

Water-Data Report 2011

**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 mi<sup>2</sup>.

**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.

## 15803000 MEADE RIVER AT ATKASUK, AK—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e90	e9.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	20,700	1,910	131	219
2	e85	e8.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	17,700	1,320	124	206
3	e75	e8.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	12,700	929	122	197
4	e65	e8.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	7,200	715	119	188
5	e60	e7.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	4,940	575	113	228
6	e55	e7.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	4,250	493	107	440
7	e45	e7.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	4,580	440	99	500
8	e40	e6.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	4,330	388	96	539
9	e35	e6.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	3,640	359	202	594
10	e30	e6.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	3,010	342	697	754
11	e28	e5.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2,140	317	577	823
12	e25	e5.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,540	284	458	788
13	e22	e5.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,240	250	393	953
14	e20	e4.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,170	235	338	1,420
15	e18	e4.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,120	220	309	1,270
16	e16	e4.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	973	211	2,080	1,010
17	e15	e3.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	880	218	2,200	866
18	e14	e3.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,030	260	1,540	798
19	e14	e3.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,260	316	1,150	854
20	e13	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,300	356	895	917
21	e13	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,390	334	728	1,160
22	e13	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,240	300	609	1,760
23	e12	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1,070	283	518	2,000
24	e12	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	882	261	443	2,420
25	e12	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	732	228	388	2,890
26	e11	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e10	622	202	347	2,690
27	e11	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e100	573	179	324	2,020
28	e11	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e1,200	588	162	294	1,510
29	e10	e1.0	e0.00	e0.00	---	e0.00	e0.00	e11,000	588	157	272	1,130
30	e10	e1.0	e0.00	e0.00	---	e0.00	e0.00	e22,000	1,670	148	251	787
31	e9.0	---	e0.00	e0.00	---	e0.00	---	27,800	---	141	233	---
<b>Total</b>	889.0	123.0	0.00	0.00	0.00	0.00	0.00	62,110.00	105,058	12,533	16,157	31,931
<b>Mean</b>	28.7	4.10	0.00	0.00	0.00	0.00	0.00	2,004	3,502	404	521	1,064
<b>Max</b>	90	9.0	0.00	0.00	0.00	0.00	0.00	27,800	20,700	1,910	2,200	2,890
<b>Min</b>	9.0	1.0	0.00	0.00	0.00	0.00	0.00	0.00	573	141	96	188
<b>Ac-ft</b>	1,760	244	0.00	0.00	0.00	0.00	0.00	123,200	208,400	24,860	32,050	63,340
<b>Cfsm</b>	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.96	0.23	0.29	0.60
<b>In.</b>	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.30	2.19	0.26	0.34	0.67

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2011, BY WATER YEAR (WY)#

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	82.0	4.22	0.00	0.00	0.00	0.00	0.00	1,607	3,958	552	832	431
<b>Max</b>	260	10.6	0.00	0.00	0.00	0.00	0.00	4,226	6,245	2,355	4,067	1,064
<b>(WY)</b>	(2007)	(2007)	(2006)	(2006)	(2006)	(2006)	(2006)	(2009)	(2007)	(2006)	(2006)	(2011)
<b>Min</b>	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.06	2,632	65.3	128	59.9
<b>(WY)</b>	(2009)	(2008)	(2006)	(2006)	(2006)	(2006)	(2006)	(2010)	(1977)	(1977)	(2007)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1977 - 2011 <sup>#</sup>	
<b>Annual total</b>	122,008.00		228,801.00			
<b>Annual mean</b>	334		627		665	
<b>Highest annual mean</b>					1,045	2006
<b>Lowest annual mean</b>					344	2010
<b>Highest daily mean</b>	20,000	Jun 9	27,800	May 31	41,600	Jun 6, 2007
<b>Lowest daily mean</b>	0.00	Jan 1	0.00	Dec 1	0.00	Jun 1, 1977
<b>Annual seven-day minimum</b>	0.00	Jan 1	0.00	Dec 1	0.00	Nov 3, 2005
<b>Maximum peak flow</b>			34,400	May 30	43,200	Jun 6, 2007
<b>Maximum peak stage</b>			30.71	May 30	32.19	Jun 6, 2007
<b>Maximum peak stage</b>			<sup>a</sup> 33.80	May 29	<sup>a</sup> 33.80	May 29, 2011
<b>Annual runoff (ac-ft)</b>	242,000		453,800		481,900	
<b>Annual runoff (cfsm)</b>	0.187		0.352		0.373	
<b>Annual runoff (inches)</b>	2.55		4.77		5.07	
<b>10 percent exceeds</b>	476		1,180		1,260	
<b>50 percent exceeds</b>	1.0		1.0		0.00	
<b>90 percent exceeds</b>	0.00		0.00		0.00	

<sup>#</sup> See Period of Record; partial years used in monthly statistics

<sup>a</sup> Backwater from snow and ice

