

Water-Data Report 2008

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(maximum discharge)

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft above NGVD of 1929. Satellite and telephone telemetry at station.

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 and current water year also occurred on August 22, 23.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	14	29	37	89	274	71	71	51	41	20	16	35
2	14	28	35	77	110	67	66	49	37	19	13	32
3	14	26	52	e73	94	65	70	48	35	19	12	28
4	27	25	37	e67	113	642	90	47	34	18	12	26
5	43	25	35	63	105	238	123	44	31	18	12	24
6	24	28	33	60	145	166	148	43	31	23	11	23
7	19	24	32	55	117	220	93	41	30	20	11	23
8	17	23	32	52	95	287	83	41	29	18	11	21
9	17	23	34	52	86	176	77	53	28	21	11	60
10	16	23	33	70	78	157	73	62	27	20	11	30
11	15	22	30	279	73	144	70	61	27	19	10	41
12	15	22	30	98	70	133	81	60	26	17	10	47
13	15	22	35	84	80	124	67	50	25	17	12	35
14	15	22	35	75	66	123	65	48	33	19	25	29
15	15	90	38	67	62	168	63	48	30	16	12	27
16	14	34	93	64	60	158	61	75	26	16	14	27
17	15	29	47	76	110	132	58	54	24	15	17	28
18	16	28	41	68	168	125	55	55	23	14	12	26
19	36	26	40	62	88	214	57	56	22	14	11	23
20	22	25	39	e58	80	160	54	51	22	14	10	23
21	17	25	59	e56	76	122	52	50	25	14	9.9	21
22	20	76	48	63	87	111	50	46	28	15	9.6	21
23	153	42	238	64	77	102	49	45	23	14	10	20
24	297	34	89	54	70	95	48	50	21	16	10	19
25	83	34	69	e52	68	89	47	43	21	14	20	18
26	55	104	68	50	110	85	48	42	20	20	1,120	21
27	46	74	66	47	84	81	50	41	23	18	285	29
28	40	51	112	45	74	77	96	41	23	14	78	22
29	36	45	108	47	71	78	60	40	27	18	55	21
30	33	40	146	88	---	73	54	38	24	21	43	19
31	30	---	118	56	---	71	---	37	---	17	38	---
Total	1,193	1,099	1,909	2,211	2,791	4,554	2,079	1,510	816	538	1,931.5	819
Mean	38.5	36.6	61.6	71.3	96.2	147	69.3	48.7	27.2	17.4	62.3	27.3
Max	297	104	238	279	274	642	148	75	41	23	1,120	60
Min	14	22	30	45	60	65	47	37	20	14	9.6	18
Cfsm	1.39	1.33	2.23	2.58	3.49	5.32	2.51	1.76	0.99	0.63	2.26	0.99
In.	1.61	1.48	2.57	2.98	3.76	6.14	2.80	2.04	1.10	0.73	2.60	1.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	70.8	90.2	109	125	147	158	136	105	81.0	59.3	57.7	65.4
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	68.7	53.7	47.8	42.0	27.2	17.4	16.4	13.0
(WY)	(1955)	(1979)	(1966)	(1981)	(1968)	(2006)	(1986)	(2007)	(2008)	(2008)	(1998)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1954 - 2008	
Annual total	19,399		21,450.5			
Annual mean	53.1		58.6		100	
Highest annual mean					143	1979
Lowest annual mean					58.6	2008
Highest daily mean	362	Jan 1	1,120	Aug 26	4,500	Feb 13, 1966
Lowest daily mean	12	Sep 13	9.6	Aug 22	9.6	Aug 22, 2008
Annual seven-day minimum	13	Sep 7	10	Aug 18	10	Aug 18, 2008
Maximum peak flow			4,300	Aug 26	^a 12,700	Sep 17, 2004
Maximum peak stage			6.97	Aug 26	^a 10.83	Sep 17, 2004
Instantaneous low flow			^a 9.2	Aug 21	^a 9.2	Aug 21, 2008
Annual runoff (cfs)	1.93		2.12		3.64	
Annual runoff (inches)	26.15		28.91		49.47	
10 percent exceeds	102		110		183	
50 percent exceeds	39		41		70	
90 percent exceeds	17		15		26	

^aSee Remarks.