

Water-Data Report 2008

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 NGVD 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 station.

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e1.8	7.3	5.4	32	14	39	19	86	8.0	4.3	6.5	4.1
2	e1.7	6.3	4.7	24	38	33	18	55	11	3.5	5.3	2.8
3	e1.7	6.5	4.4	18	25	29	17	39	8.5	3.1	4.0	2.5
4	e1.6	6.2	3.7	15	19	27	39	31	7.4	2.8	3.5	2.4
5	e1.5	6.0	4.8	14	16	189	76	25	6.7	17	3.2	6.1
6	e1.5	5.4	3.7	13	15	107	212	21	6.0	68	2.9	13
7	e1.7	4.8	3.8	12	13	199	125	18	5.1	85	2.8	17
8	e1.8	4.7	3.5	11	12	533	81	16	5.2	27	3.0	6.5
9	e1.9	4.9	3.8	11	11	311	60	238	5.6	20	3.1	3.8
10	e2.0	4.9	3.4	10	10	141	49	167	5.3	37	3.0	3.9
11	e2.1	4.5	3.4	11	9.0	89	40	75	5.0	18	2.7	3.0
12	e2.1	4.2	3.5	11	9.3	66	35	224	4.9	9.5	2.6	2.9
13	e2.2	4.2	3.9	9.9	99	51	44	102	4.7	7.2	2.7	2.9
14	e2.3	4.4	3.3	9.7	170	42	35	56	4.5	6.3	2.7	2.8
15	e2.2	5.3	4.1	9.0	76	37	29	38	4.0	5.9	2.4	2.7
16	e2.2	5.2	86	8.4	50	53	24	32	4.4	5.4	2.4	3.8
17	e2.2	5.5	25	9.4	37	51	21	31	6.0	5.0	2.4	2.7
18	e2.2	5.9	9.9	11	200	40	18	25	5.3	4.2	2.8	2.6
19	e2.4	5.6	6.9	13	158	36	16	26	4.5	4.2	2.5	2.5
20	e2.5	5.2	5.6	27	90	33	23	25	4.8	4.4	2.6	2.5
21	e2.4	5.6	4.8	21	54	29	373	38	4.0	3.9	2.7	2.5
22	e2.3	5.5	4.3	15	87	25	229	25	3.8	3.9	2.9	2.5
23	e2.2	5.2	4.1	18	283	22	243	18	e3.2	3.9	3.1	2.5
24	e3.0	6.2	3.8	20	265	20	114	14	3.3	4.0	3.1	2.4
25	108	5.5	3.4	16	113	18	69	12	3.1	4.2	3.8	2.9
26	62	5.5	88	14	79	17	48	11	2.9	3.8	2.9	5.1
27	81	5.3	125	13	80	16	36	9.9	2.8	3.3	2.7	6.1
28	39	5.1	44	12	59	16	40	9.9	13	3.1	3.6	6.0
29	18	5.1	30	11	46	15	448	10	7.0	3.9	4.1	3.8
30	12	5.4	29	11	---	16	192	9.0	5.1	5.5	3.8	3.1
31	9.0	---	45	9.7	---	18	---	8.3	---	7.0	4.1	---
Total	378.5	161.4	574.2	440.1	2,137.3	2,318	2,773	1,495.1	165.1	384.3	99.9	127.4
Mean	12.2	5.38	18.5	14.2	73.7	74.8	92.4	48.2	5.50	12.4	3.22	4.25
Max	108	7.3	125	32	283	533	448	238	13	85	6.5	17
Min	1.5	4.2	3.3	8.4	9.0	15	16	8.3	2.8	2.8	2.4	2.4
Cfs/m	0.19	0.08	0.29	0.22	1.16	1.18	1.46	0.76	0.09	0.20	0.05	0.07
In.	0.22	0.09	0.34	0.26	1.26	1.36	1.63	0.88	0.10	0.23	0.06	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	39.5	28.5	49.5	95.6	117	116	71.8	43.6	45.4	30.5	46.1	50.9
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	2.84	3.21	3.10	7.66	18.9	13.3	8.73	4.21	5.43	3.55	3.22	3.18
(WY)	(2002)	(1982)	(1995)	(1981)	(1968)	(2006)	(1985)	(1986)	(1986)	(1987)	(2008)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1964 - 2008 ^a	
Annual total	12,918.7		11,054.3			
Annual mean	35.4		30.2		60.9	
Highest annual mean					114	2003
Lowest annual mean					14.7	1981
Highest daily mean	566	Mar 17	533	Mar 8	7,710	Sep 17, 1999
Lowest daily mean	1.5	Oct 5	1.5	Oct 5	0.61	Oct 8, 1988
Annual seven-day minimum	1.6	Oct 1	1.6	Oct 1	0.85	Sep 27, 1988
Maximum peak flow			593	Mar 8	8,570	Sep 17, 1999
Maximum peak stage			6.87	Mar 8	17.32	Sep 17, 1999
Instantaneous low flow			NOT DETERMINED		^b 0.45	Oct 8, 1988
Annual runoff (cfs)	0.559		0.477		0.963	
Annual runoff (inches)	7.59		6.50		13.08	
10 percent exceeds	80		80		130	
50 percent exceeds	10		7.4		17	
90 percent exceeds	2.6		2.6		4.2	

^aCanalized period only (1964-2008). See Remarks.^bSee Remarks.