

02082770 SWIFT CREEK AT HILLIARDSTON, NC

LOCATION.--Lat 36°06'44", long 77°55'12", 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 mi².

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.--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. Minimum discharge for current water year also occurred Sept. 8, 9, 10, 30.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	90	291	126	232	455	308	103	73	93	76	20
2	134	88	218	114	214	344	305	113	75	69	64	18
3	112	85	183	109	183	292	350	108	91	60	66	17
4	99	107	162	105	228	208	269	103	104	53	62	15
5	93	188	143	102	217	176	229	94	110	47	50	15
6	86	173	130	100	201	161	193	227	107	43	42	14
7	e78	187	127	95	180	147	173	360	98	39	36	13
8	e69	156	134	93	154	375	178	223	144	39	e36	12
9	e62	119	135	86	136	630	240	176	286	46	e44	12
10	e59	102	279	90	144	396	226	135	196	47	36	13
11	e58	93	374	86	131	312	177	110	130	38	33	e13
12	e56	100	324	86	118	252	158	98	95	33	e34	15
13	95	367	316	83	108	220	193	169	78	32	35	16
14	261	441	220	538	105	192	264	465	69	32	37	19
15	309	316	174	787	106	177	193	415	62	33	33	19
16	235	247	148	458	107	168	159	327	57	37	29	20
17	192	182	135	360	112	427	143	249	53	49	35	22
18	136	152	128	228	107	544	128	163	47	55	56	22
19	105	131	123	178	96	425	119	146	45	47	44	21
20	94	117	120	162	89	351	113	151	43	73	e50	20
21	92	107	111	170	90	260	110	211	41	63	49	22
22	239	98	103	174	97	212	104	299	39	56	e39	29
23	299	122	112	169	97	239	104	175	e38	96	33	30
24	175	285	167	146	119	304	107	126	40	e95	29	22
25	134	284	177	133	197	261	98	106	41	80	28	18
26	117	235	158	146	171	251	93	98	40	84	27	16
27	105	192	143	138	147	217	91	93	41	62	25	16
28	98	284	121	121	320	431	89	88	65	47	24	15
29	94	381	111	109	---	862	87	83	451	87	23	15
30	91	315	130	205	---	619	90	80	172	283	22	13
31	90	---	142	284	---	476	---	76	---	142	21	---
TOTAL	4,025	5,744	5,339	5,781	4,206	10,384	5,091	5,370	2,931	2,060	1,218	532
MEAN	130	191	172	186	150	335	170	173	97.7	66.5	39.3	17.7
MAX	309	441	374	787	320	862	350	465	451	283	76	30
MIN	56	85	103	83	89	147	87	76	38	32	21	12
CFSM	0.78	1.15	1.04	1.12	0.90	2.02	1.02	1.04	0.59	0.40	0.24	0.11
IN.	0.90	1.29	1.20	1.30	0.94	2.33	1.14	1.20	0.66	0.46	0.27	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005, BY WATER YEAR (WY)

MEAN	94.5	117	156	237	278	305	224	149	122	101	97.7	138
MAX	420	436	401	500	605	718	774	466	468	488	326	2,180
(WY)	(1972)	(1986)	(2003)	(1987)	(1998)	(1998)	(1987)	(1984)	(1979)	(2000)	(1986)	(1999)
MIN	9.65	27.8	37.3	59.5	92.6	77.6	72.9	46.2	6.98	12.0	10.2	4.90
(WY)	(1971)	(1982)	(1966)	(1981)	(1968)	(1988)	(1981)	(2002)	(2002)	(2002)	(1993)	(1968)

02082770 SWIFT CREEK AT HILLIARDSTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005	
ANNUAL TOTAL	62,508		52,681		168	
ANNUAL MEAN	171		144		308	
HIGHEST ANNUAL MEAN					51.0	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	1,360	Sep 2	862	Mar 29	22,000	Sep 17, 1999
LOWEST DAILY MEAN	32	Jun 24	12	Sep 8	0.60	Sep 25, 1968
ANNUAL SEVEN-DAY MINIMUM	40	Jun 20	13	Sep 5	1.1	Sep 21, 1968
MAXIMUM PEAK FLOW			991	Jan 14	23,000*	Sep 17, 1999
MAXIMUM PEAK STAGE			8.54	Jan 14	21.30*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			12*	Sep 7	0.60	Sep 25, 1968
ANNUAL RUNOFF (CFSM)	1.03		0.869		1.01	
ANNUAL RUNOFF (INCHES)	14.01		11.81		13.72	
10 PERCENT EXCEEDS	312		304		350	
50 PERCENT EXCEEDS	126		109		94	
90 PERCENT EXCEEDS	57		29		24	

* See REMARKS.
e Estimated.

