Water-Data Report 2011

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. 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.--Records good except those for estimated daily discharges, which are poor. 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, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 03459500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/03459500.2011.pdf

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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	308	206	3,890	812	440	830	792	854	371	280	379	119
2	223	195	1,120	1,170	1,380	641	750	797	365	263	276	117
3	187	188	782	746	822	579	696	786	336	250	235	119
4	174	254	658	622	724	538	671	1,050	312	247	223	152
5	164	291	643	560	882	502	1,570	803	295	309	207	295
6	156	239	535	534	777	3,680	1,080	744	287	320	277	1,390
7	149	211	465	501	679	2,130	936	707	279	276	265	544
8	146	200	417	488	634	1,410	852	673	303	364	234	394
9	146	193	422	414	578	2,120	801	638	338	340	275	327
10	144	188	402	448	559	2,970	757	615	365	601	198	278
11	142	182	384	444	522	2,080	711	593	350	425	185	247
12	156	177	457	417	498	1,610	945	588	367	314	181	228
13	241	174	409	376	478	1,340	780	567	342	298	188	214
14	182	172	304	350	465	1,170	707	557	289	275	328	200
15	154	185	334	395	444	1,250	680	539	369	377	305	190
16	146	273	488	385	432	1,220	3,270	515	797	338	200	184
17	146	381	655	386	423	1,030	1,880	513	397	302	174	179
18	149	280	494	397	417	941	1,410	511	347	287	173	179
19	149	238	441	475	416	872	1,190	488	748	258	189	174
20	154	223	406	462	399	808	1,110	466	530	245	203	175
21	152	214	389	427	392	769	1,010	453	391	234	229	250
22	146	206	406	393	410	729	1,010	434	367	e247	211	297
23	143	207	406	364	391	707	927	430	601	e267	166	396
24	146	223	372	365	395	822	829	408	505	e268	151	381
25	209	211	376	363	552	697	781	386	400	e315	145	257
26	229	236	385	491	533	676	787	403	359	e390	146	226
27	438	251	344	484	472	910	758	661	344	e320	150	223
28	541	222	305	417	639	824	1,680	483	374	e275	145	209
29	334	209	349	396	---	786	1,110	410	351	e260	130	194
30	256	1,000	355	389	---	905	938	382	302	247	124	186
31	224	---	387	392	---	873	---	361	---	261	122	---
Total	6,234	7,429	17,780	14,863	15,753	36,419	31,418	17,815	11,781	9,453	6,414	8,324
Mean	201	248	574	479	563	1,175	1,047	575	393	305	207	277
Max	541	1,000	3,890	1,170	1,380	3,680	3,270	1,050	797	601	379	1,390
Min	142	172	304	350	391	502	671	361	279	234	122	117

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	411	509	678	867	997	1,116	961	719	533	421	414	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)

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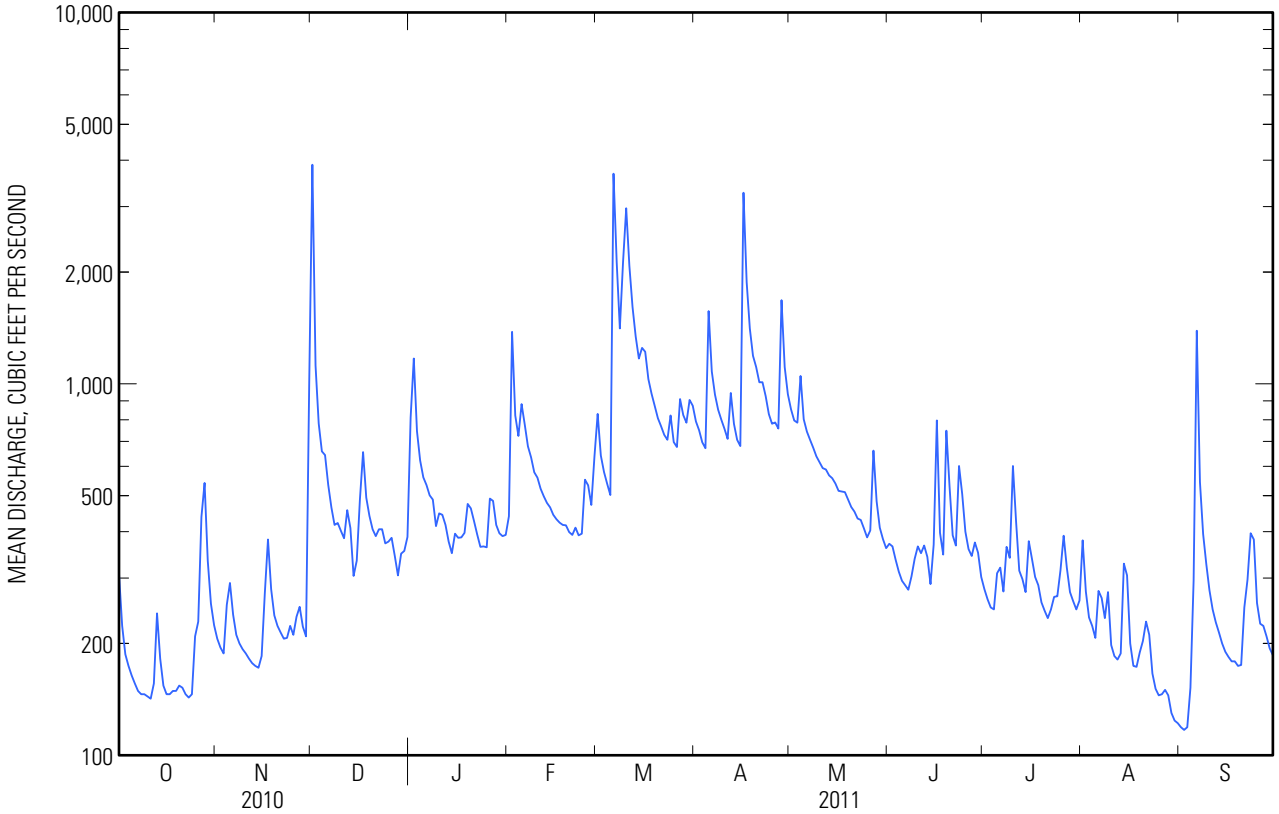
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1927 - 2011	
Annual total	210,695		183,683			
Annual mean	577		503		668	
Highest annual mean					943	1949
Lowest annual mean					341	1988
Highest daily mean	5,010	Jan 25	3,890	Dec 1	23,900	Sep 8, 2004
Lowest daily mean	121	Sep 7	117	Sep 2	64	Aug 23, 2008
Annual seven-day minimum	125	Sep 2	125	Aug 28	75	Aug 19, 2008
Maximum peak flow			8,660	Dec 1	[a]36,500	Sep 17, 2004
Maximum peak stage			8.37	Dec 1	17.31	Sep 17, 2004
Instantaneous low flow			107	Sep 1	[a]61	Aug 23, 2008
10 percent exceeds	1,170		907		1,230	
50 percent exceeds	403		385		502	
90 percent exceeds	154		174		203	

[a] See Remarks