

# SOUTH-CENTRAL ALASKA

## 15276000 SHIP CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°13'32", long 149°38'06", in SW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 2005 was 5.50 ft<sup>3</sup>/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 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	650	131	85	e42	e42	32	29	312	519	387	322	190
2	532	e90	85	e43	e39	e30	29	300	502	379	294	181
3	520	e78	75	e47	e35	33	29	316	477	376	266	175
4	503	e72	e37	e51	e36	32	29	351	469	347	245	181
5	449	e68	e25	e57	e37	32	29	324	494	323	225	180
6	394	e74	e42	e65	e38	32	29	316	513	313	209	247
7	348	e84	e55	e72	e36	32	29	335	520	306	195	301
8	313	e91	e65	e68	e31	33	29	372	505	299	183	276
9	288	e105	e46	e72	e34	32	30	430	496	298	174	333
10	264	e113	e42	e57	e38	33	30	489	507	275	165	616
11	233	e111	e45	e58	e37	33	31	521	514	282	158	545
12	212	108	e61	e48	e36	33	31	528	511	268	154	541
13	213	104	e72	e36	e37	35	31	564	493	269	150	492
14	220	101	e64	e47	e36	34	30	621	491	250	145	435
15	208	99	e62	e64	e37	32	32	621	503	238	141	400
16	193	97	e69	e71	e37	32	33	582	533	239	137	383
17	181	95	e72	e62	e36	31	33	544	550	232	135	348
18	171	93	e75	e67	e36	31	33	534	591	217	134	313
19	177	92	e71	e58	36	31	34	550	598	246	154	286
20	169	90	e61	e50	36	31	42	572	543	226	135	270
21	173	88	e59	e56	34	31	49	617	484	214	161	252
22	163	87	e78	e53	34	31	66	621	447	207	167	260
23	166	86	e93	e52	34	31	83	604	413	197	261	327
24	162	85	e60	e57	33	30	90	593	385	188	292	529
25	154	83	e25	e55	33	30	91	587	366	185	263	479
26	159	82	e29	e50	33	30	104	585	358	190	235	429
27	163	84	e63	e40	33	31	120	593	342	181	215	393
28	157	92	e63	e35	32	30	142	584	349	181	198	364
29	154	83	e41	e39	---	29	199	571	345	176	204	333
30	146	81	e36	e45	---	31	275	552	353	179	183	314
31	137	---	e41	e47	---	30	---	531	---	381	189	---
TOTAL	7972	2747	1797	1664	996	978	1841	15620	14171	8049	6089	10373
MEAN	257	91.6	58.0	53.7	35.6	31.5	61.4	504	472	260	196	346
MAX	650	131	93	72	42	35	275	621	598	387	322	616
MIN	137	68	25	35	31	29	29	300	342	176	134	175
AC-FT	15810	5450	3560	3300	1980	1940	3650	30980	28110	15970	12080	20570

### ADJUSTED TO INCLUDE DIVERSION

MEAN	265	96.5	63.2	58.8	40.9	36.5	66.2	509	479	267	201	350
CFSM	2.96	1.08	0.70	0.66	0.46	0.41	0.74	5.68	5.35	2.99	2.25	3.91
IN	3.41	1.20	0.81	0.76	0.48	0.47	0.82	6.55	5.97	3.44	2.59	4.36
AC-FT	16300	5740	3880	3610	2270	2250	3940	31300	28500	16400	12400	20800

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2005, BY WATER YEAR (WY)#

MEAN	154	79.8	49.7	32.8	23.5	17.9	26.7	177	450	300	204	209
MAX	356	199	154	79.4	61.6	50.2	69.7	504	798	645	510	471
(WY)	2003	2003	2003	2003	2003	2003	1990	2005	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 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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1947 - 2005#	
ANNUAL TOTAL	51228		72297			
ANNUAL MEAN	140		198		144	
ANNUAL MEAN	*146		*203		*162	
HIGHEST ANNUAL MEAN					223                      1980	
LOWEST ANNUAL MEAN					67.3                      1969	
HIGHEST DAILY MEAN	650	Oct 1	650	Oct 1	1420	Aug 9 1971
LOWEST DAILY MEAN	25	Dec 5	25	Dec 5	a0.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	29	Mar 26	29	Apr 1	0.43	Jan 9 1956
MAXIMUM PEAK FLOW			1160	Oct 1	1860	Jun 21 1949
MAXIMUM PEAK STAGE			f6.30	Oct 1	b3.44	Jun 21 1949
MAXIMUM PEAK STAGE					c6.52	Jun 21 1949
MAXIMUM PEAK STAGE					d8.54	Dec 29 2002
ANNUAL RUNOFF (AC-FT)	101600		143400		104500	
ANNUAL RUNOFF (AC-FT)	*106000		*147400		*117400	
ANNUAL RUNOFF (CFPM)	*1.63		*2.27		*1.81	
ANNUAL RUNOFF (IN)	*22.2		*30.9		*24.6	
10 PERCENT EXCEEDS	390		513		370	
50 PERCENT EXCEEDS	75		137		78	
90 PERCENT EXCEEDS	36		32		15	

- # See Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted.
- \* Adjusted to account for diversion, see Remarks.
- a No flow during one or more days in water years 1956, 1960, 1969 and 1971.
- b Site and datum then in use.
- c Current site and datum.
- d From crest-stage gage mark from ice-affected winter breakout event, at current site and datum.
- f From crest-stage gage.