

SOUTH-CENTRAL ALASKA

15276320 SHIP CREEK BELOW FISH HATCHERY NEAR ANCHORAGE

LOCATION.--Lat 61°14'36", long 149°43'19", in SW¹/₄ NE¹/₄ SE¹/₄ sec. 1, T. 13 N., R. 3 W. (Anchorage A-8NE quad), Municipality of Anchorage, Hydrologic Unit 19020401, in Fort Richardson Military Reservation, on left bank, 0.5 mi downstream from fish hatchery, 0.8 mi upstream of the Fort Richardson Elmendorf border, 3.3 mi downstream from diversion dam, and 6.0 mi east of intersection of Seward and Glenn Highways in Anchorage.

DRAINAGE AREA.--104.6 mi².

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level, from topographic map.

REMARKS.--Records good 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	76	50	41	33	26	128	411	233	90	96
2	111	104	71	47	40	33	30	153	392	218	86	96
3	288	100	65	52	39	33	30	157	377	206	84	94
4	400	94	78	53	38	33	30	172	386	190	79	92
5	305	96	80	53	38	31	30	204	409	183	83	87
6	302	98	70	52	38	22	32	253	418	172	82	84
7	278	102	71	50	37	27	37	310	463	164	80	83
8	256	111	76	49	38	33	39	357	517	156	78	81
9	252	111	76	52	37	25	36	347	474	144	78	80
10	223	e106	74	52	38	33	37	336	426	139	78	78
11	e200	e105	74	51	40	34	37	346	391	133	75	77
12	e190	e105	71	49	35	33	37	356	360	124	75	76
13	e180	e100	68	47	39	31	38	392	348	119	75	82
14	e165	e85	68	47	38	31	40	418	343	117	73	77
15	e160	e60	67	45	34	31	44	423	360	120	74	75
16	e150	e48	65	44	25	30	49	414	351	117	73	74
17	e140	e42	63	44	28	27	49	396	393	114	63	72
18	e140	e32	63	44	32	29	50	411	422	113	64	71
19	e130	31	58	44	37	21	52	431	418	106	71	71
20	e130	49	63	46	40	26	55	456	411	101	77	75
21	e120	81	63	47	39	29	58	489	393	105	74	87
22	e120	83	63	47	38	33	65	514	357	104	72	84
23	e110	73	60	45	36	33	71	629	345	102	70	92
24	111	78	55	41	35	32	73	620	330	99	68	84
25	123	75	46	39	34	30	75	529	314	96	68	86
26	121	56	43	43	33	28	82	499	305	95	79	170
27	e113	49	43	43	34	28	89	449	299	96	140	170
28	e110	63	51	41	33	27	92	450	284	104	149	149
29	e110	74	60	40	33	28	108	413	268	100	126	163
30	e100	77	64	36	---	26	117	405	244	97	111	423
31	e100	---	63	39	---	21	---	421	---	93	101	---
TOTAL	5347	2388	2008	1432	1047	911	1608	11878	11209	4060	2596	3129
MEAN	172	79.6	64.8	46.2	36.1	29.4	53.6	383	374	131	83.7	104
MAX	400	111	80	53	41	34	117	629	517	233	149	423
MIN	100	31	43	36	25	21	26	128	244	93	63	71
AC-FT	10610	4740	3980	2840	2080	1810	3190	23560	22230	8050	5150	6210
CFSM	1.65	0.76	0.62	0.44	0.35	0.28	0.51	3.66	3.57	1.25	0.80	1.00
IN.	1.90	0.85	0.71	0.51	0.37	0.32	0.57	4.22	3.99	1.44	0.92	1.11

ADJUSTED TO INCLUDE DIVERSION

MEAN	178	84.8	69.8	51.5	41.7	35.4	58.8	389	379	141	90.7	109
CFSM	1.70	0.81	0.67	0.49	0.40	0.34	0.56	3.72	3.63	1.34	0.87	1.04
IN	1.89	0.90	0.77	0.57	0.43	0.39	0.63	4.28	4.04	1.55	1.00	1.20
AC-FT	10920	5040	4290	3170	2400	2170	3500	23900	22600	8650	5580	6490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)#

MEAN	255	134	106	60.3	46.2	39.0	50.5	274	356	164	118	108
MAX	337	188	148	74.4	56.6	48.7	53.6	383	374	196	153	113
(WY)	2003	2003	2003	2003	2003	2003	2004	2004	2004	2003	2003	2003
MIN	172	79.6	64.8	46.2	36.1	29.4	47.5	165	339	131	83.7	104
(WY)	2004	2004	2004	2004	2004	2004	2003	2003	2003	2004	2004	2004

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

e Estimated

SOUTH-CENTRAL ALASKA

15276320 SHIP CREEK BELOW FISH HATCHERY NEAR ANCHORAGE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004#	
ANNUAL TOTAL	46051		47613			
ANNUAL MEAN	126		130		143	
ANNUAL MEAN	*132		*136		*149	
HIGHEST ANNUAL MEAN					156 2003	
LOWEST ANNUAL MEAN					130 2004	
HIGHEST DAILY MEAN	517	Jun 14	629	May 23	680	Dec 28 2002
LOWEST DAILY MEAN	31	Nov 19	a21	Mar 19	a21	Mar 19 2004
ANNUAL SEVEN-DAY MINIMUM	35	Apr 9	26	Mar 26	26	Mar 26 2004
MAXIMUM PEAK FLOW			876	May 23	876	May 23 2004
MAXIMUM PEAK STAGE			5.08	May 23	5.08	May 23 2004
INSTANTANEOUS LOW FLOW			b16	Mar 6	b16	Mar 6 2004
ANNUAL RUNOFF (AC-FT)	91340		94440		103600	
ANNUAL RUNOFF (AC-FT)	*95760		*98700		*108000	
ANNUAL RUNOFF (CFSM)	*1.26		*1.30		*1.42	
ANNUAL RUNOFF (INCHES)	*17.08		*17.65		*19.34	
10 PERCENT EXCEEDS	269		380		345	
50 PERCENT EXCEEDS	100		78		100	
90 PERCENT EXCEEDS	46		33		38	

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

a Mar. 19 and 31

b Mar. 6 and 19

* Adjusted to account for diversion, see Remarks