

Permit 2007-018

Field Name	Field Value
Name	Margaret Siebert, Ph.D.
Organization	Currently unaffiliated. Dr. Siebert is a neurobiologist with 10 years of experience in studying butterflies in northeast Ohio and Colorado, in addition to 20 years of research experience at the University of Washington and The Max Planck Institut for Behavioral Physiology in Germany. She has published peer-reviewed articles on the brains of insects and is currently studying the antennae and feeding behavior of butterflies. Her assistants will include Alice Phillips and/or other experienced nature photographers and butterfly watchers.
Phone	330-865-5656
email	siebmk77@yahoo.com
Web_Address	U of Akron Biology Dept (lists of species at Bath Field Station)
Renewal	No
Permit_Number	
Activity	Research
Project	Lepidoptera Survey
Dates	Aug. - Nov 2007
Group_Size	2-4
Research_Area	Yes -- Beefy's Woods, Grandview Alley, Oak Forest, Wetland
Sensitive_Area	Yes -- Garden Bowl, North Fork, Tamarack Bog
Other_Areas	Yes -- Public Areas, Steiner's Woods
Building	No
Prep_Work	none
Sampling_Collecting	Yes
Sampling_Methods	A small number of butterflies and/or moths (1-4 specimens of certain species) will be collected using a butterfly net for identification and/or preservation for the Lepidoptera Reference Collection curated by Professor Randall Mitchell at the University of Akron. Lepidoptera specimens collected for reference will be frozen and then prepared by Margaret Siebert using her own equipment. No endangered or threatened species will be collected; no state or federal collecting permit is required for non-threatened butterfly species. In addition, we propose to collect and preserve samples of non-threatened plants in order to identify and documentat of nectaring sources and larval host plants. We would like permission to observe and/or collect at any land area in Bath NP which does not impinge on ongoing research, bird nesting

	<p>areas, etc. This would include along pond and stream edges and along trails through meadows and woods, with occasional walking off-trail. We would like to drive one car on any road and park in parking area that is acceptable in order to be within walking distance of a variety of habitats (eg, Tamarack Bog area, meadows and woods previously surveyed for butterflies (1998-2001).</p>
<p>Description</p>	<p>(1) Activities: We propose to watch and photograph butterflies and their nectaring behavior, and to net a small number of adult butterflies and/or moths as needed in order to identify and document the species occurring at the Bath Nature Preserve. Collected specimens will be prepared by Dr. Siebert for the Bath Field Station Lepidoptera Reference Collection, which is housed at the University of Akron and curated by Professor Randall Mitchell. This butterfly reference collection was begun ca 1998 by Margaret Siebert and Alice Phillips and includes several uncommon species and county records (e.g., Compton Tortoiseshell, Baltimore Checkerspot, Little Yellow, Harvester). (2) Goals: The purpose of this research is to document which species of Lepidoptera occur at the Bath Nature Preserve at various seasons, with a special focus on locating uncommon wetland species. Notes will also be made on nectaring selections made by butterflies and daytime moths, listing flowers blooming at the times of observation and preserving samples of the plants. (3) Impact: The proposed activity will not interfere with other ongoing research and teaching projects. The number of butterflies/ moths collected is expected to have negligible impact on the butterfly/moth populations at Bath Field Station, because care will be taken not to overcollect any uncommon species. Listed endangered/threatened species will not be collected, but would be documented by photographs if possible. The biggest threats to butterfly species are thought to include the loss of appropriate habitat due to development and pesticide application, and other factors affecting the presence and health of larval host plants. A knowledge of butterfly and plant species present at BNP, compared with species found at other locations in northeast Ohio, may help the station managers in knowing which local habitats to protect or encourage.</p>
<p>Agreement</p>	<p>Accept</p>