

Water-Data Report 2007

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 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WRD NC-04-1: 1990-1994(M), 1996(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,839 ft above NGVD 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 ft³/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.

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	48	66	348	428	79	188	81	53	36	32	34	47
2	46	74	159	179	84	396	88	51	44	30	30	29
3	44	64	124	150	73	165	72	53	37	30	32	24
4	43	60	109	136	67	133	89	103	37	28	27	23
5	41	58	100	173	63	118	73	78	33	26	27	23
6	42	57	94	194	65	111	68	89	32	27	58	23
7	40	78	87	199	69	103	65	66	31	58	38	23
8	40	159	76	371	66	96	63	61	30	45	30	24
9	41	86	78	214	64	91	63	59	30	36	26	25
10	39	75	77	180	61	86	62	56	29	55	25	25
11	39	74	74	162	59	83	63	55	28	59	24	25
12	50	78	71	153	62	80	79	66	27	61	23	25
13	39	68	75	143	74	77	63	76	27	38	23	27
14	37	64	69	133	99	76	64	58	28	34	22	150
15	36	233	64	123	65	75	138	55	42	32	24	96
16	37	435	62	121	58	330	92	53	35	31	24	36
17	358	182	61	110	59	154	80	52	29	37	24	28
18	173	144	58	109	58	121	75	49	71	36	24	25
19	95	125	57	107	56	114	73	48	81	31	24	23
20	145	112	56	97	59	106	69	46	43	28	24	22
21	94	101	57	110	131	103	67	44	33	26	24	22
22	81	97	269	161	88	96	65	43	29	25	23	23
23	73	91	131	115	71	100	62	42	27	27	23	22
24	68	85	89	105	68	76	60	45	48	26	23	21
25	65	80	130	98	111	82	60	41	37	27	22	22
26	62	75	123	91	98	79	60	40	40	29	22	22
27	80	72	93	92	80	76	70	38	42	30	22	22
28	154	69	85	88	76	74	58	37	37	30	22	24
29	84	69	79	75	---	74	56	36	40	31	23	26
30	74	207	76	81	---	72	54	35	41	45	23	26
31	70	---	278	73	---	69	---	34	---	54	56	---
Total	2,338	3,238	3,309	4,571	2,063	3,604	2,132	1,662	1,124	1,104	846	953
Mean	75.4	108	107	147	73.7	116	71.1	53.6	37.5	35.6	27.3	31.8
Max	358	435	348	428	131	396	138	103	81	61	58	150
Min	36	57	56	73	56	69	54	34	27	25	22	21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	83.4	109	124	163	174	180	143	112	98.1	73.8	73.0	97.7
Max	262	265	239	314	360	309	268	244	261	252	220	732
(WY)	(1996)	(1993)	(1993)	(1996)	(1990)	(1990)	(1994)	(2003)	(2005)	(2005)	(1994)	(2004)
Min	18.5	34.7	52.1	83.4	73.7	62.6	71.1	48.1	37.5	31.3	24.7	17.3
(WY)	(1999)	(1999)	(1989)	(2004)	(2007)	(1988)	(2007)	(2001)	(2007)	(1993)	(1998)	(1998)

034577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1988 - 2007	
Annual total	29,922		26,944			
Annual mean	82.0		73.8		121	
Highest annual mean					159	2005
Lowest annual mean					69.4	2001
Highest daily mean	435	Nov 16	435	Nov 16	3,630	Sep 8, 2004
Lowest daily mean	25	Aug 1	21	Sep 24	15	Sep 27, 1998
Annual seven-day minimum	28	Jul 28	22	Sep 20	16	Sep 11, 1998
Maximum peak flow			1,460	Nov 15	^a 15,600	Sep 17, 2004
Maximum peak stage			4.22	Nov 15	^a 14.15	Sep 17, 2004
Instantaneous low flow			20	Aug 25	12	Jul 19, 2001
10 percent exceeds	144		133		226	
50 percent exceeds	65		62		83	
90 percent exceeds	37		25		31	

^a See Remarks.

