

## PAMLICO RIVER BASIN

02082770 SWIFT CREEK AT HILLIARDSTON, NC

LOCATION.--Lat 36°06'42", long 77°55'16", Nash County, Hydrologic Unit 03020101, near left bank at downstream side of bridge on Secondary Road 1310, 0.7 mi northeast of Hilliardston, and 2.8 mi downstream of Gideon Swamp.

DRAINAGE AREA.--166 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1963 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 130.42 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Maximum discharge for period of record, on basis of slope-conveyance of peak flow; maximum gage height for period of record, 21.30 ft, from flood marks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1924 reached a stage of 14.5 ft, from information by North Carolina State Highway Commission, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	55	79	e73	91	e160	1100	84	96	37	109	31
2	113	56	74	e70	85	e150	1310	82	230	33	78	37
3	104	55	70	e74	80	148	987	79	159	31	62	53
4	91	57	69	e80	75	211	740	78	116	31	51	51
5	83	56	69	e74	85	257	423	78	90	45	67	41
6	80	55	68	e68	111	e234	264	72	90	70	96	37
7	74	57	67	e70	102	e210	220	70	85	119	55	34
8	69	57	67	71	91	e190	193	69	68	88	46	31
9	65	61	66	80	85	172	177	69	68	70	40	28
10	63	64	64	84	82	162	161	69	68	60	38	28
11	62	63	64	77	78	154	148	66	60	47	34	63
12	61	62	64	72	75	e147	138	65	53	38	40	94
13	61	60	64	70	80	e155	133	63	52	34	85	46
14	62	63	65	69	93	e170	126	61	67	31	191	34
15	61	86	66	68	101	e150	119	63	386	28	202	29
16	58	87	77	71	106	e160	115	63	1100	26	183	27
17	57	76	197	70	247	e170	111	69	549	25	153	25
18	57	74	333	69	396	e157	116	78	320	25	82	24
19	57	71	199	74	382	151	118	85	168	26	67	22
20	57	77	177	116	313	143	111	85	104	24	64	21
21	56	90	140	192	215	821	106	80	80	22	77	21
22	54	85	114	172	188	1110	100	78	68	21	96	20
23	54	76	103	145	e187	1050	97	80	60	19	67	22
24	53	72	92	114	e200	1000	94	73	56	18	55	33
25	54	75	93	99	e200	437	139	69	54	20	50	101
26	54	139	e90	94	e215	218	195	83	51	18	44	59
27	55	166	e85	87	e190	179	152	83	51	845	40	42
28	57	154	82	81	e170	157	125	68	48	784	46	39
29	56	113	80	76	---	345	104	66	44	233	36	36
30	55	89	78	77	---	990	91	70	39	360	32	31
31	55	---	e74	90	---	865	---	64	---	210	33	---
TOTAL	2065	2351	3030	2727	4323	10623	8013	2262	4480	3438	2319	1160
MEAN	66.6	78.4	97.7	88.0	154	343	267	73.0	149	111	74.8	38.7
MAX	127	166	333	192	396	1110	1310	85	1100	845	202	101
MIN	53	55	64	68	75	143	91	61	39	18	32	20
CFSM	.40	.47	.59	.53	.93	2.06	1.61	.44	.90	.67	.45	.23
IN.	.46	.53	.68	.61	.97	2.38	1.80	.51	1.00	.77	.52	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)

	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	93.3	115	148	242	281	305	220	146	125	105	89.1	131
MAX	420	436	382	500	605	718	774	466	468	488	326	2180
(WY)	1972	1986	1973	1987	1998	1998	1987	1984	1979	2000	1986	1999
MIN	9.65	27.8	37.3	59.5	92.6	77.6	72.9	47.5	26.4	12.3	10.2	4.90
(WY)	1971	1982	1966	1981	1968	1988	1981	1995	1981	1981	1993	1968

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1963 - 2001

ANNUAL TOTAL	70724	46791	
ANNUAL MEAN	193	128	167
HIGHEST ANNUAL MEAN			290
LOWEST ANNUAL MEAN			20.2
HIGHEST DAILY MEAN	5650	Jul 25	22000
LOWEST DAILY MEAN	16	Jul 19	.60
ANNUAL SEVEN-DAY MINIMUM	22	Jul 15	1.1
MAXIMUM PEAK FLOW			1350
MAXIMUM PEAK STAGE			10.60
INSTANTANEOUS LOW FLOW			17
ANNUAL RUNOFF (CFSM)	1.16	.77	1.00
ANNUAL RUNOFF (INCHES)	15.85	10.49	13.63
10 PERCENT EXCEEDS	336		210
50 PERCENT EXCEEDS	117		76
90 PERCENT EXCEEDS	54		34

e Estimated.

\* See REMARKS.

02082770 SWIFT CREEK AT HILLIARDSTON, NC--Continued

