

Water-Data Report 2008

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 National Geodetic Vertical Datum of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair except 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.

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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	0.00	0.00	0.00	20	147	14	19	33	1.4	0.23	0.54	12
2	0.00	0.00	0.00	11	85	12	22	20	0.96	0.07	0.29	8.2
3	0.00	0.00	0.00	7.5	28	9.7	17	14	0.72	0.01	0.10	5.9
4	0.00	0.00	0.00	5.5	18	32	34	11	0.63	0.00	0.04	4.2
5	0.00	0.00	0.00	4.4	13	221	162	8.7	0.54	0.00	0.01	3.1
6	0.00	0.00	0.00	3.6	11	59	122	7.0	0.48	0.00	0.00	21
7	0.00	0.00	0.00	3.2	9.2	122	60	5.7	0.42	0.00	0.00	15
8	0.00	0.00	0.00	2.7	7.7	300	40	5.0	0.37	0.20	0.00	9.6
9	0.00	0.00	0.00	2.5	6.5	113	31	5.2	0.35	1.8	0.00	7.9
10	0.00	0.00	0.00	2.1	5.5	54	25	5.1	0.30	0.84	0.00	26
11	0.00	0.00	0.00	2.3	4.8	36	21	5.1	0.24	2.3	0.00	61
12	0.00	0.00	0.00	2.3	4.6	29	19	9.3	0.24	0.69	0.00	30
13	0.00	0.00	0.00	2.2	5.5	23	18	6.0	0.23	0.33	0.00	19
14	0.00	0.00	0.00	1.8	13	18	15	4.4	0.18	0.20	0.00	13
15	0.00	0.00	0.01	1.6	14	160	14	3.9	0.12	0.09	0.00	10
16	0.00	0.00	0.20	1.4	11	303	12	4.7	0.08	0.01	0.00	323
17	0.00	0.00	0.09	14	8.7	75	11	4.2	0.04	0.00	0.00	112
18	0.00	0.00	0.05	43	15	46	11	3.4	0.00	0.00	0.00	38
19	0.00	0.00	0.03	21	14	38	9.9	4.8	0.00	0.00	0.00	20
20	0.00	0.00	0.02	25	10	86	13	5.6	0.00	0.00	0.00	13
21	0.00	0.00	0.03	15	8.6	46	19	11	0.00	0.00	0.00	9.7
22	0.00	0.00	0.02	11	9.5	33	14	6.7	0.01	0.49	0.00	7.9
23	0.00	0.00	0.05	9.8	12	27	12	4.3	2.3	110	0.00	6.3
24	0.00	0.00	0.06	8.1	9.9	23	11	3.2	0.91	11	0.00	5.7
25	0.00	0.00	0.05	6.4	8.6	19	10	2.5	0.37	4.2	0.00	4.4
26	0.01	0.00	1.0	5.2	19	17	76	2.0	0.22	1.9	2.4	23
27	0.00	0.00	3.0	4.4	64	15	176	1.6	0.08	0.98	1,560	89
28	0.00	0.00	3.4	4.0	30	14	650	1.7	0.02	0.59	76	45
29	0.00	0.00	2.6	3.4	18	14	271	2.3	6.0	0.39	24	22
30	0.00	0.00	35	3.3	---	13	69	2.0	0.48	0.19	73	14
31	0.00	---	51	3.3	---	14	---	1.6	---	0.10	30	---
Total	0.01	0.00	96.61	251.0	611.1	1,985.7	1,983.9	205.0	17.69	136.61	1,766.38	978.9
Mean	0.00	0.00	3.12	8.10	21.1	64.1	66.1	6.61	0.59	4.41	57.0	32.6
Max	0.01	0.00	51	43	147	303	650	33	6.0	110	1,560	323
Min	0.00	0.00	0.00	1.4	4.6	9.7	9.9	1.6	0.00	0.00	0.00	3.1
Cfsm	0.00	0.00	0.06	0.15	0.38	1.15	1.19	0.12	0.01	0.08	1.02	0.59
In.	0.00	0.00	0.06	0.17	0.41	1.33	1.33	0.14	0.01	0.09	1.18	0.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	39.5	34.2	55.2	102	123	119	72.9	36.7	30.1	30.8	23.1	23.0
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	0.00	0.00	2.12	4.38	15.7	13.2	6.87	1.32	0.24	0.01	0.00	0.00
(WY)	(2008)	(2008)	(1966)	(1981)	(2006)	(1981)	(1967)	(1986)	(1986)	(2002)	(2007)	(1993)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1954 - 2008	
Annual total	9,239.92		8,032.90			
Annual mean	25.3		21.9		57.3	
Highest annual mean					174	2003
Lowest annual mean					17.6	2006
Highest daily mean	2,030	Mar 2	1,560	Aug 27	5,240	Oct 11, 1990
Lowest daily mean	0.00	Aug 3	^a 0.00	Oct 1	^a 0.00	Sep 12, 1954
Annual seven-day minimum	0.00	Aug 3	0.00	Oct 1	0.00	Sep 12, 1954
Maximum peak flow			4,580	Aug 27	11,400	Jul 23, 1997
Maximum peak stage			10.34	Aug 27	16.54	Jul 23, 1997
Instantaneous low flow			^a 0.00	Oct 1	^a 0.00	Sep 12, 1954
Annual runoff (cfs)	0.455		0.395		1.03	
Annual runoff (inches)	6.18		5.37		14.01	
10 percent exceeds	48		38		113	
50 percent exceeds	0.73		2.5		11	
90 percent exceeds	0.00		0.00		0.37	

^aSee Remarks.