

PEE DEE RIVER BASIN

02133500 DROWNING CREEK NEAR HOFFMAN, NC

LOCATION.--Lat 35°03'38", long 79°29'39", 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 sea level, 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 Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage.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 5.6 ft³/s was diverted during the year.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	72	177	132	150	158	655	94	135	81	48	53
2	139	72	158	127	140	149	646	84	265	71	42	61
3	123	73	173	124	125	136	490	78	391	65	37	60
4	108	69	198	123	118	177	395	73	362	59	32	62
5	98	74	186	124	128	232	335	67	253	66	27	73
6	91	84	156	124	132	256	292	63	126	113	26	71
7	81	83	145	125	125	245	259	62	84	132	25	59
8	76	83	145	130	118	223	242	59	73	104	23	46
9	77	85	133	149	117	177	228	58	76	139	34	40
10	76	88	132	152	107	150	210	57	78	169	33	39
11	77	86	138	142	114	146	196	56	75	125	41	93
12	77	83	135	135	139	144	182	57	67	78	45	114
13	76	85	130	139	187	149	166	55	71	63	94	76
14	71	103	128	138	213	157	158	54	173	58	131	56
15	69	156	135	140	219	181	167	50	333	56	115	48
16	71	179	133	136	215	235	171	50	401	51	79	42
17	69	170	158	128	226	269	154	168	371	46	54	38
18	69	143	207	124	255	254	138	271	329	41	55	35
19	67	153	243	126	302	226	e120	326	257	40	109	33
20	67	203	248	157	273	184	e116	272	169	40	139	33
21	66	230	245	205	250	210	109	198	107	37	121	51
22	66	232	221	234	216	258	107	102	90	33	74	75
23	68	198	181	228	218	319	102	92	144	31	59	71
24	72	156	161	190	219	334	96	83	184	e38	51	121
25	72	165	149	157	218	309	145	70	214	e50	48	207
26	71	238	142	143	204	262	188	66	203	e58	43	233
27	75	286	138	127	191	210	191	84	199	63	38	217
28	69	310	154	130	174	182	172	108	225	57	32	135
29	68	268	165	126	---	203	123	192	187	55	32	79
30	69	233	153	130	---	269	106	215	106	52	35	66
31	68	---	141	143	---	382	---	188	---	50	37	---
TOTAL	2499	4460	5108	4488	5093	6786	6659	3452	5748	2121	1759	2387
MEAN	80.6	149	165	145	182	219	222	111	192	68.4	56.7	79.6
MAX	153	310	248	234	302	382	655	326	401	169	139	233
MIN	66	69	128	123	107	136	96	50	67	31	23	33
CFSM	.44	.81	.90	.79	.99	1.20	1.21	.61	1.05	.37	.31	.43
IN.	.51	.91	1.04	.91	1.04	1.38	1.35	.70	1.17	.43	.36	.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

	199	230	261	325	361	379	324	226	171	192	182	181
MEAN	199	230	261	325	361	379	324	226	171	192	182	181
MAX	595	499	530	561	687	729	842	465	421	624	497	932
(WY)	1965	1980	1973	1998	1960	1998	1973	1958	1976	1944	1985	1945
MIN	48.5	93.4	135	145	147	173	111	84.5	34.5	32.9	43.4	28.8
(WY)	1941	1942	1989	2001	1992	1981	1986	1988	1988	1986	1968	1968

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1940 - 2001

ANNUAL TOTAL	77833	50560	
ANNUAL MEAN	213	139	252
HIGHEST ANNUAL MEAN			397
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	823	Feb 15	655
LOWEST DAILY MEAN	23	Aug 24	23
ANNUAL SEVEN-DAY MINIMUM	29	Aug 18	29
MAXIMUM PEAK FLOW			731
MAXIMUM PEAK STAGE			6.06
INSTANTANEOUS LOW FLOW			21
ANNUAL RUNOFF (CFSM)	1.16		.76
ANNUAL RUNOFF (INCHES)	15.82		10.28
10 PERCENT EXCEEDS	442		249
50 PERCENT EXCEEDS	156		126
90 PERCENT EXCEEDS	63		49

e Estimated.

02133500 DROWNING CREEK NEAR HOFFMAN, NC--Continued

