

Water-Data Report 2010

03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC

French Broad-Holston Basin
Pigeon Subbasin

LOCATION.--Lat 35°23'46", long 82°56'15" referenced to North American Datum of 1983, Haywood County, NC, Hydrologic Unit 06010106, on right bank at upstream side of bridge on Secondary Road 1216, 600 ft upstream from Big Creek, 1.1 mi upstream from Lake Logan, 6.7 mi southeast of Hazelwood, and at river mile 9.3.

DRAINAGE AREA.--27.6 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR NC-04-1: 1994 (annual maximum discharge)

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft above National Geodetic Vertical Datum of 1929, from benchmarks. Satellite and telephone telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum gage height for period of record from high-water mark. Maximum discharge for period of record from rating curve extended above 7,500 ft³/s on basis of slope area measurement of peak flow. Minimum discharge for period of record also occurred on August 22, 23, 2008. Minimum discharge for current water year also occurred on September 19, 20, 21, 22, 23, 24, 25, 26.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	78	290	99	150	140	81	115	69	55	36	23	19
2	73	169	428	131	232	82	107	71	46	33	20	18
3	68	144	247	e117	177	77	101	189	47	32	19	18
4	63	128	174	e107	160	74	95	106	42	30	23	17
5	112	116	154	e100	494	72	90	89	44	28	24	17
6	75	106	137	e94	362	70	85	82	39	26	21	16
7	73	98	126	e89	246	69	80	76	36	25	19	16
8	63	91	130	e86	212	72	133	71	33	24	19	16
9	61	86	480	e83	196	77	111	65	35	25	18	16
10	65	245	200	e82	172	90	90	64	35	25	17	15
11	58	713	167	e80	161	144	84	66	48	22	24	38
12	e72	306	154	e79	148	245	80	65	50	57	23	47
13	e75	224	286	79	141	193	77	60	36	36	38	20
14	74	187	193	77	135	132	73	59	34	36	29	17
15	98	162	168	75	125	115	70	59	40	27	24	16
16	81	145	149	78	118	109	68	57	77	49	21	16
17	75	134	138	400	117	106	65	65	59	65	24	15
18	69	524	147	179	109	101	62	54	41	34	27	15
19	66	246	133	136	102	99	60	50	37	34	23	15
20	67	193	e119	146	98	99	62	48	34	29	20	15
21	63	169	e112	234	97	306	67	50	31	27	117	14
22	58	159	e109	204	126	443	58	49	32	33	60	15
23	111	154	107	158	e108	168	56	45	39	30	35	15
24	310	136	110	674	e96	143	95	42	36	25	29	14
25	113	126	952	543	e89	133	192	46	55	28	27	14
26	96	117	319	271	e86	131	94	42	45	26	25	35
27	204	109	237	221	e84	115	92	39	93	24	24	65
28	253	103	203	194	e81	202	81	38	71	22	23	62
29	141	98	177	e171	---	181	75	37	45	22	22	26
30	122	110	163	e154	---	139	70	35	39	22	21	57
31	199	---	e164	e148	---	125	---	80	---	22	20	---
Total	3,136	5,588	6,482	5,340	4,412	4,193	2,588	1,968	1,354	954	859	699
Mean	101	186	209	172	158	135	86.3	63.5	45.1	30.8	27.7	23.3
Max	310	713	952	674	494	443	192	189	93	65	117	65
Min	58	86	99	75	81	69	56	35	31	22	17	14
Cfsm	3.67	6.75	7.58	6.24	5.71	4.90	3.13	2.30	1.64	1.12	1.00	0.84
In.	4.23	7.53	8.74	7.20	5.95	5.65	3.49	2.65	1.82	1.29	1.16	0.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	70.5	90.9	111	125	146	157	135	104	80.5	58.3	56.6	65.7
Max	229	301	234	272	355	312	291	289	213	207	187	575
(WY)	(1965)	(1980)	(1962)	(1998)	(1966)	(1975)	(1983)	(1976)	(1967)	(1967)	(1994)	(2004)
Min	13.5	26.8	29.7	34.0	56.1	53.7	47.8	42.0	27.2	17.4	16.4	13.0
(WY)	(1955)	(1979)	(1966)	(1981)	(2009)	(2006)	(1986)	(2007)	(2008)	(2008)	(1998)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1954 - 2010	
Annual total	39,228		37,573			
Annual mean	107		103		100	
Highest annual mean					143	1979
Lowest annual mean					58.6	2008
Highest daily mean	1,090	Sep 21	952	Dec 25	4,500	Feb 13, 1966
Lowest daily mean	18	Sep 14	14	Sep 21	9.6	Aug 22, 2008
Annual seven-day minimum	21	Sep 3	15	Sep 19	10	Aug 18, 2008
Maximum peak flow			2,060	Jan 24	^a 12,700	Sep 17, 2004
Maximum peak stage			4.51	Jan 24	^a 10.83	Sep 17, 2004
Instantaneous low flow			^a 14	Sep 18	^a 9.2	Aug 21, 2008
Annual runoff (cfsm)	3.89		3.73		3.63	
Annual runoff (inches)	52.87		50.64		49.33	
10 percent exceeds	186		197		182	
50 percent exceeds	85		77		70	
90 percent exceeds	26		22		26	

^a See Remarks.

