Water-Data Report 2012

03459500 PIGEON RIVER NEAR HEPCO, NC

French Broad-Holston Basin
Pigeon Subbasin

LOCATION.--Lat 35°38′06″, long 82°59′24″ referenced to North American Datum of 1983, Haywood County, NC, Hydrologic Unit 06010106, on left bank 95 ft east of Interstate Highway 40, 0.8 mi downstream of Jonathan Creek, 2.0 mi south of Hepco, 2.4 mi upstream from Fines Creek, and at river mile 45.1.

DRAINAGE AREA.--350 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928-31, daily and maximum discharges; 1932, maximum discharge; 1933-36, daily discharge; 1935-39, maximum discharge.

GAGE.--Water-stage recorder and crest stage gage. Datum of gage is 2,335.95 ft above National Geodetic Vertical Datum of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. Regulation by Lake Junaluska on Richland Creek and Lake Logan (station 03455773) on West Fork Pigeon River for periods at low flow, combined capacity of reservoirs, about 2,000 ft^3/s-day. Maximum discharge for period of record, from rating curve extended above 12,000 ft^3/s on basis of slope-conveyance measurement of peak flow. Minimum discharge for period of record also occurred August 24, 2008.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1876 and February 1902 reached a stage of about 18 ft, from flood profiles by Tennessee Valley Authority; discharge, about 42,000 ft^3/s.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 03459500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/03459500.2012.pdf

03459500 PIGEON RIVER NEAR HEPCO, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

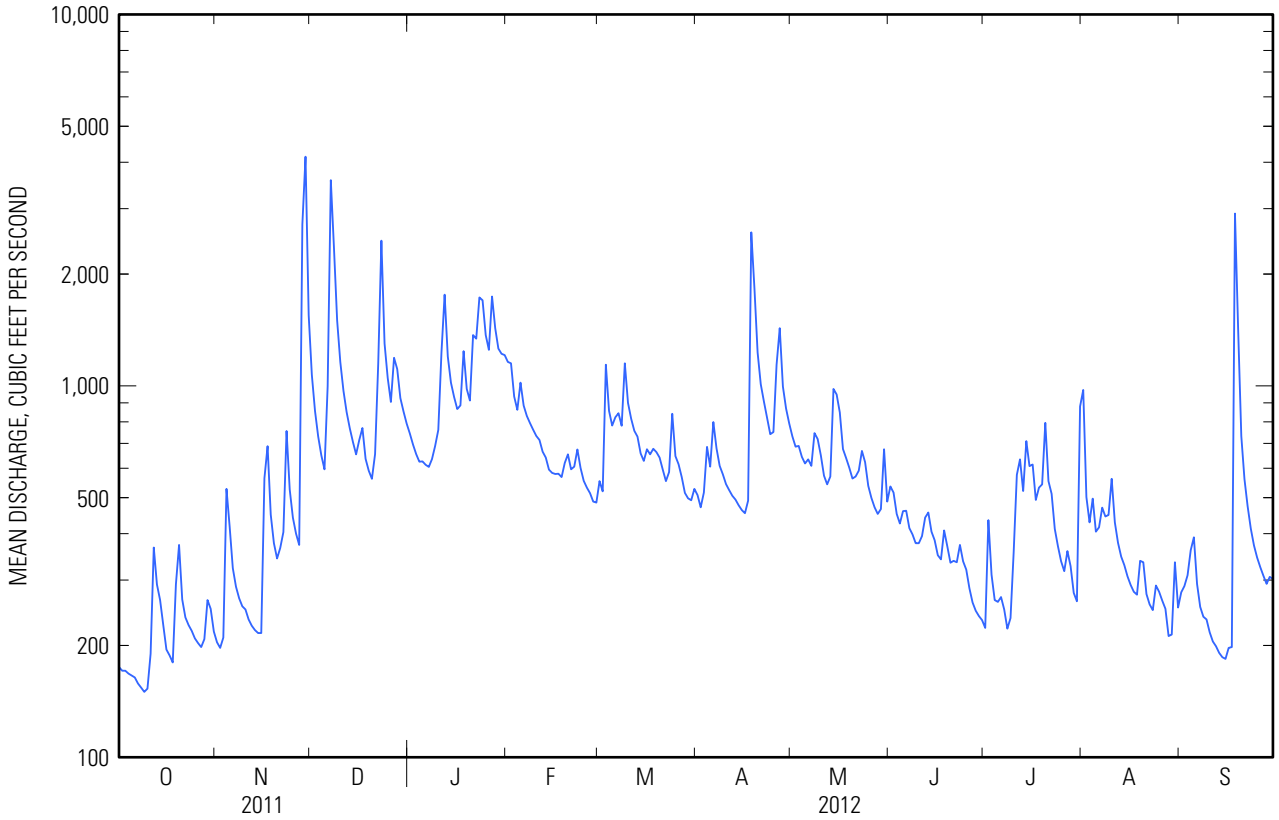
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	175	204	1,070	744	1,160	554	508	731	536	223	975	278
2	171	197	856	695	1,150	520	471	686	516	435	502	289
3	171	210	731	655	936	1,140	516	689	452	310	429	309
4	168	528	650	625	862	857	685	644	426	265	497	361
5	166	418	596	626	1,020	782	606	618	460	262	405	391
6	164	323	997	613	885	823	799	634	461	270	416	293
7	158	288	3,580	605	830	844	679	609	414	250	470	254
8	154	268	2,350	635	794	781	609	746	398	222	445	239
9	150	255	1,500	689	762	1,150	578	719	377	237	449	235
10	153	250	1,160	761	733	900	544	650	377	357	562	217
11	190	235	970	1,230	715	816	524	573	394	576	429	205
12	367	226	850	1,760	665	757	506	543	442	634	378	199
13	292	220	769	1,200	641	730	494	570	456	521	347	191
14	265	216	706	1,020	595	658	477	981	405	710	329	186
15	227	216	654	933	583	628	463	948	384	608	307	184
16	195	564	715	866	579	675	454	848	350	614	291	197
17	188	688	770	886	580	654	491	676	341	493	279	198
18	180	450	636	1,240	568	677	2,590	639	408	532	274	2,910
19	292	377	591	981	620	663	1,830	602	370	543	338	1,420
20	373	343	562	913	654	641	1,230	563	334	795	335	732
21	266	366	655	1,370	596	595	1,010	570	338	554	275	561
22	238	404	1,150	1,340	606	554	907	591	335	512	258	474
23	227	756	2,460	1,730	674	586	820	668	373	412	249	413
24	219	526	1,300	1,700	601	841	741	623	337	370	290	372
25	209	442	1,050	1,370	555	647	751	538	320	337	279	345
26	203	400	905	1,250	532	615	1,140	499	285	317	264	325
27	198	373	1,190	1,740	514	568	1,430	471	261	359	251	308
28	208	2,720	1,110	1,430	488	515	996	452	248	327	212	293
29	265	4,140	927	1,260	485	498	869	466	240	277	214	306
30	251	1,550	853	1,220	---	492	792	675	234	263	335	302
31	218	---	791	1,210	---	528	---	488	---	880	253	---
Total	6,701	18,153	33,104	33,297	20,383	21,689	24,510	19,710	11,272	13,465	11,337	12,987
Mean	216	605	1,068	1,074	703	700	817	636	376	434	366	433
Max	373	4,140	3,580	1,760	1,160	1,150	2,590	981	536	880	975	2,910
Min	150	197	562	605	485	492	454	452	234	222	212	184

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	409	510	683	869	993	1,111	959	718	531	421	413	415
Max	1,353	1,627	2,125	2,275	2,227	2,455	2,010	1,798	1,502	1,159	2,246	3,636
(WY)	(1965)	(1980)	(1933)	(1937)	(1990)	(1929)	(1936)	(2003)	(1967)	(2005)	(1940)	(2004)
Min	122	133	193	194	319	346	359	283	194	148	163	123
(WY)	(1955)	(1954)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(2008)	(2008)	(1953)	(1999)

03459500 PIGEON RIVER NEAR HEPCO, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1927 - 2012	
Annual total	210,198		226,608			
Annual mean	576		619		668	
Highest annual mean					943	1949
Lowest annual mean					341	1988
Highest daily mean	4,140	Nov 29	4,140	Nov 29	23,900	Sep 8, 2004
Lowest daily mean	117	Sep 2	150	Oct 9	64	Aug 23, 2008
Annual seven-day minimum	125	Aug 28	159	Oct 4	75	Aug 19, 2008
Maximum peak flow			11,400	Nov 29	[a]36,500	Sep 17, 2004
Maximum peak stage			9.50	Nov 29	17.31	Sep 17, 2004
Instantaneous low flow			147	Oct 9	[a]61	Aug 23, 2008
10 percent exceeds	1,060		1,140		1,220	
50 percent exceeds	403		530		502	
90 percent exceeds	189		221		203	

[a] See Remarks