Water-Data Report 2013

15276000 SHIP CREEK NEAR ANCHORAGE, AK

Knik Arm Basin
Anchorage Subbasin

LOCATION.--Lat 61°13′32″, long 149°38′06″ referenced to North American Datum of 1927, in SE ¼ SW ¼ SE ¼ sec.9, T.13 N., R.2 W., Municipality of Anchorage, AK, Hydrologic Unit 19020401, (Anchorage A-8 quad), 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 Seward and Glenn Highways in Anchorage.

DRAINAGE AREA.--89.5 mi^2.

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WSP 1936: Drainage area. WDR AK-2001-1: 1987-1997.

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.

COOPERATION.--Records of diversion provided by Doyon Utilities, LLC., and Anchorage Water and Wastewater Utility (AWWU).

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge data represent the net flow after diversion for water supply to Joint Base Elmendorf-Richardson and Municipality of Anchorage. Diversion began in 1944. Magnitude of discharges downstream of dam may be affected by periodic spillway adjustment. Average daily mean diversion for the 2013 water year was 3.75 cfs.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 15276000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/15276000.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	574	159	e68	e55	e32	e28	e22	27	796	416	142	330
2	524	168	e68	e55	e32	e26	e22	28	769	386	136	397
3	508	157	e66	e55	e32	e26	e22	35	746	344	132	557
4	545	147	e66	e55	e33	e26	e20	36	668	349	130	577
5	578	141	e64	e55	e34	e26	e20	36	628	319	128	531
6	913	133	e64	e55	e34	e26	e20	39	627	304	122	498
7	879	e130	e62	e53	e35	e26	e20	39	664	292	121	469
8	802	e130	e62	e53	e35	e26	e20	45	751	287	119	556
9	741	e125	e60	e52	e35	e26	e20	48	850	284	122	512
10	675	e125	e60	e50	e35	e26	e20	56	930	259	140	498
11	616	e120	e58	e50	e35	e26	e20	87	979	246	152	586
12	562	e115	e58	e52	e35	e24	e20	110	916	237	157	555
13	507	e110	e56	e60	e34	e24	e20	158	857	230	142	522
14	472	109	e56	e62	e34	e24	e20	108	810	228	131	491
15	446	105	e54	e62	e34	e24	e20	76	817	222	125	452
16	410	96	e54	e58	e33	e24	e20	66	829	215	123	418
17	363	e95	e52	e54	e33	e24	e21	65	885	207	119	400
18	324	e93	e52	e49	e32	e24	e21	56	930	201	148	393
19	296	e91	e50	e44	e32	e24	e21	51	861	196	149	401
20	286	e89	e50	e40	e32	e24	e22	58	780	202	157	361
21	256	e87	e48	e36	e30	e24	e22	66	698	191	159	341
22	e250	e85	e48	e36	e30	e22	e23	82	635	179	218	331
23	e240	e83	e48	e36	e30	e22	e23	107	580	171	263	312
24	e230	e81	e48	e36	e30	e22	e24	143	549	167	265	291
25	e220	e79	e48	e36	e30	e22	e24	186	547	167	232	549
26	e210	e77	e48	e32	e28	e22	e25	203	548	166	204	566
27	e200	e75	e48	e32	e28	e22	e25	277	549	163	188	550
28	e190	e73	e48	e32	e28	e22	e26	440	523	157	299	522
29	e180	e71	e48	e32	---	e22	e26	619	476	152	411	491
30	e175	e69	e52	e32	---	e22	e27	784	428	148	394	448
31	173	---	e55	e32	---	e22	---	813	---	146	357	---
Total	13,345	3,218	1,719	1,441	905	748	656	4,944	21,626	7,231	5,685	13,905
Mean	430	107	55.5	46.5	32.3	24.1	21.9	159	721	233	183	464
Max	913	168	68	62	35	28	27	813	979	416	411	586
Min	173	69	48	32	28	22	20	27	428	146	119	291
Ac-ft	26,470	6,380	3,410	2,860	1,800	1,480	1,300	9,810	42,900	14,340	11,280	27,580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2013, BY WATER YEAR (WY)#

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	159	81.0	51.1	34.4	24.8	19.1	27.7	181	452	295	205	217
Max	430	199	154	79.4	61.6	50.2	69.7	504	798	645	510	655
(WY)	(2013)	(2003)	(2003)	(2003)	(2003)	(2003)	(1990)	(2005)	(1977)	(1980)	(1981)	(2012)
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)

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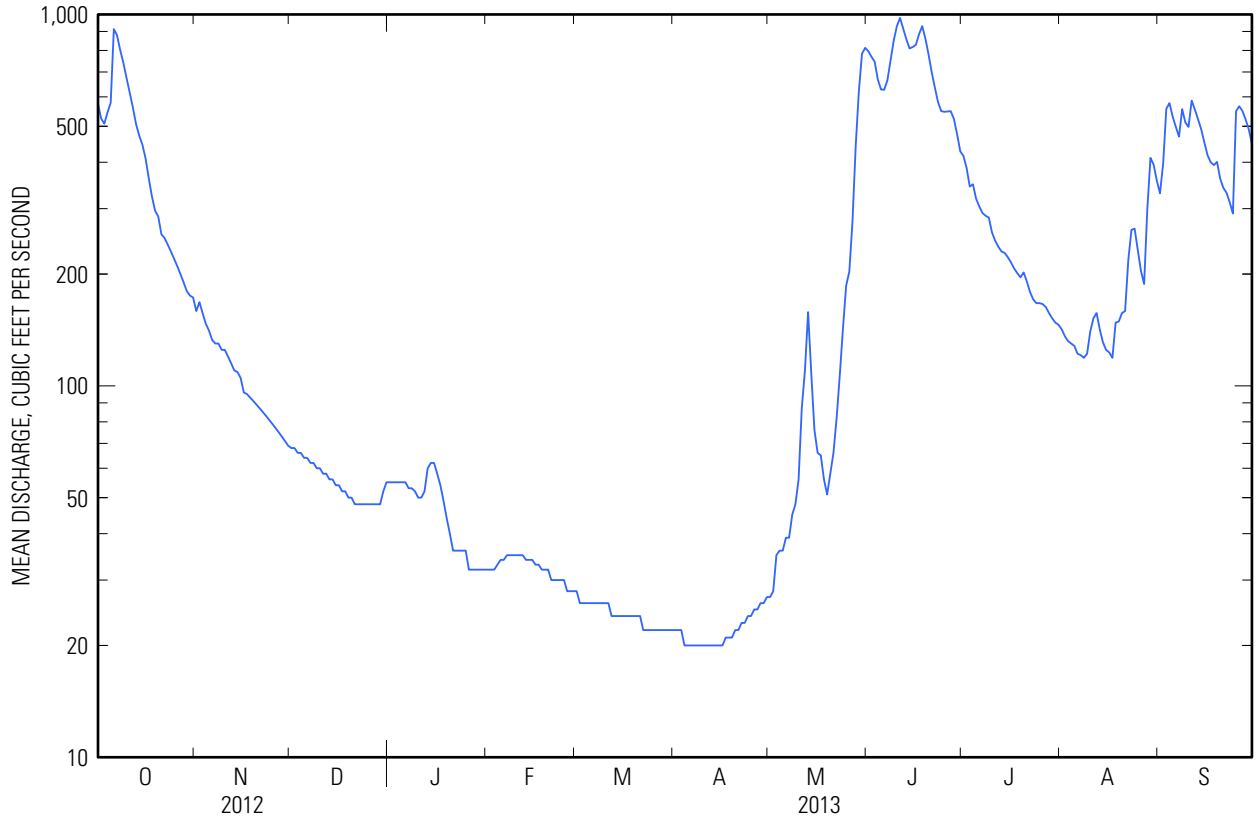
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1947 - 2013#	
Annual total	89,251		75,423			
Annual mean	244		207		146	
Highest annual mean					223	1980
Lowest annual mean					67.3	1969
Highest daily mean	2,090	Sep 23	979	Jun 11	2,090	Sep 23, 2012
Lowest daily mean	26	Mar 19	20	Apr 4	0.00	Jan 2, 1956
Annual seven-day minimum	26	Mar 19	20	Apr 4	0.43	Jan 9, 1956
Maximum peak flow			1,160	Jun 10	2,430	Sep 23, 2012
Maximum peak stage			6.38	Jun 10	7.13	Sep 23, 2012
Maximum peak stage					[a] 12.36	Nov 11, 2011
Instantaneous low flow					0.00	Jan 2, 1956
Annual runoff (ac-ft)	177,000		149,600		105,800	
Annual runoff (ac-ft)	*178,600		*152,300		*117,200	
Annual runoff (cfsm)	*2.75		*2.35		*1.81	
Annual runoff (in)	*37.0		*31.6		*24.6	
10 percent exceeds	616		569		372	
50 percent exceeds	122		93		80	
90 percent exceeds	32		24		16	

See Remarks, values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
[a] Backwater from ice