

Water-Data Report 2010

**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. Datum of gage is 269.1 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and 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 Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage.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 5.06 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 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	31	59	109	231	356	240	364	76	128	46	86	38
2	28	71	125	243	343	232	251	78	220	41	96	37
3	27	72	261	216	363	261	207	72	270	28	76	30
4	25	65	497	186	413	311	191	76	196	21	65	20
5	31	57	500	172	500	328	181	84	133	23	60	17
6	43	52	421	166	723	306	172	80	109	20	95	22
7	52	51	310	158	1,080	260	162	72	110	18	116	21
8	50	48	225	156	974	230	153	57	130	15	89	21
9	42	48	276	152	681	216	204	49	96	22	66	21
10	34	49	408	147	569	208	196	50	79	23	53	19
11	37	135	424	142	532	206	175	49	69	27	46	12
12	43	259	335	140	493	209	158	54	55	32	39	15
13	44	420	239	141	460	280	146	57	53	69	34	21
14	46	403	210	137	429	390	139	55	49	78	25	20
15	54	300	213	134	415	424	138	44	e50	62	23	19
16	56	182	189	134	404	384	133	42	e55	53	33	17
17	53	134	174	195	383	289	121	96	60	39	31	16
18	50	115	164	388	356	244	116	204	48	66	27	10
19	47	108	219	562	323	222	108	246	37	117	50	9.0
20	40	118	327	542	294	203	103	212	35	95	145	14
21	39	115	352	455	276	196	104	131	35	58	217	14
22	36	107	280	419	273	197	109	97	31	37	234	13
23	36	140	198	547	305	203	105	112	27	25	141	13
24	35	209	176	630	352	192	93	108	23	14	104	14
25	44	241	187	656	369	181	102	113	21	11	101	7.6
26	50	206	296	668	341	173	115	112	18	55	77	11
27	49	151	441	793	293	170	109	95	47	79	68	108
28	62	128	435	662	258	167	98	79	37	134	55	232
29	80	114	372	503	---	203	92	74	27	162	49	318
30	73	107	246	425	---	302	86	117	36	127	48	744
31	63	---	210	383	---	406	---	108	---	69	42	---
<b>Total</b>	1,400	4,264	8,819	10,483	12,558	7,833	4,431	2,899	2,284	1,666	2,391	1,873.6
<b>Mean</b>	45.2	142	284	338	448	253	148	93.5	76.1	53.7	77.1	62.5
<b>Max</b>	80	420	500	793	1,080	424	364	246	270	162	234	744
<b>Min</b>	25	48	109	134	258	167	86	42	18	11	23	7.6
<b>Cfsm</b>	0.25	0.78	1.55	1.85	2.45	1.38	0.81	0.51	0.42	0.29	0.42	0.34
<b>In.</b>	0.28	0.87	1.79	2.13	2.55	1.59	0.90	0.59	0.46	0.34	0.49	0.38

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	191	224	259	315	348	368	311	215	165	178	176	177
<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>	45.2	76.5	107	145	147	141	111	49.2	11.0	11.2	12.8	28.8
<b>(WY)</b>	(2010)	(2002)	(2002)	(2001)	(1992)	(2006)	(1986)	(2002)	(2002)	(2002)	(2002)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1940 - 2010	
<b>Annual total</b>	50,230.9		60,901.6			
<b>Annual mean</b>	138		167		243	
<b>Highest annual mean</b>					397	1984
<b>Lowest annual mean</b>					94.8	2002
<b>Highest daily mean</b>	744	Mar 3	1,080	Feb 7	8,530	Sep 18, 1945
<b>Lowest daily mean</b>	6.8	Jul 4	7.6	Sep 25	0.00	Aug 14, 2002
<b>Annual seven-day minimum</b>	12	Jun 30	12	Sep 19	0.10	Aug 10, 2002
<b>Maximum peak flow</b>			1,190	Feb 7	10,900	Sep 18, 1945
<b>Maximum peak stage</b>			6.55	Feb 7	10.29	Sep 18, 1945
<b>Instantaneous low flow</b>			6.8	Sep 26	<sup>a</sup> 0.00	Aug 14, 2002
<b>Annual runoff (cfsm)</b>	0.752		0.912		1.33	
<b>Annual runoff (inches)</b>	10.21		12.38		18.07	
<b>10 percent exceeds</b>	292		403		470	
<b>50 percent exceeds</b>	107		110		195	
<b>90 percent exceeds</b>	25		24		70	

<sup>a</sup> See Remarks.

