

TENNESSEE RIVER BASIN

03459500 PIGEON RIVER NEAR HEPSCO, NC

LOCATION.--Lat 35°38'05", long 82°59'21", Haywood County, 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 mile 45.1.

DRAINAGE AREA.--350 mi².

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

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928-31, 1932(M), 1933-36, 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 (station 03458319) 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-area measurements at gage heights 14.94 and 15.82 ft. Maximum gage height for period of record from high-water mark in gage house.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	219	373	e307	773	e319	1060	738	315	205	145	154
2	203	217	301	295	737	359	859	600	301	210	137	148
3	193	215	284	e289	657	584	767	590	296	212	131	139
4	190	213	271	e281	592	459	696	1170	338	278	132	129
5	187	210	259	e274	490	e384	645	1030	567	215	119	124
6	196	202	257	361	497	e398	603	767	462	180	114	115
7	199	200	253	399	710	384	570	696	405	167	108	109
8	188	200	253	e311	661	376	544	618	337	165	106	e108
9	180	195	269	e307	608	382	568	537	310	159	104	108
10	175	194	347	e335	573	420	740	531	288	197	102	103
11	180	194	719	410	554	367	605	496	273	288	101	95
12	181	192	450	409	510	370	560	475	258	289	101	103
13	258	191	434	374	477	599	561	541	249	329	103	96
14	877	190	494	357	460	550	563	609	249	440	103	e111
15	671	190	451	355	450	461	536	480	255	322	136	e267
16	419	189	397	348	441	478	509	419	233	244	173	e410
17	348	187	454	350	428	856	503	401	224	210	165	228
18	318	188	799	410	413	856	519	590	216	190	159	185
19	296	189	555	810	404	696	481	513	209	177	200	167
20	285	189	478	1240	433	636	483	449	205	176	226	164
21	273	184	432	869	451	670	463	427	202	170	153	450
22	263	182	405	789	411	609	449	417	187	157	126	695
23	256	184	416	1650	399	549	425	396	187	167	121	733
24	248	290	597	1570	389	568	385	378	233	208	117	395
25	263	773	461	1910	380	543	546	359	210	347	119	383
26	245	489	418	1300	378	567	444	346	234	328	154	1140
27	224	351	388	1020	353	682	398	415	331	230	618	3510
28	223	320	372	889	e323	561	400	418	318	211	554	1630
29	227	292	363	828	---	526	391	362	245	182	261	953
30	226	310	342	834	---	836	358	336	234	161	192	730
31	221	---	327	784	---	984	---	326	---	161	167	---
TOTAL	8424	7339	12619	20665	13952	17029	16631	16430	8371	6975	5247	13682
MEAN	271.7	244.6	407.1	666.6	498.3	549.3	554.4	530.0	279.0	225.0	169.3	456.1
MAX	877	773	799	1910	773	984	1060	1170	567	440	618	3510
MIN	175	182	253	274	323	319	358	326	187	157	101	95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2002, BY WATER YEAR (WY)

MEAN	410.8	494.4	660.7	878.9	1023	1146	984.9	719.1	537.0	418.0	420.7	374.6
MAX	1353	1627	2125	2275	2227	2455	2010	1630	1502	1141	2246	1214
(WY)	1965	1980	1933	1937	1990	1929	1936	1984	1967	1989	1940	1928
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

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1927 - 2002

ANNUAL TOTAL	152812	147364	
ANNUAL MEAN	418.7	403.7	670.6
HIGHEST ANNUAL MEAN			943
LOWEST ANNUAL MEAN			341
HIGHEST DAILY MEAN	2180	Jan 19	17100
LOWEST DAILY MEAN	152	Jul 24	95
ANNUAL SEVEN-DAY MINIMUM	169	Jul 13	103
MAXIMUM PEAK FLOW			5620
MAXIMUM PEAK STAGE			6.82
INSTANTANEOUS LOW FLOW			85
10 PERCENT EXCEEDS	747		723
50 PERCENT EXCEEDS	327		347
90 PERCENT EXCEEDS	191		158

e Estimated.

* See REMARKS.

03459500 PIGEON RIVER NEAR HEPCO, NC--Continued

