

Water-Data Report 2007

02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC

Lower Pee Dee Basin
Little Pee Dee Subbasin

LOCATION.--Lat 34°45'02", long 79°23'12" referenced to North American Datum of 1983, Scotland County, NC, Hydrologic Unit 03040204, downstream side of bridge on U.S. Highway 74, 2.5 mi downstream of Jordan Creek, and 4.5 mi southeast of Laurinburg.

DRAINAGE AREA.--83.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water years 1949-54, 1959, 1962, 1968-69. June 1987 to current year.

REVISED RECORDS.--WDR NC-04-1: 1998(M), 2000(M).

GAGE.--Water-stage recorder. Elevation of gage is 170 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 600 ft³/s by logarithmic plotting. Minimum discharge for period of record also occurred August 14, 2002.

02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	39	60	160	194	120	110	79	62	32	58	18	26
2	37	56	156	169	160	141	77	61	31	55	15	19
3	35	53	153	157	195	161	76	58	52	46	13	16
4	34	51	147	147	235	197	75	58	69	38	11	12
5	33	49	136	138	231	224	82	59	70	34	11	11
6	33	48	125	163	197	220	93	61	64	30	11	9.8
7	33	65	117	172	164	182	91	60	55	31	9.6	9.0
8	45	113	107	197	140	144	81	58	44	36	9.5	9.3
9	70	135	99	207	124	119	77	58	41	32	9.0	8.8
10	86	171	93	213	113	104	74	62	40	37	8.5	8.3
11	98	192	90	209	104	95	79	65	37	29	8.4	7.5
12	94	176	87	183	97	88	122	64	36	28	7.3	7.9
13	65	129	86	161	97	82	161	73	36	30	6.7	8.6
14	52	100	85	144	135	80	198	84	35	25	5.6	9.2
15	48	85	85	133	156	78	215	98	36	23	4.6	18
16	45	106	82	125	191	126	208	92	37	22	6.0	34
17	45	126	80	118	203	200	217	76	38	21	6.7	34
18	55	143	78	114	179	276	251	72	38	25	6.4	23
19	65	154	77	122	148	359	260	65	34	40	7.1	16
20	66	136	76	131	126	329	225	58	33	33	6.5	15
21	57	109	74	134	113	268	176	54	36	27	6.1	16
22	54	224	79	160	108	e208	136	50	35	23	8.3	17
23	57	365	113	179	104	e164	108	48	30	20	6.8	16
24	55	631	137	205	96	e132	91	45	28	18	8.8	15
25	52	575	203	210	91	117	81	42	27	17	14	13
26	49	457	283	186	106	104	77	42	29	18	16	12
27	50	357	356	159	117	95	74	40	42	18	20	11
28	71	280	407	139	119	90	71	38	41	22	18	11
29	82	222	349	125	---	e83	67	37	33	17	15	10
30	84	182	287	115	---	e82	64	35	43	17	12	10
31	70	---	233	107	---	81	---	35	---	18	17	---
Total	1,759	5,550	4,640	4,916	3,969	4,739	3,686	1,810	1,202	888	322.9	433.4
Mean	56.7	185	150	159	142	153	123	58.4	40.1	28.6	10.4	14.4
Max	98	631	407	213	235	359	260	98	70	58	20	34
Min	33	48	74	107	91	78	64	35	27	17	4.6	7.5
Cfsm	0.68	2.22	1.80	1.90	1.70	1.84	1.47	0.70	0.48	0.34	0.13	0.17
In.	0.79	2.48	2.07	2.20	1.77	2.12	1.65	0.81	0.54	0.40	0.14	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	84.7	88.9	102	130	133	139	104	68.8	61.2	60.8	62.9	79.3
Max	329	185	208	283	342	327	229	174	125	175	171	261
(WY)	(2000)	(2007)	(2006)	(2000)	(1998)	(1998)	(1998)	(2003)	(2003)	(1989)	(1991)	(2004)
Min	26.9	29.8	34.9	69.3	62.0	55.1	54.9	21.8	14.3	6.76	10.4	14.4
(WY)	(2002)	(2002)	(2002)	(1989)	(1989)	(2002)	(2006)	(2002)	(2002)	(2002)	(2007)	(2007)

02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1987 - 2007	
Annual total	33,564		33,915.3			
Annual mean	92.0		92.9		92.7	
Highest annual mean					146	2000
Lowest annual mean					34.6	2002
Highest daily mean	631	Nov 24	631	Nov 24	1,150	Oct 20, 1999
Lowest daily mean	19	Aug 29	4.6	Aug 15	1.0	Aug 14, 2002
Annual seven-day minimum	25	Aug 24	6.1	Aug 14	2.3	Aug 10, 2002
Maximum peak flow			678	Nov 24	^a 1,200	Sep 10, 2004
Maximum peak stage			4.84	Nov 24	5.52	Sep 10, 2004
Instantaneous low flow			4.2	Aug 15	^a 0.50	Aug 13, 2002
Annual runoff (cfsm)	1.10		1.12		1.11	
Annual runoff (inches)	14.99		15.15		15.12	
10 percent exceeds	166		201		174	
50 percent exceeds	68		71		72	
90 percent exceeds	33		12		27	

^a See Remarks.

