

03459500 PIGEON RIVER NEAR HEPACO, NC

LOCATION.--Lat 35°38'06", long 82°59'24", 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 current water year and 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	1015	34,300	16.77	Sep 17	0945	36,500	17.31

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	395	778	614	481	602	487	548	594	713	888	380
2	365	358	683	600	543	680	448	690	460	645	742	684
3	352	351	653	592	937	757	435	751	442	678	824	594
4	345	343	676	585	770	673	427	605	462	619	604	444
5	333	459	740	764	719	646	407	570	411	515	549	395
6	334	714	717	775	2,690	927	396	564	381	539	561	373
7	332	625	673	628	2,310	840	387	530	371	445	472	4,360
8	326	491	649	606	1,470	735	396	613	373	394	432	23,900
9	393	453	631	611	1,240	693	430	789	401	388	407	5,150
10	470	429	1,290	598	1,130	674	426	646	454	726	389	3,050
11	448	413	1,510	568	1,030	643	433	567	392	626	387	2,410
12	470	403	1,000	569	1,060	628	454	529	385	510	592	1,950
13	403	402	897	554	1,030	621	1,930	623	585	483	453	1,640
14	397	377	1,050	542	953	617	1,230	928	471	444	390	1,390
15	420	370	961	575	964	654	875	595	554	389	372	1,220
16	366	366	877	599	931	788	784	606	608	351	447	1,670
17	349	365	1,010	588	853	716	697	659	494	346	367	21,500
18	344	420	892	661	817	776	649	631	410	476	361	6,330
19	335	6,360	857	656	768	747	611	602	376	368	333	3,960
20	326	2,430	802	571	727	699	584	567	347	342	342	3,070
21	322	1,480	757	546	742	724	566	532	365	313	415	2,510
22	312	1,150	741	511	703	664	e539	573	402	308	394	2,100
23	306	1,000	720	e443	676	637	e513	603	396	313	365	1,790
24	324	1,010	923	437	664	609	499	517	386	336	367	1,520
25	405	936	794	487	654	580	481	464	428	822	381	1,340
26	489	846	730	615	644	550	802	437	653	699	392	1,210
27	759	807	689	584	649	520	785	473	497	1,550	336	1,320
28	533	1,100	667	533	634	494	602	422	512	718	332	7,230
29	468	1,000	649	499	612	456	560	408	448	565	375	3,120
30	441	874	736	517	---	468	540	467	448	1,190	405	2,460
31	426	---	647	494	---	503	---	1,060	---	1,100	404	---
TOTAL	12,273	26,727	25,399	17,922	27,401	20,321	18,373	18,569	13,506	17,911	14,078	109,070
MEAN	396	891	819	578	945	656	612	599	450	578	454	3,636
MAX	759	6,360	1,510	775	2,690	927	1,930	1,060	653	1,550	888	23,900
MIN	306	343	631	437	481	456	387	408	347	308	332	373

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2004, BY WATER YEAR (WY)

MEAN	411	502	667	872	1,022	1,140	983	732	538	425	422	418
MAX	1,353	1,627	2,125	2,275	2,227	2,455	2,010	1,798	1,502	1,141	2,246	3,636
(WY)	(1965)	(1980)	(1933)	(1937)	(1990)	(1929)	(1936)	(2003)	(1967)	(1989)	(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)

03459500 PIGEON RIVER NEAR HEPCO, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1927 - 2004	
ANNUAL TOTAL	315,400		321,550		676	
ANNUAL MEAN	864		879		341	
HIGHEST ANNUAL MEAN					943	1949
LOWEST ANNUAL MEAN					341	1988
HIGHEST DAILY MEAN	9,600	May 6	23,900	Sep 8	23,900	Sep 8, 2004
LOWEST DAILY MEAN	273	Sep 21	306	Oct 23	95	Sep 30, 1941
ANNUAL SEVEN-DAY MINIMUM	315	Sep 15	324	Oct 18	100	Sep 12, 1999
MAXIMUM PEAK FLOW			36,500*	Sep 17	36,500*	Sep 17, 2004
MAXIMUM PEAK STAGE			17.31	Sep 17	17.31	Sep 17, 2004
INSTANTANEOUS LOW FLOW			292	Jul 24	81	Sep 30, 1941
10 PERCENT EXCEEDS	1,440		1,200		1,250	
50 PERCENT EXCEEDS	681		585		504	
90 PERCENT EXCEEDS	381		367		207	

* See REMARKS.
e Estimated.

