

Water-Data Report 2007

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(M), 1972(M).

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 also occurred December 11, 1981, result of freezeup, and October 9, 1994. Minimum discharge for current water year also occurred August 21, 23, 24, September 12-14, 30.

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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	65	82	540	894	103	204	97	70	48	39	32	39
2	62	82	301	429	103	575	95	70	48	37	29	28
3	60	75	231	328	96	251	86	76	47	37	29	24
4	58	73	197	276	91	195	104	109	45	34	32	22
5	56	70	176	309	e90	167	88	90	42	33	33	21
6	57	68	161	310	87	150	85	92	41	35	28	19
7	54	95	150	299	89	138	84	80	39	38	27	19
8	56	168	137	520	85	129	81	76	39	37	25	18
9	57	110	131	361	82	122	80	75	38	32	24	18
10	52	100	126	304	79	117	78	73	36	33	24	17
11	51	99	120	266	78	112	80	71	36	33	23	17
12	55	98	114	242	77	106	99	81	36	37	22	17
13	48	90	113	219	83	103	81	87	42	31	20	17
14	47	86	107	200	97	100	80	73	41	31	19	120
15	46	227	102	187	77	98	143	70	50	31	18	95
16	46	738	98	175	73	238	114	69	48	33	17	35
17	284	331	95	162	73	160	104	67	40	38	23	28
18	157	245	92	155	71	140	101	64	47	44	18	25
19	102	202	89	148	70	132	101	62	74	32	17	23
20	124	176	87	139	70	127	97	61	53	30	17	22
21	98	157	87	144	101	122	93	59	40	28	16	24
22	91	147	447	168	83	116	89	57	36	28	18	26
23	84	135	260	138	73	112	86	55	35	30	17	23
24	79	127	187	131	71	107	84	57	46	29	23	21
25	76	120	266	127	115	103	82	54	40	30	42	20
26	73	114	255	120	103	100	80	52	52	31	36	20
27	86	108	208	118	91	97	84	50	57	33	30	19
28	140	105	185	115	86	95	77	49	45	36	24	18
29	96	102	167	107	---	94	75	48	44	36	32	18
30	89	229	156	107	---	92	73	46	41	33	32	17
31	85	---	421	103	---	89	---	45	---	45	80	---
Total	2,534	4,559	5,806	7,301	2,397	4,491	2,701	2,088	1,326	1,054	827	830
Mean	81.7	152	187	236	85.6	145	90.0	67.4	44.2	34.0	26.7	27.7
Max	284	738	540	894	115	575	143	109	74	45	80	120
Min	46	68	87	103	70	89	73	45	35	28	16	17
Cfsm	1.59	2.95	3.64	4.57	1.66	2.81	1.75	1.31	0.86	0.66	0.52	0.54
In.	1.83	3.29	4.19	5.27	1.73	3.24	1.95	1.51	0.96	0.76	0.60	0.60

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

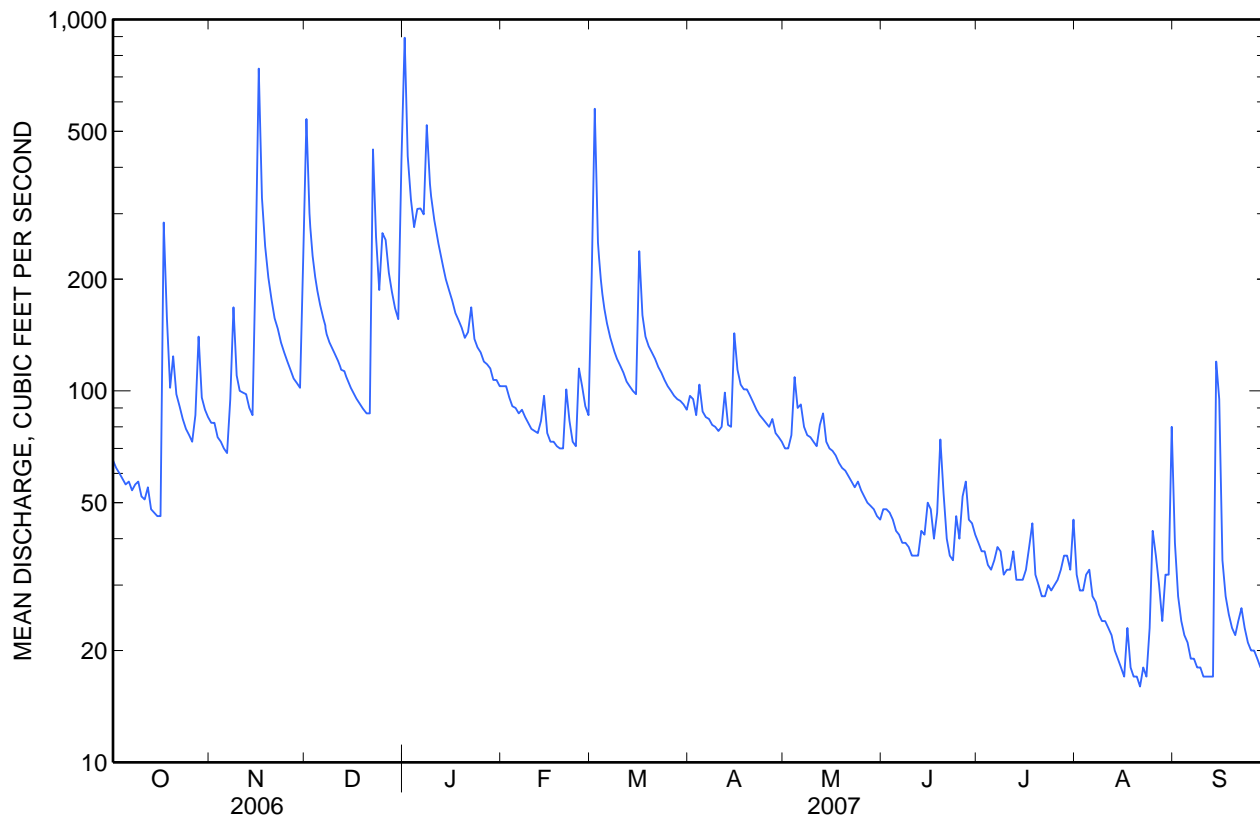
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	108	133	149	167	198	226	202	152	116	77.1	76.9	98.7
Max	363	484	337	444	517	541	480	453	339	277	263	1,057
(WY)	(1965)	(1980)	(1962)	(1998)	(1998)	(1979)	(1957)	(1976)	(1967)	(2005)	(1994)	(2004)
Min	17.1	27.9	42.4	33.8	71.9	60.9	63.2	59.8	35.7	25.3	25.1	16.0
(WY)	(1955)	(1955)	(1956)	(1956)	(1986)	(1988)	(1986)	(1986)	(1988)	(1986)	(2002)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1954 - 2007	
Annual total	42,121		35,914			
Annual mean	115		98.4		142	
Highest annual mean					207	2004
Lowest annual mean					71.9	1988
Highest daily mean	738	Nov 16	894	Jan 1	6,200	Sep 8, 2004
Lowest daily mean	28	Jun 21	16	Aug 21	13	Sep 13, 1998
Annual seven-day minimum	31	Jun 15	18	Sep 7	13	Sep 12, 1998
Maximum peak flow			1,870	Jan 1	^a 12,900	Sep 17, 2004
Maximum peak stage			4.16	Jan 1	13.05	Sep 17, 2004
Instantaneous low flow			^a 16	Aug 20	^a 12	Jan 9, 1956
Annual runoff (cfsm)	2.24		1.91		2.76	
Annual runoff (inches)	30.43		25.94		37.48	
10 percent exceeds	205		190		264	
50 percent exceeds	88		80		100	
90 percent exceeds	45		24		36	

^a See Remarks.



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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 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.17	0.23	---	---	---	---	---	0.34	0.00	0.00	0.00
2	0.00	0.01	0.00	---	---	---	---	---	0.00	0.00	0.10	0.00
3	0.00	0.00	0.00	---	---	---	---	---	0.03	0.00	0.00	0.00
4	0.00	0.00	0.00	---	---	---	---	---	0.00	0.00	0.01	0.02
5	0.00	0.00	0.00	---	---	---	---	---	0.02	0.00	0.00	0.00
6	0.12	0.00	0.00	---	---	---	---	---	0.02	0.00	0.11	0.00
7	0.00	0.67	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00
8	0.05	0.01	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00
9	0.01	0.00	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00
11	0.10	0.22	---	---	---	---	---	0.01	0.00	0.14	0.00	0.00
12	0.01	0.02	---	---	---	---	---	0.01	0.01	0.00	0.00	0.00
13	0.00	0.00	---	---	---	---	---	0.00	0.01	0.02	0.00	0.00
14	0.00	0.00	---	---	---	---	---	0.00	0.03	0.00	0.00	1.69
15	0.00	1.16	---	---	---	---	---	0.00	0.47	0.00	0.00	0.01
16	0.09	0.08	---	---	---	---	---	0.02	0.24	0.00	0.00	0.00
17	1.03	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	---	---	---	---	---	0.00	0.23	0.00	0.00	0.00
19	0.20	0.00	---	---	---	---	---	0.00	0.16	0.00	0.00	0.00
20	0.02	0.00	---	---	---	---	---	0.00	0.02	0.03	0.00	0.00
21	0.00	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.03
22	0.00	0.00	---	---	---	---	---	0.00	0.00	0.02	0.00	0.00
23	0.00	0.00	---	---	---	---	---	0.00	0.00	0.00	0.13	0.00
24	0.00	0.00	---	---	---	---	---	0.00	0.01	0.04	0.13	0.00
25	0.00	0.00	---	---	---	---	---	0.00	0.02	0.45	0.64	0.00
26	0.00	0.00	---	---	---	---	---	0.00	0.04	0.00	0.26	0.00
27	0.35	0.00	---	---	---	---	---	0.00	0.44	0.01	0.00	0.00
28	0.01	0.00	---	---	---	---	---	0.00	0.46	0.41	0.15	0.00
29	0.00	0.00	---	---	---	---	---	0.00	0.08	0.01	0.10	0.00
30	0.00	0.02	---	---	---	---	---	0.00	0.01	0.24	0.14	0.00
31	0.00	---	---	---	---	---	---	0.00	---	0.01	0.10	---
Total	1.99	2.36	---	---	---	---	---	---	2.64	1.38	1.87	1.75

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