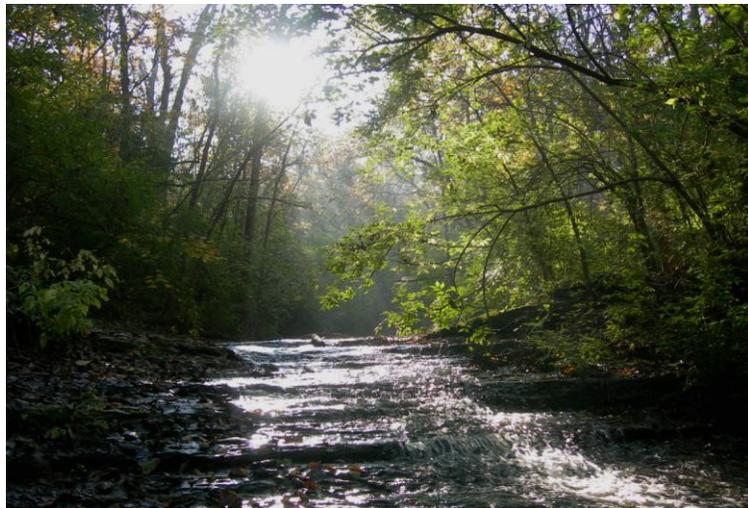


Ohio Watershed Action Plan FFY09 Implementation Status



September 25, 2009

Ted Strickland, Governor
Chris Korleski, Director

Tracking Ohio's Watershed Program



Ohioans like rivers. Each year more than one million fishing licenses are issued and 400,000 boats are registered across the state. Throughout Ohio's history we have found many uses for our rivers – as transportation networks and urban development centers in early statehood and more recently, as recreation areas and living classrooms. Healthy rivers are a vital part of Ohio's landscape.

Protecting high quality rivers and restoring those that are impaired will insure that clean rivers remain a cornerstone of Ohioans quality of life. An important recent development for protecting and restoring the health of Ohio's rivers is the formation of local **watershed groups**. These groups are comprised of volunteers, landowners, local officials, scientists and concerned individuals who are important community advocates for local watershed planning and projects. Members of local watershed groups contribute skills, ideas and support for developing local watershed action plans. A local watershed plan is an important tool for identifying threats to a river's health and management actions that are needed to protect and restore a river.

Upon completion of a watershed plan, watershed groups may submit the plan for review and endorsement by the Ohio EPA and Ohio Department of Natural Resources (ODNR). Endorsement insures that a plan meets all elements required by US EPA and enhances funding opportunities from a variety of state and federal programs for watershed groups. More than 40 locally prepared watershed action plans have received state endorsement.



Another form of watershed assessment and planning being completed in Ohio is the development of Total Maximum Daily Load (TMDL) studies. The TMDL program

was established under Section 303(d) of the Clean Water Act ([33 U.S.C. 1313](#)) and like other watershed planning, focuses on identifying and restoring polluted rivers, streams, lakes and other surface waterbodies. A TMDL is a scientific assessment of water quality problems and an inventory of all contributing sources of pollution in a watershed. A TMDL specifies the amount pollutants must be reduced in order to meet Ohio's [water quality standards and also](#) identifies where these pollutant load reductions need to occur. A TMDL also provides recommendations for actions needed to restore a water body. Ohio EPA has completed TMDL studies on more than 70 local watersheds since 2000.

Whether a watershed action plan is completed by a local watershed group or as a TMDL completed by Ohio EPA, watershed based planning is a critical piece of Ohio's efforts to address nonpoint source pollution. **Watershed planning provides numerous benefits** including:

- Identifying specific water quality problems
- Identifying solutions to identified problems; and
- Linking financial resources to environmentally effective actions

For more information about Ohio's watershed planning efforts, Ohio EPA has developed "A Guide to Developing Local Watershed Action Plans in Ohio". This document is located in a downloadable format at the following Ohio EPA web link: <http://www.epa.state.oh.us/dsw/nps/wsguide.pdf>.

Ohio's Watershed Program: Ohio's watershed program is collaboration of numerous state, local and federal organizations led by US EPA, Ohio EPA, Ohio Department of Natural Resources and Ohio State University Extension. Through a variety of service delivery mechanisms, Ohio's watershed groups have access to substantial financial, technical and organizational assistance.

Specifically, there are five primary components of Ohio's Watershed Program:

- Ohio Watershed Coordinator Grants Program
- Ohio Watershed Academy & Social Indicator Development
- Ohio EPA's Section 319(h) Implementation Grants Program
- Ohio EPA's Total Maximum Daily Load Study (TMDL) Program
- Tracking Watershed Plan and TMDL Implementation

Ohio EPA's Section 319 grants and TMDL programs are outlined in detail in other sections of this report. However, following are summaries of the program assistance provided by ODNR and OSU-Extension.

Watershed Coordinator Grants Program

The Ohio Watershed Coordinator Grants Program is administered by the Ohio Department of Natural Resources, Division of Soil & Water Resources and provides grant funding and technical assistance to local groups who are developing and implementing state endorsed watershed action plans. The program was established in 2000 and is funded using a combination of section 319(h) grant funding from Ohio EPA that is matched by contributions from ODNR's Divisions of Soil &



Water Resources, Mineral Resources and Office of Coastal Management. Approximately \$900,000 is awarded annually to roughly 30 recipients to support personnel costs associated with employing a watershed coordinator. Grant recipients include local governments, local soil & water conservation districts, nonprofit organizations, and others. Under the current grant cycle, 32 organizations are receiving funding from this program.

Since 2000, more than 40 local watershed action plans have been developed and successfully undergone a state endorsement process. These plans are compliant with US EPA's 9 Required Elements for a Local Watershed Action Plan and include detailed assessments of known problems within the watershed with a menu of recommended actions needed in order to address known problems.

In addition to receiving grant funding, all watershed grant sponsors receive an Annual Review which consists of a comprehensive assessment by representatives of Ohio's Watershed Program. Watershed coordinators also receive extensive training and ready access to state technical and informational resources while completing and implementing local watershed action plans. (More details are included in the FFY09 ODNR Core Program report that is included in this annual report).

A copy of the 2009 Ohio Watershed Coordinator Program Annual Report is included as an attachment for further details and information about this program.

Ohio Watershed Academy

Ohio's Watershed Academy is a professional development course administered by the Ohio State University Extension Program. Coursework is developed to assist watershed coordinators and others to increase their capacity to lead the development and implementation of effective watershed action plans. Participants complete a total of 10 instructional modules in 10 weeks, covering a variety of topics taught by instructors from the Ohio EPA, OSU, ODNR, and others. In addition to online modules, the Academy hosts all participants for two days of face-to-face instruction. During 2009, twenty-three students completed all requirements and were awarded their Watershed Academy certificate of completion.

During the reporting period, the following accomplishments were completed in association with this year's Watershed Academy:

- Several modules were revised to address feedback and suggestions provided by last year's Academy participants. Modules were also revised and updated to more effectively emphasize the importance of developing local action strategies based on identified water quality impairments within a watershed.
- In collaboration with Ohio State Environmental and Engineering faculty, conducted a stream restoration tour and training on volunteer monitoring. Both workshops were well attended and evaluations were positive and identified that participants improved their knowledge of stream restoration options and procedures for more effectively completing stream quality monitoring.
- In collaboration with Ohio EPA and US EPA, Academy staff help to coordinate the 16th National Nonpoint Source Monitoring Workshop that was conducted in Columbus, Ohio during September, 2008. This workshop was attended by nearly 200 participants and showcased a variety of nationally recognized speakers in the field of stream restoration and nonpoint source pollution management.

- Ohio State University, in collaboration with staff from Ohio's Watershed Academy are involved in a multi-state effort to develop social indicators for measuring the impacts of section 319-funded implementation projects. Additionally, OSU Extension is coordinating two social indicator pilot projects within the Rock Creek subwatershed near Upper Sandusky, Ohio and Fulton Creek within the Upper Scioto River watershed. In addition to activities supported with section 319(h) grant funding, financial support is also being provided by the USDA Cooperative State Research, Extension and Education Service. Outcomes of these pilot projects during FFY2009 include:



- Surveys of farmers within these two watersheds were completed to measure farmer's awareness, attitudes, and behaviors related to water quality and best management practices (BMPs).
- Survey results were shared with conservation professionals in both watersheds and recommended BMPs for addressing water quality concerns were identified based on potential for impact and acceptability to farmers.
- Outreach plans were developed to target specific behaviors and incentives to farmer adoption of selected BMPs.
- Joe Bonnel from OSU Extension and director of the Ohio Watershed Academy attended meetings with the regional social indicators team in Chicago, Illinois to refine the social indicators framework.

Tracking Watershed Implementation

An important initiative undertaken by Ohio EPA and ODNR during the past year involved the use of a statewide system for tracking local watershed implementation activities. Since 2000, the state of Ohio has invested more than \$20 million in the development of 9-element state endorsed watershed action plans and Total Maximum Daily Load Studies. As a result, we have a very good idea of where the nonpoint source pollution problems are and where recommended actions are needed. The implementation of these actions is critical to realizing the water quality improvements that are needed. This initiative implements a standardized method for inventorying watershed plans and TMDLs with easy-to-use systems for tracking and reporting implementation actions that are occurring.

The following pages include a detailed analysis of the implementation status of 13 selected watersheds for which we have been able to more closely track specific recommendations included in their 9-element state endorsed watershed action plan:

Implementation Status of Critical Watershed Deliverables
13 selected Ohio Watersheds with 9-element Watershed Action Plans
2008 and 2009 Summary

	ACTION ITEM REPORTED	Target in Plans	Units	2008 Reported	2009 Reported	% of Target Achieved
Action Items Reported and Included in Watershed Action Plan	Acquire Conservation Easements	12,038	Acres	1,564	280	15.3%
	Restore Stream Channel	87,520	Linear Feet	0	303	<1%
	Reconstruct/Restore Wetlands	642	Acres	112	305	64.9%
	Repair/Replace HSTS	3,114	HSTS	390	329	23.0%
	Remove/Modify Dams	22	Dams	1	3	18.2%
	Install Livestock Exclusion Fencing	188,051	Linear Feet	25,090	21,658	24.8%
	Implement Conservation Tillage Practices	34,574	Acres	3,522	151	10.6%
	Plant Cover/Manure Crops	22,654	Acres	1,735	1,945	16.2%
	Implement Conservation/Prescribed Grazing	18,296	Acres	343	898	6.7%
	Plant Trees/Shrubs in Riparian Areas	6,640	Acres	47	38	1.2%
	Develop Nutrient Management Plans	5,000	Acres	6,059	41	122%
	Install Vegetated Buffer Strips	15,335	Acres	35	528	3.6%
	Construct Animal Waste Storage Structures	66	Structures	5	9	21.2%
Miscellaneous Action Items Reported but not included in Watershed Action Plan	Remove/Treat Invasive Species	None	Acres	133	746	
	Develop Whole Farm Management Plans	None	Acres	4,160	3,222	
	Install Roof Water Management Practices	None	Practices	7	6	
	Install Erosion Control & Sediment Structures	None	Structures	21	13	

Implementation Status of Critical Watershed Deliverables
13 selected Ohio Watersheds with 9-element Watershed Action Plans
2009 Load Reduction Summary

2009 Load Reduction Estimates as reported by Watershed	Nitrogen (lbs/year)	Phosphorus (lbs/year)	Sediment (tons/year)	Home Sewage (gals/day)
Alum Creek—HUC 05060001-160	0	0	126	0
Chagrin River—HUC 04110003	0	0	0	0
East Fork-Little Miami River—HUC 05090202-130	1,572	562	124	7,200
Euclid Creek—HUC 04110003-010-020	0	0	0	700
Grand Lake St. Mary's—HUC 05210101-020-030	0	0	0	5,120
Huff Run—HUC 05040001-050	0	0	0	840
Leading Creek—HUC 05030202-090	1,000	2,000	1,000	3,500
Lower Olentangy—HUC 05060001-020	49	130	0	0
Monday Creek—HUC 05030204-060	0	0	0	0
Rocky River—HUC 04110003-010 & 020	2,520	0	0	0
Sandusky River—HUC 04100011-080 & 090	0	0	0	0
Upper Scioto River—HUC 05060001	0	0	0	0
White Oak Creek—HUC 05090201	0	0	0	0

Alum Creek—HUC 05060001 160

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Acquire Riparian Conservation Easements	100	Acres	0	0
	Repair/Replace HSTS	165	HSTS	0	0
	Reconstruct/Restore Wetlands	N/A	Acres	0	0
	Remove/Modify Dams	2	Dams	1	2
	Restore Stream Channel	N/A	Linear Feet	0	10,560
	Daylight Culverted Tributary	N/A	Linear Feet	0	0
	Install Low Impact Demonstration Project	1	Project	0	0
	Install Livestock Exclusion Fencing	N/A	Linear Feet	0	0
Action Items Reported but not included in Watershed Action Plan	Plant Trees or Shrubs in Riparian Areas	0	Acres	5.3	3.0
	Restore Streambank by Recontouring	0	Linear Feet	50	0
	Plant Wetland Species	0	Acres	1.5	.3
	Remove/Treat Invasive Species	0	Acres	7.5	1.1

Alum Creek—HUC 05060001 160

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	2	2	Brochures/Fact Sheets
Conduct Watershed Festivals	2	0	Festivals
Conduct Public Meeting	3	1	Meetings
Develop Press Releases	7	4	Press Releases
Create/Maintain Website	1	3	Websites
Install Signs	0	8	Signs
Develop Displays	3	1	Displays
Conduct Tours	26	8	Tour
Conduct Stream Clean-ups	39	49	Clean-ups
Conduct Field Days	32	0	Day
Stencil Storm Drains	0	187	Drains
Conduct Workshops	6	4	Workshop
Conduct Training	0	0	Training Sessions
Provide Technical Asst. to Groups	28	0	Groups
Deliver on-site Technical Assistance	6	9	Site Visits
Develop Newsletters	11	8	Newsletters

Chagrin River—HUC 04110003

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Acquire Conservation Easements	3,160	Acres	1,232	102
	Develop BMP Implementation Database	1	Database	0	0
	Restore Wetlands	100	Acres	0	.5
	Plant Wetland Species	100	Acres	0	1.5
	Restore Stream Channel	30,840	Linear ft.	0	0
	Modify/Remove Dams	10	Dams	0	1
	Adopt Local Riparian Setback Ordinances	23	Ordinances	19	0
	Restore/Enhance Floodplains	5,280	Linear Feet	0	0
Action Items Reported but not included in Watershed Action Plan	Remove/Treat Invasive Species	0	Acres	30	82
	Plant Trees or Shrubs in Riparian Areas	0	Trees	450	800
	Plant Grasses in Riparian Areas	0	Acres	0	6.5
	Inspect HSTS	0	Inspections	1,003	1,562
	Repair/Replace Traditional HSTS	0	HSTS	188	226

Chagrin River—HUC 04110003

Education and Outreach Activities Reported 2008 through 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	8	7	Brochures/Fact Sheets
Conduct Public Meetings	35	70	Meetings
Develop Press Releases	5	11	Press Releases
Create/Maintain Website	8	9	Websites
Install Signs	26	0	Signs
Develop Displays	14	10	Displays
Conduct Tours	3	8	Tours
Conduct Workshops	34	164	Workshops
Conduct Training	14	8	Training Sessions
Provide Technical Asst. to Groups	66		Groups
Develop Manual(s)	0	1	Manuals
Deliver on-site Technical Assistance	45	58	Site Visits
Develop Newsletters	26	11	Newsletters

East Fork Little Miami—HUC 05090202 130

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Restore Stream Channel	36,680	Linear ft.	0	0
	Stabilize Streambank	15,560	Linear ft.	350	0
	Restore Riparian Corridor	12	Acres	2	0
	Repair/Replace Traditional HSTS	320	HSTS	5	20
	Install In-Stream Habitat Structures	8	Structures	0	0
Action Items Reported but not included in Watershed Action Plan	Remove/Treat Invasive Species	0	Acres	32	106
	Plant Trees or Shrubs in Riparian Areas	0	Acres	2	0
	Plant Cover/Manure Crops	0	Acres	4	17
	Develop Nutrient Management Plans	0	Acres	29	10
	Develop Whole Farm Management Plans	0	Acres	1	0
	Prescribed & Conservation Grazing Practices	0	Acres	99	70
	Install Alternative Water Supplies	0	Supplies	4	6
	Install Erosion & Sediment Control Structures	0	Structures	5	0
	Install Grassed Waterways	0	Acres	5	11
	Install Vegetated Buffer Strips	0	Acres	7	1
	Install Heavy Use Feeding Pads	0	Pads	6	7
	Install Livestock Exclusion Fencing	0	Linear ft.	13,090	8,890
	Install Livestock Crossing	0	Crossings	0	1
	Construct Animal Waste Storage Structures	0	Structures	1	0
	Conduct Soil Testing	0	Tests	0	500
	Implement Manure Management Practices	0	Acres	0	150
	Implement Manure Transfer Practices	0	Acres	11	150

East Fork Little Miami—HUC 05090202 130

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	2	2	Brochures/Fact Sheets
Develop Press Releases	4	4	Press Releases
Create/Maintain Website	1	4	Websites
Install Signs	11	0	Signs
Develop Displays	2	0	Displays
Conduct Tours via Canoe	1	1	Canoe Trips
Conduct Stream Clean-Ups	2	1	Clean-Ups
Conduct Field Days	1	1	Days
Provide Technical Asst. to Groups	5	1	Groups
Deliver on-site Technical Assistance	5	45	Site Visits
Classroom Presentations	114	0	Groups
Develop Newsletters	2	5	Newsletters

Euclid Creek—HUC 04110003 010 020

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Modify Dams	1	Dams	0	0
	Retrofit Stormwater Culverts	n/a	Culverts	0	0
	Retrofit Stormwater Retention Ponds	3	Ponds	0	0
	Install Phosphorus Reduction BMPs	n/a	BMPs	0	0
	Purchase Land in Critical Areas	n/a	Acres	0	0
	Repair/Restore HSTS (Eliminate HSTS)	300	HSTS	127	2
	Inspect HSTS	102	Inspections	5	4
	Acquire Conservation Easements	300	Acres	0	0
	Expand Green Space in Watershed	5	Miles	0	0
	Establish Riparian Setbacks	34	Miles	0	0
	Restore Stream Channel	n/a	Linear ft.	0	0
	Plant Native Vegetation	n/a	Acres	0	0
Action Items Reported but not included in Watershed Action Plan	Remove/Treat Invasive Species	0	Acres	1	1
	Install Rain Gardens	0	Gardens	1	0
	Install Rain Barrels	0	Barrels	39	0

Euclid Creek—HUC 04110003 010 020

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Conduct Watershed Festivals	1	1	Festivals
Conduct Public Meeting	1	0	Meetings
Develop Press Releases	2	0	Press Releases
Create/Maintain Website	1	1	Websites
Develop Displays	0	1	Displays
Conduct Tours	3	3	Tour
Stencil Storm Drains	0	115	Drains
Provide Technical Asst. to Groups	2	11	Groups
Deliver on-site Technical Assistance	51	0	Site Visits
Develop Newsletters	3	0	Newsletters

Grand Lake St. Mary's—HUC 05120101 020-030

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Develop Nutrient Management Plans	N/A	Acres	4,743	0
	Install Vegetated Buffer Strips	191	Acres	23	517
	Reconstruct/Restore Wetlands	30	Acres	9	0
	Install Filter Areas	138	Acres	0	0
	Repair/Replace failing HSTS	30	HSTS	6	0
	Installed Controlled Drainage Structures	52	Structures	5	0
	Implement Conservation Tillage Practices	3,438	Acres	200	0
	Plant Cover/Manure Crops	2,118	Acres	1,083	1,678
	Install Geotube Devices	1	Sites	0	0
	Construct 2-stage Channel	1,000	Linear ft.	0	0
	Install Milk House Waste Treatment Practices	12	Practices	0	0
Action Items Reported but not included in Watershed Action Plan	Install Erosion & Sediment Control Structures	N/A	Structures	0	8
	Develop Whole Farm Conservation Plans	N/A	Acres	0	2,800
	Install Grassed Waterways	N/A	Acres	0	18.5
	Plant Trees/Shrubs in Riparian Areas	N/A	Acres	0	2
	Install Roof Water Management Practices	N/A	Practices	0	1
	Construct Animal Waste Structures	N/A	Structures	0	6
	Remove/treat Invasive Species	0	Acres	4	0

Grand Lake St. Mary's—HUC 05120101 020-030
Education and Outreach Activities Reported
2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Conduct Public Meeting	12	12	Meetings
Develop Press Releases	8	5	Press Releases
Create/Maintain Website	2	1	Websites
Develop Displays	5	4	Displays
Conduct Tours	1	2	Tour
Conduct Tours via Canoe	1	1	Canoe Trips
Conduct Stream Clean Ups	0	1	Clean-ups
Conduct Field Days	1	0	Day
Develop Manuals	0	1	Manuals
Conduct Workshops	1	0	Workshop
Conduct Training	2	0	Training Sessions
Provide Technical Asst. to Groups	1	0	Groups
Deliver on-site Technical Assistance	1	0	Site Visits
Develop Newsletters	4	4	Newsletters

Huff Run—HUC 05040001-050

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Plant Trees/Shrubs in Riparian Areas	9	Acres	30	0
	Install Limestone Channels	N/A	Linear Feet	2,841	2,741
	Repair Subsidence Sites	N/A	Acres	0	0
	Reclaim Abandoned Mine Land	N/A	Acres	46	23
	Reclaim Pit Impoundments	20	Acres	4	0
	Install Successive Alkaline Producing Systems	N/A	SAPS	0	0
	Construct AMD Wetlands	N/A	Acres	0	0
	Repair/Replace HSTS	112	HSTS	10	4
	Install Livestock Crossings	N/A	Crossings	0	0
	Install Livestock Exclusion Fencing	N/A	Linear Feet	0	0
	Design & Install Access Roads	N/A	Linear Feet	0	0
Action Items Reported but not included in Watershed Action Plan	Restore Positive Drainage	0	Acres	46	23
	Cover Toxic Mine Spoils	0	Acres	5	13
	Implement Conservation Tillage Practices	0	Acres	112	0
	Implement Prescribed & Conservation Grazing	0	Acres	129	44
	Install Alternative Water Supplies	0	Supplies	4	1
	Install Livestock Exclusion Fencing	0	Linear Feet	3,100	0
	Install Steel Slag Leach Beds	0	Beds	0	2

Huff Run—HUC 05040001-050

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	0	0	Brochures/Fact Sheets
Conduct Watershed Festivals	1	1	Festivals
Conduct Public Meeting	12	14	Meetings
Develop Press Releases	10	10	Press Releases
Create/Maintain Website	1	0	Websites
Develop Displays	10	3	Displays
Conduct Tours	2	2	Tour
Conduct Field Days	3	0	Day
Conduct Workshops	1	0	Workshop
Develop Newsletters	3	4	Newsletters

Leading Creek—HUC 05030202 090

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Acquire Conservation Easements	N/A	Acres	52	42
	Repair/Replace Traditional HSTS	345	HSTS	14	17
	Restore Streambank by Bio-Engineering	3,960	Linear Feet	0	0
	Plant Grasses in Riparian Areas	287	Acres	0	0
	Implement Conservation Grazing Practices	6,770	Acres	40	113
	Install Livestock Exclusion Fencing	19,371	Linear Feet	2,000	0
	Reclaim Abandoned Mine Land	122	Acres	0	0
Action Items Reported but not included in Watershed Action Plan	Implement Conservation Tillage Practices	0	Acres	130	151
	Reconstruct/Restore Wetlands	0	Acres	2	0
	Install Alternative Water Supplies	0	Supplies	3	10
	Install Heavy Use Feeding Pads	0	Pads	2	1
	Implement Manure Management Practices	0	Acres	0	168
	Install Roof Water Management Practices	0	Practices	1	1
	Install Livestock Crossings	0	Crossings	1	0
	Construct Animal Waste Structures	0	Structures	1	0
	Conduct Soil Testing	0	Tests	0	26

Leading Creek—HUC 05030202 090

Education and Outreach Activities Reported 2008 through 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	2	0	Brochures/Fact Sheets
Conduct Public Meetings	3	1	Meetings
Develop Press Releases	24	10	Press Releases
Create/Maintain Website	1	1	Websites
Conduct Watershed Festival	0	1	Festivals
Develop Displays	1	0	Displays
Conduct Stream Clean-ups	2	2	Clean-Ups
Conduct Tours	4	2	Tours
Conduct Workshops	6	0	Workshops
Provide Technical Asst. to Groups	0	1	Groups
Deliver on-site Technical Assistance	28	22	Site Visits
Develop Newsletters	4	4	Newsletters

Lower Olentangy River—HUC 05060001 020

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Acquire Riparian Conservation Easements	65	Acres	0	123
	Restore Streambank using Bio-Engineering	8,000	Linear Feet	0	0
	Restore Streambank by Re-contouring	110	Linear Feet	0	0
	Plant Trees or Shrubs in Riparian Areas	310	Acres	10	24
	Install Erosion & Sediment Control Structures	N/A	Structures	0	0
	Repair/replace HSTS	N/A	HSTS	9	3
	Restore Natural Flow	N/A	Linear Feet	0	0
	Remove/Modify Dams	8	Dams	0	0
	Remove/Modify Levees	1	Levees	0	0
	Reconstruct/Restore Wetlands	12	Acres	0	1.5
	Restore Stream Channel	N/A	Linear Feet	0	0
	Install In-Stream Habitat Structures	3	Structures	0	10
Action Items Reported but not included in Watershed Action Plan					
	Remove/Treat Invasive Species	0	Acres	12	6

Lower Olentangy River—HUC 05060001 020

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	2	3	Brochures/Fact Sheets
Conduct Watershed Festivals	4	5	Festivals
Conduct Public Meeting	3	2	Meetings
Develop Press Releases	4	2	Press Releases
Create/Maintain Website	5	4	Websites
Install Signs	0	3	
Develop Displays	0	1	Displays
Conduct Tours	0	2	Tour
Conduct Stream Clean-ups	6	22	Clean-ups
Conduct Field Days	2	0	Day
Stencil Storm Drains	250	67	Drains
Conduct Workshops	13	73	Workshop
Conduct Training	5	9	Training Sessions
Provide Technical Asst. to Groups	0	2	Groups
Deliver on-site Technical Assistance	0	56	Site Visits
Develop Newsletters	6	9	Newsletters

Monday Creek—HUC 05030204 060

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Plant Trees/Shrubs in Riparian Areas	54	Acres	0	5.5
	Construct Lime Dosers	2	Dosers	0	0
	Install Limestone Leach Beds	25	Beds	1	0
	Install Steel Slag Leach Beds	13	Beds	1	0
	Repair Subsidence Sites	37	Acres	25	0
	Eliminate Stream Captures	N/A	Captures	0	0
	Cover Toxic Mine Spoils	N/A	Acres	0	0
	Install Limestone Channels	N/A	Linear Feet	725	0
	Repair/Replace HSTS	11	HSTS	0	0
	Implement Prescribed/Conservation Grazing	N/A	Acres	0	212
	Install AMD Wetlands	N/A	Acres	0	0
	Install Livestock Exclusion Fencing	N/A	Linear Feet	0	4,765
	Restore Positive Drainage	N/A	Acres	0	0
Action Items Reported but not included in Watershed Action Plan	Develop Whole Farm Management Plans	0	Acres	0	372
	Conduct Soil Tests	0	Tests	0	18

Monday Creek—HUC 05030204 060

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	200	3	Brochures/Fact Sheets
Conduct Watershed Festivals	0	0	Festivals
Conduct Public Meeting	0	1	Meetings
Develop Press Releases	3	2	Press Releases
Create/Maintain Website	1	1	Websites
Install Signs	0		Signs
Develop Displays	2	4	Displays
Conduct Tours	10	15	Tour
Conduct Stream Clean-ups	0	0	Clean-ups
Conduct Field Days	0	0	Day
Stencil Storm Drains	0	0	Drains
Conduct Workshops	1	0	Workshop
Conduct Training	0	0	Training Sessions
Develop Manuals	1	0	Manuals
Provide Technical Asst. to Groups	0	0	Groups
Deliver on-site Technical Assistance	1	0	Site Visits
Develop Newsletters	1	1	Newsletters

Rocky River—HUC 04110003-010 & 020

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Restore Streambank using Bio-Engineering		Linear Feet	0	0
	Install Vegetated Filter Strips	100	Acres	0	9
	Plant Trees/Shrubs in Riparian Areas	16	Acres	0	0
	Construct Animal Waste Storage Structures	66	Structures	1	0
	Repair/Replace HSTS	1,290	HSTS	0	7
	Restore Riparian Areas	2	Acres	0	0
Action Items Reported but not included in Watershed Action Plan	Install Sediment & Erosion Control Structures	0	Structures	16	5
	Plant Cover/Manure Crops	0	Acres	80	0
	Develop Whole Farm Management Plans	0	Acres	180	0
	Implement Conservation Tillage Practices	0	Acres	500	0
	Implement Prescribed & Conservation Grazing	0	Acres	25	0
	Install Alternative Water Supplies	0	Supplies	1	0
	Install Grassed Waterways	0	Acres	3	0
	Install Livestock Crossings	0	Crossings	1	0
	Implement Manure Management Practices	0	Acres	1	0
	Conduct Soil Testing	0	Tests	1	0
	Install Roof Water Management Practices	0	Practices	2	0

Rocky River—HUC 04110003-010 & 020

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	2	0	Brochures/Fact Sheets
Conduct Watershed Festivals	1	0	Festivals
Conduct Public Meeting	44	4	Meetings
Develop Press Releases	30	4	Press Releases
Create/Maintain Website	2	1	Websites
Install Signs	6	0	Signs
Develop Displays	2	6	Displays
Conduct Tours	0	0	Tour
Conduct Stream Clean-ups	6	4	Clean-ups
Conduct Field Days	2	0	Day
Stencil Storm Drains	14	0	Drains
Conduct Workshops	16	6	Workshop
Conduct Training	1	2	Training Sessions
Develop Manuals	0	0	Manuals
Provide Technical Asst. to Groups	11	6	Groups
Deliver on-site Technical Assistance	597	2	Site Visits
Develop Newsletters	11	3	Newsletters

Sandusky River —HUC 04100011-080 & 090

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Plant Trees & Shrubs in Riparian Areas		Acres	0	0
	Reconstruct/Restore Wetlands	500	Acres	16	303
	Acquire Riparian Conservation Easements	8,000	Acres	280	100
	Plant Cover/Manure Crops	19,216	Acres	368	0
	Develop Nutrient Management Plans	5,000	Acres	2	0
	Implement Conservation Tillage Practices	31,136	Acres	2,480	0
	Install Vegetated Buffer Strips	6,144	Acres	12.5	0
	Install Conservation Crop Rotation	1,000	Acres	0	0
	Install Livestock Exclusion Fencing	5,000	Linear Feet	0	0
	Restore Floodplain	500	Acres	0	0
	Install In-Stream Habitat Structures	2	Structures	0	0
	Remove/Modify Dam	1	Dams	0	0
	Install Rain Gardens	1	Gardens	0	0
	Construct 2-Stage Channel	N/A	Linear Feet	0	0
	Install Alternative Water Supplies	N/A	Supplies	0	0
	Implement Grass/Legume Rotations	1,000	Acres	0	0
	Conduct Soil Testing	N/A	Tests	40	0
	Implement Conservation Grazing Practices	N/A	Acres	0	0
	Install Grassed Waterways	N/A	Acres	0	9
	Repair/Replace HSTS	N/A	HSTS	26	49
Action Items Reported but not included in Watershed Action Plan	Plant Grasses in Riparian Areas	0	Acres	75	8
	Plant Prairie Grasses in Riparian Areas	0	Acres	3	20
	Remove/Treat Invasive Species	0	Acres	47	550
	Develop Whole Farm Management Plans	0	Acres	3,949	0
	Install Heavy Use Feeding Pads	0	Pads	7	0
	Construct Animal Waste Structures	0	Structures	1	0
	Implement Manure Management Practices	0	Acres	506	0
	Install Erosion & Sediment Control Structures	0	Structures	0	0
	Install Roof Water Management Practices	0	Practices	1	0

Sandusky River—HUC 04100011-080 & 090

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	5	8	Brochures/Fact Sheets
Conduct Public Meeting	7	1	Meetings
Develop Press Releases	12	3	Press Releases
Create/Maintain Website	1	3	Websites
Develop Displays	1	2	Displays
Conduct Tours	1	7	Tour
Conduct Stream Clean-ups	3	15	Clean-ups
Conduct Field Days	10	1	Day
Conduct Workshops	8	1	Workshop
Conduct Training	0	4	Training Sessions
Provide Technical Asst. to Groups	0	4	Groups
Develop Newsletters	4	0	Newsletters

Upper Scioto River—HUC 05060001

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Included in Watershed Action Plan	Implement Conservation Tillage	n/a	Acres	0	0
	Plant Cover/Manure Crops	n/a	Acres	200	250
	Implement Grass/Legume Rotations	n/a	Acres	0	0
	Prescribed & Conservation Grazing Practices	n/a	Acres	150	10
	Reconstruct & Restore Wetlands	n/a	Acres	87	0
	Implement Drainage Water Management	n/a	Acres	180	1,266
	Install In-Stream Habitat Structures	n/a	Structures	0	0
	Plant Trees or Shrubs in Riparian Areas	n/a	Acres	14	4
	Inspect HSTS	n/a	Inspections	0	0
	Repair & Replace Traditional HSTS	n/a	HSTS	2	1
	Install Vegetated Buffer Strips	8,900	Acres	16	0
Action Items Reported but not included in Watershed Action Plan	Plant Grasses in Riparian Areas	0	Acres	51	0
	Plant Prairie Grasses in Riparian Areas	0	Acres	471	82
	Remove/Treat Invasive Species	0	Acres	0	89
	Restore Streambank by Recontouring or Grading	0	Linear ft.	140	0
	Develop Nutrient Management Plans	0	Acres	1,283	31
	Install Livestock Crossings	0	Crossings	16	0
	Install Alternative Water Supplies	0	Supplies	0	2
	Install Grassed Waterways	0	Acres	0	2.4
	Install Heavy Use Pads	0	Pads	2	2
	Install Livestock Exclusion Fencing	0	Linear Feet	0	3,000
	Construct Animal Waste Storage Structure	0	Structures	0	3
	Implement Manure Management Practices	0	Acres	3	0
	Conduct Soil Testing	0	Tests	1,283	0
	Install Roof Water Management Practices	0	Practices	2	4

Upper Scioto River—HUC 05060001

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	2	0	Brochures/Fact Sheets
Conduct Public Meeting	9	1	Meetings
Develop Press Releases	2	0	Press Releases
Create/Maintain Website	1	1	Websites
Develop Displays	5	3	Displays
Conduct Tours	4	2	Tour
Conduct Stream Clean-ups	1	1	Clean-ups
Provide Technical Asst. to Groups	10	0	Groups
Deliver on-site Technical Assistance	5	1	Site Visits
Develop Newsletters	2	2	Newsletters

White Oak Creek—HUC 05090201

Implementation Summary of Watershed Action Items 2008 and 2009

	ACTION ITEM REPORTED	Target	Units	2008 Reported	2009 Reported
Action Items Reported and Included in Watershed Action Plan	Install Livestock Exclusion Fencing	163,680	Linear ft	10,000	5,003
	Install Alternative Water Supplies	31	Supplies	4	6
	Implement Prescribed Grazing Practices	11,526	Acres	50	449
	Repair/Replace failing HSTS	541	HSTS	3	0
	Plant Grasses in Riparian Areas	359	Acres	12	0
	Restore Stream Channel	20,000	Linear ft.	0	0
	Acquire Conservation Easements	413	Acres	0	15
	Pesticide Application Education	4	Workshops	3	2
	Install Heavy Use Feeding Pads	22	Pads	5	3
	Plant Trees or Shrubs in Riparian Area	6,251	Acres	0	0
	Dam Feasibility Study	1	Reports	0	0
Action Items Reported but not included in Watershed Action Plan	Implement Conservation Tillage Practice	0	Acres	100	0
	Install Vegetated Buffer Strips	0	Acres	0	1
	Install Grassed Waterways	0	Acres	4	0
	Install Nitrogen Reduction Practices	0	Acres	0	14
	Develop Nutrient Management Plans	0	Acres	2	0
	Develop Whole Farm Management Plans	0	Acres	30	50
	Construct Animal Waste Storage Structures	0	Structure	1	0
	Implement Grass/Legume Rotations	0	Acres	10	0
	Remove/Treat Invasive Species	0	Acres	0	25
	Implement Roof Water Management Practices	0	Practice	1	0
	Implement Manure Management Practices	0	Acres	80	0

White Oak Creek—HUC 05090201

Education and Outreach Activities Reported 2008 and 2009

ACTION ITEM REPORTED	2008 Reported	2009 Reported	Units
Develop Brochures/Fact Sheets	2	2	Brochures/Fact Sheets
Conduct Watershed Festivals	2	1	Festivals
Conduct Public Meeting	2	1	Meetings
Develop Press Releases	10	5	Press Releases
Create/Maintain Website	1	1	Websites
Develop Displays	3	1	Displays
Conduct Tours	2	0	Tour
Conduct Stream Clean-ups	1	0	Clean-ups
Conduct Field Days	5	3	Day
Stencil Storm Drains	200	0	Drains
Conduct Workshops	3	2	Workshop
Conduct Training	3	0	Training Sessions
Provide Technical Asst. to Groups	4	2	Groups
Deliver on-site Technical Assistance	15	2	Site Visits
Develop Newsletters	1	2	Newsletters