

TENNESSEE RIVER BASIN

03456991 PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°31'19", long 82°50'53", 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 mi².

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 sea level (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 fair. 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 ft³/s, Aug. 16, 1928; gage height: 16.40 ft; minimum discharge: 39 ft³/s, Sept. 3, 1930. Maximum discharge and gage height for period of record, at former site from high water mark in gage well; minimum discharge for period of record, at former site, result of freezeup.

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 ft³/s, at former site, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	75	136	e132	210	344	678	226	244	151	96	81
2	69	64	129	e132	202	319	557	213	259	129	86	91
3	67	60	126	e132	194	308	568	201	187	123	82	149
4	65	60	117	e129	192	417	573	194	177	113	115	173
5	62	61	113	e129	183	344	512	195	162	118	178	115
6	60	59	109	e129	175	308	469	200	152	104	172	88
7	60	57	106	128	170	286	432	186	154	94	113	80
8	59	68	104	130	166	283	399	186	184	93	105	77
9	58	507	98	e126	165	272	375	183	193	97	98	76
10	59	498	98	e120	200	249	357	193	158	99	105	174
11	60	184	101	e115	171	239	336	180	153	88	141	123
12	59	140	97	136	176	248	318	176	142	81	118	92
13	59	121	89	127	186	382	397	170	136	79	151	83
14	58	108	251	115	260	285	354	161	132	77	146	78
15	58	99	166	127	260	386	349	158	138	75	111	76
16	59	94	245	122	279	416	340	154	129	74	98	74
17	58	122	1000	112	536	371	313	149	123	74	89	72
18	58	105	395	202	363	334	300	150	114	73	86	71
19	57	98	324	1430	314	309	288	151	110	73	80	72
20	57	99	e243	815	287	338	278	195	108	104	77	169
21	57	86	e194	475	269	358	266	164	124	85	75	100
22	57	76	e182	381	312	419	257	160	116	76	74	79
23	57	87	e175	327	306	418	253	176	136	72	72	75
24	56	86	e172	295	270	431	243	152	110	71	73	322
25	57	434	e164	263	590	437	256	276	105	104	73	210
26	60	346	164	239	520	419	231	241	127	187	96	135
27	58	219	163	233	414	374	223	174	154	91	80	115
28	58	180	160	214	376	349	218	167	148	80	75	102
29	57	161	148	206	---	654	210	200	124	191	74	94
30	56	149	139	326	---	958	211	165	147	233	84	89
31	65	---	e132	240	---	803	---	155	---	117	77	---
TOTAL	1852	4503	5840	7787	7746	12058	10561	5651	4446	3226	3100	3335
MEAN	59.7	150	188	251	277	389	352	182	148	104	100	111
MAX	72	507	1000	1430	590	958	678	276	259	233	178	322
MIN	56	57	89	112	165	239	210	149	105	71	72	71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2001,* BY WATER YEAR (WY)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
MEAN	221	263	321	424	479	537	469	335	262	190	200	186
MAX	787	964	872	1017	1150	1058	1005	981	781	583	1476	818
(WY)	1965	1980	1933	1937	1939	1975	1983	1976	1967	1989	1940	1979
MIN	48.2	59.2	64.5	85.3	150	155	167	132	96.5	89.7	65.9	47.8
(WY)	1955	1955	1940	1956	1941	1988	1986	1941	1941	1993	1954	1998

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2002 WATER YEAR	FOR 2003 WATER YEAR	FOR 2004 WATER YEAR	FOR 2005 WATER YEAR	FOR 2006 WATER YEAR	FOR 2007 WATER YEAR	FOR 2008 WATER YEAR	FOR 2009 WATER YEAR	FOR 2010 WATER YEAR	FOR 2011 WATER YEAR
ANNUAL TOTAL	77736	70105	70105	70105	70105	70105	70105	70105	70105	70105	70105	70105
ANNUAL MEAN	212	192	192	192	192	192	192	192	192	192	192	192
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	2920	Mar 20	1430	Jan 19	12800	Aug 13	1940					
LOWEST DAILY MEAN	56	Oct 24	56	Oct 24	27	Sep 7	1954					
ANNUAL SEVEN-DAY MINIMUM	57	Oct 19	57	Oct 19	40	Sep 13	1998					
MAXIMUM PEAK FLOW			3330	Jan 19	31600*	Aug 30	1940					
MAXIMUM PEAK STAGE			5.54	Jan 19	20.75*	Aug 30	1940					
INSTANTANEOUS LOW FLOW			54	Nov 7	15*	Jan 8	1956					
10 PERCENT EXCEEDS	403		374		609							
50 PERCENT EXCEEDS	154		149		230							
90 PERCENT EXCEEDS	63		69		86							

e Estimated.

* Regulated period only (1932-2001). See REMARKS.

03456991 PIGEON RIVER NEAR CANTON, NC--Continued

