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Water-Data Report 2010

**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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--May 1954 to September 2010 (discontinued).

REVISED RECORDS.--WSP 1503: 1955, daily discharge; 1956, maximum and daily discharge. 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 streamgage.

REMARKS.--Records fair except those for estimated daily discharges and those below 1 ft<sup>3</sup>/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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## 02125000 BIG BEAR CREEK NEAR RICHFIELD, 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	0.22	16	26	54	62	40	42	4.8	180	5.6	0.59	1.8
2	0.19	4.5	269	43	235	42	32	4.4	69	2.7	0.61	1.5
3	0.20	1.6	452	35	373	85	26	4.2	55	1.8	0.58	1.1
4	0.15	0.80	99	31	201	78	23	4.2	27	1.3	0.42	0.82
5	0.17	0.52	64	29	2,300	54	20	4.9	18	0.99	2.4	0.68
6	0.22	0.45	47	51	715	44	18	3.6	17	0.77	5.8	0.64
7	0.23	0.39	37	26	200	39	16	3.0	38	0.65	2.1	0.61
8	0.17	0.36	e31	25	127	36	14	2.4	18	0.57	1.0	0.56
9	0.14	0.34	e1,500	22	100	34	14	1.9	13	0.51	0.68	0.51
10	0.13	13	168	20	90	31	12	1.8	10	0.64	0.58	0.48
11	0.10	1,370	77	24	69	32	11	1.9	8.7	0.71	0.43	0.46
12	0.11	495	53	20	59	57	10	2.3	7.5	2.0	0.22	0.47
13	0.15	214	53	19	60	515	9.1	2.2	6.8	4.0	0.11	0.46
14	0.16	77	53	18	63	196	8.7	2.3	12	2.4	0.06	0.41
15	0.17	45	45	18	65	113	8.4	1.8	24	1.5	0.05	0.41
16	0.16	32	38	18	70	73	8.1	1.5	9.1	0.88	0.04	0.29
17	0.16	24	31	679	54	57	8.4	9.3	6.8	1.5	0.03	0.13
18	0.15	21	55	206	47	49	7.8	102	5.4	7.4	0.02	0.10
19	0.13	21	376	102	42	42	7.8	36	4.6	2.6	247	0.06
20	0.13	19	136	71	39	36	7.6	15	4.0	1.4	775	0.05
21	0.12	17	74	115	35	33	7.3	9.2	3.5	1.1	25	0.04
22	0.12	16	54	240	89	45	6.6	39	3.0	0.76	11	0.04
23	0.12	241	44	113	95	37	6.4	16	2.6	0.52	123	0.02
24	0.15	119	37	100	88	30	6.1	11	2.7	3.3	25	0.00
25	0.16	63	917	2,950	101	28	9.1	16	2.2	4.8	25	0.00
26	0.13	43	307	215	70	27	9.7	13	2.0	1.7	11	0.02
27	0.19	80	122	115	56	24	7.4	9.6	1.7	1.8	6.7	0.47
28	2.7	47	78	82	47	23	6.6	6.3	1.5	1.9	4.9	0.50
29	0.60	34	56	65	---	369	5.9	7.1	1.4	1.6	4.0	0.69
30	0.40	28	44	68	---	134	5.3	6.1	3.3	0.95	2.9	e15
31	0.31	---	59	56	---	65	---	9.3	---	0.68	2.3	---
Total	8.24	3,043.96	5,402	5,630	5,552	2,468	374.3	352.1	557.8	59.03	1,278.52	28.32
Mean	0.27	101	174	182	198	79.6	12.5	11.4	18.6	1.90	41.2	0.94
Max	2.7	1,370	1,500	2,950	2,300	515	42	102	180	7.4	775	15
Min	0.10	0.34	26	18	35	23	5.3	1.5	1.4	0.51	0.02	0.00
Cfsm	0.00	1.82	3.13	3.27	3.57	1.43	0.22	0.20	0.33	0.03	0.74	0.02
In.	0.01	2.04	3.61	3.77	3.71	1.65	0.25	0.24	0.37	0.04	0.86	0.02

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	38.2	34.8	57.2	103	123	120	71.2	36.2	29.6	30.4	23.0	22.3
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)

**SUMMARY STATISTICS**

	<b>Calendar Year 2009</b>	<b>Water Year 2010</b>	<b>Water Years 1954 - 2010</b>	
<b>Annual total</b>	21,368.43	24,754.27		
<b>Annual mean</b>	58.5	67.8	56.9	
<b>Highest annual mean</b>			174	2003
<b>Lowest annual mean</b>			17.6	2006
<b>Highest daily mean</b>	2,250	Mar 1	2,950	Jan 25
<b>Lowest daily mean</b>	0.00	Sep 9	^0.00	Sep 24
<b>Annual seven-day minimum</b>	0.00	Sep 9	0.02	Sep 20
<b>Maximum peak flow</b>			9,080	Jan 25
<b>Maximum peak stage</b>			14.67	Jan 25
<b>Instantaneous low flow</b>			^0.00	Sep 24
<b>Annual runoff (cfsm)</b>	1.05	1.22	1.02	
<b>Annual runoff (inches)</b>	14.30	16.56	13.90	
<b>10 percent exceeds</b>	101	114	112	
<b>50 percent exceeds</b>	12	10	11	
<b>90 percent exceeds</b>	0.21	0.17	0.36	

<sup>a</sup> See Remarks.

