



Water-Data Report 2009

02053500 AHOSKIE CREEK AT AHOSKIE, NC

Albemarle-Chowan Basin
Chowan Subbasin

LOCATION.--Lat 36°16'49", long 76°59'58" referenced to North American Datum of 1983, Hertford County, NC, Hydrologic Unit 03010203, on right bank 10 ft downstream of bridge on North Carolina Highway 11-42, 0.5 mi upstream from Seaboard Coast Line Railroad bridge, and 0.8 mi southwest of Ahoskie.

DRAINAGE AREA.--63.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1950 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 17.46 ft above National Geodetic Vertical Datum of 1929. Prior to January 4, 1963, at present site, datum of 21.46 ft. Nonrecording gage, January 20, 1950 to May 24, 1951, at present site, datum of 21.46 ft. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Entire basin above station canalized since July 1964. Minimum discharge since canalization also occurred October 9, 1988. Prior to canalization, no flow occurred periodically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1940 reached a stage of 15.1 ft, present datum, from floodmark witnessed by local resident; discharge not determined.

Water-Data Report 2009

02053500 AHOSKIE CREEK AT AHOSKIE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.0	2.8	19	9.2	13	169	89	9.0	e8.4	2.6	3.5	4.8
2	2.8	2.8	12	8.8	11	551	66	9.0	e7.0	2.4	3.7	3.9
3	2.8	2.7	7.9	8.4	11	169	54	8.6	7.4	2.1	4.1	3.6
4	2.8	4.1	6.7	8.1	11	85	42	8.5	8.1	1.9	4.1	3.5
5	2.7	4.0	5.8	7.9	10	56	33	8.7	20	2.2	3.8	3.4
6	2.7	2.9	5.2	34	9.5	42	69	12	23	54	5.6	3.3
7	2.6	2.7	5.3	51	9.1	34	158	15	13	17	3.7	11
8	2.5	2.7	5.1	28	9.1	29	73	17	9.4	4.7	3.6	14
9	2.5	2.8	5.2	18	8.6	24	50	11	32	3.0	3.2	8.1
10	2.5	3.1	5.3	14	8.6	20	38	8.6	122	2.4	2.9	5.7
11	2.5	3.2	41	13	8.8	18	37	8.1	28	2.2	2.7	4.3
12	2.4	3.2	153	12	8.7	16	32	7.6	15	2.2	6.0	3.9
13	2.3	20	39	12	8.3	24	26	7.3	10	2.5	59	3.7
14	2.3	29	20	14	8.4	141	24	7.3	8.5	3.7	28	3.6
15	2.3	56	14	13	8.6	219	28	7.3	7.7	2.6	17	3.5
16	2.3	31	11	12	8.4	289	26	8.4	6.6	2.2	6.4	12
17	2.3	12	9.9	10	8.2	327	21	14	5.8	2.2	5.3	55
18	4.5	7.5	9.1	11	10	193	18	26	5.2	2.3	4.3	19
19	2.8	5.8	8.6	19	12	108	16	14	5.7	1.8	3.8	7.0
20	2.8	5.5	8.1	18	11	198	16	10	5.4	17	3.7	4.6
21	2.6	5.3	15	14	9.7	127	16	8.9	5.5	138	3.6	4.1
22	2.5	4.7	21	12	9.3	77	15	8.3	5.4	28	9.0	3.6
23	2.5	5.0	12	11	8.8	57	13	8.0	4.8	12	37	4.2
24	2.5	4.8	10	11	8.6	45	12	8.1	4.6	11	11	5.7
25	2.7	5.9	9.8	9.9	8.4	37	12	21	4.7	10	8.5	4.4
26	2.7	5.4	9.8	e9.4	8.5	33	11	11	4.3	6.7	5.2	3.9
27	3.5	5.2	9.1	e9.1	8.6	41	10	8.6	3.6	5.3	4.2	6.4
28	3.2	5.0	8.6	11	14	331	9.8	e9.7	3.1	4.8	3.8	11
29	2.7	4.8	13	27	---	708	9.4	e13	3.1	4.5	3.7	26
30	2.7	8.2	17	20	---	393	9.2	e9.5	2.9	4.0	3.6	12
31	2.6	---	12	15	---	152	---	e5.5	---	3.7	4.1	---
Total	83.6	258.1	528.5	470.8	269.2	4,713	1,033.4	329.0	390.2	359.0	268.1	259.2
Mean	2.70	8.60	17.0	15.2	9.61	152	34.4	10.6	13.0	11.6	8.65	8.64
Max	4.5	56	153	51	14	708	158	26	122	138	59	55
Min	2.3	2.7	5.1	7.9	8.2	16	9.2	5.5	2.9	1.8	2.7	3.3
Cfsm	0.04	0.14	0.27	0.24	0.15	2.40	0.54	0.17	0.21	0.18	0.14	0.14
In.	0.05	0.15	0.31	0.28	0.16	2.77	0.61	0.19	0.23	0.21	0.16	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2009^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	38.7	28.1	48.8	93.9	115	117	71.0	42.9	44.7	30.1	45.2	50.0
Max	297	266	177	260	343	303	243	238	322	126	381	894
(WY)	(1972)	(2007)	(1990)	(1979)	(1998)	(1989)	(1983)	(1979)	(2001)	(1975)	(1992)	(1999)
Min	2.70	3.21	3.10	7.66	9.61	13.3	8.73	4.21	5.43	3.55	3.22	3.18
(WY)	(2009)	(1982)	(1995)	(1981)	(2009)	(2006)	(1985)	(1986)	(1986)	(1987)	(2008)	(2007)

02053500 AHOSKIE CREEK AT AHOSKIE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1964 - 2009 ^a	
Annual total	10,810.4		8,962.1			
Annual mean	29.5		24.6		60.1	
Highest annual mean					114	2003
Lowest annual mean					14.7	1981
Highest daily mean	533	Mar 8	708	Mar 29	7,710	Sep 17, 1999
Lowest daily mean	2.3	Oct 13	1.8	Jul 19	0.61	Oct 8, 1988
Annual seven-day minimum	2.3	Oct 11	2.3	Oct 11	0.85	Sep 27, 1988
Maximum peak flow			779	Mar 29	8,570	Sep 17, 1999
Maximum peak stage			7.88	Mar 29	17.32	Sep 17, 1999
Instantaneous low flow			1.4	Jul 19	^b 0.45	Oct 8, 1988
Annual runoff (cfsm)	0.467		0.388		0.950	
Annual runoff (inches)	6.35		5.27		12.91	
10 percent exceeds	75		42		129	
50 percent exceeds	9.1		8.6		17	
90 percent exceeds	2.7		2.7		4.1	

^a Canalized period only (1964-2009). See Remarks.^b See Remarks.