

Permit 2007-012

Field Name	Field Value
Name	William J Davis
Organization	University of Akron; Department of Biology
Phone	330-644-1434
email	wjd6@uakron.edu
Web_Address	
Renewal	No
Permit_Number	
Activity	Research
Project	Environmental Impact of Akron\'s Rubber Industry
Dates	May 25, 2007 to Nov. 1, 2007
Group_Size	2
Research_Area	Yes: Beefy\'s Woods, Oak Forest
Sensitive_Area	No
Other_Areas	No
Building	No
Prep_Work	
Sampling_Collecting	Yes
Sampling_Methods	I will be collecting small pieces (< 1g) of lichen thalli with a pocket knife for better identification of species and verification of identification using chemical tests.
Description	I will be identifying lichen species growing on old (>50 years) maple, oak, and hickory trees and making measurements to determine age, abundance, and composition of the lichen communities on selected trees. Minimal sampling will occur for identification in the lab. The results I obtain will be compared with those I obtain from Quail Hollow State Park using the same methods. I plan to start a list of the lichen species of Bath Nature Preserve. Mainly, I am looking for differences in the lichen communities of Bath Nature Preserve and Quail Hollow State Park. I will then try to correlate these differences with the pollution (mostly sulfur dioxide) produced by the Akron rubber industry in the 40s, 50s, and 60s. The partial list of lichen species that I start will benefit future researchers studying community compositions and factors affecting community composition. The absence/presence of a single species may signal a change in community structure or the environment. If I can produce a rough picture of the environmental impact the rubber industry had before we had the regulations we have in place today, it can serve as a model for industries in countries without regulations or no money to purchase monitoring equipment.
Agreement	Accept

