

Water-Data Report 2007

0209782609 WHITE OAK CREEK AT MOUTH NEAR GREEN LEVEL, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 35°45'37", long 78°55'13" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03030002, on left bank on Secondary Road 1603, 1.8 mi south-southwest of Green Level.

DRAINAGE AREA.--11.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year. October 1999 to September 2003 published as "0209782520, White Oak Creek at Green Level, NC".

GAGE.--Water-stage recorder. Elevation of gage is 245 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. No flow occurs many days most years.

0209782609 WHITE OAK CREEK AT MOUTH NEAR GREEN LEVEL, 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	0.75	e1.6	6.2	16	11	7.7	e4.1	e2.0	e0.00	e0.00	e0.00	e0.00
2	0.40	e1.4	6.7	14	17	132	e3.8	e1.00	e0.00	e0.00	e0.00	e0.00
3	0.28	e1.2	4.6	8.6	9.6	21	e3.5	e0.51	1.5	e0.00	e0.00	e0.00
4	0.19	e1.0	8.6	7.7	7.8	11	e5.2	0.38	6.6	e0.00	e0.00	e0.00
5	0.16	e0.80	5.7	8.1	7.0	8.9	e3.2	0.37	1.8	e0.00	e0.00	e0.00
6	4.4	e0.60	5.2	205	6.8	7.7	e2.3	0.36	1.4	e0.00	e0.00	e0.00
7	8.3	e44	4.8	30	7.3	7.2	e5.4	0.30	0.96	e0.00	e0.00	e0.00
8	42	e166	4.5	69	6.7	7.2	e2.9	0.32	1.0	e0.00	e0.00	e0.00
9	9.3	e18	4.5	22	6.5	6.5	e1.7	0.46	0.62	e0.00	e0.00	e0.00
10	3.8	e8.8	4.1	12	6.5	6.5	e1.5	0.53	0.94	e0.00	e0.00	e0.00
11	1.3	e4.8	4.2	9.1	6.4	5.9	e4.7	0.45	0.48	e0.00	e0.00	e0.00
12	2.0	e152	4.5	8.1	6.6	6.1	e66	0.54	0.42	e0.00	e0.00	e0.00
13	2.2	e34	3.8	8.0	6.5	6.1	e13	1.0	0.42	e0.00	e0.00	e0.00
14	1.1	e12	4.2	7.5	40	5.7	6.9	1.2	1.8	e0.00	e0.00	e0.20
15	0.75	e6.3	4.2	7.1	12	e6.2	148	1.2	1.6	e0.00	e0.00	e0.01
16	0.80	239	4.2	7.1	9.1	e163	189	0.92	0.75	e0.00	e0.00	e0.01
17	1.6	62	4.0	6.4	7.8	e124	26	e0.50	0.35	e0.01	e0.00	e0.00
18	44	13	3.8	8.0	7.5	e23	14	e0.40	e0.27	e17	e0.00	e0.00
19	9.8	6.3	4.0	11	6.6	e13	9.8	e0.30	e0.20	e4.4	e0.00	e0.00
20	5.9	5.6	4.2	7.7	6.8	e9.2	9.6	e0.27	e0.22	e0.21	e0.00	e0.00
21	3.7	16	4.6	7.5	7.1	e8.0	6.8	e0.17	e0.24	e0.03	e0.00	e0.00
22	e2.5	627	11	73	6.8	e6.8	6.1	e0.12	e0.16	e0.00	e0.00	e0.00
23	e3.1	77	57	17	6.5	e6.3	e5.7	e0.10	e0.09	e0.00	e0.00	e0.00
24	e2.6	17	11	11	6.5	e5.8	e4.7	e0.07	e0.05	e0.00	e0.00	e0.00
25	e2.1	8.8	225	9.6	12	e4.9	e4.5	e0.06	e0.03	e0.00	e0.00	e0.00
26	e1.9	6.3	121	8.4	17	e4.6	e3.5	e0.05	e0.02	e0.00	e0.00	e0.00
27	e1.7	5.9	19	8.2	9.3	e4.0	e5.0	e0.04	e0.01	e0.00	e0.00	e0.00
28	e30	5.9	11	7.8	8.1	e3.8	e6.7	e0.06	e0.02	e0.00	e0.00	e0.00
29	e4.6	5.4	8.5	7.3	---	e5.0	e4.6	e0.01	e0.02	e0.00	e0.00	e0.00
30	e2.0	5.1	7.6	6.9	---	e6.1	e3.4	e0.00	e0.01	e0.00	e0.00	e0.00
31	e1.9	---	7.2	6.6	---	e4.6	---	e0.00	---	e0.00	e0.00	---
Total	195.13	1,552.80	578.9	635.7	268.8	637.8	571.6	13.69	21.98	21.65	0.00	0.22
Mean	6.29	51.8	18.7	20.5	9.60	20.6	19.1	0.44	0.73	0.70	0.00	0.01
Max	44	627	225	205	40	163	189	2.0	6.6	17	0.00	0.20
Min	0.16	0.60	3.8	6.4	6.4	3.8	1.5	0.00	0.00	0.00	0.00	0.00
Cfsm	0.53	4.35	1.57	1.72	0.81	1.73	1.60	0.04	0.06	0.06	0.00	0.00
In.	0.61	4.85	1.81	1.99	0.84	1.99	1.79	0.04	0.07	0.07	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2007, BY WATER YEAR (WY)

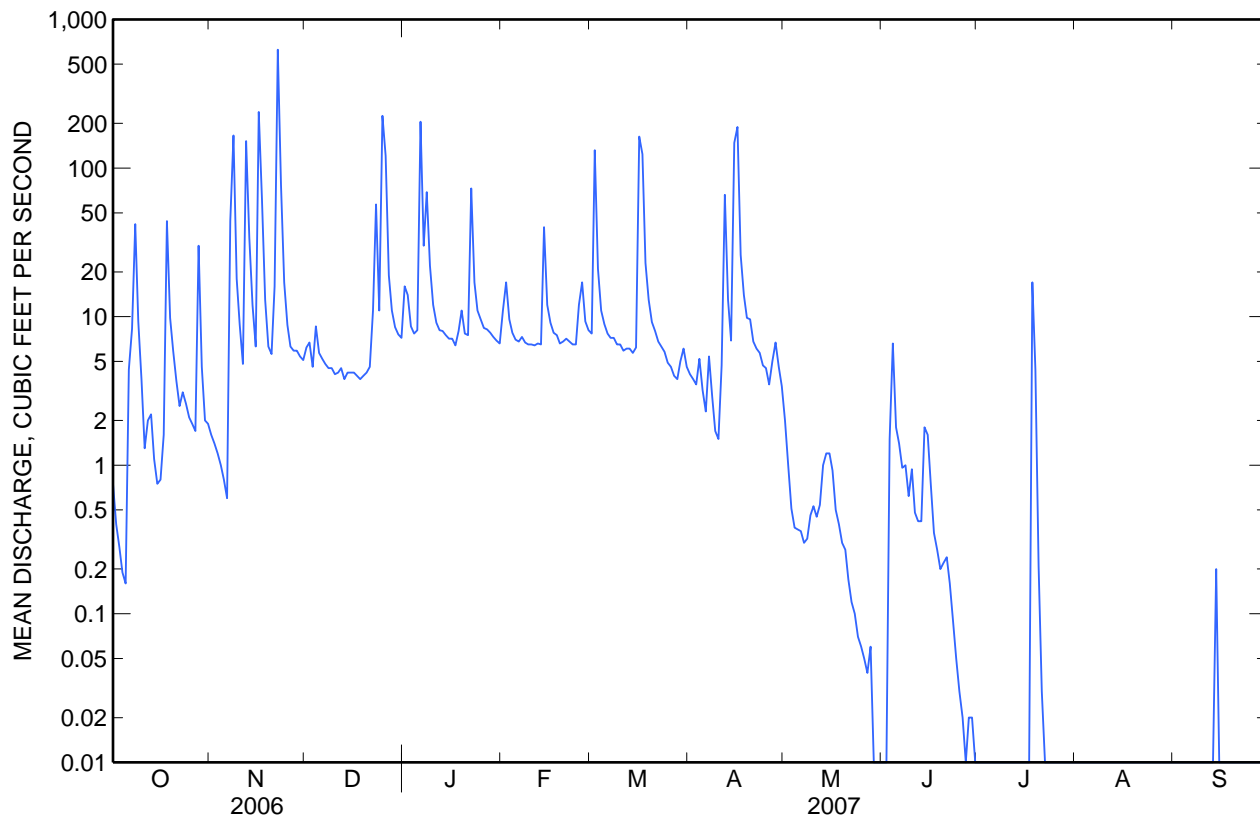
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.53	13.3	15.1	14.4	19.4	23.6	16.9	3.35	11.9	3.03	8.67	7.90
Max	23.8	51.8	43.5	28.6	51.4	56.4	44.8	9.68	53.0	5.19	30.2	27.4
(WY)	(2003)	(2007)	(2003)	(2000)	(2003)	(2003)	(2003)	(2004)	(2006)	(2001)	(2004)	(2004)
Min	0.77	0.21	2.35	3.26	6.84	4.06	5.52	0.20	0.00	0.01	0.00	0.01
(WY)	(2002)	(2002)	(2001)	(2001)	(2006)	(2006)	(2004)	(2002)	(2002)	(2002)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2000 - 2007	
Annual total	5,085.04		4,498.27			
Annual mean	13.9		12.3		11.9	
Highest annual mean					25.3	2003
Lowest annual mean					5.51	2002
Highest daily mean	1,240	Jun 14	627	Nov 22	1,240	Jun 14, 2006
Lowest daily mean	0.00	Aug 11	0.00	May 30	0.00	May 28, 2002
Annual seven-day minimum	0.00	Aug 11	0.00	Jul 1	0.00	May 28, 2002
Maximum peak flow			982	Nov 22	5,920	Jun 14, 2006
Maximum peak stage			9.29	Nov 22	13.50	Jun 14, 2006
Instantaneous low flow			NOT DETERMINED		^a 0.00	May 28, 2002
Annual runoff (cfsm)	1.17		1.04		1.00	
Annual runoff (inches)	15.90		14.06		13.64	
10 percent exceeds	18		16		24	
50 percent exceeds	3.1		3.5		2.8	
90 percent exceeds	0.28		0.00		0.01	

^a See Remarks.



0209782609 WHITE OAK CREEK AT MOUTH NEAR GREEN LEVEL, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated to define water quality as part of a regional surface-water quality assessment.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Instan- taneous dis- charge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
								conduc- tance, wat unf µS/cm 25 degC (00095)					
Oct													
02...	1015	.39	50	765	6.4	65	6.1	91	16.2	22	5.54	1.99	2.61
Nov													
16...	1545	469	300	745	6.1	64	7.0	49	16.8	13	3.25	1.28	3.80
Dec													
05...	0915	5.1	100	766	10.6	84	5.9	83	5.7	22	5.37	2.15	3.16
Feb													
13...	1430	6.6	100	745	11.6	95	6.0	87	6.2	21	5.10	1.95	2.05
Apr													
12...	0845	122	125	750	8.7	84	5.7	73	13.0	20	5.01	1.91	2.87
Jun													
04...	1430	4.8	60	747	6.0	71	6.1	120	22.4	30	7.47	2.67	3.04
Aug													
20...	0930	.00	60	760	--	--	--	145	24.8	25	5.57	2.59	3.14

0209782609 WHITE OAK CREEK AT MOUTH NEAR GREEN LEVEL, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO ₃ (00419)	Bicar-bonate, wat unfltrd, field, mg/L (00450)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)
Oct 02...	6.80	22	27	7.43	E.09	4.66	5.34	61	.58	.023	.020	<.002	<.006
Nov 16...	3.77	8	9	4.95	E.06	5.35	6.42	70	.84	<.020	.030	.002	.019
Dec 05...	6.65	18	21	8.01	E.06	7.59	7.48	60	.60	.030	.033	E.001	.008
Feb 13...	7.82	15	18	9.20	.10	5.52	9.03	66	.34	E.017	.044	E.001	E.003
Apr 12...	6.99	27	33	7.57	E.07	4.82	5.85	71	.98	<.020	.107	.003	E.004
Jun 04...	7.88	16	19	7.65	.11	3.90	16.4	91	.80	.023	.210	.006	E.006
Aug 20...	15.4	22	27	12.2	.23	2.02	18.2	89	.49	E.014	E.009	E.002	.006

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd, mg/L (00680)	Alum-inum, water, unfltrd recover-able, µg/L (01105)	Arsenic, water, unfltrd, µg/L (01002)	Cadmium, water, unfltrd, µg/L (01027)	Chrom-ium, water, unfltrd recover-able, µg/L (01034)	Cobalt, water, unfltrd recover-able, µg/L (01037)	Copper, water, unfltrd recover-able, µg/L (01042)	Iron, water, unfltrd recover-able, µg/L (01045)	Lead, water, unfltrd recover-able, µg/L (01051)	Mangan-ese, water, unfltrd recover-able, µg/L (01055)	Mercury, water, fltrd, µg/L (71890)
Oct 02...	.054	--	11.0	327	.81	E.01	E.52	.825	1.3	1,710	.94	194	--
Nov 16...	.155	--	17.6	1,990	.92	.03	1.8	1.12	4.0	1,790	3.05	156	--
Dec 05...	.059	--	9.5	--	--	--	--	--	--	--	--	--	--
Feb 13...	.029	--	6.8	--	--	--	--	--	--	--	--	--	--
Apr 12...	.173	--	16.9	1,910	1.4	.02	1.5	2.6	3.2	3,750	4.18	359	--
Jun 04...	.093	--	12.5	--	--	--	--	--	--	--	--	--	--
Aug 20...	.042	8.0	9.2	--	--	--	--	--	--	--	--	--	<.010

0209782609 WHITE OAK CREEK AT MOUTH NEAR GREEN LEVEL, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Mercury water, unfltrd recover -able, µg/L (71900)	Molyb- denum, water, unfltrd recover -able, µg/L (01062)	Nickel, water, unfltrd recover -able, µg/L (01067)	Selen- ium, water, unfltrd µg/L (01147)	Silver, water, unfltrd recover -able, µg/L (01077)	Zinc, water, unfltrd recover -able, µg/L (01092)	Sus- pended sedi- ment concen- tration mg/L (80154)
Oct 02...	E.005	M	.78	.15	<.02	6	38
Nov 16...	.014	.1	1.66	.14	<.02	11	111
Dec 05...	--	--	--	--	--	--	15
Feb 13...	--	--	--	--	--	--	8
Apr 12...	.011	.1	1.7	.21	<.02	8.5	119
Jun 04...	--	--	--	--	--	--	30
Aug 20...	<.010	--	--	--	--	--	--