

Water-Data Report 2007

03459500 PIGEON RIVER NEAR HEPKO, 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 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928-31(daily discharge), 1932(M), 1933-36(daily discharge), 1937-39(M).

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records fair 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 ft³/s-day. Maximum discharge for period of record, from rating curve extended above 12,000 ft³/s on basis of slope-conveyance measurement of peak flow.

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 ft³/s.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	377	410	1,280	3,820	536	718	520	391	304	217	289	307
2	358	450	910	1,540	553	2,470	567	379	344	197	255	187
3	345	405	685	1,170	525	1,210	504	382	285	195	310	150
4	334	380	615	996	492	942	631	531	284	185	220	133
5	325	371	572	1,000	e479	818	532	563	259	174	213	120
6	345	362	556	1,190	e472	743	490	536	254	168	201	113
7	321	383	535	1,060	e469	687	491	450	235	239	207	108
8	312	757	501	2,260	465	648	472	417	228	316	178	104
9	323	543	480	1,480	451	600	462	400	228	231	162	106
10	307	478	474	1,230	441	599	452	388	215	221	155	105
11	302	487	463	1,080	e431	580	451	381	209	259	146	107
12	344	551	449	1,010	430	549	534	417	207	274	139	108
13	306	490	451	940	456	526	465	456	209	219	132	101
14	282	466	443	872	567	522	451	407	223	200	126	389
15	274	556	421	824	469	512	754	357	251	190	118	672
16	273	2,330	407	806	e429	1,610	672	344	265	196	120	257
17	986	1,140	397	738	e415	1,090	563	346	230	182	119	185
18	1,220	872	388	704	424	825	539	330	233	196	119	162
19	635	744	379	695	e409	740	537	319	442	217	110	148
20	676	667	369	655	408	708	507	312	549	184	107	137
21	577	609	364	712	568	690	485	303	262	163	105	134
22	514	573	856	942	564	646	469	297	214	165	110	136
23	473	545	995	749	464	633	451	292	193	181	121	132
24	448	514	608	691	441	586	445	294	187	170	174	124
25	430	489	656	659	628	575	441	293	233	199	228	117
26	407	469	829	625	660	565	436	283	e235	277	177	114
27	449	454	653	615	534	546	468	276	e288	233	149	113
28	669	441	590	604	496	534	435	271	e244	337	138	111
29	534	431	550	561	---	536	413	264	e257	272	144	104
30	479	530	523	556	---	529	398	253	245	273	220	107
31	439	---	787	534	---	504	---	248	---	331	290	---
Total	14,064	17,897	18,186	31,318	13,676	23,441	15,035	11,180	7,812	6,861	5,282	4,891
Mean	454	597	587	1,010	488	756	501	361	260	221	170	163
Max	1,220	2,330	1,280	3,820	660	2,470	754	563	549	337	310	672
Min	273	362	364	534	408	504	398	248	187	163	105	101

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	417	510	673	874	1,009	1,124	973	725	542	430	423	418
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	200	183	163	123
(WY)	(1955)	(1954)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1988)	(1986)	(1953)	(1999)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1927 - 2007	
Annual total	206,539		169,643			
Annual mean	566		465		675	
Highest annual mean					943	1949
Lowest annual mean					341	1988
Highest daily mean	3,270	Jan 18	3,820	Jan 1	23,900	Sep 8, 2004
Lowest daily mean	191	Aug 2	101	Sep 13	95	Sep 30, 1941
Annual seven-day minimum	220	Jul 27	106	Sep 7	100	Sep 12, 1999
Maximum peak flow			6,440	Jan 1	^a 36,500	Sep 17, 2004
Maximum peak stage			7.27	Jan 1	17.31	Sep 17, 2004
Instantaneous low flow			98	Sep 13	81	Sep 30, 1941
10 percent exceeds	875		755		1,240	
50 percent exceeds	492		430		506	
90 percent exceeds	283		147		207	

^a See Remarks.

