

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.--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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	222	60	149	183	171	152	102	82	46	152	1,350
2	80	154	64	138	166	152	169	141	73	41	155	1,360
3	75	90	49	133	256	145	176	348	65	35	429	899
4	70	61	40	132	403	149	171	483	61	37	343	328
5	69	44	101	134	317	151	134	289	64	43	213	198
6	66	38	181	200	329	151	110	205	104	43	143	160
7	63	44	209	187	578	146	100	156	133	41	96	163
8	62	57	207	156	544	147	98	127	125	41	74	167
9	67	52	133	149	545	133	96	110	88	61	64	487
10	84	55	116	145	371	117	93	99	70	35	59	463
11	94	49	516	135	272	106	95	90	60	234	56	250
12	104	42	470	124	261	102	104	83	54	165	53	184
13	102	37	499	129	341	97	233	79	48	128	62	150
14	94	33	914	127	298	96	332	77	44	73	84	126
15	98	31	940	116	270	116	310	75	43	57	514	120
16	105	27	725	110	284	252	259	73	43	62	1,160	125
17	90	27	793	107	269	312	195	69	49	48	1,320	123
18	83	29	586	117	262	243	164	69	52	93	1,220	256
19	85	54	374	153	244	220	142	68	49	85	670	339
20	80	390	314	150	221	187	132	66	46	63	245	312
21	77	336	265	134	204	161	115	64	46	45	168	275
22	71	238	228	120	188	141	108	63	44	75	174	194
23	69	184	207	111	174	122	101	62	37	104	219	143
24	66	112	216	105	162	112	96	63	32	75	165	113
25	64	81	229	104	153	106	93	60	32	59	121	98
26	63	61	206	116	143	103	93	57	40	48	98	89
27	67	49	192	125	148	102	130	76	47	44	84	84
28	77	48	179	129	187	102	145	99	53	87	76	115
29	380	60	167	132	190	98	119	89	49	58	69	188
30	451	62	177	152	---	95	103	87	50	103	339	182
31	260	---	167	199	---	109	---	86	---	84	1,130	---
TOTAL	3,306	2,767	9,524	4,218	7,963	4,444	4,368	3,615	1,783	2,213	9,755	9,041
MEAN	107	92.2	307	136	275	143	146	117	59.4	71.4	315	301
MAX	451	390	940	200	578	312	332	483	133	234	1,320	1,360
MIN	62	27	40	104	143	95	93	57	32	35	53	84
CFSM	0.64	0.56	1.85	0.82	1.65	0.86	0.88	0.70	0.36	0.43	1.90	1.82
IN.	0.74	0.62	2.13	0.95	1.78	1.00	0.98	0.81	0.40	0.50	2.19	2.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	93.6	116	156	238	281	304	226	148	123	102	99.1	141
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	103,070		62,997		168	
ANNUAL MEAN	282		172		308	
HIGHEST ANNUAL MEAN					51.0	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	1,990	Apr 12	1,360	Sep 2	22,000	Sep 17, 1999
LOWEST DAILY MEAN	27	Nov 16	27	Nov 16	0.60	Sep 25, 1968
ANNUAL SEVEN-DAY MINIMUM	32	Nov 12	32	Nov 12	1.1	Sep 21, 1968
MAXIMUM PEAK FLOW			1,420	Sep 2	23000*	Sep 17, 1999
MAXIMUM PEAK STAGE			10.08	Sep 2	21.30*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			25	Nov 17	0.60	Sep 25, 1968
ANNUAL RUNOFF (CFSM)	1.70		1.04		1.01	
ANNUAL RUNOFF (INCHES)	23.10		14.12		13.77	
10 PERCENT EXCEEDS	610		333		353	
50 PERCENT EXCEEDS	184		114		93	
90 PERCENT EXCEEDS	60		48		24	

* See REMARKS.

