

Water-Data Report 2011

**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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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

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

GAGE.--Water-stage recorder. Elevation of gage is 1,360 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

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 ft<sup>3</sup>/s on basis of slope-conveyance measurement of peak flow. Minimum discharge for period of record and current water year affected by regulation.

## 03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	268	575	5,190	1,250	643	2,600	1,220	830	611	650	409	467
2	377	477	2,810	1,550	2,010	1,520	910	1,300	657	666	493	143
3	317	232	1,870	1,790	1,480	1,700	1,040	1,180	153	178	487	708
4	417	551	1,170	1,650	1,830	1,770	1,580	1,210	501	612	500	702
5	231	512	287	1,290	1,310	1,750	3,620	1,330	477	657	171	754
6	223	424	1,040	1,060	1,020	3,830	2,940	1,010	452	641	505	1,740
7	387	384	931	913	1,210	3,950	1,650	954	483	621	351	1,140
8	219	561	697	437	689	2,700	1,540	822	476	1,110	327	618
9	199	372	942	612	1,080	3,210	1,570	864	510	698	606	549
10	200	438	780	1,450	1,040	5,690	1,200	994	220	921	490	535
11	352	303	270	787	946	4,170	1,740	907	543	623	481	161
12	188	300	314	561	691	2,860	1,270	863	667	959	143	573
13	730	219	1,140	612	666	2,680	1,120	948	752	655	473	223
14	289	192	978	689	631	2,260	913	1,190	530	573	153	354
15	246	188	767	558	765	2,340	1,700	204	665	1,420	352	375
16	215	301	637	380	692	1,780	4,040	1,230	1,830	568	504	190
17	211	296	756	780	558	1,470	3,360	641	575	550	469	152
18	520	173	597	557	559	1,660	2,670	694	854	550	475	145
19	197	140	473	414	456	1,040	2,490	584	3,360	605	149	189
20	212	127	1,070	797	538	984	2,430	563	3,350	646	509	396
21	201	177	986	422	545	1,680	2,050	763	1,550	547	166	481
22	191	186	996	765	1,100	1,450	1,330	713	978	736	178	380
23	274	641	812	617	1,170	1,400	666	502	1,620	525	511	597
24	199	483	324	655	1,170	1,640	770	541	1,680	199	480	508
25	630	265	231	938	412	1,260	1,490	576	1,090	970	470	299
26	456	e198	853	1,350	585	716	1,380	753	990	1,040	151	408
27	1,100	e413	1,290	1,390	613	588	1,420	803	751	504	459	479
28	1,100	e382	1,260	602	1,550	1,140	1,790	537	525	547	143	297
29	697	e1,140	919	712	---	1,290	1,740	719	991	516	142	341
30	582	2,030	1,260	157	---	1,530	1,150	576	514	739	471	152
31	444	---	257	508	---	1,240	---	507	---	176	466	---
<b>Total</b>	11,872	12,680	31,907	26,253	25,959	63,898	52,789	25,308	28,355	20,402	11,684	14,056
<b>Mean</b>	383	423	1,029	847	927	2,061	1,760	816	945	658	377	469
<b>Max</b>	1,100	2,030	5,190	1,790	2,010	5,690	4,040	1,330	3,360	1,420	606	1,740
<b>Min</b>	188	127	231	157	412	588	666	204	153	176	142	143

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2011, BY WATER YEAR (WY)**

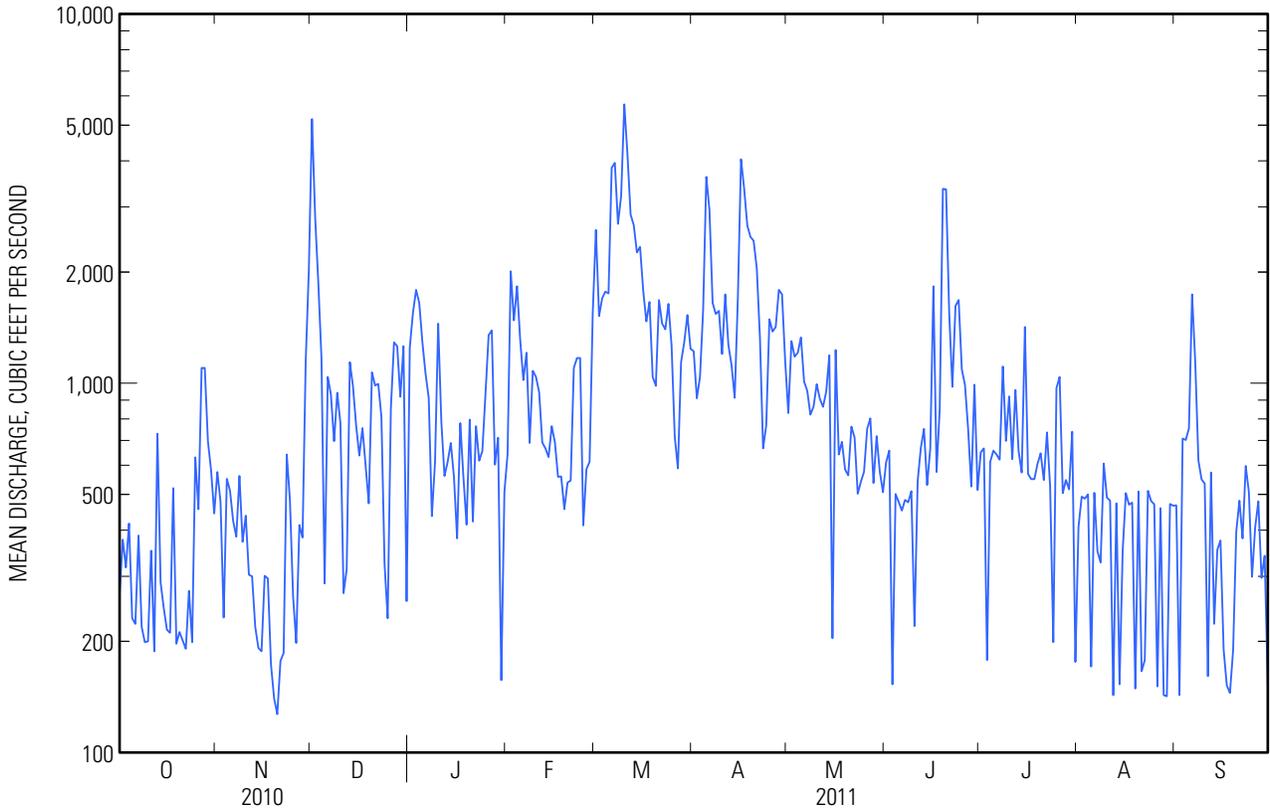
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	505	768	1,068	1,255	1,370	1,560	1,422	1,136	826	727	535	763
<b>Max</b>	1,462	1,898	2,440	2,187	3,096	3,505	2,540	2,835	1,742	1,860	1,203	4,517
<b>(WY)</b>	(2005)	(2010)	(2010)	(1998)	(1998)	(1997)	(1998)	(2003)	(2005)	(2005)	(2005)	(2004)
<b>Min</b>	153	234	499	703	593	762	785	483	365	290	293	172
<b>(WY)</b>	(1999)	(2009)	(2008)	(2008)	(2009)	(2006)	(2007)	(2007)	(2008)	(2008)	(2008)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1997 - 2011	
<b>Annual total</b>	338,998		325,163			
<b>Annual mean</b>	929		891		972	
<b>Highest annual mean</b>					1,553	2005
<b>Lowest annual mean</b>					582	2008
<b>Highest daily mean</b>	8,610	Jan 25	5,690	Mar 10	22,500	Sep 8, 2004
<b>Lowest daily mean</b>	127	Nov 20	127	Nov 20	74	Nov 19, 2000
<b>Annual seven-day minimum</b>	155	Sep 19	200	Nov 16	117	Oct 2, 1998
<b>Maximum peak flow</b>			8,660	Dec 1	<sup>a</sup> 39,000	Sep 17, 2004
<b>Maximum peak stage</b>			10.46	Dec 1	18.88	Sep 17, 2004
<b>Instantaneous low flow</b>			<sup>a</sup> 105	Jan 14	<sup>a</sup> 24	Jun 23, 2002
<b>10 percent exceeds</b>	1,840		1,720		1,910	
<b>50 percent exceeds</b>	661		641		747	
<b>90 percent exceeds</b>	190		203		178	

<sup>a</sup> See Remarks.



**03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued**

**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 June through September.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 25.5°C, August 27, 2007, August 13, 2010; 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, 25.2°C, August 12; minimum recorded, 15.6°C, June 21.

DISSOLVED OXYGEN: Maximum recorded, 9.7 mg/L, July 9, 10, 11; minimum recorded, 4.9 mg/L, September 4.

**TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

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 2010 TO SEPTEMBER 2011

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 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
<b>1</b>	20.2	18.0	19.1	20.8	18.7	19.5	24.7	22.2	23.1	24.1	23.0	23.5
<b>2</b>	20.4	18.3	19.4	21.0	18.8	19.8	24.3	22.6	23.2	24.5	23.0	23.7
<b>3</b>	21.3	19.4	20.1	21.8	19.5	20.5	24.3	22.1	23.2	24.2	22.8	23.5
<b>4</b>	20.7	18.6	19.4	21.2	19.4	20.1	24.3	22.9	23.5	24.3	23.5	23.9
<b>5</b>	20.9	18.9	19.9	20.9	19.4	20.0	24.6	23.0	23.7	24.3	18.8	23.4
<b>6</b>	21.6	19.1	20.3	20.9	19.8	20.2	24.5	22.5	23.4	22.1	17.3	20.0
<b>7</b>	21.5	19.3	20.2	20.8	19.2	20.0	24.5	23.1	23.6	22.2	17.8	21.0
<b>8</b>	21.5	19.5	20.5	---	18.3	---	25.1	23.4	24.0	21.9	17.2	19.1
<b>9</b>	21.0	19.8	20.6	20.7	18.4	19.6	24.7	23.4	23.9	21.4	19.5	20.4
<b>10</b>	21.7	18.6	20.1	21.2	18.4	19.8	24.8	23.2	23.9	21.5	19.0	20.0
<b>11</b>	21.8	19.4	20.4	21.7	19.1	20.3	24.8	23.2	24.0	20.8	19.1	19.8
<b>12</b>	21.8	20.2	20.9	21.7	19.4	20.6	25.2	23.3	24.1	21.4	19.2	20.2
<b>13</b>	21.5	19.2	20.4	22.3	19.4	20.7	24.6	23.0	23.8	21.1	19.8	20.4
<b>14</b>	21.0	19.7	20.4	22.3	20.4	21.2	25.0	23.4	23.9	21.2	19.6	20.3
<b>15</b>	21.0	18.8	20.1	21.2	16.8	19.1	24.0	22.8	23.3	21.1	19.9	20.3
<b>16</b>	20.6	17.4	20.0	20.9	17.0	18.6	24.2	22.7	23.4	20.4	19.4	19.9
<b>17</b>	20.2	16.5	18.6	21.4	17.1	18.8	24.2	22.7	23.4	20.6	19.2	19.7
<b>18</b>	20.3	17.2	19.3	21.5	17.8	19.6	24.2	23.0	23.6	20.6	19.0	19.7
<b>19</b>	18.5	16.6	17.3	21.8	18.6	20.3	24.7	23.0	23.7	20.2	18.9	19.6
<b>20</b>	18.3	16.0	17.8	22.0	20.5	21.2	24.1	22.7	23.4	20.2	19.3	19.7
<b>21</b>	18.9	15.6	17.3	22.6	21.0	21.5	24.0	22.8	23.4	20.4	19.7	20.0
<b>22</b>	19.2	16.4	17.6	22.4	21.1	21.6	24.3	22.7	23.3	20.3	19.4	19.8
<b>23</b>	19.0	16.9	18.2	23.1	20.8	21.6	24.0	22.1	23.1	20.2	19.7	20.0
<b>24</b>	19.3	16.7	18.5	22.9	21.0	21.9	24.0	22.4	23.3	20.3	19.4	19.8
<b>25</b>	19.3	16.5	17.9	22.5	21.1	21.8	24.2	22.9	23.6	20.4	19.1	19.7
<b>26</b>	19.3	16.8	18.0	22.8	20.4	21.7	24.9	23.2	23.8	20.5	19.5	20.0
<b>27</b>	19.5	17.0	18.2	23.1	19.9	21.7	24.0	23.1	23.5	20.6	19.8	20.2
<b>28</b>	19.7	17.7	18.6	23.2	21.3	22.2	24.4	22.7	23.4	20.5	19.2	19.8
<b>29</b>	20.1	18.1	19.2	23.5	21.7	22.6	23.9	22.2	22.9	20.3	19.2	19.7
<b>30</b>	20.4	17.6	19.0	23.9	22.4	23.0	23.8	22.1	23.0	20.2	18.6	19.5
<b>31</b>	---	---	---	24.2	22.6	23.3	24.0	22.7	23.4	---	---	---
<b>Month</b>	21.8	15.6	19.2	---	16.8	---	25.2	22.1	23.5	24.5	17.2	20.6

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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
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24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

## 03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	9.5	8.0	8.3	8.7	7.3	8.0	8.5	5.9	7.2	7.8	5.7	6.4
2	9.3	7.7	8.1	8.7	7.2	7.8	8.3	5.8	6.9	7.9	6.3	6.8
3	9.4	7.6	8.4	8.7	7.5	8.1	8.1	5.7	6.8	7.8	5.1	6.2
4	9.3	7.4	7.9	8.8	7.1	7.8	7.6	5.7	6.7	7.0	4.9	5.8
5	9.2	7.1	8.0	8.7	7.2	7.8	8.1	6.5	7.1	8.6	5.0	5.9
6	8.9	6.9	7.9	8.6	7.2	7.8	7.8	5.9	6.7	9.1	5.6	7.3
7	8.8	7.0	7.6	8.6	7.1	7.8	8.0	6.0	6.8	8.7	5.6	6.7
8	8.6	6.8	7.5	9.1	6.4	---	7.7	5.4	6.7	9.2	6.0	7.8
9	8.4	6.6	7.5	9.7	7.5	8.8	7.2	5.2	6.2	7.6	6.2	7.1
10	9.1	7.2	8.1	9.7	6.9	8.5	7.6	5.3	6.3	8.2	6.1	7.2
11	8.2	6.4	7.4	9.7	6.8	8.3	7.6	5.3	6.2	8.3	7.3	7.6
12	8.1	6.5	7.4	9.0	6.3	7.5	7.7	6.2	6.7	8.2	6.2	7.1
13	8.5	6.9	7.8	8.7	5.9	7.4	8.0	5.7	6.5	7.9	7.0	7.3
14	8.2	6.9	7.4	7.9	5.5	6.9	7.9	6.1	6.8	7.9	6.4	7.1
15	8.3	6.9	7.4	---	---	---	7.8	5.7	6.8	8.0	6.2	7.2
16	8.8	6.8	7.3	8.8	6.8	8.1	7.8	5.4	6.3	8.4	7.1	7.6
17	9.3	7.1	8.0	8.9	6.6	8.0	7.8	5.5	6.2	8.6	7.3	7.7
18	8.7	7.0	7.7	8.8	6.5	7.8	8.0	5.5	6.2	8.7	7.1	7.8
19	9.0	8.2	8.7	8.4	6.2	7.5	8.0	6.1	6.8	8.4	6.8	7.6
20	9.2	7.9	8.2	8.1	6.5	7.1	7.7	5.6	6.4	8.3	6.5	7.4
21	9.4	7.7	8.5	8.1	6.5	7.2	8.5	6.3	6.9	8.4	6.5	7.2
22	9.2	7.5	8.4	8.5	6.5	7.3	8.3	6.5	7.2	8.3	6.8	7.4
23	9.1	7.8	8.4	8.6	6.9	7.7	8.1	5.7	6.7	8.2	6.6	7.2
24	9.1	7.7	8.2	8.5	7.4	7.9	8.0	5.8	6.5	8.3	6.5	7.3
25	9.3	7.7	8.5	8.5	6.4	7.4	8.0	5.7	6.4	8.3	7.1	7.5
26	9.3	7.6	8.5	9.3	6.1	7.7	7.9	5.6	6.5	7.9	6.4	7.2
27	9.2	7.6	8.5	9.3	6.3	7.8	7.4	5.4	6.0	8.1	6.6	7.1
28	9.1	7.9	8.5	8.6	6.5	7.4	7.9	6.4	6.9	8.4	7.0	7.4
29	8.7	7.3	8.1	8.5	6.2	7.4	8.2	6.6	7.2	8.6	6.8	7.5
30	9.1	7.5	8.3	8.4	5.9	6.9	8.0	5.7	6.6	8.6	7.3	7.8
31	---	---	---	8.5	6.2	7.5	7.9	5.9	6.5	---	---	---
Month	9.5	6.4	8.0	---	---	---	8.5	5.2	6.6	9.2	4.9	7.2