

Water-Data Report 2012

15803000 MEADE RIVER AT ATKASUK, AK

Barrow Basin
Meade River Subbasin

LOCATION.--Lat 70°29'45", long 157°23'33" referenced to North American Datum of 1927, in SE ¼ SW ¼ NE ¼ sec.7, T.13 N., R.21 W., North Slope Borough, AK, Hydrologic Unit 19060203, (Meade River B-3 quad), on left bank, 1 mile downstream of Atqasuk, 1.7 miles upstream from mouth of Usuktuk Creek, and 60 miles south of Barrow.

DRAINAGE AREA.--1,783 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June to September 1977 and September 2005 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 25 ft above sea level, from topographic map.

REMARKS.--Records are fair except for estimated daily discharges, which are poor. Winter records may contain periods of ponded water beneath ice cover within the gage pool but with no discernible flow. GOES satellite telemetry at station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e500	e12	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e15,000	243	52	560
2	e400	e12	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e19,000	225	52	1,040
3	e280	e10	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	18,600	210	53	5,120
4	e240	e9.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	15,400	193	53	4,980
5	e260	e8.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	12,100	180	54	4,150
6	e200	e7.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	9,810	162	55	5,250
7	e160	e6.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	7,780	148	52	5,840
8	e130	e5.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	5,820	139	49	4,520
9	e110	e5.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	4,300	136	50	3,290
10	e90	e4.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	3,330	192	52	2,570
11	e80	e4.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2,710	191	54	2,040
12	e70	e3.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2,310	169	53	1,670
13	e64	e3.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2,210	143	90	1,380
14	e60	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,950	127	157	1,180
15	e56	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,570	113	152	1,030
16	e52	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,350	98	136	933
17	e48	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e1.0	1,170	88	116	863
18	e46	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e2.0	1,010	84	107	808
19	e42	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e3.0	901	81	96	780
20	e38	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e5.0	795	73	89	1,180
21	e36	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e10	716	69	251	1,790
22	e32	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e30	642	67	391	1,660
23	e30	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e100	558	65	409	1,500
24	e28	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e400	505	61	406	1,500
25	e26	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e800	457	60	390	1,610
26	e24	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1,500	409	58	495	2,640
27	e22	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e2,000	363	55	645	2,530
28	e20	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e3,000	331	54	611	2,020
29	e18	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e5,000	301	52	580	1,610
30	e16	e0.00	e0.00	e0.00	---	e0.00	e0.00	e7,000	268	52	573	1,310
31	e14	---	e0.00	e0.00	---	e0.00	---	e9,000	---	51	572	---
Total	3,192	97.00	0.00	0.00	0.00	0.00	0.00	28,851.00	131,666	3,639	6,895	67,354
Mean	103	3.23	0.00	0.00	0.00	0.00	0.00	931	4,389	117	222	2,245
Max	500	12	0.00	0.00	0.00	0.00	0.00	9,000	19,000	243	645	5,840
Min	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	268	51	49	560
Ac-ft	6,330	192	0.00	0.00	0.00	0.00	0.00	57,230	261,200	7,220	13,680	133,600
Cfsm	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.52	2.46	0.07	0.12	1.26
In.	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.60	2.75	0.08	0.14	1.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2012, BY WATER YEAR (WY)#

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	85.0	4.08	0.00	0.00	0.00	0.00	0.00	1,511	4,012	497	756	632
Max	260	10.6	0.00	0.00	0.00	0.00	0.00	4,226	6,245	2,355	4,067	2,245
(WY)	(2007)	(2007)	(2006)	(2006)	(2006)	(2006)	(2006)	(2009)	(2007)	(2006)	(2006)	(2012)
Min	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.06	2,632	65.3	128	59.9
(WY)	(2009)	(2008)	(2006)	(2006)	(2006)	(2006)	(2006)	(2010)	(1977)	(1977)	(2007)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1977 - 2012 [#]	
Annual total	231,078.00		241,694.00			
Annual mean	633		660		664	
Highest annual mean					1,045	2006
Lowest annual mean					344	2010
Highest daily mean	27,800	May 31	19,000	Jun 2	41,600	Jun 6, 2007
Lowest daily mean	0.00	Jan 1	0.00	Nov 21	0.00	Jun 1, 1977
Annual seven-day minimum	0.00	Jan 1	0.00	Nov 21	0.00	Nov 3, 2005
Maximum peak flow			22,300	Jun 2	43,200	Jun 6, 2007
Maximum peak stage			28.92	Jun 2	32.19	Jun 6, 2007
Maximum peak stage			^a 30.88	May 27	^a 33.80	May 29, 2011
Annual runoff (ac-ft)	458,300		479,400		481,400	
Annual runoff (cfsm)	0.355		0.370		0.373	
Annual runoff (inches)	4.82		5.04		5.06	
10 percent exceeds	1,180		1,580		1,310	
50 percent exceeds	0.00		1.0		0.00	
90 percent exceeds	0.00		0.00		0.00	

[#] See Period of Record; partial years used in monthly statistics

^a Backwater from snow and ice

