

Water-Data Report 2008

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 mi².

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.--No estimated daily discharges. Records fair except those for daily discharges below 200 ft³/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 Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage.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 4.74 ft³/s was diverted during the year. Minimum discharge for period of record also occurred on August 15, 2002.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	18	136	80	562	180	179	221	329	64	16	60	132
2	16	116	75	588	255	162	259	240	60	14	42	98
3	17	103	79	512	293	153	237	158	54	12	37	80
4	19	91	80	362	258	147	199	132	48	7.3	41	69
5	21	88	79	220	192	186	280	118	43	17	36	74
6	20	81	78	192	168	258	437	108	37	60	29	471
7	26	78	78	181	162	330	550	100	25	90	26	926
8	30	76	77	168	151	452	567	92	21	83	29	890
9	24	75	78	159	137	523	471	93	25	187	21	641
10	24	74	80	158	132	520	327	90	22	269	20	516
11	21	75	78	160	125	463	242	95	20	249	54	499
12	19	75	78	155	121	324	212	109	33	126	72	514
13	13	73	79	152	197	232	203	104	26	87	86	452
14	14	75	79	141	293	207	209	87	15	69	169	333
15	19	77	79	134	299	192	192	79	58	95	188	214
16	18	76	156	129	217	256	173	100	83	76	122	170
17	18	79	226	143	171	380	160	108	63	54	119	204
18	20	75	243	198	177	425	147	96	44	44	169	304
19	20	78	171	263	219	397	139	86	31	48	121	275
20	24	78	127	322	251	316	153	80	25	59	82	170
21	21	77	117	301	219	291	175	131	23	55	65	141
22	25	76	115	246	210	279	169	150	85	43	55	132
23	21	78	120	199	253	255	162	105	106	41	42	121
24	24	71	135	199	266	199	152	74	64	121	36	111
25	70	73	129	188	222	179	138	65	45	165	43	101
26	233	82	170	167	196	168	123	66	34	89	77	168
27	527	97	327	153	234	161	118	59	27	67	213	304
28	608	102	469	149	259	153	171	57	17	63	390	418
29	592	91	421	144	230	143	265	87	15	54	520	340
30	445	84	381	144	---	140	337	88	20	47	368	191
31	203	---	438	146	---	167	---	73	---	42	203	---
Total	3,170	2,510	4,922	6,935	6,087	8,237	7,188	3,359	1,233	2,449.3	3,535	9,059
Mean	102	83.7	159	224	210	266	240	108	41.1	79.0	114	302
Max	608	136	469	588	299	523	567	329	106	269	520	926
Min	13	71	75	129	121	140	118	57	15	7.3	20	69
Cfsm	0.56	0.46	0.87	1.22	1.15	1.45	1.31	0.59	0.22	0.43	0.62	1.65
In.	0.64	0.51	1.00	1.41	1.24	1.67	1.46	0.68	0.25	0.50	0.72	1.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	194	226	259	316	349	370	315	218	168	182	179	180
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	141	111	49.2	11.0	11.2	12.8	28.8
(WY)	(1941)	(2002)	(2002)	(2001)	(1992)	(2006)	(1986)	(2002)	(2002)	(2002)	(2002)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1940 - 2008	
Annual total	56,207.2		58,684.3			
Annual mean	154		160		246	
Highest annual mean					397	1984
Lowest annual mean					94.8	2002
Highest daily mean	626	Mar 18	926	Sep 7	8,530	Sep 18, 1945
Lowest daily mean	1.3	Aug 19	7.3	Jul 4	0.00	Aug 14, 2002
Annual seven-day minimum	5.5	Aug 16	14	Jun 28	0.10	Aug 10, 2002
Maximum peak flow			977	Sep 7	10,900	Sep 18, 1945
Maximum peak stage			6.12	Sep 7	10.29	Sep 18, 1945
Instantaneous low flow			6.8	Jul 4	^a 0.00	Aug 14, 2002
Annual runoff (cfs)	0.841		0.876		1.34	
Annual runoff (inches)	11.43		11.93		18.26	
10 percent exceeds	391		338		472	
50 percent exceeds	82		121		198	
90 percent exceeds	19		25		72	

^aSee Remarks.