

03459500 PIGEON RIVER NEAR HEPKO, 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.--No estimated daily discharges. Records fair. 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-conveyance measurement of peak flow. Minimum discharge for current water year also occurred Sept. 26.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,890	596	1,530	927	564	857	1,050	909	654	936	739	1,150
2	1,480	601	1,220	901	569	746	1,510	843	1,350	1,030	678	913
3	1,410	761	1,100	885	710	727	1,260	808	1,070	927	591	784
4	1,280	1,690	1,020	862	714	708	1,130	662	979	927	594	699
5	1,170	1,360	950	808	650	729	1,050	621	838	809	561	647
6	1,090	982	1,000	805	633	705	981	616	893	748	564	612
7	1,020	872	1,260	726	622	687	951	594	901	3,020	613	574
8	962	805	1,150	743	617	1,420	1,160	627	889	2,310	829	540
9	921	737	1,720	691	624	1,120	1,040	617	964	1,470	750	516
10	895	702	1,940	712	630	1,060	909	737	849	1,510	693	496
11	860	682	1,560	977	591	999	860	879	929	1,230	616	484
12	830	1,470	1,330	727	570	900	834	677	2,080	2,080	565	459
13	883	1,280	1,210	699	571	820	1,080	677	4,790	1,590	562	443
14	812	993	1,110	1,540	645	828	1,360	682	2,230	1,320	677	439
15	776	872	1,070	1,120	671	777	1,210	714	1,570	1,140	560	407
16	731	813	974	993	616	828	1,120	691	1,270	1,070	540	438
17	697	804	983	938	598	927	1,050	633	1,100	988	548	453
18	696	774	847	1,020	571	835	999	608	1,040	898	1,080	398
19	943	745	852	993	558	783	959	578	1,110	1,080	808	377
20	833	714	821	719	577	760	921	2,110	1,250	1,380	603	368
21	724	688	855	674	1,040	742	822	1,360	1,020	1,150	543	361
22	689	660	999	662	1,080	766	800	1,010	904	1,010	492	354
23	659	796	1,880	647	850	1,180	943	889	826	1,090	705	352
24	653	2,220	1,510	662	905	993	911	807	760	845	536	346
25	635	2,470	1,190	874	901	899	824	752	710	771	491	346
26	618	1,560	1,070	857	842	850	803	712	686	715	466	384
27	609	1,280	978	742	817	893	832	675	864	667	445	438
28	605	1,300	921	545	911	2,340	776	665	957	639	446	375
29	867	1,110	906	548	---	1,590	778	645	1,050	914	816	371
30	665	1,020	1,000	589	---	1,300	829	616	902	936	2,500	375
31	605	---	878	537	---	1,090	---	591	---	737	2,060	---
TOTAL	27,508	31,357	35,834	25,123	19,647	29,859	29,752	24,005	35,435	35,937	22,671	14,899
MEAN	887	1,045	1,156	810	702	963	992	774	1,181	1,159	731	497
MAX	1,890	2,470	1,940	1,540	1,080	2,340	1,510	2,110	4,790	3,020	2,500	1,150
MIN	605	596	821	537	558	687	776	578	654	639	445	346

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005, BY WATER YEAR (WY)

MEAN	417	509	673	871	1,018	1,137	983	732	546	434	426	419
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	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1927 - 2005	
ANNUAL TOTAL	351,850		332,027		679	
ANNUAL MEAN	961		910		341	
HIGHEST ANNUAL MEAN					943	1949
LOWEST ANNUAL MEAN					341	1988
HIGHEST DAILY MEAN	23,900	Sep 8	4,790	Jun 13	23,900	Sep 8, 2004
LOWEST DAILY MEAN	308	Jul 22	346	Sep 24	95	Sep 30, 1941
ANNUAL SEVEN-DAY MINIMUM	351	Jul 18	358	Sep 19	100	Sep 12, 1999
MAXIMUM PEAK FLOW			7,360	Jun 13	36,500*	Sep 17, 2004
MAXIMUM PEAK STAGE			7.75	Jun 13	17.31	Sep 17, 2004
INSTANTANEOUS LOW FLOW			338*	Sep 25	81	Sep 30, 1941
10 PERCENT EXCEEDS	1,470		1,350		1,250	
50 PERCENT EXCEEDS	646		829		509	
90 PERCENT EXCEEDS	392		559		207	

* See REMARKS.

