).

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map. Prior to October 1, 1981 at site 0.2 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow from 15 mi<sup>2</sup> at headwaters regulated by Terror Lake Dam and some flow diverted from Terror Lake to Kizhuyak River. Regulation for construction began in November 1982. Began filling reservoir April 29, 1984. Diversion to hydropower plant began February 12, 1985. GOES satellite telemetry at station.

#### 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	2260	268	143	136	137	92	109	459	440	329	175	184
2	1480	241	142	135	136	153	118	309	526	260	173	190
3	468	195	154	126	137	119	121	232	607	264	181	210
4	322	192	190	135	137	104	123	267	533	254	188	189
5	989	196	165	140	137	94	145	322	539	223	178	177
6	1310	198	146	134	135	88	207	463	482	230	181	179
7	780	188	142	134	136	80	180	558	460	264	171	176
8	529	194	137	131	151	85	282	443	359	267	172	171
9	365	192	155	129	150	102	406	330	293	262	186	170
10	256	199	136	126	307	94	216	281	307	247	186	172
11	205	199	146	124	219	88	157	325	710	225	183	173
12	198	193	148	119	198	85	130	295	1270	224	179	169
13	202	188	142	121	551	82	127	276	811	226	179	170
14	2080	188	151	120	288	82	135	257	503	206	177	172
15	3780	184	146	116	203	82	140	280	443	205	180	179
16	1940	160	135	116	182	83	142	384	483	215	181	169
17	749	147	130	112	145	83	144	382	463	212	182	157
18	415	142	132	117	119	80	133	315	681	197	177	157
19	271	148	133	160	104	79	131	444	524	208	196	166
20	248	135	129	151	96	80	137	457	440	211	186	165
21	263	136	129	167	96	81	173	406	382	225	192	159
22	377	131	145	151	90	81	206	543	379	433	189	157
23	452	149	145	147	91	81	167	869	399	294	201	156
24	365	152	143	145	101	82	157	1310	412	246	193	154
25	364	142	144	143	88	82	187	762	367	258	188	170
26	337	142	142	142	83	81	175	479	361	254	190	176
27	296	145	142	143	85	86	188	483	357	202	188	172
28	284	151	169	141	82	89	192	475	351	180	190	170
29	275	147	393	139	82	88	245	606	386	188	185	169
30	263	146	164	138	---	91	254	652	406	190	182	171
31	265	---	137	137	---	96	---	515	---	187	187	---
TOTAL	22388	5188	4755	4175	4466	2773	5227	14179	14674	7386	5696	5149
MEAN	722	173	153	135	154	89.5	174	457	489	238	184	172
MAX	3780	268	393	167	551	153	406	1310	1270	433	201	210
MIN	198	131	129	112	82	79	109	232	293	180	171	154
AC-FT	44410	10290	9430	8280	8860	5500	10370	28120	29110	14650	11300	10210

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)#

MEAN	302	207	153	131	117	101	172	330	491	359	276	280
MAX	722	631	313	267	205	152	247	457	872	1070	662	707
(WY)	2004	2003	1986	2003	2003	1998	1993	2004	1987	1987	1988	1995
MIN	192	93.8	78.4	81.8	72.6	60.9	115	231	305	228	183	172
(WY)	1998	1995	1988	1989	1989	1986	1986	2003	1990	1989	1994	2004

# See Period of Record and Remarks

# SOUTH-CENTRAL ALASKA

## 15295700 TERROR RIVER AT MOUTH NEAR KODIAK—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1986 - 2004#	
ANNUAL TOTAL	98637		96056			
ANNUAL MEAN	270		262		244	
HIGHEST ANNUAL MEAN					369 1987	
LOWEST ANNUAL MEAN					193 2000	
HIGHEST DAILY MEAN	3780	Oct 15	3780	Oct 15	4610 Sep 20 1995	
LOWEST DAILY MEAN	79	Feb 22	79	Mar 19	a26 Dec 11 1996	
ANNUAL SEVEN-DAY MINIMUM	85	Feb 21	81	Mar 18	39 Nov 19 1985	
MAXIMUM PEAK FLOW			4910	Oct 15	b10000 Sep 19 1995	
MAXIMUM PEAK STAGE			5.82	Oct 15	7.67 Sep 19 1995	
INSTANTANEOUS LOW FLOW			c67	Mar 7	a9.8 Dec 11 1996	
ANNUAL RUNOFF (AC-FT)	195600		190500		176600	
10 PERCENT EXCEEDS	480		463		464	
50 PERCENT EXCEEDS	195		180		186	
90 PERCENT EXCEEDS	108		100		86	

### PRIOR TO CONSTRUCTION OF TERROR LAKE DAM

#### SUMMARY STATISTICS, WATER YEARS 1965 - 1983 #

ANNUAL MEAN	293	
HIGHEST ANNUAL MEAN	421	1983
LOWEST ANNUAL MEAN	230	1967
HIGHEST DAILY MEAN	2600	Oct 2 1965
LOWEST DAILY MEAN	d19	Feb 23 1967
ANNUAL SEVEN-DAY MINIMUM	20	Feb 23 1967
INSTANTANEOUS PEAK FLOW	3820	Sep 26 1966
INSTANTANEOUS PEAK STAGE	f6.48	Sep 26 1966
INSTANTANEOUS PEAK STAGE	g7.54	Mar 28 1964
ANNUAL RUNOFF (AC-FT)	212200	
ANNUAL RUNOFF (CFSM)	9.54	
ANNUAL RUNOFF (IN)	129.66	
10 PERCENT EXCEEDS	774	
50 PERCENT EXCEEDS	157	
90 PERCENT EXCEEDS	39	

# See Period of Record and Remarks

a Occurred while dam release valve was closed for repair

b From rating curve extended above 960 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow

c Mar. 7-8

d Feb. 23 and Mar. 1, 1967

f Site and datum then in use

g Site and datum then in use; from tidal wave