

02133500 DROWNING CREEK NEAR HOFFMAN, NC

LOCATION.--Lat 35°03'40", long 79°29'38", Richmond County, Hydrologic Unit 03040203, on right bank 10 ft downstream of bridge on U.S. Highway 1, 1 mi upstream from Seaboard Coast Line Railroad bridge, 0.8 mi downstream of Deep Creek, and 4 mi northeast of Hoffman.

DRAINAGE AREA.--183 mi².

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 972: 1941(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage. These withdrawals cause some diurnal fluctuation at low to medium flow and may affect yearly minimums. A daily average of 4.3 ft³/s was diverted during the year. No flow for period of record also occurred on Aug. 15, 2002. Minimum discharge for current water year also occurred July 17.

REVISIONS.--Maximum discharge for water year 1999 to 1,070 ft³/s, Jan. 26, 1999, gage height 6.35 ft.

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	246	422	252	202	218	458	187	95	58	63	106	408
2	224	351	231	207	206	438	208	169	56	62	126	435
3	212	290	207	204	207	414	205	328	52	61	141	386
4	195	256	196	193	261	387	177	495	54	80	145	327
5	187	247	216	203	290	348	164	478	54	71	151	210
6	190	252	237	221	278	305	152	355	82	57	126	160
7	186	250	256	221	253	279	145	228	79	50	101	188
8	205	232	242	211	281	266	142	158	75	44	100	749
9	251	240	217	199	291	245	132	132	93	43	107	913
10	279	251	226	201	254	229	129	123	168	52	121	673
11	291	246	307	212	217	223	132	107	167	66	131	569
12	293	229	403	212	241	212	148	98	94	68	138	450
13	291	227	423	203	307	201	216	93	73	51	151	352
14	290	218	425	206	358	194	265	92	73	58	166	279
15	301	201	408	208	385	195	e250	81	84	57	180	241
16	345	195	408	192	397	221	220	75	84	45	241	254
17	337	197	403	177	382	270	175	79	93	42	217	240
18	326	204	378	195	362	322	152	73	78	48	177	262
19	288	239	335	236	339	326	143	72	64	54	173	332
20	274	323	302	252	300	276	e140	76	58	53	169	320
21	248	400	286	226	265	244	e128	74	55	60	174	262
22	226	381	266	200	243	232	121	67	56	63	151	182
23	212	330	254	187	230	214	117	73	55	73	143	154
24	201	268	253	178	215	195	104	81	68	73	138	136
25	195	237	248	183	210	183	100	92	71	69	128	120
26	193	224	264	186	215	174	102	75	81	74	125	119
27	204	207	246	191	250	161	118	65	93	82	130	130
28	248	215	230	196	344	162	139	60	88	83	130	201
29	357	215	226	209	431	162	122	53	78	85	131	339
30	447	232	223	215	---	154	102	54	66	90	316	444
31	472	---	219	215	---	162	---	61	---	98	417	---
TOTAL	8,214	7,779	8,787	6,341	8,230	7,852	4,635	4,162	2,350	1,975	4,950	9,835
MEAN	265	259	283	205	284	253	154	134	78.3	63.7	160	328
MAX	472	422	425	252	431	458	265	495	168	98	417	913
MIN	186	195	196	177	206	154	100	53	52	42	100	119
CFSM	1.45	1.42	1.55	1.12	1.55	1.38	0.84	0.73	0.43	0.35	0.87	1.79
IN.	1.67	1.58	1.79	1.29	1.67	1.60	0.94	0.85	0.48	0.40	1.01	2.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	199	228	260	321	357	377	321	224	170	188	185	184
MAX	595	499	530	561	687	729	842	465	421	624	591	932
(WY)	(1965)	(1980)	(1973)	(1998)	(1960)	(1998)	(1973)	(1958)	(1976)	(1944)	(2003)	(1945)
MIN	48.5	76.5	107	145	147	157	111	49.2	11.0	11.2	12.8	28.8
(WY)	(1941)	(2002)	(2002)	(2001)	(1992)	(2002)	(1986)	(2002)	(2002)	(2002)	(2002)	(1968)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	138,298		75,110		251	
ANNUAL MEAN	379		205		397	
HIGHEST ANNUAL MEAN					94.8	1984
LOWEST ANNUAL MEAN					8,530	Sep 18, 1945
HIGHEST DAILY MEAN	1,890	Aug 11	913	Sep 9	0.00	Aug 14, 2002
LOWEST DAILY MEAN	142	Jul 11	42	Jul 17	0.10	Aug 10, 2002
ANNUAL SEVEN-DAY MINIMUM	159	Jan 24	51	Jul 13	10,900	Sep 18, 1945
MAXIMUM PEAK FLOW			1,160	Sep 8	10.29	Sep 18, 1945
MAXIMUM PEAK STAGE			6.53	Sep 8	0.00*	Aug 14, 2002
INSTANTANEOUS LOW FLOW			29*	Jul 16	1.37	
ANNUAL RUNOFF (CFSM)	2.07		1.12		18.62	
ANNUAL RUNOFF (INCHES)	28.11		15.27		477	
10 PERCENT EXCEEDS	632		353		203	
50 PERCENT EXCEEDS	328		202		76	
90 PERCENT EXCEEDS	189		68			

* See REMARKS.

e Estimated.

