

**Ohio EPA 2008 Integrated Report Section M2  
Watershed Assessment Unit (WAU) Results**

**HUC11**

**WAU Description**

**WAU Size (mi<sup>2</sup>): 159.7**

05060001 010

Scioto River (headwaters to downstream Taylor Creek)

**Integrated Report Assessment Category: 5**

**Priority Points: 6**

**Next Scheduled Monitoring: 2009**

**Aquatic Life Use Assessment**

Subcategories of ALU: WWH,MWH-C

Sampling Year(s): 1995

Impairment: Yes (5-Historical)

Stream Size Category	Raw Data		% Attainment			WAU Score		
	Data Available	No. Attaining	Full	Partial	Non	Full	Partial	Non
Secondary Tributaries								
< 5 mi <sup>2</sup>	Site(s)	Site(s)						
Primary Tributaries								
5-20 mi <sup>2</sup>	8 Site(s)	4 Site(s)	41.7	39.6	18.7			
20-50 mi <sup>2</sup>	3 Site(s)	1 Site(s)						
						38	53	9
Principal Streams								
50-500 mi <sup>2</sup>	4 Site(s)							
	24.9 Miles	8.6 Miles	34.6	65.4	0.00			

High Magnitude Causes

High Magnitude Sources

Direct Habitat Alterations

Channelization - Agriculture

**Recreation Use Assessment**

Subcategory of Use: Primary Contact

Impairment: Yes (5)

Cause: Pathogens

Geometric Mean: 648

No. Ambient Sites: 7

No. Ambient Sampling Records: 18

75<sup>th</sup> %ile: 3200

No. of NPDES MOR Sites: 2

No. of NPDES MOR Records: 37

90<sup>th</sup> %ile: 6900

Other:

**Public Drinking Water Supply Assessment**

Location(s): No Public Drinking Water Supply Intakes

Impairment:

Nitrate Indicator:

Cause:

Pesticide Indicator:

**Fish Tissue Assessment**

Waters Sampled: No Impairment: Unknown (3)

Stream Miles Monitored: 0.00 Stream Miles Impaired: Pollutants (Waterbody):

Lake Acres Monitored: 0.0 Lake Acres Impaired:

**WAU Comments**

Biological and water quality data collected in 1995 were used in the 2002 Integrated Report which resulted in a Category 5 (impaired) listing for the aquatic life beneficial use. These data have since exceeded the ten-year threshold and are now considered historical. However, while reflecting the current status that no aquatic life data are available to assess beneficial use status, the assessment unit continues to have a recreation use impairment. As such, the assessment unit will remain Category 5 until TMDLs for all beneficial use impairments (aquatic life and recreation) are completed and approved by the U.S. EPA.

**Ohio EPA 2008 Integrated Report Section M2  
Watershed Assessment Unit (WAU) Results**

**HUC11**

**WAU Description**

**WAU Size (mi<sup>2</sup>): 105.3**

05060001 020

Rush Creek

**Integrated Report Assessment Category: 5**

**Priority Points: 3**

**Next Scheduled Monitoring: 2009**

**Aquatic Life Use Assessment**

Subcategories of ALU: WWH,LRW

Sampling Year(s):

Impairment: Unknown (3)

Stream Size Category	Raw Data		% Attainment			WAU Score		
	Data Available	No. Attaining	Full	Partial	Non	Full	Partial	Non
Secondary Tributaries								
< 5 mi <sup>2</sup>	Site(s)	Site(s)						
Primary Tributaries								
5-20 mi <sup>2</sup>	Site(s)	Site(s)						
20-50 mi <sup>2</sup>	Site(s)	Site(s)						
Principal Streams								
50-500 mi <sup>2</sup>	Site(s)							
	Miles	Miles						
<u>High Magnitude Causes</u>				<u>High Magnitude Sources</u>				

**Recreation Use Assessment**

Subcategory of Use: Primary Contact

Impairment: Yes (5-Historical)

Cause: Pathogens

Geometric Mean: 805

No. Ambient Sites: 0

No. Ambient Sampling Records: 0

75<sup>th</sup> %ile: 1700

No. of NPDES MOR Sites: 1

No. of NPDES MOR Records: 13

90<sup>th</sup> %ile: 3340

Other:

**Public Drinking Water Supply Assessment**

Location(s): No Public Drinking Water Supply Intakes

Impairment:

Nitrate Indicator:

Cause:

Pesticide Indicator:

**Fish Tissue Assessment**

Waters Sampled: No Impairment: Unknown (3)

Stream Miles Monitored: 0.00 Stream Miles Impaired: Pollutants (Waterbody):

Lake Acres Monitored: 0.0 Lake Acres Impaired:

**WAU Comments**



**Ohio EPA 2008 Integrated Report Section M2  
Watershed Assessment Unit (WAU) Results**

**HUC11**

**WAU Description**

**WAU Size (mi<sup>2</sup>): 112.6**

05060001 040

Little Scioto River

**Integrated Report Assessment Category: 5**

**Priority Points: 4**

**Next Scheduled Monitoring: 2009**

**Aquatic Life Use Assessment**

Subcategories of ALU: WWH,MWH-C,LRW

Sampling Year(s): 1998, 1999

Impairment: Yes (5)

Stream Size Category	Raw Data		% Attainment			WAU Score		
	Data Available	No. Attaining	Full	Partial	Non	Full	Partial	Non
<b>Secondary Tributaries</b>								
< 5 mi <sup>2</sup>	2 Site(s)	1 Site(s)						
<b>Primary Tributaries</b>								
5-20 mi <sup>2</sup>	4 Site(s)	0 Site(s)	37.5	25.0	37.5			
20-50 mi <sup>2</sup>	2 Site(s)	1 Site(s)				19	21	60
<b>Principal Streams</b>								
50-500 mi <sup>2</sup>	2 Site(s) 11.6 Miles	0.0 Miles	0.00	17.2	82.8			

High Magnitude Causes

High Magnitude Sources

Priority Organics  
Metals  
Nutrients  
Siltation  
Organic Enrichment/DO  
Flow Alteration  
Direct Habitat Alterations  
Oil and Grease

Combined Sewer Overflow  
Nonirrigated Crop Production  
Onsite Wastewater Systems ( Septic Tanks)  
Channelization - Agriculture  
Channelization - Development  
Removal of Riparian Vegetation - Ag.  
Contaminated Sediments  
Natural

**Recreation Use Assessment**

Subcategory of Use: Primary Contact

Impairment: Yes (5)

Cause: Pathogens

Geometric Mean: 498

No. Ambient Sites: 3

No. Ambient Sampling Records: 6

75<sup>th</sup> %ile: 1025

No. of NPDES MOR Sites: 1

No. of NPDES MOR Records: 202

90<sup>th</sup> %ile: 3290

Other: A "Dermal Contact Advisory" is in effect for the Little Scioto River due to PAH contamination. The area under the advisory is from St. Rt. 739 near Marion to Holland Rd. near Marion (Marion County).

**Public Drinking Water Supply Assessment**

Location(s): Little Scioto River @RM 7.1 [Marion-Ohio American Water]

Impairment: Unknown (3-Insufficient Data)

Nitrate Indicator: Insufficient Data

Cause:

Pesticide Indicator: Insufficient Data

**Fish Tissue Assessment**

Waters Sampled: Yes Impairment: Unknown (3-Indeterminate Data)

Stream Miles Monitored: 12.10 Stream Miles Impaired: Pollutants (Waterbody):

Lake Acres Monitored: 0.0 Lake Acres Impaired:

**WAU Comments**

A USEPA funded project to remediate contaminated sediments in the Little Scioto River is underway. Future monitoring within the watershed will be conducted within the normal rotating basin schedule after the cessation of the project and when sufficient recovery time has elapsed.



**Ohio EPA 2008 Integrated Report Section M3  
Large River Assessment Unit (LRAU) Results**

**LRAU Description**

Scioto River Mainstem (downstream Little Scioto River to mouth)

**LRAU Size (mi<sup>2</sup>)**

6517.0

**Integrated Report Assessment Category: 5**

**Priority Points: 9**

**Next Scheduled Monitoring: 2009**

**Aquatic Life Use (ALU) Assessment**

Subcategories of ALU: WWH, MWH-Impounded

Sampling Year(s): 1997, 2005

Impairment: Yes (5)

LRAU Total Length (miles): 177.35

No. Miles Full Attainment: 125.80

LRAU Monitored Miles: 138.90

No. Miles Partial Attainment: 13.10

No. Sites Sampled: 62

No. Miles Non-Attainment: 0.00

**% LRAU Attainment (Monitored Miles)**

Full	Partial	Non
90.6	9.4	0.0

High Magnitude Causes

Organic Enrichment/DO  
Direct Habitat Alterations  
Unionized Ammonia  
Flow Alteration

High Magnitude Sources

Streambank Modification/Destabilization - Agriculture  
Major Industrial Point Source  
Major Municipal Point Source  
Dam Construction - Agriculture  
Dam Construction - Development  
Combined Sewer Overflow  
Flow Reg/Mod - Development

**Recreation Use Assessment**

Subcategory of Use: Primary Contact

Impairment: Yes (5)

Cause: Pathogens

Geometric Mean: 525

No. of Ambient Sites: 2

No. of Ambient Sampling Records: 49

75<sup>th</sup> %ile: 1700

No. of NPDES MOR Sites: 7

No. of NPDES MOR Records: 408

90<sup>th</sup> %ile: 6500

Other:

**Public Drinking Water Supply Assessment**

Location(s): Scioto River at O'Shaughnessy dam (RM 148.8) to Dublin Road WTP dam [Columbus]

Impairment: No (1)

Nitrate Indicator: Full Support, Watch List

Cause:

Pesticide Indicator: Insufficient Data

**Fish Tissue Assessment**

Large River Sampled: Yes      Impairment: Yes (5)

Miles Monitored: 177.35      Miles Impaired: 177.35

Pollutant(s): PCBs

**Comments**

The Scioto River mainstem assessment unit has been extensively monitored between Columbus and Circleville since 1988 to assess the improvements in the river due to upgrades at the two major WWTPs in Columbus. Additionally, large scale surveys were done in 1995 (upper Scioto River) and 1997 (lower Scioto River). 1995 survey data are now considered historical. New data were collected from Columbus to the Ohio River in 2005 as part of a midwestern large rivers study conducted by the Ohio River Valley Water Sanitation Commission (ORSANCO). Status of the river from the Little Scioto River in Marion County to Columbus (about 40 miles) is unassessed since all data are now over 10 years old. While biological communities have recovered significantly since the 1970s and are generally performing very well, fish consumption advisories exist for several species of fish throughout the length of the river. As a result, the 2004 Integrated Report assessment of fish tissue data documented body burdens of one or more pollutants at levels exceeding the threshold level upon which Ohio Water Quality Standards human health criteria are based which resulted in listing as impaired for fish consumption. Additionally, assessment of available bacteria data indicated an impairment of the Primary Contact Recreation beneficial use. Scioto River mainstem monitoring is projected for 2009 (Little Scioto River to Big Darby Creek), 2011 (Big Darby Creek to Paint Creek), and 2016 (Paint Creek to mouth).