Water-Data Report 2013

03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC

French Broad-Holston Basin
Pigeon Subbasin

LOCATION.--Lat 35°27′42″, long 82°52′11″ referenced to North American Datum of 1983, Haywood County, NC, Hydrologic Unit 06010106, on right bank 800 ft upstream from bridge on U.S. Highway 276, 0.3 mi downstream of Dix Creek, 1.6 mi upstream from confluence with West Fork Pigeon River, and 5.2 mi southwest of Canton.

DRAINAGE AREA.--51.5 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1954 to current year.

REVISED RECORDS.--WDR NC-73-1: 1966 (annual maximum discharge), 1972 (annual maximum discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,674.34 ft above National Geodetic Vertical Datum of 1929 (Tennessee Valley Authority bench mark). Satellite and telephone telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 6,000 ft^3/s, on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred August 9, 11-13, 2008. Minimum discharge for current water year also occurred December 16.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 03456500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/03456500.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	94	62	42	137	496	278	167	336	121	253	151	85
2	723	60	42	141	399	248	154	310	158	335	141	81
3	252	60	41	127	342	223	148	310	151	749	131	82
4	186	59	40	118	293	204	163	342	123	1,480	125	73
5	159	57	40	112	261	214	180	2,860	121	1,410	118	70
6	140	59	39	108	235	228	168	1,760	239	1,060	113	67
7	136	61	39	103	225	191	159	974	173	1,030	193	66
8	122	59	39	99	220	180	153	724	203	725	175	64
9	114	56	38	96	197	170	147	585	182	556	142	62
10	107	55	43	93	189	162	143	489	856	559	126	61
11	99	53	51	141	278	182	153	432	416	573	125	59
12	95	54	40	136	219	409	1,320	375	305	456	115	67
13	90	72	38	119	242	270	525	328	252	421	114	63
14	87	58	37	291	214	239	411	295	223	512	108	57
15	117	55	37	895	200	219	374	269	193	496	102	56
16	91	54	43	992	190	203	321	246	175	403	96	54
17	85	52	71	1,140	177	188	304	227	169	349	92	53
18	82	51	57	932	168	190	277	302	157	336	100	53
19	80	51	46	577	167	197	463	248	145	287	229	53
20	76	50	82	419	155	173	442	225	135	310	199	52
21	73	49	117	332	148	167	369	219	130	301	148	82
22	72	48	77	275	206	158	332	218	122	294	132	92
23	70	47	69	239	197	153	297	212	131	253	120	58
24	69	47	93	216	177	202	272	189	127	235	109	54
25	68	46	87	201	166	194	249	175	182	221	102	147
26	67	46	769	190	508	174	228	167	132	198	96	95
27	66	46	321	173	424	166	242	158	134	200	92	72
28	66	44	212	164	329	159	442	148	119	179	89	64
29	69	43	191	155	---	153	504	140	111	164	85	59
30	66	42	158	952	---	153	382	131	103	154	83	56
31	63	---	142	807	---	178	---	127	---	153	82	---
Total	3,684	1,596	3,141	10,480	7,022	6,225	9,489	13,521	5,788	14,652	3,833	2,057
Mean	119	53.2	101	338	251	201	316	436	193	473	124	68.6
Max	723	72	769	1,140	508	409	1,320	2,860	856	1,480	229	147
Min	63	42	37	93	148	153	143	127	103	153	82	52
Cfsm	2.31	1.03	1.97	6.56	4.87	3.90	6.14	8.47	3.75	9.18	2.40	1.33
In.	2.66	1.15	2.27	7.57	5.07	4.50	6.85	9.77	4.18	10.58	2.77	1.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	104	133	151	170	194	224	200	154	113	81.4	75.4	98.4
Max	363	484	343	444	517	541	480	453	339	473	263	1,057
(WY)	(1965)	(1980)	(2010)	(1998)	(1998)	(1979)	(1957)	(1976)	(1967)	(2013)	(1994)	(2004)
Min	17.1	27.9	42.4	33.8	65.2	60.9	63.2	59.8	32.6	20.7	25.1	16.0
(WY)	(1955)	(1955)	(1956)	(1956)	(2009)	(1988)	(1986)	(1986)	(2008)	(2008)	(2002)	(1954)

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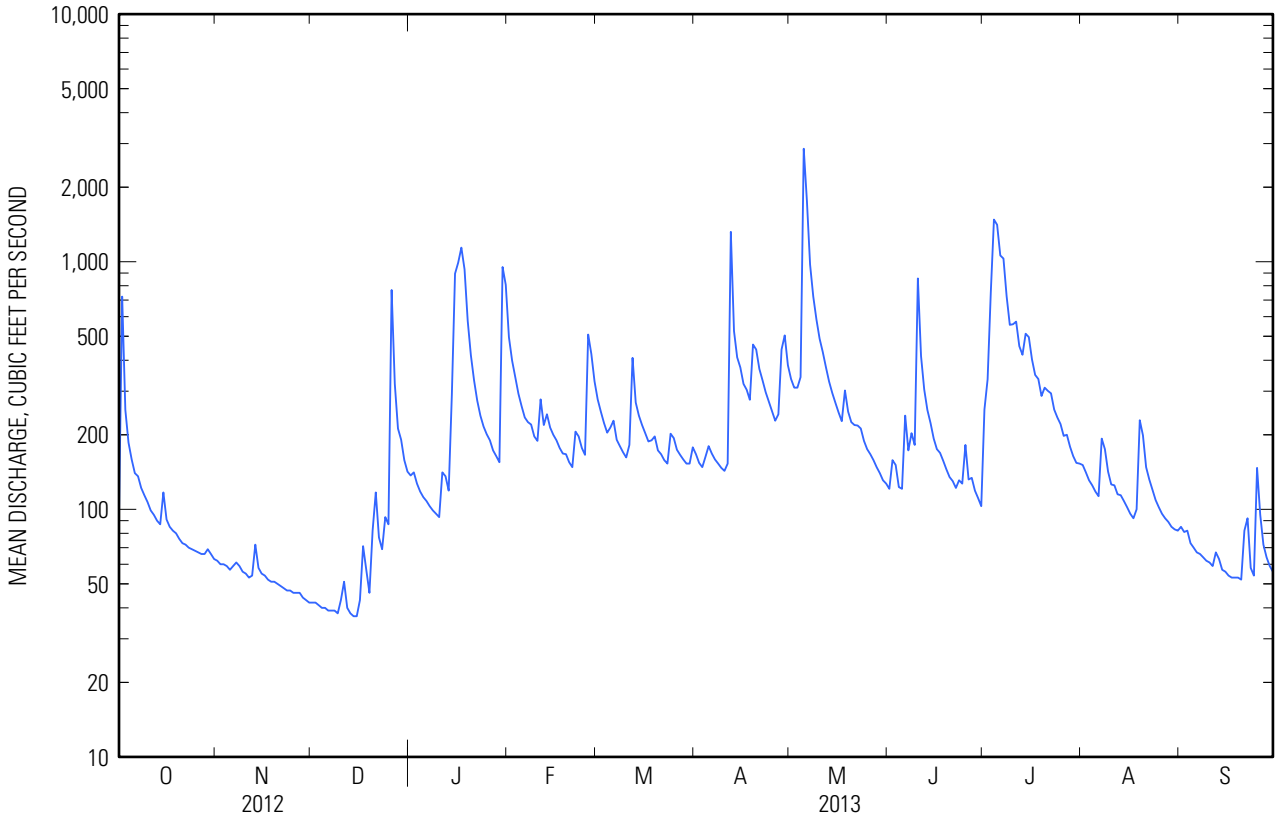
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1954 - 2013	
Annual total	40,006		81,488			
Annual mean	109		223		142	
Highest annual mean					223	2013
Lowest annual mean					71.9	1988
Highest daily mean	1,200	Sep 18	2,860	May 5	6,200	Sep 8, 2004
Lowest daily mean	34	Sep 14	37	Dec 14	11	Aug 12, 2008
Annual seven-day minimum	36	Sep 10	39	Dec 3	12	Aug 6, 2008
Maximum peak flow			4,280	May 5	[a]12,900	Sep 17, 2004
Maximum peak stage			6.71	May 5	13.05	Sep 17, 2004
Instantaneous low flow			[a]35	Dec 15	[a]11	Aug 8, 2008
Annual runoff (cfsm)	2.12		4.34		2.75	
Annual runoff (inches)	28.90		58.86		37.41	
10 percent exceeds	175		436		265	
50 percent exceeds	97		154		99	
90 percent exceeds	44		54		35	

[a] See Remarks.



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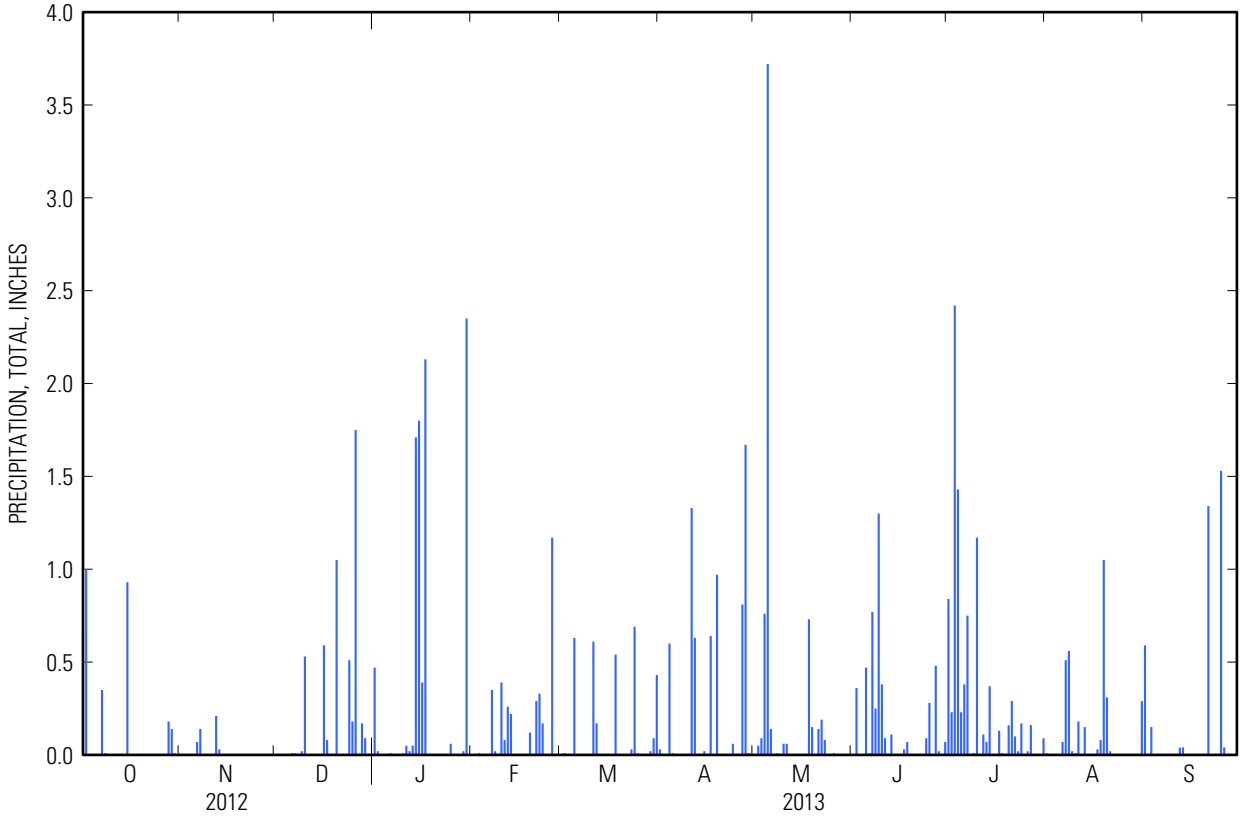
CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Evergreen Packaging Group. Precipitation data collected during freezing periods may not be accurately reflected in daily record.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.69	0.00	0.00	0.47	0.00	0.00	0.03	0.00	0.00	0.84	0.01	0.59
2	1.00	0.00	0.00	0.02	0.00	0.01	0.00	0.05	0.36	0.23	0.00	0.00
3	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.09	0.00	2.42	0.00	0.15
4	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.76	0.00	1.43	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.63	0.01	3.72	0.47	0.23	0.00	0.00
6	0.00	0.07	0.01	0.01	0.00	0.00	0.00	0.14	0.01	0.38	0.07	0.00
7	0.35	0.14	0.01	0.00	0.35	0.00	0.00	0.00	0.77	0.75	0.51	0.00
8	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.25	0.00	0.56	0.00
9	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.30	0.01	0.02	0.00
10	0.00	0.00	0.53	0.01	0.39	0.00	0.00	0.06	0.38	1.17	0.01	0.00
11	0.00	0.00	0.00	0.05	0.08	0.61	1.33	0.06	0.09	0.00	0.18	0.00
12	0.00	0.21	0.00	0.02	0.26	0.17	0.63	0.00	0.00	0.11	0.00	0.04
13	0.00	0.03	0.00	0.05	0.22	0.00	0.00	0.00	0.11	0.07	0.15	0.04
14	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00
15	0.93	0.00	0.00	1.80	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.59	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.08	2.13	0.00	0.00	0.64	0.00	0.03	0.13	0.03	0.00
18	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.73	0.07	0.01	0.08	0.00
19	0.00	0.00	0.00	0.00	0.12	0.00	0.97	0.15	0.00	0.00	1.05	0.00
20	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.31	0.00
21	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.14	0.00	0.29	0.02	1.34
22	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.19	0.00	0.10	0.00	0.00
23	0.00	0.00	0.00	0.00	0.17	0.03	0.00	0.08	0.00	0.02	0.00	0.00
24	0.00	0.00	0.51	0.00	0.00	0.69	0.06	0.00	0.09	0.17	0.00	0.00
25	0.00	0.00	0.18	0.06	0.00	0.01	0.00	0.00	0.28	0.00	0.00	1.53
26	0.00	0.00	1.75	0.00	1.17	0.00	0.00	0.01	0.00	0.02	0.00	0.04
27	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.48	0.16	0.00	0.00
28	0.18	0.00	0.17	0.00	0.00	0.00	1.67	0.00	0.02	0.00	0.00	0.00
29	0.14	0.00	0.09	0.02	---	0.02	0.01	0.00	0.00	0.00	0.00	0.00
30	0.01	0.00	0.00	2.35	---	0.09	0.00	0.00	0.07	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.43	---	0.00	---	0.09	0.29	---
Total	3.31	0.45	4.99	9.09	3.41	3.23	6.78	6.19	4.78	9.16	3.29	3.73

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