

Water-Data Report 2008

03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC

French Broad-Holston Basin
Pigeon Subbasin

LOCATION.--Lat 35°27'42", long 82°52'11" referenced to North American Datum of 1983, Haywood County, NC, Hydrologic Unit 06010106, on right bank 800 ft upstream from bridge on U.S. Highway 276, 0.3 mi downstream of Dix Creek, 1.6 mi upstream from confluence with West Fork Pigeon River, and 5.2 mi southwest of Canton.

DRAINAGE AREA.--51.5 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR NC-73-1: 1966(maximum discharge), 1972(maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 2,674.34 ft above NGVD of 1929 (Tennessee Valley Authority bench mark). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 6,000 ft³/s, on basis of slope-area measurement of peak flow. Minimum discharge for period of record and current water year also occurred August 9, 11-13.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	17	47	48	146	470	114	125	77	45	27	18	56
2	17	45	46	129	275	108	120	74	46	23	16	52
3	18	43	50	e122	208	103	124	72	43	22	15	46
4	24	42	45	e112	196	1,070	132	72	40	23	14	42
5	55	41	44	101	180	726	157	69	38	24	14	40
6	36	42	42	96	200	414	228	66	37	24	13	38
7	26	40	41	89	198	459	162	64	37	24	12	36
8	23	38	41	84	168	634	148	64	36	22	12	34
9	22	38	40	80	154	438	140	72	34	23	12	56
10	22	37	41	85	141	355	133	69	35	26	12	42
11	20	36	39	342	132	305	128	73	36	24	12	64
12	19	36	38	176	125	270	134	68	33	21	11	67
13	20	35	38	149	136	237	120	62	31	20	14	54
14	20	35	38	133	119	214	116	60	32	22	23	46
15	19	79	39	121	112	238	114	60	37	20	16	42
16	19	47	88	111	107	237	108	82	32	19	15	41
17	20	40	53	124	130	200	103	65	30	18	19	42
18	20	38	48	113	341	188	99	62	28	17	16	40
19	28	37	47	107	190	245	99	64	28	17	14	38
20	28	36	46	96	169	267	97	58	27	16	13	36
21	21	36	63	121	155	220	92	58	27	16	12	35
22	21	58	60	93	153	206	87	54	34	24	13	34
23	226	47	327	98	140	191	84	53	29	22	13	33
24	258	40	178	91	130	178	81	52	27	18	15	32
25	127	39	128	86	124	167	80	50	25	17	18	31
26	88	71	115	82	155	158	82	49	26	20	1,150	32
27	71	82	108	79	136	150	82	48	26	22	532	38
28	62	58	141	75	122	143	109	52	25	17	152	33
29	57	53	166	76	118	142	89	51	27	18	102	32
30	53	51	174	132	---	134	81	47	26	19	75	31
31	49	---	182	100	---	128	---	44	---	17	62	---
Total	1,506	1,367	2,554	3,549	4,984	8,639	3,454	1,911	977	642	2,435	1,243
Mean	48.6	45.6	82.4	114	172	279	115	61.6	32.6	20.7	78.5	41.4
Max	258	82	327	342	470	1,070	228	82	46	27	1,150	67
Min	17	35	38	75	107	103	80	44	25	16	11	31
Cfs/m	0.94	0.88	1.60	2.22	3.34	5.41	2.24	1.20	0.63	0.40	1.53	0.80
In.	1.09	0.99	1.84	2.56	3.60	6.24	2.49	1.38	0.71	0.46	1.76	0.90

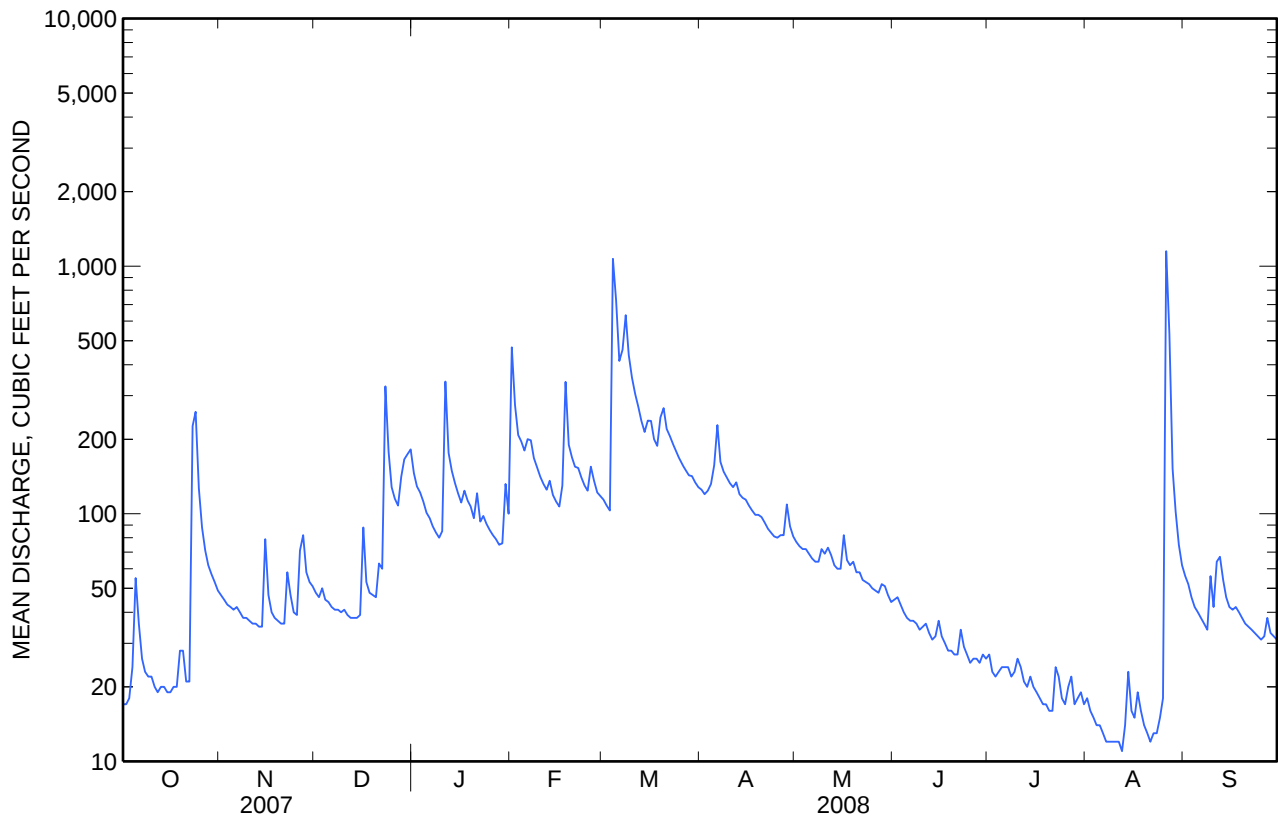
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	106	132	147	166	197	227	200	150	114	76.1	76.9	97.7
Max	363	484	337	444	517	541	480	453	339	277	263	1,057
(WY)	(1965)	(1980)	(1962)	(1998)	(1998)	(1979)	(1957)	(1976)	(1967)	(2005)	(1994)	(2004)
Min	17.1	27.9	42.4	33.8	71.9	60.9	63.2	59.8	32.6	20.7	25.1	16.0
(WY)	(1955)	(1955)	(1956)	(1956)	(1986)	(1988)	(1986)	(1986)	(2008)	(2008)	(2002)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1954 - 2008	
Annual total	28,442		33,261			
Annual mean	77.9		90.9		141	
Highest annual mean					207	
Lowest annual mean					71.9	
Highest daily mean	894	Jan 1	1,150	Aug 26	6,200	Sep 8, 2004
Lowest daily mean	16	Aug 21	11	Aug 12	11	Aug 12, 2008
Annual seven-day minimum	18	Sep 7	12	Aug 6	12	Aug 6, 2008
Maximum peak flow			5,470	Aug 26	^a 12,900	Sep 17, 2004
Maximum peak stage			7.48	Aug 26	13.05	Sep 17, 2004
Instantaneous low flow			^a 11	Aug 8	^a 11	Aug 8, 2008
Annual runoff (cfs)	1.51		1.76		2.74	
Annual runoff (inches)	20.54		24.03		37.23	
10 percent exceeds	143		181		262	
50 percent exceeds	50		52		99	
90 percent exceeds	21		19		35	

^aSee Remarks.

03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC—Continued**CLIMATOLOGICAL RECORDS**

PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Blue Ridge Paper Products, Inc. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.59	0.01	0.01	0.00	0.10	0.00	0.00	0.02
2	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.01	0.00	0.01	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00
4	0.38	0.00	0.00	0.00	0.13	1.49	0.24	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.01	0.00	0.61	0.00	0.00	0.00	0.00	0.00
6	0.00	0.08	0.00	0.00	0.34	0.00	0.05	0.00	0.00	0.06	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.51	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.25	0.01	0.06	0.00	0.20
9	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.10	0.01	0.24	0.02	0.17
10	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.02	0.12	0.12	0.00	0.08
11	0.00	0.00	0.00	0.18	0.00	0.00	0.06	0.26	0.00	0.00	0.00	0.16
12	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.05	0.01	0.00
14	0.00	0.34	0.00	0.00	0.00	0.18	0.01	0.00	0.18	0.00	0.15	0.00
15	0.00	0.39	0.75	0.00	0.00	1.16	0.01	0.06	0.00	0.00	0.00	0.01
16	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.43	0.02
17	0.00	0.00	0.00	0.12	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
19	0.26	0.00	0.00	0.00	0.00	0.75	0.04	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.07	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
21	0.00	0.15	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.07	0.29	0.03	0.15	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
23	0.46	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
24	0.68	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00
25	0.01	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	1.12	0.00
26	0.00	0.20	0.24	0.00	0.58	0.00	0.00	0.00	0.29	0.30	5.23	0.31
27	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.15	0.00
28	0.00	0.00	0.52	0.00	0.00	0.00	0.30	0.20	0.29	0.13	0.22	0.00
29	0.00	0.00	0.00	0.43	0.10	0.24	0.02	0.00	0.01	0.02	0.01	0.00
30	0.00	0.00	0.52	0.12	---	0.00	0.00	0.00	0.35	0.00	0.00	0.00
31	0.00	---	0.00	0.43	---	0.00	---	0.03	---	0.15	0.00	---
Total	1.87	1.46	2.82	2.69	2.86	4.56	1.98	1.10	1.90	1.16	7.34	0.97

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