



Water-Data Report 2007

**02082770 SWIFT CREEK AT HILLIARDSTON, NC**

Pamlico Basin  
Upper Tar Subbasin

LOCATION.--Lat 36°06'44", long 77°55'12" referenced to North American Datum of 1983, Nash County, NC, 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>.

**SURFACE-WATER RECORDS**

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

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

GAGE.--Water-stage recorder. Datum of gage is 129.41 ft above NAVD of 1988. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. 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.

## 02082770 SWIFT CREEK AT HILLIARDSTON, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	125	132	209	184	145	164	218	96	31	16	7.9	14
2	134	118	249	206	171	627	185	89	29	15	14	11
3	99	111	205	209	176	423	168	85	55	14	20	9.6
4	84	106	218	204	163	279	155	80	187	13	19	8.3
5	77	100	211	189	158	224	142	79	147	12	16	7.4
6	83	98	185	377	140	183	129	81	119	12	13	6.5
7	172	106	172	514	131	163	127	79	85	10	11	5.7
8	225	328	159	488	129	150	130	77	64	10	9.5	4.9
9	234	396	146	405	124	141	127	76	57	10	8.8	4.7
10	188	392	138	293	120	135	120	98	53	10	16	4.4
11	138	279	135	241	116	130	117	98	45	18	10	4.1
12	117	493	131	205	115	124	219	88	39	52	8.0	4.2
13	107	942	130	190	113	120	306	85	36	164	8.4	3.7
14	97	819	128	182	335	117	240	106	34	114	8.2	4.2
15	90	826	126	174	271	117	328	90	33	52	8.9	7.1
16	84	882	123	170	222	145	500	76	33	33	7.5	10
17	82	1,350	119	162	189	479	592	73	35	25	7.1	12
18	99	1,200	115	153	162	536	579	66	34	23	5.6	8.9
19	123	1,000	112	174	149	513	274	64	33	21	4.9	7.0
20	132	475	109	175	138	270	202	66	31	21	4.9	6.0
21	138	273	107	159	134	206	176	64	29	18	4.8	5.9
22	118	684	110	477	182	181	160	60	28	16	4.6	5.5
23	112	1,010	240	455	212	167	147	57	27	15	4.3	5.5
24	107	941	255	338	173	157	133	50	25	13	3.9	5.5
25	101	952	411	262	157	149	123	46	22	12	4.0	4.9
26	96	443	828	212	201	139	117	44	21	11	4.5	4.5
27	94	285	529	189	200	136	119	42	20	10	4.5	4.1
28	168	243	445	177	182	370	123	39	18	9.4	9.5	3.9
29	184	218	268	165	---	985	113	37	18	8.9	9.6	3.2
30	170	202	211	153	---	390	104	35	17	7.8	7.2	2.8
31	166	---	189	146	---	270	---	33	---	7.5	14	---
<b>Total</b>	3,944	15,404	6,713	7,628	4,708	8,190	6,173	2,159	1,405	773.6	279.6	189.5
<b>Mean</b>	127	513	217	246	168	264	206	69.6	46.8	25.0	9.02	6.32
<b>Max</b>	234	1,350	828	514	335	985	592	106	187	164	20	14
<b>Min</b>	77	98	107	146	113	117	104	33	17	7.5	3.9	2.8
<b>Cfsm</b>	0.77	3.09	1.30	1.48	1.01	1.59	1.24	0.42	0.28	0.15	0.05	0.04
<b>In.</b>	0.88	3.45	1.50	1.71	1.06	1.84	1.38	0.48	0.31	0.17	0.06	0.04

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	93.6	125	159	235	272	299	221	146	131	104	94.3	139
<b>Max</b>	420	513	401	500	605	718	774	466	552	488	326	2,180
<b>(WY)</b>	(1972)	(2007)	(2003)	(1987)	(1998)	(1998)	(1987)	(1984)	(2006)	(2000)	(1986)	(1999)
<b>Min</b>	9.65	27.8	37.3	59.5	92.6	77.6	72.9	46.2	6.98	12.0	9.02	4.90
<b>(WY)</b>	(1971)	(1982)	(1966)	(1981)	(1968)	(1988)	(1981)	(2002)	(2002)	(2002)	(2007)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1963 - 2007	
Annual total	77,668		57,566.7			
Annual mean	213		158		167	
Highest annual mean					308	2003
Lowest annual mean					51.0	1981
Highest daily mean	4,870	Jun 15	1,350	Nov 17	22,000	Sep 17, 1999
Lowest daily mean	20	Aug 29	2.8	Sep 30	0.60	Sep 25, 1968
Annual seven-day minimum	23	Aug 24	4.1	Sep 24	1.1	Sep 21, 1968
Maximum peak flow			1,370	Nov 17	<sup>a</sup> 23,000	Sep 17, 1999
Maximum peak stage			10.69	Nov 17	<sup>a</sup> 21.30	Sep 17, 1999
Instantaneous low flow			2.5	Sep 30	0.60	Sep 25, 1968
Annual runoff (cfsm)	1.28		0.950		1.01	
Annual runoff (inches)	17.41		12.90		13.70	
10 percent exceeds	444		373		350	
50 percent exceeds	107		117		94	
90 percent exceeds	55		7.5		24	

<sup>a</sup> See Remarks.

