

Water-Data Report 2008

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC

French Broad-Holston Basin
Pigeon Subbasin

LOCATION.--Lat 35°47'01", long 83°06'43" referenced to North American Datum of 1983, Haywood County, NC, Hydrologic Unit 06010106, on left bank, 550 ft upstream of Browns Bridge on Waterville Road, 0.9 mi downstream of North Carolina and Tennessee state lines, 1.0 mi northwest of Waterville, and at river mile 25.

DRAINAGE AREA.--538 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1997 to current year.

REVISED RECORDS.--WDR NC-04-1: 1997(maximum discharge), 1998(maximum discharge), 2003(maximum discharge).

GAGE.--Water-stage recorder. Elevation of gage is 1,360 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable regulation, caused by Walters Hydroelectric Plant, 1.0 mi upstream. Maximum discharge for period of record from rating curve extended above 11,000 ft³/s on basis of slope-conveyance measurement of peak flow. Minimum discharge for period of record and current water year affected by regulation.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	159	139	366	675	1,850	415	837	696	242	490	291	256
2	147	166	141	1,070	1,560	675	851	730	191	486	469	526
3	138	151	187	767	858	1,720	1,220	268	511	481	163	516
4	135	147	401	869	1,470	2,620	1,090	699	697	177	153	548
5	147	141	268	420	1,840	5,900	256	256	507	451	324	142
6	158	150	205	238	1,730	2,710	1,840	604	203	186	146	139
7	159	253	235	425	1,320	2,510	1,660	769	500	184	147	141
8	159	193	195	545	1,700	2,300	1,410	810	180	429	136	143
9	209	212	244	436	463	1,960	892	680	179	200	147	460
10	171	172	457	733	980	1,780	1,430	757	481	e546	147	394
11	172	164	312	2,120	1,420	1,930	1,250	774	530	273	144	180
12	176	151	432	1,710	830	1,950	934	494	593	519	209	139
13	174	140	275	596	1,320	1,500	285	670	200	206	143	138
14	163	130	189	866	659	632	1,160	689	497	238	146	136
15	144	429	314	771	630	1,330	546	836	199	e531	144	234
16	133	611	631	713	366	1,790	618	605	190	191	141	145
17	115	198	511	1,030	935	1,420	1,280	732	483	180	140	290
18	115	167	506	284	1,660	1,260	596	290	485	178	137	204
19	114	166	354	244	1,570	1,970	353	601	484	440	194	151
20	114	165	341	514	1,180	2,410	271	570	170	166	136	147
21	114	162	264	883	915	1,490	899	612	487	164	131	146
22	134	350	302	503	874	1,750	668	619	196	328	132	145
23	129	203	584	228	266	1,360	627	294	169	173	130	142
24	163	385	1,130	546	800	1,560	627	702	487	161	130	165
25	191	305	719	740	1,250	778	463	367	476	160	130	158
26	143	350	227	734	1,200	710	606	315	521	418	318	136
27	315	333	499	413	1,020	692	1,010	573	208	159	2,740	141
28	133	415	1,570	710	925	1,280	528	605	492	160	548	146
29	363	368	1,510	511	724	603	1,330	734	193	357	498	144
30	202	456	1,090	410	---	868	747	542	191	164	504	142
31	286	---	1,020	1,090	---	761	---	588	---	187	170	---
Total	5,175	7,372	15,479	21,794	32,315	50,634	26,284	18,481	10,942	8,983	9,088	6,494
Mean	167	246	499	703	1,114	1,633	876	596	365	290	293	216
Max	363	611	1,570	2,120	1,850	5,900	1,840	836	697	546	2,740	548
Min	114	130	141	228	266	415	256	256	169	159	130	136

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2008, BY WATER YEAR (WY)

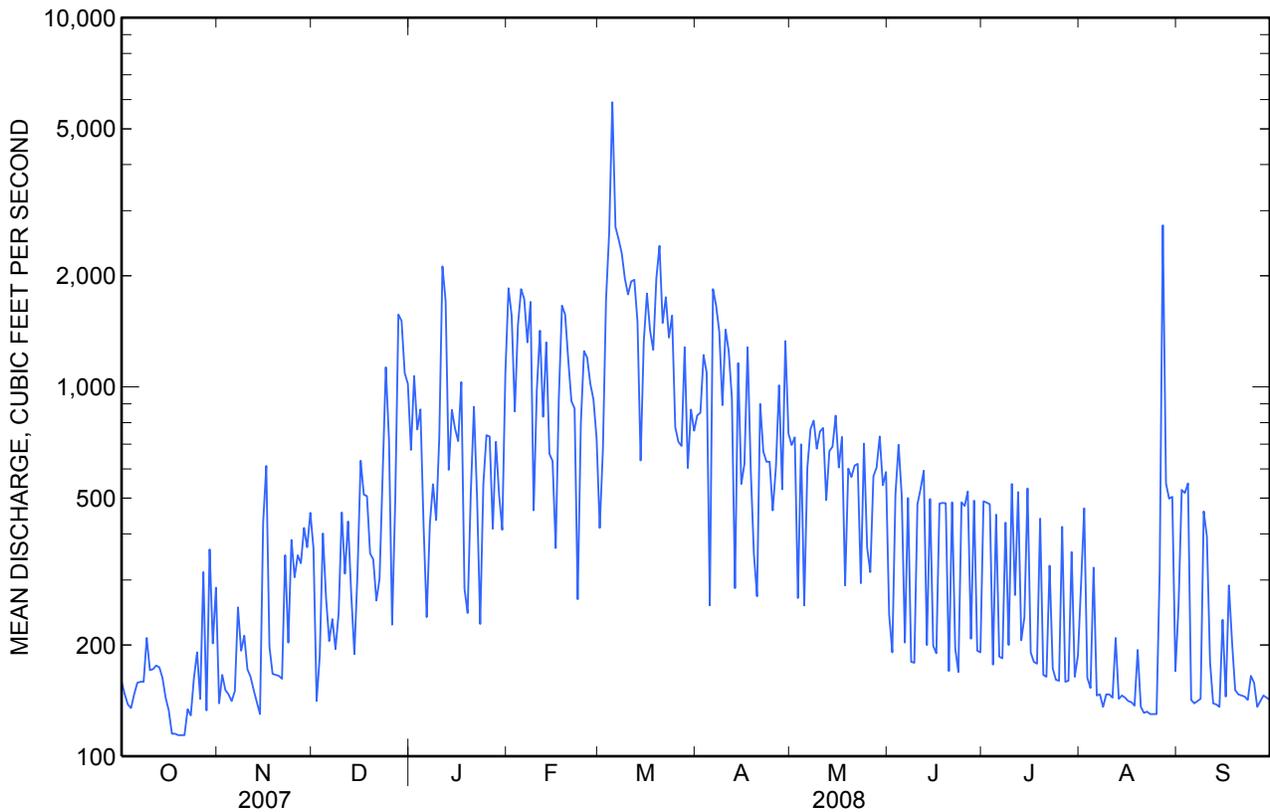
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	505	745	949	1,240	1,409	1,572	1,446	1,146	829	782	569	792
Max	1,462	1,677	2,133	2,187	3,096	3,505	2,540	2,835	1,742	1,860	1,203	4,517
(WY)	(2005)	(2005)	(2005)	(1998)	(1998)	(1997)	(1998)	(2003)	(2005)	(2005)	(2005)	(2004)
Min	153	246	499	703	656	762	785	483	365	290	293	172
(WY)	(1999)	(2008)	(2008)	(2008)	(2007)	(2006)	(2007)	(2007)	(2008)	(2008)	(2008)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1997 - 2008	
Annual total	202,109		213,041			
Annual mean	554		582		972	
Highest annual mean					1,553	2005
Lowest annual mean					582	2008
Highest daily mean	3,260	Jan 1	5,900	Mar 5	22,500	Sep 8, 2004
Lowest daily mean	114	Oct 19	114	Oct 19	74	Nov 19, 2000
Annual seven-day minimum	119	Oct 17	119	Oct 17	117	Oct 2, 1998
Maximum peak flow			11,500	Mar 5	^a 39,000	Sep 17, 2004
Maximum peak stage			11.48	Mar 5	18.88	Sep 17, 2004
Instantaneous low flow			^a 105	Aug 8	^a 24	Jun 23, 2002
10 percent exceeds	1,180		1,380		1,920	
50 percent exceeds	466		419		752	
90 percent exceeds	152		143		177	

^aSee Remarks.



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Water years 1997 to current year.

DISSOLVED OXYGEN: Water years 1997 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1997.

REMARKS.--Data were collected during the current year for the months of May through September 2008.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 25.5°C, August 27, 2007; minimum recorded, 6.8°C, June 2, 2001.

DISSOLVED OXYGEN: Maximum recorded, 15.8 mg/L, July 21, 2007; minimum recorded, 3.1 mg/L, November 1, 1998.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 24.6°C, August 23; minimum recorded, 16.6°C, May 30.

DISSOLVED OXYGEN: Maximum recorded, 9.6 mg/L, June 12; minimum recorded, 4.2 mg/L, July 8.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
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03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	18.2	17.5	17.8	22.3	20.0	21.2	22.5	20.4	21.4	21.7	20.0	20.5
2	19.4	17.2	18.2	22.7	20.4	21.6	23.6	20.9	22.1	21.7	20.1	20.7
3	18.6	17.4	17.9	22.6	20.9	21.8	23.7	21.7	22.5	21.6	20.3	20.8
4	19.1	17.8	18.3	22.3	21.3	21.7	23.8	21.5	22.5	21.4	20.1	20.7
5	19.6	18.2	18.7	22.6	21.1	21.8	24.2	22.1	23.0	21.8	20.1	20.9
6	20.2	18.5	19.2	22.7	21.4	21.9	24.4	22.7	23.4	21.2	20.0	20.5
7	20.1	18.5	19.0	23.1	21.1	21.9	23.8	22.7	23.2	21.9	20.1	20.8
8	20.6	18.7	19.6	22.8	21.5	22.1	23.9	22.5	23.0	21.8	20.3	20.9
9	20.8	18.8	19.6	22.2	21.3	21.8	24.1	22.0	23.0	21.4	20.7	21.0
10	20.7	18.8	19.5	22.5	20.3	21.4	24.1	22.3	23.0	21.6	20.7	21.1
11	21.4	19.3	19.8	22.2	20.1	21.0	24.3	22.3	23.1	21.8	20.8	21.3
12	20.9	19.0	19.9	22.9	20.5	21.6	24.1	22.0	23.0	22.3	20.9	21.4
13	20.9	19.4	20.2	22.2	21.1	21.6	24.2	22.6	23.2	22.3	20.8	21.4
14	20.7	19.5	20.1	22.6	20.7	21.5	24.4	22.6	23.2	22.3	20.9	21.5
15	21.6	19.8	20.6	22.8	20.6	21.6	24.2	22.4	23.1	21.5	21.0	21.2
16	21.8	19.7	20.6	22.8	20.9	21.8	23.7	22.5	23.0	21.2	20.7	20.9
17	21.7	20.2	20.8	23.1	21.1	22.0	24.3	22.4	23.2	21.7	20.6	21.1
18	21.7	19.8	20.8	23.3	21.1	22.1	24.0	22.5	23.1	22.0	20.6	21.2
19	21.8	19.9	20.9	23.5	21.4	22.3	24.2	22.3	23.1	21.9	20.5	21.1
20	21.4	20.1	20.9	23.6	21.9	22.7	24.4	22.6	23.3	21.9	20.5	21.0
21	21.9	20.5	21.2	24.0	22.0	22.8	24.5	22.6	23.3	21.8	20.5	21.0
22	22.2	20.5	21.3	23.7	21.9	22.7	24.3	22.8	23.4	21.8	20.4	20.9
23	22.6	20.4	21.3	23.6	21.9	22.6	24.6	22.9	23.5	21.7	20.2	20.8
24	22.4	20.6	21.4	23.5	21.6	22.5	24.2	22.8	23.4	21.5	20.0	20.6
25	22.5	20.8	21.7	22.9	22.0	22.4	23.7	23.0	23.3	21.0	19.9	20.5
26	22.3	19.6	21.5	23.4	22.1	22.7	23.1	19.4	22.4	20.3	20.1	20.2
27	22.3	19.6	20.8	23.9	22.4	23.0	21.9	20.1	20.9	20.6	20.0	20.2
28	22.9	20.6	21.6	24.2	22.2	23.0	20.5	19.6	20.1	20.7	20.0	20.2
29	22.2	21.3	21.7	24.2	22.0	23.0	20.9	19.3	19.9	20.8	19.5	20.0
30	22.1	20.7	21.2	24.2	22.5	23.2	21.0	19.5	20.1	20.5	19.3	19.9
31	---	---	---	23.1	21.3	22.6	21.2	19.7	20.4	---	---	---
Month	22.9	17.2	20.2	24.2	20.0	22.1	24.6	19.3	22.6	22.3	19.3	20.8

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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
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03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
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31	---	---	---	---	---	---	---	---	---	8.9	7.8	8.2
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03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	9.2	8.1	8.5	8.3	5.8	7.1	7.8	7.0	7.4	7.5	6.4	6.9
2	9.4	8.0	8.6	7.9	5.5	6.6	7.6	5.3	6.7	7.6	5.2	6.5
3	9.2	7.5	8.2	7.6	5.4	6.2	7.5	6.1	6.7	7.5	5.6	6.3
4	9.0	7.5	8.0	7.7	5.9	6.8	7.6	6.0	6.7	7.4	5.5	6.2
5	9.1	7.4	8.0	7.2	5.2	6.4	7.2	5.2	6.3	8.0	6.1	6.8
6	8.9	7.2	8.0	7.7	6.0	6.8	7.3	5.5	6.3	7.6	6.6	7.0
7	8.2	7.1	7.5	8.1	6.6	7.2	7.2	5.7	6.2	8.2	6.7	7.2
8	8.8	6.8	7.8	7.9	4.2	6.3	7.3	5.3	6.0	8.3	6.8	7.3
9	9.0	7.4	8.1	8.4	5.0	7.1	6.8	5.5	6.0	7.9	6.0	6.8
10	9.1	7.3	8.0	8.5	5.2	7.0	6.8	5.4	5.9	8.2	5.8	6.9
11	9.2	7.5	8.2	8.9	7.1	8.0	7.3	5.4	6.0	8.3	6.0	7.2
12	9.6	6.8	8.4	7.7	5.3	6.4	7.0	5.3	5.8	8.1	6.6	7.2
13	8.4	6.9	7.7	7.3	6.1	6.7	6.6	5.3	5.7	8.2	6.5	7.1
14	7.9	6.4	7.2	8.0	6.8	7.3	6.9	5.3	5.9	8.2	6.4	7.0
15	8.0	6.9	7.4	7.7	5.4	6.6	7.2	5.5	6.2	7.6	5.5	6.6
16	8.0	6.8	7.3	8.0	6.4	7.1	7.2	5.6	6.2	7.8	6.5	6.9
17	7.9	6.3	7.1	8.0	6.7	7.2	7.3	5.6	6.3	8.2	5.9	6.9
18	8.1	6.3	7.3	7.6	6.2	6.9	7.3	5.6	6.3	8.3	6.3	7.1
19	8.0	6.3	7.1	7.3	5.2	6.1	7.4	5.5	6.1	8.0	6.6	7.2
20	8.0	6.8	7.3	7.4	5.7	6.5	7.1	5.5	6.1	8.3	6.8	7.3
21	7.9	6.3	7.0	7.2	5.4	6.3	7.4	5.7	6.3	8.4	7.0	7.4
22	8.0	6.7	7.3	7.1	5.3	6.1	7.4	5.4	6.3	8.5	7.0	7.4
23	8.2	7.0	7.5	7.2	5.1	6.2	7.7	5.7	6.3	8.6	7.1	7.5
24	8.0	6.1	7.0	7.5	5.6	6.5	7.3	5.6	6.2	8.6	7.0	7.5
25	7.9	5.8	6.6	6.9	5.6	6.3	6.9	5.5	5.9	8.7	7.0	7.6
26	7.7	5.6	6.6	6.6	5.2	6.0	8.3	5.6	6.2	7.6	7.1	7.3
27	8.8	7.1	7.7	7.5	5.4	6.4	7.4	6.2	6.9	8.2	7.1	7.5
28	8.1	6.2	7.1	7.0	5.2	5.9	7.7	6.8	7.3	8.2	7.1	7.5
29	7.8	6.5	7.2	7.2	5.2	5.8	7.6	6.3	7.0	8.5	7.2	7.6
30	8.3	6.9	7.6	7.4	5.4	6.4	7.4	6.0	6.6	8.6	7.3	7.7
31	---	---	---	7.2	6.0	6.4	7.3	6.4	6.8	---	---	---
Month	9.6	5.6	7.6	8.9	4.2	6.6	8.3	5.2	6.3	8.7	5.2	7.1