



Water-Data Report 2012

0205504515 ROANOKE RIVER BELOW GARNAND BRANCH AT ROANOKE, VA

Roanoke Basin
Upper Roanoke Subbasin

LOCATION.--Lat 37°15'10.4", long 79°54'59.3" referenced to North American Datum of 1983, Roanoke City, VA, Hydrologic Unit 03010101, 2800 ft downstream of 9th Street bridge, in riffle.

DRAINAGE AREA.--388 mi².

WATER-QUALITY RECORDS

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 5
[mm, millimeters]

| Date | Sample start time | Medium name | Sample type | Exposed bedrock in streambed (fraction of the streambed that is exposed bedrock), percent (34777) | Bed sediment, direct measurement, percent smaller than 0.063 mm (69140) | Bed sediment, direct measurement, percent smaller than 0.125 mm (69136) | Bed sediment, direct measurement, percent smaller than 0.25 mm (69132) | Bed sediment, direct measurement, percent smaller than 0.5 mm (69128) | Bed sediment, direct measurement, percent smaller than 1 mm (69124) |
|------------|-------------------|-----------------|-------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------|
| 08-07-2012 | 1600 | Bottom material | Regular | 26 | 18 | 25 | 28 | 31 | 32 |

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 2 of 5
[mm, millimeters]

| Date | Sample start time | Bed sediment, direct measurement, percent smaller than 2 mm (69120) | Bed sediment, direct measurement, percent smaller than 4 mm (69116) | Bed sediment, direct measurement, percent smaller than 5.6 mm (69114) | Bed sediment, direct measurement, percent smaller than 8 mm (69111) | Bed sediment, direct measurement, percent smaller than 11.2 mm (69109) | Bed sediment, direct measurement, percent smaller than 16 mm (69106) | Bed sediment, direct measurement, percent smaller than 22.4 mm (69104) | Bed sediment, direct measurement, percent smaller than 31.5 mm (69101) | Bed sediment, direct measurement, percent smaller than 45 mm (69099) |
|------------|-------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------|
| 08-07-2012 | 1600 | 33 | 33 | 34 | 34 | 36 | 40 | 45 | 53 | 61 |

0205504515 ROANOKE RIVER BELOW GARNAND BRANCH AT ROANOKE, VA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 of 5
[mm, millimeters]

| Date | Sample start time | Bed sediment, direct measurement, percent smaller than 64 mm (69095) | Bed sediment, direct measurement, percent smaller than 90 mm (69093) | Bed sediment, direct measurement, percent smaller than 128 mm (69088) | Bed sediment, direct measurement, percent smaller than 192 mm (69087) | Bed sediment, direct measurement, percent smaller than 256 mm (69086) | Bed sediment, direct measurement, percent smaller than 384 mm (69085) | Bed sediment, direct measurement, percent smaller than 512 mm (69084) | Bed sediment, direct measurement, percent smaller than 1024 mm (69082) | Bed sediment, direct measurement, percent smaller than 2048 mm (69080) |
|------------|-------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| 08-07-2012 | 1600 | 67 | 71 | 72 | 73 | 73 | 73 | 74 | 74 | 74 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 4 of 5
[mm, millimeters]

| Date | Sample start time | Bed sediment, dry sieved, sieve diameter, percent smaller than 0.0625 mm (80164) | Bed sediment, dry sieved, sieve diameter, percent smaller than 0.125 mm (80165) | Bed sediment, dry sieved, sieve diameter, percent smaller than 0.25 mm (80166) | Bed sediment, dry sieved, sieve diameter, percent smaller than 0.5 mm (80167) | Bed sediment, dry sieved, sieve diameter, percent smaller than 1 mm (80168) | Bed sediment, dry sieved, sieve diameter, percent smaller than 2 mm (80169) | Bed sediment, dry sieved, sieve diameter, percent smaller than 4 mm (80170) | Bed sediment, dry sieved, sieve diameter, percent smaller than 8 mm (80171) | Bed sediment, dry sieved, sieve diameter, percent smaller than 16 mm (80172) |
|------------|-------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 08-07-2012 | 1600 | <1.0 | 2 | 6 | 12 | 17 | 27 | 40 | 57 | 72 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO
SEPTEMBER 2012

Part 5 of 5
[mm, millimeters]

| Date | Sample start time | Bed sediment, dry sieved, sieve diameter, percent smaller than 32 mm (80173) |
|------------|-------------------|------------------------------------------------------------------------------|
| 08-07-2012 | 1600 | 100 |