

Water-Data Report 2007

**02133500 DROWNING CREEK NEAR HOFFMAN, NC**

Lower Pee Dee Basin  
Lumber Subbasin

LOCATION.--Lat 35°03'40", long 79°29'38" referenced to North American Datum of 1983, Richmond County, NC, 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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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

REVISED RECORDS.--WSP 972: 1941(M). WDR NC-80-1: Drainage area. WDR NC-00-1B: 1999(M).

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

REMARKS.--No estimated daily discharges. Records fair except those for daily discharges below 200 ft<sup>3</sup>/s, 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 Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage.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 5.0 ft<sup>3</sup>/s was diverted during the year. Minimum discharge for period of record also occurred on August 15, 2002.

## 02133500 DROWNING CREEK NEAR HOFFMAN, 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	147	126	363	323	227	314	195	143	52	71	66	44
2	90	111	386	331	315	393	200	132	44	60	43	42
3	72	102	430	335	415	532	208	130	100	46	32	35
4	64	95	439	320	412	567	203	126	183	39	20	28
5	57	90	396	292	359	510	178	126	174	36	17	24
6	57	90	328	333	269	423	168	143	103	30	20	21
7	53	123	292	408	236	318	151	153	76	22	18	19
8	67	262	266	533	229	268	155	131	66	29	16	15
9	84	459	246	580	218	248	155	126	84	37	15	16
10	86	510	228	536	212	234	155	153	75	44	13	17
11	76	427	225	481	203	225	169	153	65	39	6.4	14
12	68	339	220	408	199	219	302	146	63	75	5.7	13
13	63	285	212	342	203	213	455	207	68	86	10	13
14	60	289	208	309	314	207	419	244	71	58	8.9	15
15	55	273	207	291	464	204	409	233	74	51	7.8	44
16	55	279	200	280	512	266	470	156	74	58	7.9	78
17	59	356	197	266	463	506	578	128	78	67	7.6	64
18	125	441	189	256	358	626	611	116	97	95	2.2	41
19	186	423	185	273	277	585	498	95	76	75	1.3	32
20	199	384	182	292	247	472	370	89	60	57	6.3	31
21	138	276	180	288	236	345	275	88	56	40	5.7	35
22	105	462	186	315	230	283	236	80	53	36	7.4	39
23	102	1,050	268	399	221	255	218	94	42	34	26	46
24	98	1,450	410	425	208	238	200	93	37	28	80	37
25	87	932	519	389	210	226	188	78	48	24	48	29
26	84	650	638	311	284	214	179	65	48	23	30	24
27	83	530	706	263	377	205	173	60	49	20	72	22
28	144	465	673	244	360	199	163	62	49	18	71	20
29	210	417	531	233	---	197	166	60	44	22	50	14
30	233	380	420	221	---	203	155	57	40	28	37	16
31	175	---	354	212	---	208	---	54	---	42	54	---
<b>Total</b>	3,182	12,076	10,284	10,489	8,258	9,903	8,002	3,721	2,149	1,390	805.2	888
<b>Mean</b>	103	403	332	338	295	319	267	120	71.6	44.8	26.0	29.6
<b>Max</b>	233	1,450	706	580	512	626	611	244	183	95	80	78
<b>Min</b>	53	90	180	212	199	197	151	54	37	18	1.3	13
<b>Cfsm</b>	0.56	2.20	1.81	1.85	1.61	1.75	1.46	0.66	0.39	0.25	0.14	0.16
<b>In.</b>	0.65	2.45	2.09	2.13	1.68	2.01	1.63	0.76	0.44	0.28	0.16	0.18

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	195	228	260	318	351	372	316	220	170	183	180	179
<b>Max</b>	595	499	530	561	687	729	842	465	421	624	591	932
<b>(WY)</b>	(1965)	(1980)	(1973)	(1998)	(1960)	(1998)	(1973)	(1958)	(1976)	(1944)	(2003)	(1945)
<b>Min</b>	48.5	76.5	107	145	147	141	111	49.2	11.0	11.2	12.8	28.8
<b>(WY)</b>	(1941)	(2002)	(2002)	(2001)	(1992)	(2006)	(1986)	(2002)	(2002)	(2002)	(2002)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1940 - 2007	
Annual total	64,735		71,147.2			
Annual mean	177		195		247	
Highest annual mean					397	1984
Lowest annual mean					94.8	2002
Highest daily mean	1,450	Nov 24	1,450	Nov 24	8,530	Sep 18, 1945
Lowest daily mean	32	Jun 2	1.3	Aug 19	0.00	Aug 14, 2002
Annual seven-day minimum	38	May 28	5.5	Aug 16	0.10	Aug 10, 2002
Maximum peak flow			1,550	Nov 24	10,900	Sep 18, 1945
Maximum peak stage			6.88	Nov 24	10.29	Sep 18, 1945
Instantaneous low flow			0.05	Aug 22	0.00	Aug 14, 2002
Annual runoff (cfsm)	0.969		1.07		1.35	
Annual runoff (inches)	13.16		14.46		18.35	
10 percent exceeds	388		428		473	
50 percent exceeds	126		155		200	
90 percent exceeds	54		23		73	

<sup>a</sup> See Remarks.

