

SOUTH-CENTRAL ALASKA

15276000 SHIP CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°13'32", long 149°38'06", in SW¹/₄ SE¹/₄ sec. 9, T. 13 N., R. 2 W. (Anchorage A-8 quad), Municipality of Anchorage, Hydrologic Unit 19020401, in Fort Richardson Military Reservation, on left bank, 800 ft downstream from diversion dam, 3.3 mi upstream from North Fork Ship Creek, and 7.8 mi east of intersection of Seward and Glenn Highways in Anchorage.

DRAINAGE AREA.--89.5 mi², revised. (area at site used prior to October 1, 2003, 90.5 mi², revised).

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1936: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 490 ft above sea level, from topographic map. Prior to August 22, 1985, water-stage recorder at dam 800 ft upstream. See WSP 1936 for history of changes prior to October 1, 1954.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Discharge data represent the net flow remaining after diversion for water supply to Fort Richardson, Elmendorf Air Force Base, and Municipality of Anchorage. Average diversion for water year 2004 was 5.86 ft³/s. Diversion began in 1944. Magnitude of discharges downstream of dam may be affected by periodic spillway adjustment.

COOPERATION.--Gage inspected and records of diversion provided by Office of Post Engineers, Fort Richardson.

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	109	e100	e85	e60	e46	e36	e28	e180	389	236	90	80
2	112	e100	e80	e55	e44	e36	e32	e190	372	223	84	80
3	288	e100	e75	e60	e44	e36	e33	e250	358	211	81	78
4	394	e95	e85	e60	e44	e36	e34	e300	369	201	74	75
5	e300	e100	e90	e60	e44	e34	e36	344	389	192	77	71
6	e300	e100	e80	e60	e44	e32	e38	393	405	181	75	68
7	e280	e105	e80	e60	e43	e32	e40	390	455	173	73	66
8	e260	e110	e85	e55	e42	e36	e42	454	495	165	71	65
9	e250	e110	e85	e60	e42	e30	e40	365	456	151	70	64
10	e220	e110	e82	e60	e42	e36	e40	358	406	146	69	62
11	e200	e110	e82	e60	e44	e36	e42	366	371	141	66	62
12	e190	e110	e80	e55	e40	e36	e44	405	338	132	65	60
13	e180	e110	e80	e55	e44	e34	e46	449	330	129	65	65
14	e165	e90	e75	e55	e42	e34	e50	488	322	127	64	60
15	e160	e65	e75	e55	e38	e34	e50	402	329	134	64	59
16	e150	e50	e75	e50	e32	e34	e50	411	326	132	61	57
17	e140	e46	e70	e50	e34	e34	e55	394	369	130	51	56
18	e140	e34	e70	e50	e38	e34	e60	409	390	127	52	56
19	e130	e46	e70	e50	e40	e30	e65	434	391	122	57	56
20	e130	e65	e70	e52	e44	e30	e70	469	385	115	63	60
21	e120	e95	e70	e50	e42	e34	e70	480	374	117	60	71
22	e120	e85	e70	e50	e42	e36	e75	482	361	114	57	68
23	e110	e82	e65	e50	e42	e36	e80	572	341	109	55	75
24	e110	e85	e60	e46	e40	e34	e85	629	329	106	54	68
25	e120	e80	e60	e46	e38	e34	e90	574	315	103	53	69
26	e120	e65	e55	e48	e36	e30	e95	526	303	100	62	161
27	e110	e70	e55	e48	e38	e30	e110	465	298	100	128	147
28	e110	e75	e65	e46	e36	e30	e130	445	287	110	132	126
29	e110	e80	e70	e46	e36	e32	e150	410	272	101	110	147
30	e100	e85	e70	e42	---	e30	e170	394	248	96	94	488
31	e100	---	e65	e46	---	e26	---	410	---	93	84	---
TOTAL	5328	2558	2279	1640	1181	1032	1950	12838	10773	4317	2261	2720
MEAN	172	85.3	73.5	52.9	40.7	33.3	65.0	414	359	139	72.9	90.7
MAX	394	110	90	60	46	36	170	629	495	236	132	488
MIN	100	34	55	42	32	26	28	180	248	93	51	56
AC-FT	10570	5070	4520	3250	2340	2050	3870	25460	21370	8560	4480	5400

ADJUSTED TO INCLUDE DIVERSION

MEAN	177	90.4	78.6	58.2	46.3	39.3	70.2	420	365	149	79.9	95.4
CFSM	1.98	1.01	0.88	0.65	0.52	0.44	0.78	4.69	4.08	1.66	0.89	1.07
IN	2.28	1.13	1.01	0.75	0.56	0.50	0.87	5.40	4.55	1.92	1.03	1.19
AC-FT	10900	5380	4830	3580	2660	2410	4180	25810	21710	9160	4910	5680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)#

MEAN	153	79.6	49.5	32.5	23.3	17.7	26.1	172	450	301	204	207
MAX	356	199	154	79.4	61.6	50.2	69.7	456	798	645	510	471
(WY)	2003	2003	2003	2003	2003	2003	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	132	72.0	72.9	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1996	1996	2004	1969

See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

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15276000 SHIP CREEK NEAR ANCHORAGE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1947 - 2004#	
ANNUAL TOTAL	47925		48877			
ANNUAL MEAN	131		134		143	
ANNUAL MEAN	*137		*139		*161	
HIGHEST ANNUAL MEAN					223 1980	
LOWEST ANNUAL MEAN					67.3 1969	
HIGHEST DAILY MEAN	480	Jun 14	629	May 24	1420	Aug 9 1971
LOWEST DAILY MEAN	a34	Apr 10	26	Mar 31	b0.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	35	Apr 9	29	Mar 26	0.43	Jan 9 1956
MAXIMUM PEAK FLOW			c750	May 23	1860	Jun 21 1949
MAXIMUM PEAK STAGE			c5.91	May 23	d3.44	Jun 21 1949
MAXIMUM PEAK STAGE					f6.52	Jun 21 1949
MAXIMUM PEAK STAGE					g8.54	Dec 29 2002
ANNUAL RUNOFF (AC-FT)	95060		96950		103800	
ANNUAL RUNOFF (AC-FT)	*99480		*101200		*116600	
ANNUAL RUNOFF (CFMS)	*1.53		*1.55		*1.79	
ANNUAL RUNOFF (IN)	*20.8		*21.2		*24.4	
10 PERCENT EXCEEDS	282		373		368	
50 PERCENT EXCEEDS	101		75		78	
90 PERCENT EXCEEDS	48		36		14	

- # See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
- * Adjusted to account for diversion, see Remarks
- a Apr. 10 and Apr. 11
- b No flow during one or more days in water years 1956, 1960, 1969, and 1971
- c Maximum discharge, 805 ft³/s, Sep. 30, stage rising, peak occurred Oct. 1, 2004; maximum peak discharge, 750 ft³/s, May 23, gage height, 5.91 ft.
- d Site and datum then in use
- f Current site and datum
- g From CSG mark from ice-affected winter breakout event, at current site and datum