



Water-Data Report 2010

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

REVISED RECORDS.--WDR NC-04-1: 1998, 2000 (annual maximum discharge).

GAGE.--Water-stage recorder. Elevation of gage is 170 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

REMARKS.--Records 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. Minimum discharge for current water year also occurred September 26.

02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, 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	37	42	59	87	116	128	119	38	378	e60	e86	35
2	35	43	60	86	122	134	90	37	324	e54	e55	33
3	35	42	86	80	139	145	68	35	395	e50	e79	31
4	33	41	103	73	152	151	64	35	374	e40	e71	30
5	37	39	124	70	191	153	62	36	311	e36	41	28
6	50	38	142	69	333	145	60	35	259	e33	60	28
7	53	37	152	68	484	130	58	33	199	e29	79	27
8	49	37	136	75	547	113	56	28	104	e27	65	28
9	44	36	140	89	531	101	64	25	62	e28	55	29
10	42	39	153	87	479	95	70	24	51	e31	50	27
11	42	109	167	81	366	97	67	25	46	e40	43	25
12	43	159	179	79	326	103	60	27	41	e36	41	27
13	45	228	167	76	300	138	57	28	38	e37	38	26
14	44	273	141	73	249	139	52	25	35	e40	37	26
15	47	268	112	72	199	146	51	24	31	52	96	24
16	49	225	77	67	181	148	50	22	38	45	138	24
17	48	125	67	89	165	129	56	49	47	41	138	23
18	44	67	64	116	152	100	57	80	40	43	75	21
19	41	61	79	133	141	88	55	73	34	44	81	22
20	39	59	97	150	132	98	54	63	29	41	134	22
21	37	56	112	153	117	106	55	51	28	39	166	e21
22	36	53	109	162	100	103	57	45	27	37	154	e25
23	36	72	90	190	107	100	55	43	24	35	110	22
24	36	90	76	218	115	95	53	45	24	31	131	21
25	39	96	82	232	119	88	53	52	25	30	138	21
26	42	85	129	213	113	85	52	50	140	34	85	23
27	42	70	185	204	103	82	44	44	163	45	65	71
28	46	66	211	208	110	78	42	41	210	89	59	139
29	47	62	170	189	---	102	41	144	e151	136	51	191
30	45	60	126	159	---	119	39	266	e100	e135	43	595
31	43	---	93	124	---	131	---	287	---	e122	40	---
Total	1,306	2,678	3,688	3,772	6,189	3,570	1,761	1,810	3,728	1,540	2,504	1,665
Mean	42.1	89.3	119	122	221	115	58.7	58.4	124	49.7	80.8	55.5
Max	53	273	211	232	547	153	119	287	395	136	166	595
Min	33	36	59	67	100	78	39	22	24	27	37	21
Cfsm	0.51	1.07	1.43	1.46	2.65	1.38	0.70	0.70	1.49	0.60	0.97	0.67
In.	0.58	1.20	1.65	1.68	2.76	1.59	0.79	0.81	1.66	0.69	1.12	0.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	80.5	87.7	104	128	133	137	104	68.7	62.3	59.8	64.2	82.8
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 2009		Water Year 2010		Water Years 1987 - 2010	
Annual total	29,307		34,211			
Annual mean	80.3		93.7		92.5	
Highest annual mean					146	2000
Lowest annual mean					34.6	2002
Highest daily mean	361	Mar 4	595	Sep 30	1,150	Oct 20, 1999
Lowest daily mean	17	Jul 12	21	Sep 18	1.0	Aug 14, 2002
Annual seven-day minimum	19	Jul 7	22	Sep 18	2.3	Aug 10, 2002
Maximum peak flow			560	Feb 8	^a 1,200	Sep 10, 2004
Maximum peak stage			4.31	Feb 8	5.52	Sep 10, 2004
Instantaneous low flow			^a 19	Sep 25	^a 0.50	Aug 13, 2002
Annual runoff (cfsm)	0.964		1.13		1.11	
Annual runoff (inches)	13.09		15.28		15.09	
10 percent exceeds	139		183		172	
50 percent exceeds	67		64		72	
90 percent exceeds	32		28		27	

^a See Remarks.

