

Field Name	Field Value
Name	Heath Garris
Organization	University of Akron, Integrated Bioscience
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Web_Address	
Renewal	No
Permit_Number	2009-0003
Activity	Research
Project	Survey of moth (Lepidoptera) and associated floral community distributions within the riparian corridors of Bath Nature Preserve
Dates	May 2009 – August 2012
Group_Size	1-2
Research_Area	Yes
Beefys_Woods	Yes
Round_Top	Yes
Sensitive_Area	Yes
North_Fork	Yes
Other_Areas	Yes
Public_Areas	Yes
Building	Yes
Prep_Work	lab space
Sampling_Collecting	Yes
Sampling_Methods	Moth and plant vouchers will be collected with minimal impact on the local habitat. UV light trapping and collection of moths will be performed at intensities that should have negligible impact on moth and associated biotic communities. Plant vouchers will only be taken where a local population is plentiful and vouchers are necessitated (where plant identification is subject to uncertainty resulting from closely related species co-occurring)
Description	1. Historically, Bath Creek, a stream that flows through the Bath Nature Preserve, was channelized to claim arable lands for domestic use. Channelization limits flood potential leading to a hypothesized reduction in the breadth of Bath Creek's riparian zone. This project will evaluate spatial relationships between terrestrial communities associated with Bath Creek and the North Fork of Yellow Creek. I will be performing extensive field sampling and taking aerial images using a blimp-mounted imaging

	<p>system to generate a Geographic Information System (GIS) for these riparian zones. This GIS will be analyzed to determine the relative impact of Bath Creek's channelization on associated moth (Lepidoptera) and plant communities and to produce preliminary data for further analysis of Bath Creek's restoration. 2. The proposed project will provide continuous documentation of terrestrial biota (concurrently with aquatic data produced by Dr. Hopkins lab) in the riparian corridors of BNP. These will primarily serve as means for monitoring the impacts of Bath Creek's dechannelization and the associated wetland restoration. The project will also provide an extensive survey of the presence and abundance of nocturnal and crepuscular moths utilizing habitats at BNP and monitor floral community compositions on the preserve. 3. Experiments will be limited to field sampling with limited manipulation of habitat. These activities will include stakes placed to mark sample areas and limited collection of plant vouchers for identification. Moth samples will be collected following two methods. First, UV traps will be placed in sample plots along bath creek and the North Fork of yellow creek each evening and retrieved each morning. Transects will be marked with stakes along Bath creek and North Fork and walked in the evening, night, or early morning using headlamps to illuminate sample plots for observation and collection of moths.</p>
Agreement	Accept