

Water-Data Report 2007

0208114055 ROANOKE RIVER AT PLYMOUTH, NC

Roanoke Basin
Lower Roanoke Subbasin

LOCATION.--Lat 35°53'00", long 76°45'18" referenced to North American Datum of 1983, Washington County, NC, Hydrologic Unit 03010107, at pier on right bank, 250 ft upstream of city boat ramp, approximately 8 mi upstream from mouth, at Plymouth.

DRAINAGE AREA.--9,329 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1996 to September 2001 (gage height only), August 2006 to September 2007, discharge measurements only. Records from August 1996 to September 1997 are unpublished and available from the North Carolina Water Science Center, Raleigh, NC.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft³/s
Nov 6, 2006	5,480
Apr 4, 2007	6,500
May 1, 2007	8,580
May 30, 2007	3,420
Jun 27, 2007	2,280
Jul 31, 2007	1,750
Sep 5, 2007	738

0208114055 ROANOKE RIVER AT PLYMOUTH, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2006 to 2008.

REMARKS.--Station operated in cooperation with the U.S. Army Corps of Engineers. Water-quality measurements and samples for water years 2006 to 2008 were collected by the U.S. Geological Survey and the North Carolina Department of Environment and Natural Resources, Division of Water Quality.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

[Remark codes: <, less than.]

Date	Time	Sample type	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Sus- pended sedi- ment concen- tration mg/L (80154)
Nov									
06...	1435	Environmental	5,480	9.2	7.2	143	14.7	.6	115
Apr									
04...	1500	Environmental	6,500	9.2	7.0	118	15.8	<1.0	38
18...	1015	Environmental	--	8.4	6.4	96	14.3	<1.0	--
May									
01...	1400	Environmental	8,580	6.1	6.5	117	19.4	<1.0	284
15...	1000	Environmental	--	6.7	7.1	108	19.9	<1.0	--
30...	1000	Environmental	3,420	7.7	7.2	150	24.3	1.1	94
30...	1005	Replicate	3,420	7.7	7.2	150	24.3	4.0	--
Jun									
14...	1125	Environmental	--	6.4	7.0	114	26.6	<1.0	--
27...	0900	Environmental	2,280	8.9	7.3	154	27.9	<1.0	17
Jul									
16...	1140	Environmental	--	6.4	7.0	118	29.1	<2.0	--
31...	1745	Environmental	1,750	6.1	7.2	176	29.4	<1.0	40
Aug									
15...	1115	Environmental	--	6.2	6.7	110	29.1	<1.0	--
Sep									
05...	0845	Environmental	738	6.7	7.3	188	28.3	<1.1	14
19...	1040	Environmental	--	6.4	7.1	124	24.9	<1.0	--

0208114055 ROANOKE RIVER AT PLYMOUTH, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

[Remark codes: <, less than.]

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Suspended sediment concentration mg/L (80154)
Oct								
02...	1415	1,060	6.2	7.4	238	24.7	<1.0	10
15...	1105	--	6.8	6.8	139	22.9	<1.0	--
Nov								
06...	1100	12	7.5	7.3	223	17.1	<1.0	6