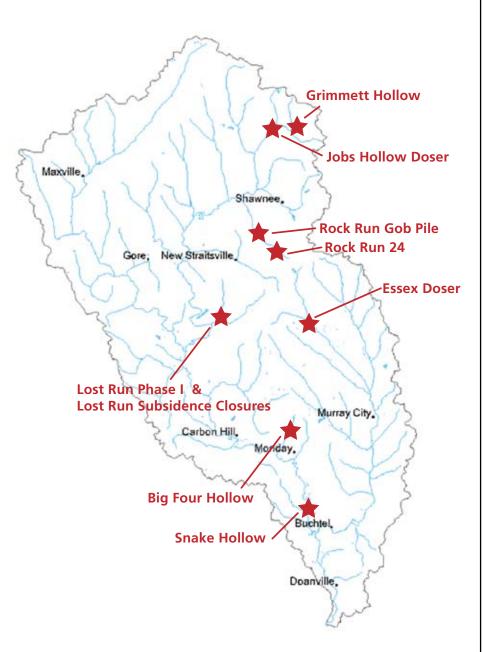
MONDAY CREEK WATERSHED

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- Monday Creek, located in the Appalachian Region of southeastern Ohio, is a 27-mile long tributary of the Hocking River, the latter which flows directly into the Ohio River. The Monday Creek Watershed drains a 116 square-mile area, with streams winding through portions of Athens, Hocking, and Perry Counties.
- Our project is a collaborative partnership of officials and residents of the Monday Creek watershed, along with more than 20 other organizations and state and federal agencies. Our shared goal is to restore the watershed for the benefit of local communities. Large portions of Monday Creek and its tributaries are dead due to acid mine drainage (AMD) left behind from a century of coal mining.
- Since 1994, our partnership has worked together to identify water quality problems, conduct field research and site characterization, and prioritize and plan on-going restoration activities. The MCRP has completed the reclamation of the Rock Run gob pile in southern Perry County through an EPA Section 319 grant and is beginning another project in the headwaters of Jobs Hollow through 319.
- In 1997-1998, we identified issues to be addressed for the long-term improvement of the watershed, and to the benefit of local communities. These issues, along with goals, objectives, action strategies, and progress indicators are discussed in detail in the Monday Creek Comprehensive Management Plan.
- To learn more about the Monday Creek Restoration Project, visit our website at www.mondaycreek.org or call 740-394-2047





333,935,000 gallons per year eliminated from entering into the deep mines as the result of conducting six stream capture closure projects in Monday creek Generated by Non-Point Source Monitoring System www.watersheddata.com

Reductions

Total acid load reduction = 2,706 lbs/day

Total metal load reduction = 409 lbs/day

Data derived using the Mean Annual Load Method (Stoertz, 2004).

(excludes Rock Run Gob Pile Project)

Costs

Design \$220,077 (excluding Snake Hollow) Construction \$2,969,150

Total costs through 2007 = \$3,189,226

Monday Creek Stream Capture Projects

Project status: Six subsidence closures projects were completed from 1995-2007

Project Name	Year project complete	Acres Captured	Agencies funding	Estimated gallons/yr of water diverted from entering the deep mine
Majestic Mine	1999	100	ODNR-DMRM	36,860,000
Salem Hollow	2000	60	ODNR-DMRM	22,116,000
Murray City	2004	5	ODNR-DMRM	1,843,000
Goose Run	1995	506	ODNR-DMRM	186,512,00
Snow Fork	1999	140	ODNR-DMRM	51,604,000
Lost Run	2007	100	USFS	35,000,000

Six stream captures located in the Monday Creek Watershed were closed and completed from 1995 to 2007. A total of 911 acres surface drainage area drained year round into the deep mines and as a result of closing these subsidence holes, 333,935,000 gallons per year were diverted from entering into the deep mine thus abating the generating of acid mine drainage.

MONDAY CREEK WATERSHED

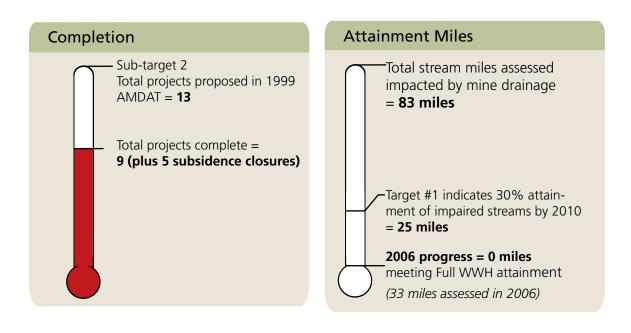
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Projects Completed Jan. 1 2007–Dec. 31, 2007

Lost Run Subsidence	\$328,900	
Lost Run Phase I	\$510,00	
total	\$838,900	

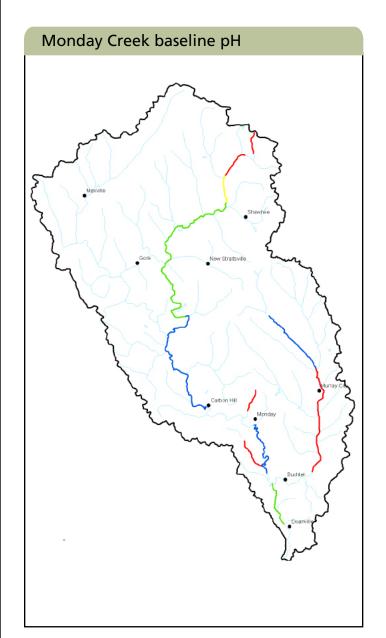
Load Reductions	
	Lost Run Phase I
Acid Load	458 lbs/day
Metal Load	30 lbs/day

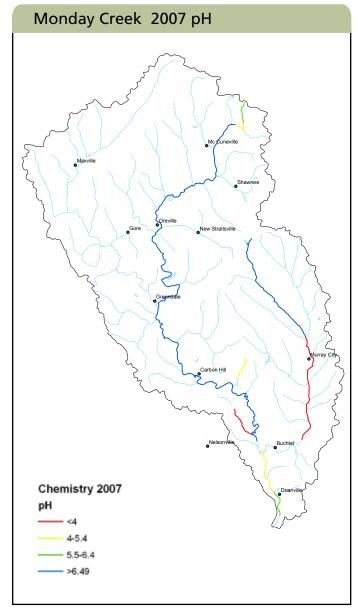
Cumulative BMP's installed				
	Treatment Installed			
Lost Run Phase I	Open Limestone Channel	3,540 linear feet		
	Limestone Leach Bed	13,700 square feet		
Lost Run Subsidence	Subsidence Closures	10 closures		
	Access restored	100 acres		



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Chemical Water Quality



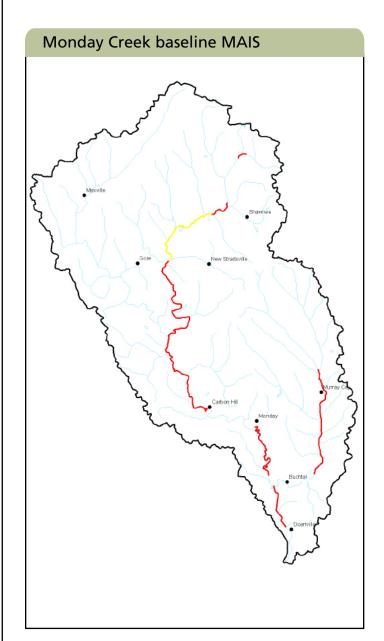


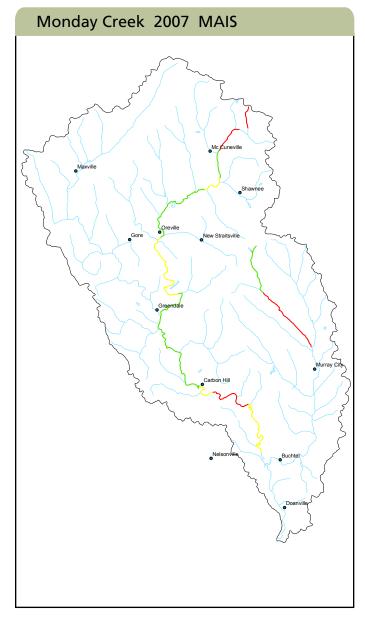


In Monday Creek pH values have improved throughout the watershed from baseline conditions (2001) to 2007. Twenty-five stream miles along the mainstem of Monday Creek now meet water quality standards (>6.5) from Snake Hollow to headwaters of Jobs Hollow. In Snow Fork pH has decreased from Buchtel to Murray City from 2006–2007. For three miles in the headwaters of Snow Fork, Essex mine to Murray City pH continues to meet water quality standards (>6.5).

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Biological Water Quality





Macroinvertebrate Aggregated Index for Streams

~ 0 - 7 **~** 8 - 11

√ 12 - 15

√ > 15

MAIS samples were collected throughout Monday Creek at established annual monitoring stations from 2001 through 2007. Six stations along mainstem of Monday Creek have sufficient data to conduct a regression analysis (n>5). From this analysis there is evidence of long-term biological improvement. Of the six stations, three showed improvement (P 0.04, 0.02, and 0.04), one showed marginal improvement (P 0.09), and two showed no improvement (JH00500 and MC00830). The three sites with the greatest improvement occurred at MC00300 (mainstem Carbon Hill, Bucks Inn), MC00510 (mainstem upstream of Lost Run), and MC00580 (Oreville).