

Water-Data Report 2008

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. Datum of gage is 236.14 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--Records poor. No flow occurs at times most years.

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

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	e0.00	0.35	1.8	15	19	12	46	6.6	1.5	0.48	0.01	4.8
2	e0.00	0.51	1.5	8.6	19	12	20	4.7	0.65	0.03	0.01	0.19
3	e0.00	0.85	1.6	5.7	11	12	15	4.4	e0.45	0.01	0.00	0.04
4	e0.00	0.91	1.4	4.9	8.9	13	24	3.6	e0.16	0.00	0.00	0.02
5	e0.00	1.1	0.98	4.3	9.0	153	48	3.3	e0.05	72	0.00	0.01
6	e0.00	0.94	1.3	5.5	9.2	28	41	3.1	e0.04	25	0.00	680
7	e0.00	1.5	1.9	7.6	9.6	85	24	2.8	e0.03	77	0.00	48
8	e0.00	1.2	1.8	8.0	10	159	18	3.6	e0.02	10	0.00	9.0
9	e0.00	1.3	1.6	8.6	11	36	15	6.8	e0.01	3.7	0.00	1.9
10	e0.00	1.6	1.8	9.6	11	20	13	8.6	e0.00	8.9	0.00	2.5
11	e0.00	1.6	1.8	9.8	10	16	11	9.0	e0.00	3.4	0.00	8.3
12	e0.00	1.4	2.8	9.3	11	14	12	22	e0.00	2.0	0.00	1.3
13	e0.00	1.3	2.5	9.3	32	12	14	8.7	0.00	1.3	0.00	0.28
14	e0.00	1.5	1.5	9.3	32	9.9	11	5.8	0.00	0.95	0.00	0.09
15	e0.00	1.8	2.9	10	17	13	e11	5.7	0.00	3.2	0.18	0.04
16	e0.00	2.2	9.6	10	13	67	e9.9	10	0.00	1.3	0.05	28
17	e0.00	2.6	4.3	12	12	17	e9.0	15	0.00	0.73	0.03	33
18	e0.00	2.2	1.6	17	18	10	e7.8	8.7	0.00	0.55	0.03	5.3
19	e0.00	2.0	1.1	13	15	7.3	e7.7	17	0.00	0.72	0.02	0.57
20	e0.00	2.1	0.65	16	13	7.4	e8.9	8.5	0.00	29	0.02	0.26
21	e0.01	1.9	0.69	12	12	3.0	e11	17	0.00	3.1	0.03	e0.15
22	e0.00	1.7	0.82	11	13	4.0	e9.2	5.8	0.00	0.56	0.02	e0.07
23	e0.00	1.9	1.1	11	14	4.9	e9.3	3.9	0.00	0.20	0.03	e0.03
24	e0.01	2.2	0.72	11	12	4.3	e8.0	3.4	0.00	0.11	0.03	e0.02
25	e0.01	2.0	0.94	11	11	3.2	e6.8	2.8	0.00	0.07	0.03	e2.8
26	e4.0	2.0	6.3	12	15	2.1	e6.1	2.3	0.00	0.02	0.03	e18
27	49	0.73	9.0	12	37	e1.7	e5.9	1.8	0.00	0.01	18	e8.2
28	3.1	2.1	2.4	11	16	e1.6	31	1.7	0.00	0.06	20	e2.5
29	0.29	2.1	1.9	12	12	e0.90	36	2.3	0.00	0.05	0.96	e0.95
30	0.19	1.4	76	8.2	---	e2.0	11	3.1	9.8	0.01	3.7	e0.80
31	0.24	---	85	7.7	---	32	---	2.5	---	0.02	96	---
Total	56.85	46.99	229.30	312.4	432.7	763.30	500.6	204.5	12.71	244.48	139.18	857.12
Mean	1.83	1.57	7.40	10.1	14.9	24.6	16.7	6.60	0.42	7.89	4.49	28.6
Max	49	2.6	85	17	37	159	48	22	9.8	77	96	680
Min	0.00	0.35	0.65	4.3	8.9	0.90	5.9	1.7	0.00	0.00	0.00	0.01
Cfs/m	0.15	0.13	0.62	0.85	1.25	2.07	1.40	0.55	0.04	0.66	0.38	2.40
In.	0.18	0.15	0.72	0.98	1.35	2.39	1.56	0.64	0.04	0.76	0.44	2.68

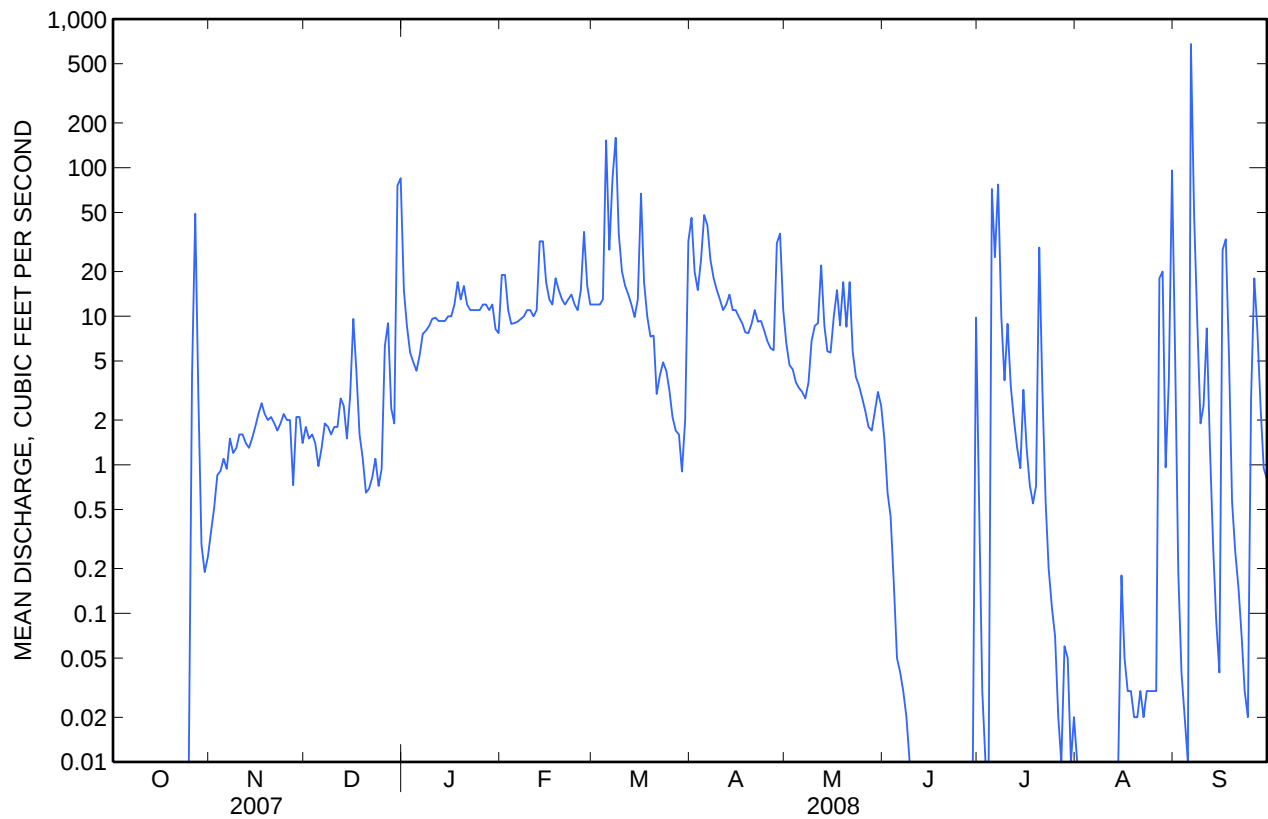
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.01	12.0	14.2	13.9	18.9	23.7	16.9	3.71	10.7	3.57	8.20	10.2
Max	23.8	51.8	43.5	28.6	51.4	56.4	44.8	9.68	53.0	7.89	30.2	28.6
(WY)	(2003)	(2007)	(2003)	(2000)	(2003)	(2003)	(2003)	(2004)	(2006)	(2008)	(2004)	(2008)
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 2007		Water Year 2008		Water Years 2000 - 2008	
Annual total	2,504.58		3,800.13			
Annual mean	6.86		10.4		11.8	
Highest annual mean					25.3	2003
Lowest annual mean					5.51	2002
Highest daily mean	205	Jan 6	680	Sep 6	1,240	Jun 14, 2006
Lowest daily mean	0.00	May 30	0.00	Oct 1	0.00	May 28, 2002
Annual seven-day minimum	0.00	Jul 1	0.00	Oct 1	0.00	May 28, 2002
Maximum peak flow			2,020	Sep 6	5,920	Jun 14, 2006
Maximum peak stage			10.72	Sep 6	13.50	Jun 14, 2006
Instantaneous low flow			^a 0.00	Oct 1	^a 0.00	May 28, 2002
Annual runoff (cfs)	0.577		0.873		0.989	
Annual runoff (inches)	7.83		11.88		13.44	
10 percent exceeds	9.6		18		23	
50 percent exceeds	1.1		2.5		2.7	
90 percent exceeds	0.00		0.00		0.00	

^aSee Remarks

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year. Prior to September 2003 published as "White Oak Creek at Green Level, NC" (0209782520).

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 4

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
Oct 02...	0930	.00	30	764	3.9	41	6.5	198	18.3	28	6.29	3.02	4.04
Feb 06...	1015	9.4	50	754	9.2	84	6.5	110	11.1	25	6.11	2.30	3.41
Apr 02...	1415	19	70	764	8.6	86	6.3	75	15.4	20	4.86	1.79	2.61
Jun 02...	1345	.09	150	757	4.3	49	6.7	102	22.1	33	8.44	2.98	3.00
Aug 04...	1415	.00	100	759	10.8	134	7.6	97	25.7	31	8.23	2.63	2.26

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 4

[Remark codes: <, less than; E, estimated.]

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrate + nitrite, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)
Oct 02...	24.2	21	26	20.3	.48	2.08	32.0	119	.48	E.014	E.012	<.002	E.003
Feb 06...	9.44	10	12	12.9	<.12	5.89	18.7	71	.38	<.020	<.016	<.002	E.004
Apr 02...	6.62	12	14	7.04	E.08	7.25	11.0	64	.58	<.020	E.011	<.002	.007
Jun 02...	7.26	35	43	7.16	.12	6.19	3.23	84	.71	.097	.036	.003	.006
Aug 04...	6.49	25.5	31.1	5.64	.14	5.26	2.25	82	.61	<.020	.022	.002	.010

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 4

[Remark codes: <, less than; E, estimated.]

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...	.026	5.9	6.6	81	.61	<.01	E.23	.33	1.6	596	.30	135	<.010
Feb 06...	.029	6.3	7.4	--	--	--	--	--	--	--	--	--	<.010
Apr 02...	.051	9.0	10.8	441	E.58	.01	.64	.75	2.5	1,060	.96	84.1	<.010
Jun 02...	.055	11.4	13.0	--	--	--	--	--	--	--	--	--	<.010
Aug 04...	.045	12.2	10.8	--	--	--	--	--	--	--	--	--	<.010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 4

[Remark codes: <, less than; E, estimated.]

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 sediment concentration mg/L (80154)
Oct 02...	<.010	.7	.59	.09	<.02	E1.9	13
Feb 06...	<.010	--	--	--	--	--	13
Apr 02...	E.006	E.1	1.2	.15	<.02	5.5	16
Jun 02...	<.010	--	--	--	--	--	12
Aug 04...	<.010	--	--	--	--	--	10