

03456991 PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°31'23", long 82°50'48", Haywood County, Hydrologic Unit 06010106, on right bank 600 ft upstream from State Highway 215 bridge, 1.3 mi upstream from U.S. Highways 19 and 23 at Canton, and at mile 64.9.

DRAINAGE AREA.--130 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods published in WSP 1306. Published as Pigeon River at Canton, NC (03457000) May 1907 to June 1909, October 1928 to September 1983.

REVISED RECORDS.--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1903(M). WDR NC-91-1: 1984-89(M).

GAGE.--Water-stage recorder. Datum of gage is 2,581.66 ft above NGVD of 1929 (Tennessee Valley Authority bench mark). Prior to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum. Dec. 6, 1928, to Jan. 3, 1929, nonrecording gage at site 0.8 mi downstream at different datum. Prior to Oct. 1, 1983, water-stage recorder at site 0.8 mi downstream at different datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation and considerable regulation at low flow, since 1932, caused by Lake Logan (station 03455773) on West Fork Pigeon River 11.2 mi upstream. Prior to regulation, maximum discharge: 21,500 ft<sup>3</sup>/s, Aug. 16, 1928; gage height: 16.40 ft; minimum discharge: 39 ft<sup>3</sup>/s, Sept. 3, 1930. Maximum discharge for period of record from rating curve extended above 20,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record, at former site, result of freezeup. Minimum discharge for current water year also occurred Sept. 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about 1810 is believed to have been approximately equal to that of Aug. 30, 1940, and flood of June 15, 1876, reached a stage of 18.3 ft; discharge, 25,700 ft<sup>3</sup>/s, at former site, from studies by Tennessee Valley Authority.

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	916	237	629	368	241	309	466	399	257	545	351	567
2	692	235	499	352	238	274	669	378	783	527	313	461
3	682	291	458	340	360	276	507	336	552	436	276	405
4	611	851	428	329	295	269	470	199	476	420	287	363
5	556	498	404	317	e260	293	438	194	411	388	239	334
6	510	379	441	308	e256	281	404	194	420	364	261	309
7	474	341	564	290	e252	278	416	203	402	1,610	286	290
8	443	315	485	311	e256	649	622	236	475	978	413	272
9	423	296	703	285	e265	424	505	230	473	781	352	256
10	409	281	734	401	261	388	452	315	408	831	316	242
11	392	272	588	477	233	364	425	345	482	692	282	233
12	376	644	524	287	e226	342	411	265	2,430	1,480	254	222
13	401	474	482	272	232	330	499	289	3,100	896	242	213
14	359	392	446	813	278	349	537	253	1,290	737	280	204
15	342	364	469	528	282	317	476	270	906	650	232	195
16	315	341	394	470	e252	349	459	262	717	575	217	208
17	303	323	394	474	e238	356	441	237	606	513	224	214
18	302	311	307	539	e221	317	425	228	556	466	248	185
19	334	300	350	484	e217	308	410	226	614	555	235	176
20	314	288	e342	296	229	295	395	693	568	609	204	171
21	291	276	425	287	e410	284	281	480	490	537	210	168
22	278	268	452	276	421	286	259	387	435	470	236	164
23	268	319	1,270	e270	e320	542	324	344	397	e520	280	160
24	264	1,010	770	267	e345	411	334	310	367	e390	203	154
25	254	850	596	e280	339	375	312	291	341	e360	186	151
26	244	581	525	272	308	357	305	277	348	e340	179	169
27	240	507	474	237	296	371	315	261	467	328	172	188
28	238	556	442	191	339	1,550	289	255	443	319	264	153
29	311	468	436	200	---	761	297	244	507	524	495	152
30	253	432	438	217	---	583	353	232	411	401	1,810	150
31	235	---	330	205	---	483	---	219	---	350	935	---
TOTAL	12,030	12,700	15,799	10,643	7,870	12,771	12,496	9,052	20,132	18,592	10,482	7,129
MEAN	388	423	510	343	281	412	417	292	671	600	338	238
MAX	916	1,010	1,270	813	421	1,550	669	693	3,100	1,610	1,810	567
MIN	235	235	307	191	217	269	259	194	257	319	172	150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005\*, BY WATER YEAR (WY)

MEAN	222	267	325	417	472	528	463	338	266	198	201	221
MAX	787	964	872	1,017	1,150	1,058	1,005	981	781	600	1,476	2,504
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1975)	(1983)	(1976)	(1967)	(2005)	(1940)	(2004)
MIN	48.2	59.2	64.5	85.3	150	155	167	132	96.5	88.6	65.9	47.8
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1941)	(1941)	(2002)	(1954)	(1998)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1932 - 2005*	
ANNUAL TOTAL	184,232		149,696			
ANNUAL MEAN	503		410		326	
HIGHEST ANNUAL MEAN					503	1949
LOWEST ANNUAL MEAN					170	1988
HIGHEST DAILY MEAN	19,800	Sep 8	3,100	Jun 13	19,800	Sep 8, 2004
LOWEST DAILY MEAN	130	Jul 21	150	Sep 30	27	Sep 7, 1954
ANNUAL SEVEN-DAY MINIMUM	144	Jul 18	160	Sep 24	40	Sep 13, 1998
MAXIMUM PEAK FLOW			6,500	Jun 12	48,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			7.80	Jun 12	22.80	Sep 17, 2004
INSTANTANEOUS LOW FLOW			141*	Sep 26	15*	Jan 8, 1956
10 PERCENT EXCEEDS	632		617		605	
50 PERCENT EXCEEDS	291		342		232	
90 PERCENT EXCEEDS	170		222		87	

\* Regulated period only (1932-2005). See REMARKS.  
 e Estimated.

