

SOUTHWEST ALASKA

15297610 RUSSELL CREEK NEAR COLD BAY

LOCATION.--Lat 55°10'40", long 162°41'15", (Cold Bay A-3 quad), Aleutians East Borough, Hydrologic Unit 19030101, on left bank, at Russell Creek Fish Hatchery, 2.1 mi upstream from mouth, and 2.6 mi southeast of Cold Bay. Prior to February 27, 1997, at site 0.2 mi downstream.

DRAINAGE AREA.--30.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to December 1986, October 1995 to current year.

REVISED RECORDS.-- WRD AK-97-1: 1996, Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 7.65 ft above sea level. Prior to February 27, 1997, elevation 3.55 ft above sea level at site 0.2 mi downstream (levels by private engineering firm).

REMARKS.--Records good, except for estimated daily discharges, which are poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 13	1915	1830	27.79	Sept. 14	2215	*2030	*27.95
Aug. 10	1700	1610	27.60				

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	359	211	294	632	e170	172	e130	192	307	341	224	246
2	327	541	254	471	e170	174	130	212	301	311	236	282
3	284	286	234	413	e170	167	130	194	305	335	264	292
4	388	243	305	317	e170	160	126	204	249	325	257	323
5	364	233	601	e300	176	163	e125	379	280	307	222	383
6	367	220	344	257	318	166	125	290	366	267	210	294
7	414	207	275	240	240	169	116	230	377	295	234	250
8	374	202	249	224	195	162	e116	195	543	287	245	642
9	320	295	236	e200	e190	198	e116	188	407	310	275	443
10	307	309	534	193	e180	174	116	192	391	335	905	298
11	367	216	315	187	e170	167	112	201	422	282	659	420
12	320	224	264	306	248	168	111	189	392	297	363	262
13	299	219	233	1460	430	169	117	200	313	271	278	264
14	279	375	223	723	318	235	121	215	261	249	251	628
15	276	268	236	696	230	275	118	213	247	336	298	680
16	304	225	215	603	401	204	115	200	748	390	516	365
17	428	607	198	430	537	195	111	206	990	384	356	469
18	391	338	188	352	448	190	109	186	541	311	536	495
19	290	365	e180	312	430	176	101	166	417	274	433	459
20	240	275	e170	281	463	167	99	157	373	286	356	359
21	224	504	431	259	327	157	210	141	408	334	323	379
22	204	340	641	252	278	155	185	134	372	316	474	459
23	241	307	341	224	250	149	137	127	321	268	340	323
24	196	280	e300	218	225	145	131	130	476	305	304	250
25	586	276	263	223	208	141	163	221	444	263	344	234
26	313	477	339	208	196	141	220	407	370	300	302	423
27	271	369	265	189	185	160	495	295	412	345	258	405
28	242	303	221	185	175	146	258	226	590	356	300	442
29	281	274	202	181	---	139	214	245	532	342	262	374
30	275	283	486	206	---	136	210	269	404	292	331	395
31	234	---	577	176	---	e130	---	323	---	236	297	---
TOTAL	9765	9272	9614	10918	7498	5250	4567	6727	12559	9550	10653	11538
MEAN	315	309	310	352	268	169	152	217	419	308	344	385
MAX	586	607	641	1460	537	275	495	407	990	390	905	680
MIN	196	202	170	176	170	130	99	127	247	236	210	234
AC-FT	19370	18390	19070	21660	14870	10410	9060	13340	24910	18940	21130	22890
CFSM	10.2	10.0	10.0	11.4	8.67	5.48	4.93	7.02	13.5	9.97	11.1	12.4
IN.	11.76	11.16	11.57	13.14	9.03	6.32	5.50	8.10	15.12	11.50	12.82	13.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005, BY WATER YEAR (WY)#

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
MEAN	284	297	250	178	165	147	146	249	340	337	322	348													
MAX	516	530	549	352	272	218	261	575	634	528	427	538													
(WY)	1986	1986	1984	2005	1982	1996	1998	2002	2000	1982	2004	1998													
MIN	172	168	86.8	59.5	71.2	75.8	80.3	133	208	192	256	170													
(WY)	1997	2000	2000	2000	2000	1986	1985	2001	1997	1997	1996	2000													

See Period of Record; break in record
e Estimated

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15297610 RUSSELL CREEK NEAR COLD BAY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005#	
ANNUAL TOTAL	112572		107911			
ANNUAL MEAN	308		296			
HIGHEST ANNUAL MEAN					255	
LOWEST ANNUAL MEAN					302	1982
HIGHEST DAILY MEAN	1390	May 23	1460	Jan 13	206	1983
LOWEST DAILY MEAN	89	Apr 5	99	Apr 20	4000	Jun 24 1996
ANNUAL SEVEN-DAY MINIMUM	93	Mar 31	111	Apr 14	a50	Feb 19 1982
MAXIMUM PEAK FLOW			2030	Sep 14	51	Feb 18 1982
MAXIMUM PEAK STAGE			c27.95	Sep 14	be6000	Oct 22 1981
INSTANTANEOUS LOW FLOW			f87	Sep 14	d11.76	Jun 24 1996
ANNUAL RUNOFF (AC-FT)	223300		214000	Apr 19	g49	Mar 13 1983
ANNUAL RUNOFF (CFSM)	9.95		9.57		184900	
ANNUAL RUNOFF (INCHES)	135.52		129.91		8.26	
10 PERCENT EXCEEDS	506		461		112.20	
50 PERCENT EXCEEDS	275		274		438	
90 PERCENT EXCEEDS	139		157		210	
					100	

- # See Period of Record; break in record
- a Feb. 19-23, 1982
- b From rating curve extended above 610 ft³/s on basis of estimate by slope-area measurement of 6,000 ft³/s and gage height of 11.19 ft
- c From crest-stage gage
- d Site and datum then in use; from flood marks
- e Estimated
- f Apr. 19-20
- g Mar. 13-14, 1983