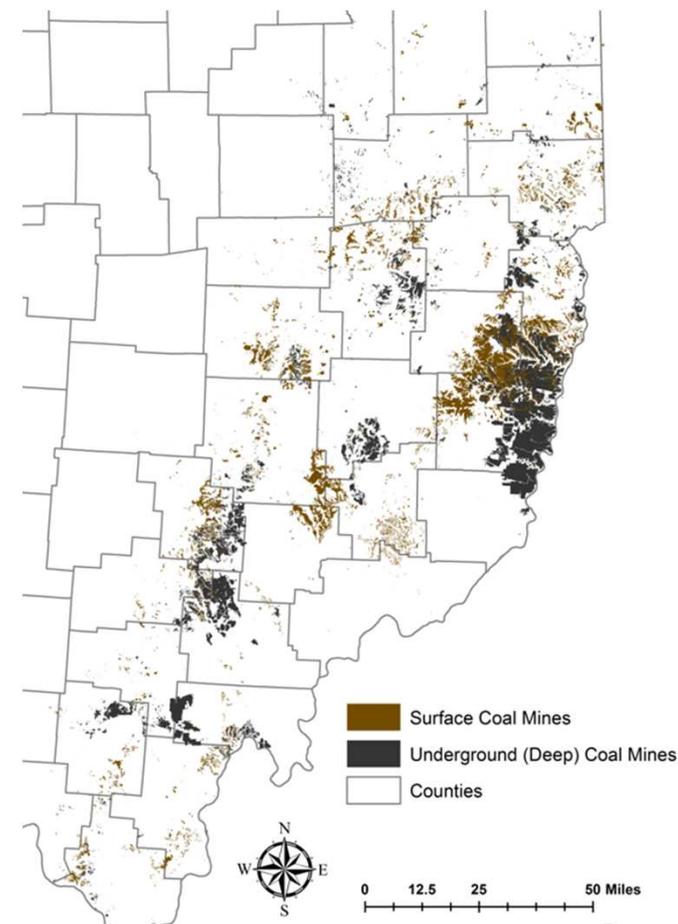


Acid Mine Drainage

Complex Environmental Issue

Legacy of environmental damage, Pervasive stream and land impacts, Challenging environmental clean-up



2014 STREAM HEALTH REPORT

AN EVALUATION OF WATER QUALITY, BIOLOGY, AND ACID MINE DRAINAGE RECLAMATION IN FIVE WATERSHEDS: RACCOON CREEK, MONDAY CREEK, SUNDAY CREEK, HUFF RUN, AND LEADING CREEK.



CREATED BY:
VOINOVICH SCHOOL OF LEADERSHIP AND PUBLIC AFFAIRS
AT OHIO UNIVERSITY
JENNIFER BOWMAN AND KELLY JOHNSON
7-2-2015

Stream Health Report Annual Report

www.watersheddata.com

Ohio Watershed Data

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An aerial photograph of a stream flowing through a landscape with green fields and dense trees. Several circular markers with a plus sign are overlaid on the image, pointing to specific environmental concerns: 'Fertilizers & Pesticides' (yellow circle), 'Livestock Waste' (green circle), 'Acid Mine Drainage' (red circle), and 'Erosion & Sedimentation' (grey circle).

Restoring Ohio's Watersheds

Coal mining and agriculture have taken their toll on the pristine waterways of Ohio. Abandoned mine drainage (AMD), pesticides, fertilizers, erosion, and livestock waste seep into rivers and streams disrupting the delicate balance of their ecosystems. This site compiles and tracks changes in Ohio's watersheds to measure the success of ongoing reclamation efforts.

24,306 
Samples Collected Since January 1, 1995

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Acid Mine Drainage in Appalachia Ohio

- Abandoned underground mines (1900-1970's)
- Acidity, high conductivity, SO_4^{2+} , Fe, Al, Mn

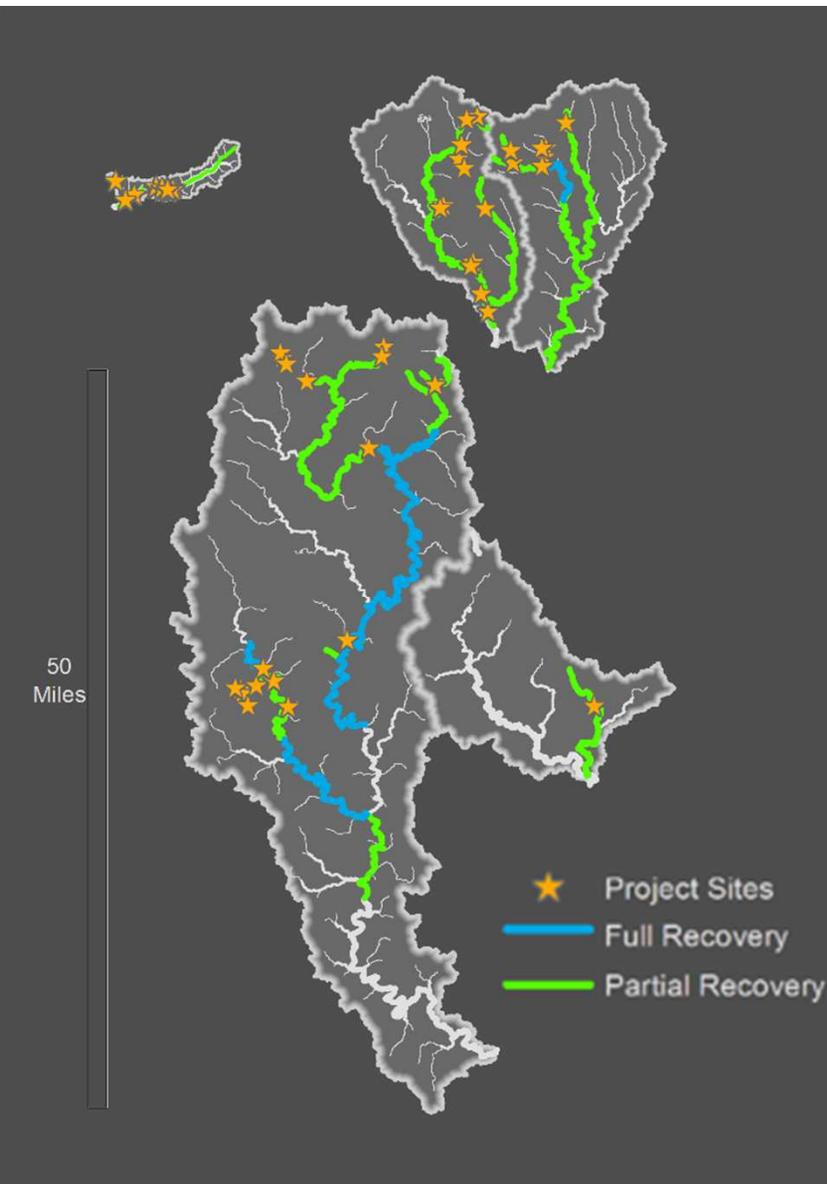
AMD restoration projects complete: 61

Money spent: \$28M

Acid Load Reductions: 10,000 lbs / day

Partial recovery: 198 stream miles

Full recovery: 47 stream miles



AEP Foundation Watershed Research Program



AEP AMERICAN
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Build capacity of the applied watershed research program and academic programs (Geology, Biology, Environmental Studies, and Plant Biology) through AEP Foundation's support of:

- Graduate Assistantships
- Student research support
- Faculty and staff support to mentor students and conduct research

