

Water-Data Report 2007

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC

Upper Pee Dee Basin
Rocky Subbasin

LOCATION.--Lat 35°20'05", long 80°20'08" referenced to North American Datum of 1983, Stanly County, NC, Hydrologic Unit 03040105, on left bank 300 ft downstream of Little Creek, 400 ft upstream from bridge on Secondary Road 1134, and 10 mi southwest of Richfield.

DRAINAGE AREA.--55.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1954 to current year.

REVISED RECORDS.--WSP 1503: 1955, 1956(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 426.62 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those below 1 ft³/s, which are poor. No flow occurs several days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1921 reached a stage of about 19 ft, information from State Highway Commission.

02125000 BIG BEAR CREEK NEAR RICHFIELD, 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	0.16	5.4	28	47	38	80	15	8.5	0.73	0.28	e0.03	0.00
2	0.12	3.8	27	50	115	2,030	18	7.9	0.68	0.16	0.02	0.00
3	0.07	3.4	22	37	81	197	16	7.3	3.0	0.12	0.00	0.00
4	0.05	2.8	20	34	53	99	14	6.6	2.4	e0.29	0.00	0.00
5	0.03	2.4	19	51	43	68	13	7.1	1.6	e0.35	0.00	0.00
6	0.06	2.3	18	226	35	54	12	8.3	1.3	e0.32	0.00	0.00
7	0.06	4.2	18	240	33	46	12	6.8	1.1	e0.44	0.00	0.00
8	0.18	55	17	679	30	40	11	6.0	0.87	e0.46	0.00	0.00
9	0.31	22	16	183	28	35	11	5.7	0.72	e0.91	0.00	0.00
10	0.16	11	16	96	25	32	11	5.7	0.67	e2.9	0.00	0.00
11	0.12	7.7	15	68	23	30	12	5.2	0.64	e2.3	0.00	0.00
12	0.08	171	15	54	22	27	87	6.1	0.67	e2.0	0.00	0.00
13	0.08	39	15	47	26	25	39	40	0.66	e1.8	0.00	0.00
14	0.06	19	15	41	408	24	25	11	0.63	e2.1	0.00	0.00
15	0.04	13	14	37	108	23	398	6.4	0.75	e2.2	0.00	0.00
16	0.03	850	14	34	69	38	296	4.7	0.78	16	0.00	0.00
17	46	134	13	29	51	51	84	3.7	0.71	3.6	0.00	0.00
18	132	49	13	28	43	33	50	3.1	0.58	2.0	0.00	0.00
19	17	27	13	33	35	27	37	2.7	0.43	2.2	0.00	0.00
20	8.2	18	13	29	33	25	31	3.0	0.35	2.4	0.00	0.00
21	4.8	166	12	27	33	23	25	2.3	0.39	1.4	0.00	0.00
22	3.3	3,130	74	173	31	21	21	1.9	0.16	0.82	0.00	0.00
23	2.7	346	142	87	27	20	18	1.7	0.09	0.63	0.00	0.00
24	1.6	128	58	59	24	20	16	1.6	0.06	0.17	0.00	0.00
25	1.0	67	553	46	84	18	15	1.4	1.1	e0.20	0.00	0.00
26	1.3	45	252	37	146	17	13	1.4	2.1	e0.17	0.00	0.00
27	1.6	34	98	34	70	16	13	1.3	0.77	e0.10	0.00	0.00
28	124	28	62	31	50	16	12	1.1	0.48	e0.09	0.00	0.00
29	24	25	47	27	---	15	11	1.0	0.21	e0.08	0.00	0.00
30	11	24	39	25	---	15	9.6	0.87	0.19	e0.07	0.00	0.00
31	7.0	---	37	23	---	14	---	0.85	---	e0.05	0.00	---
Total	387.11	5,433.0	1,715	2,612	1,764	3,179	1,345.6	171.22	24.82	46.61	0.05	0.00
Mean	12.5	181	55.3	84.3	63.0	103	44.9	5.52	0.83	1.50	0.00	0.00
Max	132	3,130	553	679	408	2,030	398	40	3.0	16	0.03	0.00
Min	0.03	2.3	12	23	22	14	9.6	0.85	0.06	0.05	0.00	0.00
Cfsm	0.22	3.26	1.00	1.52	1.13	1.84	0.81	0.10	0.01	0.03	0.00	0.00
In.	0.26	3.64	1.15	1.75	1.18	2.13	0.90	0.11	0.02	0.03	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	40.3	34.8	56.2	103	125	121	73.0	37.3	30.7	31.3	22.4	22.9
Max	355	212	186	357	284	345	335	240	296	220	223	248
(WY)	(1991)	(1986)	(1977)	(1998)	(1984)	(1993)	(2003)	(2003)	(2003)	(1984)	(1967)	(2004)
Min	0.01	0.34	2.12	4.38	15.7	13.2	6.87	1.32	0.24	0.01	0.00	0.00
(WY)	(1962)	(1962)	(1966)	(1981)	(2006)	(1981)	(1967)	(1986)	(1986)	(2002)	(2007)	(1993)

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1954 - 2007	
Annual total	10,582.81		16,678.41			
Annual mean	29.0		45.7		58.0	
Highest annual mean					174	2003
Lowest annual mean					17.6	2006
Highest daily mean	3,130	Nov 22	3,130	Nov 22	5,240	Oct 11, 1990
Lowest daily mean	0.00	Jul 27	0.00	Aug 3	0.00	Sep 12, 1954
Annual seven-day minimum	0.00	Jul 27	0.00	Aug 3	0.00	Sep 12, 1954
Maximum peak flow			5,580	Mar 2	11,400	Jul 23, 1997
Maximum peak stage			11.47	Mar 2	16.54	Jul 23, 1997
Instantaneous low flow			^a 0.00	Aug 2	^a 0.00	Sep 12, 1954
Annual runoff (cfsm)	0.521		0.822		1.04	
Annual runoff (inches)	7.08		11.16		14.17	
10 percent exceeds	42		69		115	
50 percent exceeds	7.1		8.5		11	
90 percent exceeds	0.12		0.00		0.40	

^a See Remarks

