

Water-Data Report 2008

03456100 WEST FORK PIGEON RIVER AT BETHEL, NC

French Broad-Holston Basin
Pigeon Subbasin

LOCATION.--Lat 35°27'50", long 82°54'00" referenced to North American Datum of 1983, Haywood County, NC, Hydrologic Unit 06010106, on left bank 20 ft downstream of bridge on Secondary Road 1112, 0.6 mi southwest of Bethel, 1.6 mi upstream from confluence with East Fork Pigeon River, and 5.6 mi downstream of Lake Logan.

DRAINAGE AREA.--58.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1981 to current year.

REVISED RECORDS.--WDR NC-04-1: 1983(maximum discharge), 1994(maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 2,667.78 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Considerable regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for period of record from rating curve extended above 7,000 ft³/s on basis of slope-area measurement of peak flow. Maximum gage height for period of record from high-water mark in gage. Minimum discharge for current water year also occurred August 22, 23, 24, 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	37	45	59	145	445	123	131	96	65	37	39	57
2	37	45	56	121	230	118	126	91	67	33	37	54
3	37	43	71	101	178	115	124	89	61	31	37	48
4	41	41	62	104	189	857	141	87	58	31	40	42
5	44	39	56	100	189	501	202	84	54	31	41	38
6	35	42	53	96	222	298	256	82	53	31	40	37
7	34	41	51	90	220	354	171	80	52	32	40	36
8	33	38	50	85	173	471	153	78	50	30	40	34
9	33	38	51	82	154	300	143	96	48	33	39	72
10	33	36	54	91	140	261	136	103	47	38	38	55
11	32	36	50	409	132	234	131	106	45	34	36	52
12	32	36	47	172	127	212	147	104	44	30	36	59
13	32	35	49	141	132	194	127	92	43	33	34	57
14	32	36	55	126	119	185	119	87	46	38	35	45
15	32	115	53	111	111	254	118	85	57	36	33	39
16	31	65	133	103	107	284	115	117	46	35	35	39
17	36	48	80	119	125	217	110	94	42	36	36	40
18	42	44	64	115	330	203	107	89	39	41	31	44
19	37	43	62	104	169	296	106	98	37	43	28	37
20	34	42	59	90	148	320	104	85	37	39	27	33
21	33	41	80	89	142	240	99	86	37	39	26	32
22	33	95	77	97	145	218	96	79	46	42	25	31
23	46	77	297	107	138	199	94	76	40	42	27	30
24	359	56	151	93	125	184	92	81	37	38	25	29
25	140	53	110	78	121	173	90	75	34	41	27	28
26	87	116	102	86	176	163	93	72	34	43	875	29
27	70	127	102	80	153	157	90	69	37	39	661	40
28	61	82	146	75	126	147	152	71	36	35	145	36
29	55	69	188	79	126	147	117	70	41	36	100	32
30	51	63	198	147	---	141	100	66	40	37	75	30
31	48	---	210	103	---	135	---	64	---	36	64	---
Total	1,687	1,687	2,876	3,539	4,892	7,701	3,790	2,652	1,373	1,120	2,772	1,235
Mean	54.4	56.2	92.8	114	169	248	126	85.5	45.8	36.1	89.4	41.2
Max	359	127	297	409	445	857	256	117	67	43	875	72
Min	31	35	47	75	107	115	90	64	34	30	25	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	95.3	131	167	198	236	250	210	162	117	91.7	89.4	108
Max	336	341	334	450	522	461	481	381	316	290	317	1,057
(WY)	(1996)	(1993)	(1984)	(1998)	(1998)	(1997)	(1983)	(2003)	(2005)	(2005)	(1994)	(2004)
Min	30.5	43.0	83.5	53.5	97.9	83.6	83.5	75.5	45.8	36.1	29.3	27.6
(WY)	(1999)	(1982)	(1989)	(1981)	(2007)	(1988)	(1986)	(2007)	(2008)	(2008)	(1993)	(1998)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1981 - 2008	
Annual total	31,208		35,324			
Annual mean	85.5		96.5		156	
Highest annual mean					224	
Lowest annual mean					87.5	
Highest daily mean	651	Jan 1	875	Aug 26	5,720	Sep 17, 2004
Lowest daily mean	28	Aug 14	25	Aug 22	9.2	Sep 2, 1986
Annual seven-day minimum	29	Aug 14	26	Aug 19	16	Sep 2, 1986
Maximum peak flow			6,460	Aug 26	^a 19,000	Sep 17, 2004
Maximum peak stage			9.63	Aug 26	^a 16.27	Sep 17, 2004
Instantaneous low flow			^a 24	Aug 21	4.2	Sep 5, 1986
10 percent exceeds	151		186		297	
50 percent exceeds	62		66		108	
90 percent exceeds	33		33		43	

^aSee Remarks.