

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 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 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. Minimum discharge for current water year also occurred Sept. 13.

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	85	173	131	287	e154	457	324	158	e92	67	74
2	79	85	146	e129	264	218	367	249	148	90	64	72
3	77	83	135	e129	247	358	336	238	142	87	71	65
4	76	81	128	e126	236	232	305	588	156	89	67	66
5	75	77	122	178	216	205	286	444	353	e82	62	63
6	76	75	118	174	230	206	268	349	222	e80	62	60
7	78	74	115	158	404	196	256	306	195	e76	62	62
8	73	73	113	e129	325	190	245	280	171	e74	63	62
9	73	73	117	e126	288	196	293	261	158	e70	63	62
10	73	69	149	138	279	221	381	262	147	e74	61	60
11	73	68	365	171	267	186	291	237	139	e82	62	58
12	97	68	200	150	247	230	273	222	132	95	63	56
13	161	66	212	133	234	438	301	224	132	111	63	56
14	992	64	244	126	226	306	285	266	127	e130	61	63
15	354	64	220	124	219	259	272	208	129	e110	63	147
16	221	64	188	119	212	262	260	197	119	92	80	223
17	181	64	201	118	201	349	256	188	115	81	85	108
18	161	63	404	119	190	375	263	336	113	75	70	89
19	147	62	259	336	189	334	242	238	108	72	84	87
20	137	62	224	537	204	309	230	211	104	70	79	81
21	127	61	204	366	210	372	218	203	102	70	67	e370
22	119	59	190	319	184	309	208	195	96	66	62	e340
23	115	60	191	764	178	278	197	186	105	69	61	e310
24	110	182	275	619	171	262	191	178	124	86	60	e180
25	110	661	200	802	168	246	255	168	105	163	64	200
26	101	248	184	533	e161	269	203	163	131	142	73	841
27	93	186	169	442	e158	319	194	246	162	108	196	3320
28	93	163	e164	388	e154	254	192	206	123	90	170	893
29	91	143	e154	349	---	241	184	174	e118	79	92	531
30	90	196	148	323	---	361	172	165	e112	72	80	404
31	88	---	142	302	---	411	---	159	---	70	73	---
TOTAL	4426	3379	5854	8558	6349	8546	7881	7671	4246	2747	2350	9003
MEAN	142.8	112.6	188.8	276.1	226.8	275.7	262.7	247.5	141.5	88.61	75.81	300.1
MAX	992	661	404	802	404	438	457	588	353	163	196	3320
MIN	73	59	113	118	154	154	172	159	96	66	60	56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002,* BY WATER YEAR (WY)

	MEAN	220.3	260.8	319.4	421.9	475.7	533.3	465.6	333.4	260.4	188.2	198.2	187.7
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	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1932 - 2002*	
ANNUAL TOTAL	71569		71010		321.2	
ANNUAL MEAN	196.1		194.5		503	1949
HIGHEST ANNUAL MEAN					170	1988
LOWEST ANNUAL MEAN					12800	Aug 13 1940
HIGHEST DAILY MEAN	1430	Jan 19	3320	Sep 27	27	Sep 7 1954
LOWEST DAILY MEAN	59	Nov 22	56	Sep 12	40	Sep 13 1998
ANNUAL SEVEN-DAY MINIMUM	62	Nov 17	59	Sep 7	31600*	Aug 30 1940
MAXIMUM PEAK FLOW			5340	Sep 27	20.75*	Aug 30 1940
MAXIMUM PEAK STAGE			7.05	Sep 27	15*	Jan 8 1956
INSTANTANEOUS LOW FLOW			54*	Sep 12	606	
10 PERCENT EXCEEDS	367		338		228	
50 PERCENT EXCEEDS	153		159		85	
90 PERCENT EXCEEDS	75		65			

e Estimated.

* Regulated period only (1932-2002). See REMARKS.

