

Water-Data Report 2010

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.--No estimated daily discharges. Records fair. Entire basin above station canalized since July 1964. 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 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.3	7.4	15	116	69	36	207	8.8	11	5.2	5.0	0.71
2	4.7	13	24	91	74	38	113	8.5	9.9	5.0	4.5	0.88
3	4.2	11	135	66	285	282	75	8.3	9.1	5.2	4.2	1.6
4	3.8	7.2	63	50	311	262	56	8.7	8.3	5.1	4.5	1.2
5	3.6	5.9	215	40	264	151	43	8.1	7.7	4.5	11	1.0
6	3.5	5.3	203	34	958	98	35	7.9	7.4	4.2	19	1.4
7	3.4	5.6	95	30	990	72	29	7.8	8.7	3.8	9.8	1.4
8	3.0	5.9	63	28	590	57	25	7.1	7.9	3.4	5.3	1.3
9	3.1	6.2	643	26	232	47	24	6.3	6.4	3.7	4.2	1.1
10	3.1	7.7	823	23	243	40	22	6.2	6.1	5.6	3.5	0.93
11	3.1	108	453	21	167	38	19	6.7	5.7	5.0	4.9	0.93
12	3.1	773	170	20	117	63	17	7.0	5.4	5.0	22	1.9
13	3.2	907	107	19	97	104	16	31	7.9	4.4	11	1.8
14	3.2	710	101	18	86	87	15	14	6.7	4.3	17	1.9
15	4.2	204	82	17	81	79	14	9.5	5.3	4.0	4.5	1.9
16	4.3	96	65	16	74	62	14	20	84	3.6	3.3	1.9
17	4.3	59	50	56	63	49	14	22	260	3.4	3.0	2.2
18	3.9	42	41	156	54	41	12	440	52	3.4	2.9	2.0
19	3.9	33	239	96	47	35	11	278	26	3.2	2.2	2.0
20	3.6	31	260	69	42	30	11	107	17	3.1	1.7	2.0
21	3.5	28	137	54	37	27	12	55	13	3.0	1.6	2.2
22	3.6	24	92	306	38	25	12	33	10	3.1	2.4	2.3
23	3.6	24	68	330	55	23	11	26	9.1	3.3	1.7	2.6
24	3.6	24	53	180	50	22	11	41	8.3	3.1	1.5	3.2
25	3.3	22	59	393	68	20	11	83	7.6	3.0	1.2	3.4
26	3.6	20	240	526	61	21	11	41	7.0	3.0	0.85	8.8
27	4.4	19	151	239	48	21	10	28	6.3	3.1	0.70	81
28	4.4	18	102	140	41	19	10	41	5.5	3.2	0.63	236
29	4.8	16	72	97	---	677	9.4	23	5.2	3.9	0.59	558
30	4.9	15	52	78	---	933	9.0	17	5.2	4.3	0.62	2,850
31	5.4	---	77	73	---	633	---	13	---	4.1	0.65	---
Total	120.6	3,248.2	4,950	3,408	5,242	4,092	878.4	1,413.9	629.7	122.2	155.94	3,777.55
Mean	3.89	108	160	110	187	132	29.3	45.6	21.0	3.94	5.03	126
Max	6.3	907	823	526	990	933	207	440	260	5.6	22	2,850
Min	3.0	5.3	15	16	37	19	9.0	6.2	5.2	3.0	0.59	0.71
Cfsm	0.06	1.71	2.52	1.74	2.96	2.09	0.46	0.72	0.33	0.06	0.08	1.99
In.	0.07	1.91	2.91	2.00	3.08	2.40	0.52	0.83	0.37	0.07	0.09	2.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2010 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	38.0	29.8	51.1	94.2	116	117	70.1	42.9	44.2	29.5	44.4	51.6
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)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1964 - 2010 ^a	
Annual total	16,410.7		28,038.49			
Annual mean	45.0		76.8		60.5	
Highest annual mean					114	2003
Lowest annual mean					14.7	1981
Highest daily mean	907	Nov 13	2,850	Sep 30	7,710	Sep 17, 1999
Lowest daily mean	1.8	Jul 19	0.59	Aug 29	0.59	Aug 29, 2010
Annual seven-day minimum	2.5	Jun 29	0.68	Aug 26	0.68	Aug 26, 2010
Maximum peak flow			1,030	Nov 12	8,570	Sep 17, 1999
Maximum peak stage			9.65	Nov 12	17.32	Sep 17, 1999
Instantaneous low flow			0.41	Sep 5	0.41	Sep 5, 2010
Annual runoff (cfsm)	0.710		1.21		0.956	
Annual runoff (inches)	9.64		16.48		12.98	
10 percent exceeds	104		203		130	
50 percent exceeds	10		15		17	
90 percent exceeds	3.5		2.8		4.0	

^a Canalized period only (1964-2010). See Remarks.

