

02133500 DROWNING CREEK NEAR HOFFMAN, NC

LOCATION.--Lat 35°03'39", 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 fair except those for estimated daily discharges, which are 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 Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage.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 4.7 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 Oct. 8, 9.

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	229	149	279	300	719	525	298	405	179	374	178
2	52	162	150	292	309	811	531	257	499	277	379	196
3	48	134	144	333	298	746	472	234	571	464	415	227
4	47	129	142	350	245	692	400	307	463	566	430	240
5	44	147	182	358	217	630	339	429	383	466	504	357
6	41	182	257	338	218	641	308	508	333	356	527	393
7	39	239	356	302	267	761	314	557	317	270	727	369
8	38	269	391	263	310	1,000	335	722	328	204	826	421
9	39	233	362	240	383	878	470	666	384	165	1,100	437
10	45	171	311	222	416	699	770	508	476	144	1,680	391
11	101	145	259	197	431	594	1,330	392	450	142	1,890	329
12	348	201	245	191	417	527	1,540	325	360	168	1,100	269
13	681	312	276	183	371	482	1,100	282	331	226	769	221
14	715	399	333	173	320	480	799	236	312	353	758	202
15	659	403	412	171	270	483	665	209	288	470	731	205
16	578	365	465	168	246	510	585	193	351	401	636	197
17	477	372	446	169	311	545	530	206	679	291	553	e185
18	403	415	384	161	396	551	490	232	704	214	521	194
19	314	481	317	166	421	521	451	253	696	195	557	413
20	210	500	290	165	439	547	443	298	611	212	566	630
21	201	441	311	164	414	659	445	355	496	233	488	725
22	263	373	360	173	415	849	433	429	430	212	414	556
23	279	297	354	178	481	836	402	471	378	183	356	458
24	222	253	347	172	567	669	376	506	316	174	322	421
25	169	227	357	151	630	563	345	562	260	192	305	446
26	150	202	431	148	569	486	339	521	211	183	284	464
27	146	183	496	160	558	430	347	505	178	146	270	393
28	153	168	499	155	662	397	359	531	167	179	238	331
29	228	168	434	151	---	364	366	518	197	228	216	293
30	285	154	359	175	---	386	335	438	183	320	192	269
31	298	---	298	233	---	467	---	381	---	372	180	---
TOTAL	7,330	7,954	10,117	6,581	10,881	18,923	16,144	12,329	11,757	8,185	18,308	10,410
MEAN	236	265	326	212	389	610	538	398	392	264	591	347
MAX	715	500	499	358	662	1,000	1,540	722	704	566	1,890	725
MIN	38	129	142	148	217	364	308	193	167	142	180	178
CFSM	1.29	1.45	1.78	1.16	2.12	3.34	2.94	2.17	2.14	1.44	3.23	1.90
IN.	1.49	1.62	2.06	1.34	2.21	3.85	3.28	2.51	2.39	1.66	3.72	2.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

	198	228	260	322	358	379	324	226	172	190	186	182
MEAN	198	228	260	322	358	379	324	226	172	190	186	182
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	51,479.08		138,919		251	
ANNUAL MEAN	141		381		397	
HIGHEST ANNUAL MEAN					94.8	1984
LOWEST ANNUAL MEAN					202	
HIGHEST DAILY MEAN	715	Oct 14	1,890	Aug 11	8,530	Sep 18, 1945
LOWEST DAILY MEAN	0.00	Aug 14	38	Oct 8	0.00	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	0.10	Aug 10	42	Oct 4	0.10	Aug 10, 2002
MAXIMUM PEAK FLOW			2,190	Aug 11	10,900	Sep 18, 1945
MAXIMUM PEAK STAGE			7.39	Aug 11	10.29	Sep 18, 1945
INSTANTANEOUS LOW FLOW			38	Oct 7	0.00*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	0.77		2.08		1.37	
ANNUAL RUNOFF (INCHES)	10.46		28.24		18.67	
10 PERCENT EXCEEDS	355		659		480	
50 PERCENT EXCEEDS	113		348		203	
90 PERCENT EXCEEDS	5.9		166		76	

e Estimated.
 * See REMARKS.

