

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 WATER YEARS 1982-1986, 1996-2004.--Peak discharges above base 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)
Oct. 22, 1981	u	e6000*	11.19	Sep. 05, 1996	0945	3290	10.81
Jul. 22, 1982	1200	2810	9.70	Nov. 15, 1996	1100	1860	9.27
Jul 26, 1982	1900	2520	9.50	Sep. 06, 1997	0945	1910*	27.50
Sep. 06, 1982	2100	1655	8.78	Sep. 23, 1997	0715	1660	27.31
Sep. 16, 1982	1600	1863	8.98	May 17, 1998	0300	2240	27.76
Nov. 11, 1982	u	1930*	9.03	Sep. 18, 1998	1545	3170*	28.52
Dec. 20, 1983	2200	2490	9.51	Sep. 22, 1998	0230	1610	27.26
Dec. 22, 1983a	0200	2540*	9.55	Aug. 03, 1999	u	2930*	28.34
Oct. 30, 1984	0800	2260	9.31	Jun. 02, 2000	0645	1760*	27.73
Aug. 14, 1985	0200	2340	9.40	Aug. 01, 2000	2245	1550	27.55
Sep. 18, 1985	u	3620*	10.25	Aug. 28, 2000	1430	1530	27.53
Oct. 05, 1985	2200	5200*	10.93	Oct. 24, 2000	0645	2850	28.57
Oct. 7, 1985	1200	3740	10.31	Nov. 12, 2000	1830	3060*	28.74
Nov. 08, 1985	2030	4720	10.75	Dec. 09, 2000	0415	1760	27.73
Nov. 21, 1985	1030	1590	8.72	May 20, 2002	0800	1800	27.77
Aug. 02, 1986	0630	2280	9.35	May 24, 2002	0045	2220*	28.11
Sep. 05, 1986	2400	3570	10.20	Dec. 28, 2003	2215	1500	27.50
Sep. 13, 1986	0400	4500	10.66	May 23, 2004	0800	1690	27.67
Nov. 13, 1986	0330	2030*	9.14	Sep. 29, 2004	1130	1840*	27.80
Oct. 29, 1995	0515	1560	8.56				
Jun. 24, 1996	u	4700*	11.76				

a Previously published as Dec. 20, 1983
e Estimated
u unknown

SOUTHWEST ALASKA

15297610 RUSSELL CREEK NEAR COLD BAY—Continued

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	295	357	e200	235	227	594	e95	208	387	331	224	302
2	253	429	e200	216	204	369	e90	206	347	324	249	278
3	205	538	e190	e200	311	268	e90	200	342	292	419	298
4	206	393	e190	184	237	222	92	203	469	292	267	240
5	459	314	e180	172	204	204	89	378	366	314	763	209
6	539	314	e180	166	e200	188	99	754	663	319	602	278
7	561	273	e170	e160	193	183	103	767	697	278	332	469
8	370	348	e170	e160	235	176	108	441	490	262	318	254
9	372	251	e160	e150	293	199	111	426	434	269	277	236
10	297	235	e150	e150	195	218	250	562	361	298	242	346
11	287	291	143	e140	187	183	152	408	371	294	234	371
12	400	258	128	e140	268	163	151	364	375	368	337	267
13	321	222	124	e140	202	161	135	369	340	309	757	220
14	260	194	122	e130	189	149	267	318	289	246	1090	199
15	310	188	121	e130	201	142	764	300	287	243	849	227
16	242	e175	e120	e130	178	148	283	398	321	505	516	193
17	264	e165	e120	e130	168	133	324	315	310	385	420	342
18	217	255	e120	e130	164	e130	242	269	313	478	452	371
19	194	219	e110	e120	180	e130	199	275	519	482	422	477
20	180	377	e110	e120	176	e125	213	353	379	400	344	377
21	172	312	e110	e120	154	e120	243	455	431	303	426	302
22	167	239	e110	e110	142	e120	213	843	777	243	624	285
23	164	260	e100	e110	137	115	189	1390	509	241	568	241
24	159	307	e100	e200	140	119	179	1240	374	703	380	238
25	158	247	e100	e400	188	117	174	786	321	623	328	213
26	152	222	389	e500	275	113	206	553	302	393	298	189
27	148	272	397	345	170	107	237	524	337	340	328	207
28	144	287	714	273	256	e105	185	512	320	307	282	249
29	431	211	781	240	379	e100	197	466	288	314	254	1290
30	374	e200	360	250	---	e100	232	401	301	263	226	593
31	412	---	277	296	---	e95	---	353	---	242	406	---
TOTAL	8713	8353	6446	5947	6053	5296	5912	15037	12020	10661	13234	9761
MEAN	281	278	208	192	209	171	197	485	401	344	427	325
MAX	561	538	781	500	379	594	764	1390	777	703	1090	1290
MIN	144	165	100	110	137	95	89	200	287	241	224	189
AC-FT	17280	16570	12790	11800	12010	10500	11730	29830	23840	21150	26250	19360
CFSM	9.10	9.01	6.73	6.21	6.75	5.53	6.38	15.7	13.0	11.1	13.8	10.5
IN.	10.49	10.06	7.76	7.16	7.29	6.38	7.12	18.10	14.47	12.83	15.93	11.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, BY WATER YEAR (WY)#

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	281	296	246	165	158	145	145	252	334	339	320	346							
MAX	516	530	549	318	272	218	261	575	634	528	427	538							
(WY)	1986	1986	1984	1982	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							

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1982 - 2004#

ANNUAL TOTAL	81336	107433		
ANNUAL MEAN	223	294	252	
HIGHEST ANNUAL MEAN			302	1982
LOWEST ANNUAL MEAN			206	1983
HIGHEST DAILY MEAN	781	Dec 29	1390	May 23
LOWEST DAILY MEAN	b95	Jan 8	89	Apr 5
ANNUAL SEVEN-DAY MINIMUM	99	Jan 3	93	Mar 31
MAXIMUM PEAK FLOW			1840	Sep 29
MAXIMUM PEAK STAGE			27.80	Sep 29
INSTANTANEOUS LOW FLOW			g	
ANNUAL RUNOFF (AC-FT)	161300	213100	182800	
ANNUAL RUNOFF (CFSM)	7.21	9.50	8.16	
ANNUAL RUNOFF (INCHES)	97.92	129.34	110.93	
10 PERCENT EXCEEDS	371	493	436	
50 PERCENT EXCEEDS	191	254	204	
90 PERCENT EXCEEDS	120	122	100	

- # See Period of Record
- b Jan. 8-9
- c Feb. 19-23, 1982
- d 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
- e Estimated
- f Site and datum then in use; from flood marks
- g Not determined, see lowest daily mean
- h Mar. 13-14, 1983