

Water-Data Report 2007

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 (Soil Conservation Service bench mark). 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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	20	52	59	70	38	76	23	11	9.2	4.9	16	6.8
2	17	40	52	67	57	99	22	11	9.7	4.2	12	6.5
3	16	32	47	59	61	104	21	10	32	4.1	8.8	6.0
4	15	27	51	52	50	70	22	11	66	4.4	5.9	5.0
5	14	24	51	48	41	54	20	11	22	4.9	26	4.0
6	30	22	45	424	35	44	19	13	22	4.2	135	3.7
7	358	37	42	344	33	37	19	11	17	4.6	18	e3.8
8	218	328	37	486	30	33	18	10	12	5.1	10	e3.5
9	111	211	34	437	27	30	18	10	11	5.8	7.8	e3.4
10	68	113	32	233	25	27	18	11	9.6	21	12	e3.4
11	46	76	30	139	23	25	19	10	9.1	76	130	e3.3
12	35	374	29	98	22	23	20	11	8.0	26	50	e3.1
13	27	1,040	28	80	22	22	19	54	10	16	21	e3.0
14	22	930	27	68	190	21	18	25	10	9.2	13	e2.5
15	19	416	26	60	148	20	53	16	8.2	7.1	9.4	e2.8
16	17	282	25	54	93	133	134	13	7.5	6.1	8.0	e2.7
17	17	409	23	49	69	566	74	18	7.5	6.0	151	e2.4
18	38	227	23	48	58	262	49	18	7.1	5.9	54	e2.2
19	38	144	22	62	47	141	34	15	6.1	5.5	19	e2.2
20	29	103	21	60	42	91	26	13	5.7	6.3	12	e2.2
21	23	83	20	52	38	67	21	12	5.7	6.0	9.8	e2.4
22	19	694	21	549	e47	55	18	11	5.7	5.9	10	e2.8
23	18	959	55	394	e55	47	16	11	6.5	7.2	8.4	e2.7
24	18	562	57	217	e60	40	15	10	6.2	7.3	7.4	e2.4
25	15	275	248	137	e86	36	14	9.7	5.8	5.8	6.6	e2.2
26	14	166	901	94	e305	32	13	10	5.5	4.8	6.4	e2.1
27	16	115	557	73	178	28	13	10	5.3	5.5	6.2	e2.2
28	472	89	251	62	107	26	13	10	4.8	6.9	5.8	e2.2
29	262	76	148	55	---	27	12	10	4.5	33	5.7	e2.1
30	113	65	105	47	---	27	11	10	4.3	90	5.7	e1.9
31	71	---	84	41	---	25	---	9.4	---	27	6.4	---
Total	2,196	7,971	3,151	4,659	1,987	2,288	792	415.1	344.0	426.7	797.3	95.5
Mean	70.8	266	102	150	71.0	73.8	26.4	13.4	11.5	13.8	25.7	3.18
Max	472	1,040	901	549	305	566	134	54	66	90	151	6.8
Min	14	22	20	41	22	20	11	9.4	4.3	4.1	5.7	1.9
Cfsm	1.12	4.20	1.61	2.37	1.12	1.17	0.42	0.21	0.18	0.22	0.41	0.05
In.	1.29	4.68	1.85	2.74	1.17	1.34	0.47	0.24	0.20	0.25	0.47	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2007^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	40.2	29.1	50.2	97.5	118	117	71.4	43.5	46.3	30.9	47.0	52.0
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	2.84	3.21	3.10	7.66	18.9	13.3	8.73	4.21	5.43	3.55	3.59	3.18
(WY)	(2002)	(1982)	(1995)	(1981)	(1968)	(2006)	(1985)	(1986)	(1986)	(1987)	(1983)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1964 - 2007 ^a	
Annual total	36,605.6		25,122.6			
Annual mean	100		68.8		61.6	
Highest annual mean					114	2003
Lowest annual mean					14.7	1981
Highest daily mean	1,600	Jun 16	1,040	Nov 13	7,710	Sep 17, 1999
Lowest daily mean	5.1	Jul 4	1.9	Sep 30	0.61	Oct 8, 1988
Annual seven-day minimum	5.5	Aug 23	2.2	Sep 24	0.85	Sep 27, 1988
Maximum peak flow			1,090	Nov 12	8,570	Sep 17, 1999
Maximum peak stage			9.33	Nov 12	17.32	Sep 17, 1999
Instantaneous low flow			NOT DETERMINED		0.45	Oct 8, 1988
Annual runoff (cfsm)	1.58		1.09		0.974	
Annual runoff (inches)	21.51		14.76		13.23	
10 percent exceeds	250		149		132	
50 percent exceeds	27		22		18	
90 percent exceeds	11		4.9		4.3	

^a Canalized period only (1964-2007). See Remarks.

^b See Remarks.

