

## CHOWAN RIVER BASIN

02053500 AHOSKIE CREEK AT AHOSKIE, NC

LOCATION.--Lat 36°16'48", long 77°00'00", Hertford County, Hydrologic Unit 03010203, on right bank 10 ft downstream of bridge on State Highways 11 and 42, 0.5 mi upstream from Seaboard Coast Line Railroad bridge, and 0.8 mi southwest of Ahoskie.

DRAINAGE AREA.--63.3 mi<sup>2</sup>.

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 Jan. 4, 1963, present site at 21.46 ft. Jan. 20, 1950, to May 24, 1951, nonrecording gage. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. Entire basin above station canalized since July 1964. Minimum discharge since canalization also occurred Oct. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.0	2.9	2.9	19	9.1	347	4.7	2.3	3.9	3.8	11
2	4.0	3.4	2.7	2.9	17	12	131	5.5	2.7	3.2	3.4	11
3	3.9	6.0	2.6	5.2	15	25	74	5.3	3.2	2.9	2.4	9.2
4	3.6	2.7	2.8	6.0	14	21	188	6.0	3.1	3.4	2.3	7.1
5	3.4	2.4	2.8	4.6	13	17	83	6.9	3.3	3.6	2.0	6.5
6	4.0	2.5	3.1	17	13	15	52	6.1	4.2	5.4	1.9	5.6
7	3.5	2.8	3.1	45	123	14	37	5.3	14	7.9	1.8	4.2
8	3.4	3.0	2.9	21	101	13	28	4.9	7.4	8.7	1.8	3.4
9	3.1	2.8	2.7	12	52	12	23	4.9	2.5	9.8	1.9	2.9
10	3.1	2.8	2.8	11	37	11	21	5.5	2.5	12	1.9	3.1
11	3.0	2.8	8.6	12	32	11	22	5.0	3.0	17	1.9	3.7
12	2.8	2.8	6.6	9.9	27	12	18	5.3	3.1	13	1.9	3.5
13	2.8	3.4	3.9	18	24	17	15	6.1	4.7	6.0	1.8	3.5
14	3.2	4.4	3.5	16	21	21	13	5.4	5.2	19	1.9	5.5
15	2.9	4.2	2.9	12	19	18	13	5.5	50	14	2.0	20
16	2.5	2.9	2.7	10	18	17	11	4.9	12	7.1	2.1	62
17	2.5	2.8	2.8	8.1	16	34	9.6	4.8	3.6	4.2	2.0	136
18	2.4	3.0	3.7	6.8	14	94	8.4	5.4	2.3	3.2	2.1	29
19	2.3	3.1	3.4	79	13	70	8.4	4.8	2.2	3.0	2.2	8.7
20	2.4	3.2	5.8	392	13	45	7.3	4.9	2.5	46	3.7	3.7
21	2.4	2.8	2.6	100	13	56	6.6	4.9	3.1	44	7.4	2.5
22	2.4	2.8	2.5	78	12	67	6.3	4.5	2.8	11	4.6	1.8
23	2.3	3.0	2.8	58	11	41	5.9	4.3	2.2	6.2	3.2	2.6
24	2.3	8.9	3.3	82	11	32	5.6	3.9	2.0	6.6	3.1	3.4
25	2.0	5.2	3.2	71	10	26	5.9	4.5	2.0	64	2.7	3.5
26	1.8	4.6	2.8	56	10	23	6.4	3.6	2.3	25	2.7	3.9
27	1.9	3.6	2.9	38	9.7	39	5.7	3.1	7.9	13	24	4.3
28	2.2	3.1	2.9	31	9.4	39	5.7	2.9	80	46	41	4.5
29	2.1	3.0	3.0	27	---	29	5.0	2.6	16	19	33	3.6
30	2.8	3.2	2.8	24	---	25	4.8	2.0	6.5	8.1	15	3.3
31	2.7	---	2.9	21	---	32	---	1.8	---	5.0	11	---
TOTAL	88.0	104.2	104.0	1277.4	687.1	897.1	1167.6	145.3	258.6	441.2	192.5	373.0
MEAN	2.839	3.473	3.355	41.21	24.54	28.94	38.92	4.687	8.620	14.23	6.210	12.43
MAX	4.3	8.9	8.6	392	123	94	347	6.9	80	64	41	136
MIN	1.8	2.4	2.5	2.9	9.4	9.1	4.8	1.8	2.0	2.9	1.8	1.8
CFSM	0.04	0.05	0.05	0.65	0.39	0.46	0.61	0.07	0.14	0.22	0.10	0.20
IN.	0.05	0.06	0.06	0.75	0.40	0.53	0.69	0.09	0.15	0.26	0.11	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002,\* BY WATER YEAR (WY)

	40.13	22.27	44.85	100.8	121.2	122.2	72.26	43.15	38.33	31.08	44.21	45.76
MEAN	40.13	22.27	44.85	100.8	121.2	122.2	72.26	43.15	38.33	31.08	44.21	45.76
MAX	297	120	177	260	343	303	243	238	322	126	381	894
(WY)	1972	1986	1990	1979	1998	1989	1983	1979	2001	1975	1992	1999
MIN	2.84	3.21	3.10	7.66	18.9	17.3	8.73	4.21	5.43	3.55	3.59	3.41
(WY)	2002	1982	1995	1981	1968	1988	1985	1986	1986	1987	1983	1980

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002*	
ANNUAL TOTAL	16939.8		5736.0			
ANNUAL MEAN	46.41		15.72		60.24	
HIGHEST ANNUAL MEAN					109	1979
LOWEST ANNUAL MEAN					14.7	1981
HIGHEST DAILY MEAN	2830	Jun 17	392	Jan 20	7710	Sep 17 1999
LOWEST DAILY MEAN	1.8	Oct 26	1.8	Oct 26	0.61	Oct 8 1988
ANNUAL SEVEN-DAY MINIMUM	2.1	Oct 23	1.9	Aug 7	0.85	Sep 27 1988
MAXIMUM PEAK FLOW			577	Jan 20	8570	Sep 17 1999
MAXIMUM PEAK STAGE			6.42	Jan 20	17.32	Sep 17 1999
INSTANTANEOUS LOW FLOW			1.1	May 31	0.45*	Oct 8 1988
ANNUAL RUNOFF (CFSM)	0.73		0.25		0.95	
ANNUAL RUNOFF (INCHES)	9.96		3.37		12.93	
10 PERCENT EXCEEDS	50		37		130	
50 PERCENT EXCEEDS	8.4		5.0		17	
90 PERCENT EXCEEDS	2.8		2.4		4.1	

\* Canalized period only (1954-2001). See REMARKS.

02053500 AHOSKIE CREEK AT AHOSKIE, NC--Continued

