

Water-Data Report 2007

0208732534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°47'15", long 78°39'17" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, on right bank, downstream of Cameron Village Shopping Center in Wells Park, on the upstream side of Forest Drive.

DRAINAGE AREA.--0.27 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1996 to current year. Fragmentary records, July 1987 to September 1996, are available from the USGS Water Science Center, Raleigh, NC.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 320 ft above NGVD of 1929 from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. No flow occurred many days June to October 2002.

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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	0.10	0.20	1.3	0.79	1.1	0.62	0.32	e0.51	e0.07	0.23	0.04	0.02
2	0.09	0.20	0.37	0.37	0.34	2.9	0.36	e0.51	e0.07	e0.05	0.03	0.02
3	0.08	0.20	0.66	0.37	0.31	0.31	0.39	0.51	4.3	e0.05	0.03	0.10
4	0.08	0.20	0.37	0.37	0.31	0.35	e0.48	0.57	e0.07	e0.05	0.03	0.02
5	0.08	0.21	0.36	1.1	0.34	0.35	e0.29	0.53	e0.07	0.05	0.04	0.02
6	1.7	0.21	0.31	3.1	0.35	0.34	e0.31	0.60	e0.40	0.07	0.40	0.02
7	0.16	7.0	0.27	0.81	0.36	0.35	e0.40	0.47	0.16	0.06	0.03	0.02
8	1.1	0.57	0.28	1.2	0.36	0.36	e0.35	0.26	0.07	0.07	0.03	0.02
9	0.12	0.26	0.29	0.37	0.36	0.37	e0.33	0.32	2.2	0.10	0.05	0.02
10	0.12	0.25	0.30	0.37	0.37	0.34	0.31	0.22	0.49	0.34	0.48	0.02
11	0.11	0.25	0.30	0.37	0.37	0.32	0.61	0.15	e0.07	1.6	0.04	0.02
12	0.81	3.7	0.30	0.37	0.49	0.35	e1.3	e8.0	0.06	e0.05	0.04	0.02
13	0.10	0.43	0.31	0.37	1.3	0.41	e0.54	0.19	1.2	e0.05	0.03	0.05
14	0.10	0.36	0.31	e0.37	1.5	0.32	0.47	0.09	0.06	e0.05	0.03	3.3
15	0.10	0.26	0.31	0.37	0.36	0.31	e4.1	0.08	0.05	e0.05	0.03	0.61
16	0.11	4.0	0.31	0.37	e0.37	7.1	e0.57	0.08	0.05	e0.05	0.03	0.01
17	1.7	0.32	0.31	0.37	e0.37	0.35	0.57	0.09	e0.07	e2.0	0.03	0.01
18	0.47	0.29	0.31	0.69	e0.37	0.36	0.56	0.07	e0.07	3.6	0.03	0.01
19	0.14	0.29	0.32	0.37	e0.37	0.35	0.54	0.07	0.66	0.07	0.03	0.04
20	0.50	0.29	0.31	0.37	e0.37	0.30	0.52	0.06	e0.40	0.06	0.03	0.40
21	0.14	3.1	0.31	2.3	0.37	0.31	0.51	0.06	e0.07	0.05	0.44	0.02
22	0.23	6.5	3.2	1.8	0.38	0.31	0.50	0.06	0.04	0.05	0.03	0.05
23	0.16	0.55	0.40	0.31	0.37	0.29	0.48	0.06	0.04	0.07	2.0	0.03
24	0.16	0.42	0.36	0.31	0.37	0.29	0.47	0.06	0.04	0.04	0.09	0.01
25	0.17	0.36	5.3	0.31	3.1	0.28	0.45	0.06	e0.07	0.04	0.08	0.02
26	0.18	0.35	0.40	0.31	1.2	0.31	0.44	0.06	e0.07	0.04	1.0	0.01
27	1.2	0.36	0.35	0.32	0.42	0.30	1.4	0.06	e0.07	0.47	0.04	0.01
28	1.0	0.36	0.35	0.31	0.32	0.31	e0.51	0.06	e0.07	0.24	0.03	0.01
29	0.18	0.38	0.37	0.33	---	0.47	e0.51	0.07	0.27	0.04	0.03	0.01
30	0.19	0.63	0.37	0.35	---	0.31	e0.51	0.08	e0.07	0.61	0.03	0.01
31	0.19	---	0.37	0.34	---	0.31	---	0.07	---	0.04	0.03	---
Total	11.57	32.50	19.38	19.86	16.60	19.95	19.10	14.08	11.40	10.34	5.28	4.93
Mean	0.37	1.08	0.63	0.64	0.59	0.64	0.64	0.45	0.38	0.33	0.17	0.16
Max	1.7	7.0	5.3	3.1	3.1	7.1	4.1	8.0	4.3	3.6	2.0	3.3
Min	0.08	0.20	0.27	0.31	0.31	0.28	0.29	0.06	0.04	0.04	0.03	0.01
Cfsm	1.38	4.01	2.32	2.37	2.20	2.38	2.36	1.68	1.41	1.24	0.63	0.61
In.	1.59	4.48	2.67	2.74	2.29	2.75	2.63	1.94	1.57	1.42	0.73	0.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2007, BY WATER YEAR (WY)

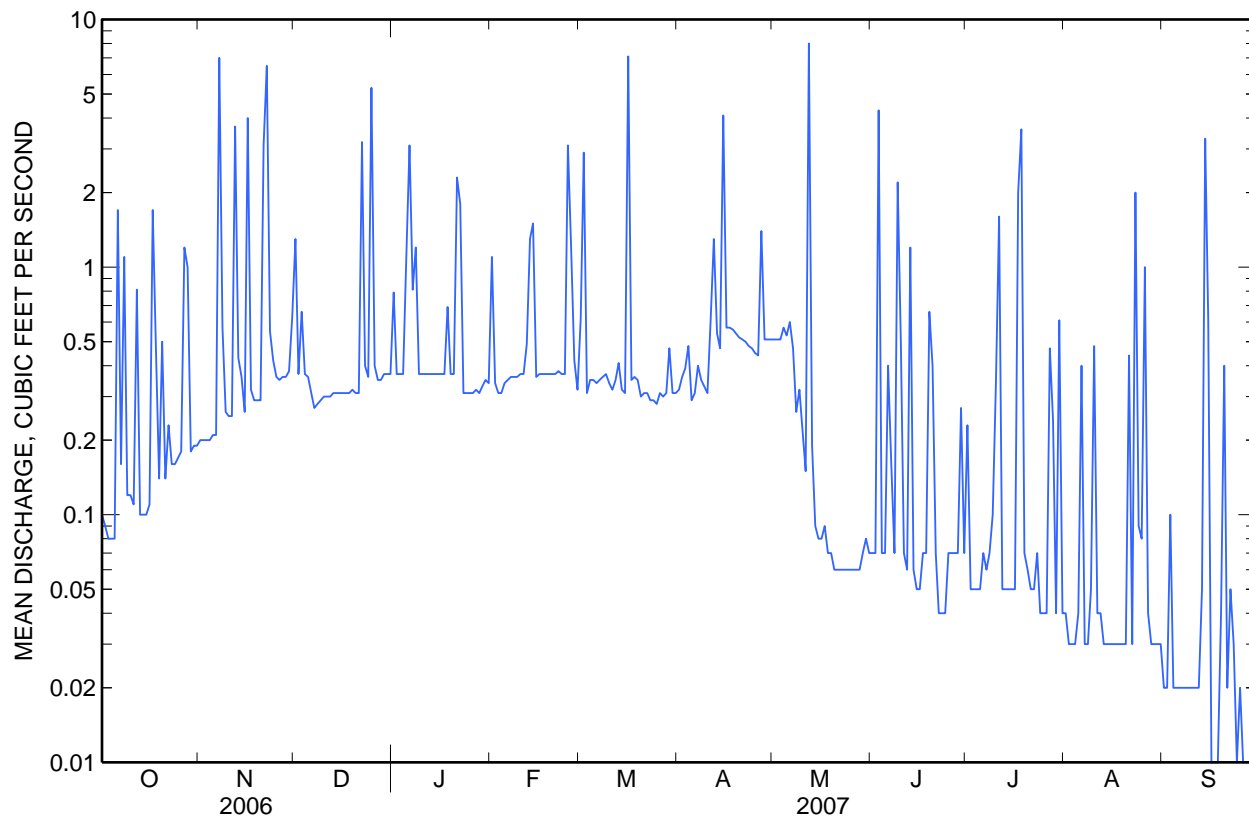
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.33	0.39	0.38	0.49	0.42	0.53	0.36	0.28	0.44	0.47	0.45	0.50
Max	0.81	1.08	0.74	1.32	1.02	1.31	0.64	0.60	1.12	0.91	0.85	2.78
(WY)	(2003)	(2007)	(2003)	(1998)	(1998)	(1998)	(2007)	(1997)	(2006)	(2003)	(2003)	(1999)
Min	0.03	0.04	0.12	0.05	0.11	0.12	0.05	0.05	0.18	0.21	0.17	0.08
(WY)	(2001)	(2002)	(2001)	(2001)	(2002)	(2006)	(2002)	(2002)	(1999)	(1999)	(2001)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1997 - 2007	
Annual total	158.94		184.99			
Annual mean	0.44		0.51		0.42	
Highest annual mean					0.69	1998
Lowest annual mean					0.20	2002
Highest daily mean	22	Jun 14	8.0	May 12	22	Jun 14, 2006
Lowest daily mean	0.03	Jan 7	0.01	Sep 16	0.00	Jun 24, 2002
Annual seven-day minimum	0.04	Jan 4	0.01	Sep 24	0.00	Aug 5, 2002
Maximum peak flow			NOT DETERMINED		NOT DETERMINED	
Maximum peak stage			8.65	May 12	8.65	May 12, 2007
Instantaneous low flow			0.00	Sep 28	^a 0.00	Jun 24, 2002
Annual runoff (cfsm)	1.61		1.88		1.55	
Annual runoff (inches)	21.90		25.49		21.12	
10 percent exceeds	0.88		1.0		0.91	
50 percent exceeds	0.11		0.31		0.10	
90 percent exceeds	0.04		0.03		0.02	

^a See Remarks.



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CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--July 1987 to current year. Records from July 1987 to January 2000 are unpublished and available in the USGS Water Science Center, Raleigh, NC.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.40	0.29	0.48	0.26	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	0.43	0.02	0.00	0.07	0.00	0.00	0.00
3	0.00	0.00	0.18	0.00	0.00	0.00	0.08	0.00	1.53	0.00	0.00	0.00
4	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.01	0.00	0.00	0.04	0.00
6	0.96	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.15	0.00	0.23	0.00
7	0.21	2.60	0.00	0.23	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
8	0.38	0.12	0.00	0.30	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
9	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.80	0.00	0.02	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.28	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.52	0.00	0.00
12	0.34	1.27	0.00	0.00	0.00	0.00	0.14	2.73	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.70	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	1.34
15	0.00	0.00	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00	0.26
16	0.00	1.38	0.00	0.00	0.00	2.08	0.00	0.01	0.00	0.00	0.00	0.00
17	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.91	0.01	0.00
18	0.13	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
20	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.22
21	0.00	1.16	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00
22	0.08	1.55	1.29	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	1.70	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00
27	0.59	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.27	0.00	0.00
28	0.28	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.18	0.00	0.01	0.05	0.00	0.00	0.00
30	0.00	0.11	0.00	0.00	---	0.00	0.00	0.00	0.00	0.31	0.00	0.00
31	0.00	---	0.02	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	3.99	8.19	3.61	2.98	1.71	2.95	2.58	2.93	3.55	4.25	1.85	1.82

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