

Water-Data Report 2008

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(maximum discharge), 1996(maximum discharge).

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. Minimum discharge for current water year also occurred on August 21, 22, 25.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	26	32	43	112	328	92	94	66	48	28	32	52
2	26	32	42	92	154	88	89	63	49	26	32	50
3	26	30	54	77	124	87	89	61	44	26	33	43
4	26	29	45	80	146	570	108	60	41	25	34	36
5	25	28	41	77	144	308	166	57	39	25	35	32
6	23	29	38	74	179	190	200	55	38	25	34	31
7	23	28	38	68	162	251	127	54	36	26	33	30
8	23	27	37	66	127	334	112	53	36	25	33	28
9	23	27	38	63	112	200	104	67	35	26	32	81
10	23	26	40	73	101	173	97	77	34	30	30	50
11	23	26	37	336	93	156	93	78	34	26	29	48
12	23	25	35	131	92	140	109	75	33	25	28	61
13	23	25	37	108	97	128	89	65	32	29	27	56
14	23	26	42	95	85	124	84	60	36	31	26	39
15	23	94	40	83	79	183	83	60	41	31	25	33
16	23	45	112	77	77	188	80	91	34	31	25	32
17	29	35	60	92	106	141	76	67	31	33	23	33
18	31	32	49	87	240	133	74	64	29	39	21	41
19	26	31	47	78	119	228	74	71	28	38	20	30
20	25	31	46	65	103	223	72	61	29	36	20	25
21	25	30	64	63	99	168	68	61	30	36	18	24
22	26	76	59	75	109	152	66	55	36	38	19	23
23	29	54	268	82	100	140	64	53	31	35	20	21
24	323	41	115	69	90	129	62	59	29	35	19	21
25	102	39	83	59	88	121	61	52	27	37	19	20
26	61	106	78	65	142	114	63	50	27	34	478	20
27	49	97	78	60	116	112	62	47	29	32	396	32
28	43	61	126	58	94	103	121	48	29	29	125	28
29	39	51	145	62	94	105	83	48	33	30	87	24
30	36	47	175	114	---	100	70	46	32	30	65	22
31	33	---	164	75	---	96	---	44	---	31	56	---
Total	1,259	1,260	2,276	2,716	3,600	5,277	2,740	1,868	1,030	948	1,874	1,066
Mean	40.6	42.0	73.4	87.6	124	170	91.3	60.3	34.3	30.6	60.5	35.5
Max	323	106	268	336	328	570	200	91	49	39	478	81
Min	23	25	35	58	77	87	61	44	27	25	18	20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	81.3	105	122	159	171	179	140	109	95.1	71.8	72.4	94.7
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	34.3	30.6	24.7	17.3
(WY)	(1999)	(1999)	(1989)	(2004)	(2007)	(1988)	(2007)	(2001)	(2008)	(2008)	(1998)	(1998)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1988 - 2008	
Annual total	22,854		25,914			
Annual mean	62.6		70.8		118	
Highest annual mean					159	
Lowest annual mean					69.4	
Highest daily mean	428	Jan 1	570	Mar 4	3,630	Sep 8, 2004
Lowest daily mean	21	Sep 24	18	Aug 21	15	Sep 27, 1998
Annual seven-day minimum	22	Sep 20	19	Aug 19	16	Sep 11, 1998
Maximum peak flow			4,020	Aug 26	^a 15,600	Sep 17, 2004
Maximum peak stage			6.45	Aug 26	^a 14.15	Sep 17, 2004
Instantaneous low flow			^a 17	Aug 13	12	Jul 19, 2001
10 percent exceeds	114		132		221	
50 percent exceeds	45		50		81	
90 percent exceeds	24		25		30	

^aSee Remarks.