



Water-Data Report 2010

**0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC**

French Broad-Holston Basin  
Pigeon Subbasin

LOCATION.--Lat 35°25'36", long 82°55'11" referenced to North American Datum of 1983, Haywood County, NC, Hydrologic Unit 06010106, on right bank at upstream side of bridge on North Carolina Highway 215, and 1.6 mi southwest of Retreat.

DRAINAGE AREA.--33.5 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--March 1988 to current year.

REVISED RECORDS.--WRD NC-04-1: 1990-1994 (annual maximum discharge), 1996 (annual maximum discharge).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,839 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Some low flow regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for period of record from rating curve extended above 4,000 ft<sup>3</sup>/s on basis of computation of peak flow over dam at Lake Logan. Maximum gage-height for period of record from high-water mark at gage. Minimum discharge for current water year also occurred September 28.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	99	291	128	153	144	89	133	82	79	49	33	22
2	92	179	399	133	226	92	125	88	61	46	30	21
3	87	154	287	119	184	87	118	195	65	45	29	22
4	79	138	209	116	167	82	111	125	57	42	30	25
5	139	126	188	112	450	79	106	106	60	40	34	26
6	99	116	169	108	379	77	101	96	56	37	32	25
7	92	109	158	105	256	76	96	92	51	36	29	25
8	80	102	160	97	223	79	138	85	48	35	28	25
9	77	97	476	92	205	83	138	80	49	35	27	24
10	80	208	245	90	182	91	108	79	55	35	26	24
11	73	669	208	87	167	129	101	81	50	33	28	24
12	85	346	193	84	160	227	97	80	72	53	36	24
13	87	264	309	83	148	199	93	76	52	55	40	25
14	86	225	233	81	138	137	90	75	49	45	47	24
15	112	198	206	79	136	119	87	78	50	36	35	24
16	107	179	186	79	124	110	84	73	79	43	32	23
17	94	166	173	348	118	109	81	82	86	92	31	23
18	89	493	192	183	113	103	78	71	57	50	38	23
19	82	278	172	138	109	102	76	66	51	46	35	25
20	83	221	153	141	106	101	77	64	48	42	30	26
21	80	198	145	216	105	216	84	64	45	38	94	26
22	75	186	140	199	130	450	75	66	43	39	81	26
23	97	183	137	156	121	186	72	61	50	45	42	26
24	301	164	138	506	112	161	92	57	50	37	34	26
25	121	153	815	540	102	152	214	60	70	36	31	26
26	103	143	361	272	96	147	108	58	67	39	29	26
27	180	135	263	223	96	134	107	55	91	34	28	22
28	267	129	215	195	92	202	97	53	100	32	27	27
29	150	124	180	185	---	207	89	51	63	32	26	32
30	133	133	165	182	---	158	86	50	54	31	25	52
31	188	---	165	156	---	143	---	88	---	31	23	---
<b>Total</b>	3,517	6,107	7,168	5,258	4,589	4,327	3,062	2,437	1,808	1,289	1,090	769
<b>Mean</b>	113	204	231	170	164	140	102	78.6	60.3	41.6	35.2	25.6
<b>Max</b>	301	669	815	540	450	450	214	195	100	92	94	52
<b>Min</b>	73	97	128	79	92	76	72	50	43	31	23	21

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	80.2	107	128	158	166	176	138	111	94.1	69.2	69.0	93.9
<b>Max</b>	262	265	239	314	360	309	268	244	261	252	220	732
<b>(WY)</b>	(1996)	(1993)	(1993)	(1996)	(1990)	(1990)	(1994)	(2003)	(2005)	(2005)	(1994)	(2004)
<b>Min</b>	18.5	34.7	52.1	83.4	71.8	62.6	71.1	48.1	34.3	30.6	24.7	17.3
<b>(WY)</b>	(1999)	(1999)	(1989)	(2004)	(2009)	(1988)	(2007)	(2001)	(2008)	(2008)	(1998)	(1998)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1988 - 2010	
<b>Annual total</b>	46,373		41,421			
<b>Annual mean</b>	127		113		117	
<b>Highest annual mean</b>					159	2005
<b>Lowest annual mean</b>					69.4	2001
<b>Highest daily mean</b>	1,030	Sep 21	815	Dec 25	3,630	Sep 8, 2004
<b>Lowest daily mean</b>	22	Sep 14	21	Sep 2	15	Sep 27, 1998
<b>Annual seven-day minimum</b>	25	Sep 3	23	Aug 29	16	Sep 11, 1998
<b>Maximum peak flow</b>			1,500	Jan 24	<sup>a</sup> 15,600	Sep 17, 2004
<b>Maximum peak stage</b>			4.26	Jan 24	<sup>a</sup> 14.15	Sep 17, 2004
<b>Instantaneous low flow</b>			<sup>a</sup> 19	Sep 27	12	Jul 19, 2001
<b>10 percent exceeds</b>	226		208		220	
<b>50 percent exceeds</b>	102		89		82	
<b>90 percent exceeds</b>	32		28		29	

<sup>a</sup> See Remarks.

