

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
July 26	0100	*5970	*8.03	Sept. 17	1315	4860	7.49

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	755	171	301	87	103	72	62	492	1460	1690	1160	833
2	1230	158	312	83	e95	63	57	462	1160	1570	1510	743
3	4020	177	255	116	e90	63	54	411	1010	1510	2660	755
4	3980	166	208	214	e85	66	57	395	993	1450	2900	2180
5	2890	144	174	194	78	85	76	406	1090	1430	2160	3240
6	1840	128	156	162	74	111	190	438	1140	1590	1730	3050
7	1150	133	156	137	75	141	273	428	1230	1660	1590	2240
8	815	144	140	118	94	241	233	415	1450	1750	1560	1450
9	755	148	124	104	110	391	213	422	2410	1780	1550	1340
10	866	270	122	91	145	663	184	455	3220	1810	1560	1850
11	716	475	123	96	137	963	160	480	2470	1790	1660	1410
12	1370	500	117	107	110	646	140	788	2000	1900	1770	1370
13	1090	459	141	108	93	468	126	1940	1620	2950	1660	1200
14	891	387	147	98	100	326	114	3260	1450	2910	1480	1010
15	665	306	137	87	116	247	105	2390	1460	2170	1370	994
16	492	262	163	78	99	191	100	1700	1560	2390	1350	2240
17	390	263	235	70	84	157	96	1200	1760	3360	1510	4220
18	320	303	690	63	72	135	119	960	2060	2380	2130	2830
19	287	361	856	58	65	116	141	866	2030	2090	1880	1550
20	250	390	537	66	62	103	148	836	1670	1870	1610	1040
21	218	309	367	95	83	94	171	840	1460	1810	1440	794
22	196	283	358	235	97	97	429	855	1420	1560	1190	784
23	184	341	310	553	104	91	469	864	1330	1440	2280	1220
24	177	385	249	459	97	82	414	944	1310	1500	2800	1650
25	163	360	203	347	106	75	378	1000	1360	3460	1780	1090
26	175	287	174	252	102	68	352	1280	1410	4720	1320	824
27	189	253	156	193	88	67	367	2970	1450	2860	1130	2060
28	259	368	136	156	79	70	387	4010	1480	2330	1010	2830
29	262	331	117	134	---	68	436	3690	1550	1670	912	1980
30	226	264	105	119	---	63	483	2600	1670	1330	875	1030
31	195	---	95	104	---	64	---	2020	---	1230	867	---
TOTAL	27016	8526	7364	4784	2643	6087	6534	39817	47683	63960	50404	49807
MEAN	871	284	238	154	94.4	196	218	1284	1589	2063	1626	1660
MAX	4020	500	856	553	145	963	483	4010	3220	4720	2900	4220
MIN	163	128	95	58	62	63	54	395	993	1230	867	743
AC-FT	53590	16910	14610	9490	5240	12070	12960	78980	94580	126900	99980	98790
CFSM	21.5	7.02	5.87	3.81	2.33	4.85	5.38	31.7	39.2	50.9	40.1	41.0
IN.	24.81	7.83	6.76	4.39	2.43	5.59	6.00	36.57	43.80	58.75	46.30	45.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)#

MEAN	745	302	168	147	134	89.5	228	644	1479	2100	2001	1716
MAX	2145	1456	482	460	407	196	393	1284	1728	2518	3164	3583
(WY)	2004	2003	2003	2001	2003	2005	1995	2005	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 year was used in monthly statistics.
e Estimated

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005#	
ANNUAL TOTAL	279880		314625			
ANNUAL MEAN	765		862		806	
HIGHEST ANNUAL MEAN					1010	
LOWEST ANNUAL MEAN					656	
HIGHEST DAILY MEAN					10700	
LOWEST DAILY MEAN	5740	Jul 27	4720	Jul 26	Sep 20 1995	
ANNUAL SEVEN-DAY MINIMUM	32	Jan 19	54	Apr 3	a26 Dec 5 1990	
MAXIMUM PEAK FLOW	38	Mar 24	61	Mar 29	26 Dec 5 1990	
MAXIMUM PEAK STAGE			5970	Jul 26	13000 Sep 20 1995	
INSTANTANEOUS LOW FLOW			8.03	Jul 26	10.66 Sep 20 1995	
ANNUAL RUNOFF (AC-FT)	555100		624100		26 Dec 5 1990	
ANNUAL RUNOFF (CFSM)	18.9		21.3		584100	
ANNUAL RUNOFF (INCHES)	257.07		288.99		19.9	
10 PERCENT EXCEEDS	1850		2110		270.51	
50 PERCENT EXCEEDS	376		414		2000	
90 PERCENT EXCEEDS	71		88		328	
					55	

See Period of Record; partial year was used in monthly statistics.
a From Dec. 5, 1990 to Mar. 31, 1991