

03459500 PIGEON RIVER NEAR HEPKO, 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. Minimum discharge for current water year also occurred Sept. 22.

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e615	385	454	1,260	506	1,250	795	826	704	585	615	430
2	e535	358	439	1,090	485	1,140	840	1,050	670	2,920	544	430
3	e475	341	454	1,070	471	1,020	795	869	674	1,350	470	396
4	432	336	525	949	678	933	753	723	762	e1,210	556	758
5	415	383	1,260	856	621	890	922	1,370	683	e1,100	681	594
6	383	654	995	774	557	2,470	874	9,600	630	1,010	561	448
7	376	496	833	741	574	1,780	1,050	7,350	1,690	e1,070	504	408
8	348	434	699	697	526	1,550	1,050	4,230	1,530	e860	520	415
9	327	405	656	e678	507	1,350	1,270	3,030	974	e840	532	386
10	319	395	645	e651	542	1,140	1,970	2,430	836	e805	630	364
11	377	1,080	894	626	533	1,000	2,180	2,050	776	e755	662	344
12	349	1,080	755	e593	517	917	1,930	1,760	833	650	534	334
13	319	880	893	e578	516	876	1,880	1,570	746	677	546	324
14	e305	698	1,030	e558	641	861	1,650	1,450	693	825	549	314
15	e400	621	809	e543	1,080	865	1,430	1,390	683	800	508	362
16	946	1,220	737	e528	1,260	1,010	1,290	1,260	655	700	561	381
17	575	1,240	677	e514	1,380	883	1,200	1,100	664	805	544	318
18	457	908	636	e499	1,080	814	1,470	1,020	791	638	494	301
19	409	784	630	489	951	916	1,280	910	761	603	439	289
20	380	736	1,640	e476	885	2,090	1,150	852	641	571	419	280
21	370	904	1,090	e466	848	1,610	1,170	888	586	526	439	273
22	353	848	956	e457	3,530	1,270	1,100	1,590	557	650	508	805
23	e335	742	905	e448	3,260	1,130	981	1,310	530	636	448	1,750
24	e317	700	2,360	e438	2,130	1,020	929	1,100	504	563	409	640
25	317	663	2,190	e429	1,720	909	948	990	485	506	384	513
26	333	635	1,570	e424	1,540	872	941	950	471	480	380	455
27	321	632	1,320	421	1,610	832	873	875	461	466	396	453
28	325	590	1,100	413	1,450	800	847	822	482	450	408	545
29	460	535	969	493	---	783	851	821	478	456	406	429
30	506	476	866	615	---	e885	833	783	495	514	389	393
31	441	---	800	563	---	800	---	754	---	521	470	---
TOTAL	12,820	20,159	29,787	19,337	30,398	34,666	35,252	55,723	21,445	24,542	15,506	14,132
MEAN	414	672	961	624	1,086	1,118	1,175	1,798	715	792	500	471
MAX	946	1,240	2,360	1,260	3,530	2,470	2,180	9,600	1,690	2,920	681	1,750
MIN	305	336	439	413	471	783	753	723	461	450	380	273

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2003, BY WATER YEAR (WY)

MEAN	411	497	665	876	1,023	1,146	987	733	539	423	422	376
MAX	1,353	1,627	2,125	2,275	2,227	2,455	2,010	1,798	1,502	1,141	2,246	1,214
(WY)	(1965)	(1980)	(1933)	(1937)	(1990)	(1929)	(1936)	(2003)	(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)

03459500 PIGEON RIVER NEAR HEPCO, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1927 - 2003	
ANNUAL TOTAL	181,748		313,767		673	
ANNUAL MEAN	498		860		341	
HIGHEST ANNUAL MEAN					943	1949
LOWEST ANNUAL MEAN					341	1988
HIGHEST DAILY MEAN	3,510	Sep 27	9,600	May 6	17,100	Aug 13, 1940
LOWEST DAILY MEAN	95	Sep 11	273	Sep 21	95	Sep 30, 1941
ANNUAL SEVEN-DAY MINIMUM	103	Aug 8	315	Sep 15	100	Sep 12, 1999
MAXIMUM PEAK FLOW			13,600	May 6	32,700*	Aug 30, 1940
MAXIMUM PEAK STAGE			10.33	May 6	15.82*	Aug 30, 1940
INSTANTANEOUS LOW FLOW			267*	Sep 21	81	Sep 30, 1941
10 PERCENT EXCEEDS	891		1,440		1,250	
50 PERCENT EXCEEDS	410		678		502	
90 PERCENT EXCEEDS	158		385		206	

e Estimated.
 * See REMARKS.

