

Water-Data Report 2007

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(M).

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 also occurred September 30, 1954. Minimum discharge for current water year also occurred September 12-14.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	43	58	316	362	71	208	70	40	33	24	27	35
2	41	67	137	149	74	343	66	39	32	24	25	21
3	40	55	114	128	63	133	55	49	29	23	25	18
4	38	53	103	116	84	111	e70	77	28	21	21	17
5	36	51	96	157	104	99	e56	69	25	20	36	15
6	37	49	90	157	84	93	53	64	24	32	44	14
7	35	88	85	198	61	88	51	51	23	48	31	14
8	35	120	84	292	58	84	50	47	23	31	24	14
9	35	72	107	171	56	79	49	45	22	36	21	13
10	33	65	76	148	58	77	48	44	21	40	20	13
11	33	66	73	135	72	75	51	42	21	60	19	13
12	44	65	71	130	54	72	62	61	21	42	18	13
13	32	59	74	121	73	69	49	53	21	30	17	12
14	31	55	68	112	75	68	49	45	27	28	16	226
15	31	295	64	106	54	69	110	43	35	26	15	65
16	31	353	62	105	67	292	67	41	26	26	15	32
17	369	152	60	95	77	112	60	41	22	32	14	26
18	125	126	59	95	53	92	57	39	89	30	14	23
19	81	112	58	92	72	85	54	37	47	24	14	21
20	119	102	56	85	50	81	53	36	33	22	13	19
21	77	94	57	106	117	77	50	35	25	21	14	23
22	70	92	267	129	71	73	49	33	22	22	15	21
23	63	86	110	98	60	70	47	33	21	21	13	19
24	59	81	85	91	58	66	46	36	46	21	25	18
25	56	77	126	85	101	64	45	32	31	21	26	17
26	54	73	109	81	78	61	47	31	33	23	24	16
27	83	70	88	80	69	60	53	30	30	21	22	16
28	120	68	82	77	65	58	44	29	25	27	18	15
29	72	67	78	82	---	59	43	28	35	25	18	14
30	65	190	76	71	---	57	41	27	30	50	44	14
31	61	---	327	81	---	54	---	26	---	38	53	---
Total	2,049	2,961	3,258	3,935	1,979	3,029	1,645	1,303	900	909	701	797
Mean	66.1	98.7	105	127	70.7	97.7	54.8	42.0	30.0	29.3	22.6	26.6
Max	369	353	327	362	117	343	110	77	89	60	53	226
Min	31	49	56	71	50	54	41	26	21	20	13	12
Cfsm	2.39	3.58	3.81	4.60	2.56	3.54	1.99	1.52	1.09	1.06	0.82	0.96
In.	2.76	3.99	4.39	5.30	2.67	4.08	2.22	1.76	1.21	1.23	0.94	1.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	71.4	91.2	110	126	148	158	137	106	82.0	60.0	57.6	66.1
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	30.0	23.3	16.4	13.0
(WY)	(1955)	(1979)	(1966)	(1981)	(1968)	(2006)	(1986)	(2007)	(2007)	(1993)	(1998)	(1954)

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

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1954 - 2007	
Annual total	26,343		23,466			
Annual mean	72.2		64.3		101	
Highest annual mean					143	1979
Lowest annual mean					59.6	1986
Highest daily mean	369	Oct 17	369	Oct 17	4,500	Feb 13, 1966
Lowest daily mean	21	Aug 1	12	Sep 13	10	Sep 28, 1954
Annual seven-day minimum	24	Jun 15	13	Sep 7	11	Sep 11, 1998
Maximum peak flow			1,820	Nov 15	^a 12,700	Sep 17, 2004
Maximum peak stage			4.42	Nov 15	^a 10.83	Sep 17, 2004
Instantaneous low flow			^a 12	Sep 11	^a 9.4	Sep 29, 1954
Annual runoff (cfsm)	2.61		2.33		3.67	
Annual runoff (inches)	35.51		31.63		49.86	
10 percent exceeds	118		113		183	
50 percent exceeds	56		53		70	
90 percent exceeds	32		20		26	

^a See Remarks.

