

SOUTH-CENTRAL ALASKA

15272280 PORTAGE CREEK AT PORTAGE LAKE OUTLET NEAR WHITTIER

LOCATION.--Lat 60°47'07", long 148°50'20", in SW¹/₄ NE¹/₄ sec. 13, T. 8 N., R. 3 E. (Seward D-5 SW quad), Municipality of Anchorage, Hydrologic Unit 19020302, on left bank at lake outlet, 5.0 mi west of Whittier, 5.8 mi southeast of Portage, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--40.5 mi².

PERIOD OF RECORD.--March 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 95 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s, August 19, 1984 (elevation about 97.05 ft above sea level from USFS levels) by contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 4,600 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage Height	Date	Time	Discharge (ft ³ /s)	Gage Height
Oct 3	u	*9370	*a9.40	Jul 22	2345	6730	8.37
Oct 7	u	be8500	u	Jul 27	0830	6190	8.13
Jun 17	0800	4760	7.44				

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	e4500	223	51	144	63	101	39	409	816	1650	1470	1140
2	e6500	202	49	123	58	101	45	488	861	1590	1620	1540
3	e9000	188	65	107	56	122	80	487	1110	1490	1680	1680
4	e6000	174	109	94	56	113	86	450	1120	1760	1620	1270
5	e5000	161	100	83	60	101	133	466	1050	1740	1440	931
6	e7500	167	88	72	70	91	284	505	1040	1510	1330	764
7	e8500	203	80	60	74	84	777	550	1210	1810	1370	681
8	3710	229	83	54	80	77	960	561	1340	2070	1480	604
9	1970	227	148	67	78	75	937	524	1290	2100	1490	553
10	1430	197	320	84	120	93	696	480	1190	1950	1490	543
11	1080	178	363	80	192	90	457	466	1310	1840	1560	519
12	781	165	394	71	169	96	322	500	1340	1830	1650	525
13	595	149	363	65	164	86	242	538	1160	1870	1550	535
14	587	130	298	61	220	86	199	557	1080	1750	1390	473
15	859	114	261	57	201	83	176	587	1260	1620	1420	390
16	662	102	221	50	166	71	163	716	2600	1580	1510	327
17	486	91	193	42	138	61	159	975	4390	1690	1690	282
18	383	84	158	35	116	57	169	965	3090	2630	1720	248
19	489	79	147	32	108	56	179	873	2360	3680	1730	264
20	490	77	136	43	135	52	165	826	2140	2550	1860	535
21	414	83	134	110	221	48	152	844	2190	2190	1600	706
22	353	79	173	203	353	45	194	869	2070	4310	1540	686
23	342	76	162	187	309	41	231	1020	1890	5230	1570	685
24	636	70	145	157	285	39	253	1380	1890	2750	1460	549
25	804	64	123	131	249	37	285	1740	1910	1870	1320	467
26	890	59	105	118	197	38	296	1430	1960	2930	1340	1740
27	872	58	93	103	161	39	313	1160	2010	5740	1730	1440
28	635	56	86	86	137	39	386	1140	1970	3880	1870	806
29	433	55	147	74	115	38	431	1170	1900	2520	1310	560
30	325	55	200	65	---	39	383	1010	1750	1880	1130	596
31	262	---	171	63	---	41	---	898	---	1570	1130	---
TOTAL	66488	3795	5166	2721	4351	2140	9192	24584	51297	73580	47070	22039
MEAN	2145	126	167	87.8	150	69.0	306	793	1710	2374	1518	735
MAX	9000	229	394	203	353	122	960	1740	4390	5740	1870	1740
MIN	262	55	49	32	56	37	39	409	816	1490	1130	248
AC-FT	131900	7530	10250	5400	8630	4240	18230	48760	101700	145900	93360	43710
CFSM	53.0	3.12	4.11	2.17	3.70	1.70	7.57	19.6	42.2	58.6	37.5	18.1
IN.	61.07	3.49	4.75	2.50	4.00	1.97	8.44	22.58	47.12	67.58	43.23	20.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2004, BY WATER YEAR (WY)#

	736	303	163	146	136	82.8	229	604	1472	2102	2024	1719
MEAN	2145	1456	482	460	407	189	393	1158	1728	2518	3164	3583
(WY)	2004	2003	2003	2001	2003	1998	1995	1995	1990	1990	1989	1995
MIN	136	90.5	26.3	26.0	26.0	26.0	36.7	286	1178	1714	1409	649
(WY)	1997	1991	1991	1991	1991	1991	2002	2001	2001	1999	1998	1992

See Period of Record: partial years used in monthly statistics
a From floodmark
b Mean daily discharge
e Estimated

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1989 - 2004#	
ANNUAL TOTAL	329193		312423			
ANNUAL MEAN	902		854		803	
HIGHEST ANNUAL MEAN					1010	
LOWEST ANNUAL MEAN					656	
HIGHEST DAILY MEAN	e9000	Oct 3	e9000	Oct 3	10700	
LOWEST DAILY MEAN	33	Apr 7	32	Jan 19	b26	
ANNUAL SEVEN-DAY MINIMUM	35	Apr 2	38	Mar 24	26	
MAXIMUM PEAK FLOW			9370	Oct 3	13000	
MAXIMUM PEAK STAGE			c9.40	Oct 3	10.66	
INSTANTANEOUS LOW FLOW			27	Jan 19	26	
ANNUAL RUNOFF (AC-FT)	653000		619700		581500	
ANNUAL RUNOFF (CFSM)	22.3		21.1		19.8	
ANNUAL RUNOFF (INCHES)	302.37		286.97		269.26	
10 PERCENT EXCEEDS	2170		1890		1990	
50 PERCENT EXCEEDS	328		384		323	
90 PERCENT EXCEEDS	65		61		55	

See Period of Record: partial years used in monthly statistics
b From Dec. 5, 1990 to Mar. 31, 1991
c From floodmark
e Estimated