Northeast Regional Center for Rural Development
The Pennsylvania State University
7 Armsby Building
University Park, PA 16802-5602
814/863-4656
814/863-0586 FAX
nercrd@psu.edu
http://www.cas.nercrd.psu.edu

Final Project Report

*Promoting Ecotourism on Private Lands*

Marc McDill, The Pennsylvania State University
Gabriela Silva, The Pennsylvania State University
James Finley, The Pennsylvania State University
Jonathan Kays, University of Maryland

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FINAL REPORT

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Title of Project: Promoting Ecotourism on Private Lands

Principal Investigators:
Dr. Marc McDill, Assistant Professor
areas of work emphasis: forest management, forest economics, non-timber forest products, forest values, regional development.
School of Forest Resources
The Pennsylvania State University
University Park, PA 16802
(814) 865-1602

Dr. James Finley, Associate Professor
areas of work emphasis: forest management, private forest owner issues and education, ecosystem management on mixed ownerships, extension.
School of Forest Resources
The Pennsylvania State University
University Park, PA 16802
(814) 863-0401

Jonathan Kays, Regional Extension Specialist
areas of work emphasis: natural resource specialist, extension.
Maryland Cooperative Extension
University of Maryland
Keedysville, MD 21756
(301) 432-2767

Gabriela Silva, Ph.D. candidate
areas of work emphasis: forest management, non-timber forest products, ecotourism, social forestry.
School of Forest Resources
The Pennsylvania State University
University Park, PA 16802
(814) 865-1602

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EXECUTIVE SUMMARY

Ecotourism depends on natural resources such as forests, mountains, rivers and lakes. Most ecotourism activities take place on public lands or waterways, but are supported by a network of locally owned businesses. One of the most important aspects of this project has been the overwhelming interest in the project by people contacted as interviewees. They volunteered their time and shared their experiences with us. The many businesses offering or supporting nature-based/ecotourism activities, and the participation of interviewees in the project reveal the importance of nature-based tourism to people living in the area.

The project focused on determining existing and potential ecotourism activities, and identifying a set of key personal, environmental, economic and social factors needed for successful ecotourism operations, including barriers to their success. The study area is Bedford and Somerset counties in Pennsylvania, and Garret and Allegany counties in Maryland, with results having potential applicability to other regions in the Northeast.

In-depth interviews were chosen as the primary method for collecting data because we wanted to gain a deeper understanding of the nature-based tourism industry and the factors affecting the success of individual nature-based tourism businesses. Interviewing people with knowledge and expertise on the subject provides an important knowledge base which will contribute to improving the promotion and management of nature-based tourism. A list of 40 potential key informants was compiled, including individuals from state and county government agencies, tour operators and private landowners with ecotourism-related businesses. An interview instrument was designed to obtain the information base for this study. The instrument provides for a guided interview format that allows specific topics to be addressed in any order, at different lengths and in varied depth by each
interviewee. This has the advantage of letting interviewees freely give their insights on nature-based tourism and the factors affecting its success.

Most of the originally-planned set of key informant interviews have been already conducted. However, we are considering adding some additional groups of individuals to include, so it is likely that additional key interviews will take place. The set of personal, economic, environmental and social factors involved in running a successful ecotourism operation will be identified using content analysis of transcripts from the key informant interview transcripts. The wealth of information provided by key informants will be translated into business profiles, which will be disseminated through research and extension publications. Private landowners and local entrepreneurs interested in additional sources of income will be able to use these guidelines to start (or run) businesses that support ecotourism activities. Results will also help guide the decisions of state government and county agencies, and other organizations interested in promoting ecotourism.
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REPORT CONTENTS

This is the final report for the project *Promoting Ecotourism on Private Lands*. The report highlights the activities carried out to date and our plans to follow up on the project. We intend to conduct additional key informant interviews which were not in the original study plan. The information from these interviews will be analyzed this fall, and publications are expected to follow. The following sections review the problem the study will address, the project goals and objectives, the methodology, and our plans for continuing the project.

**Introduction**

For the purposes of this study, ecotourism is defined as follows:

“environmentally conscious nature-based travel enjoyed by people interested in learning about the nature, history and culture of the area visited, while providing economic and social benefits to host communities by expanding the community’s economic base, and contributing to natural resource conservation through nature interpretation and environmental education.”

The increase of ecotourism within the tourism industry has prompted governments, organizations and communities to develop strategies to promote ecotourism in their regions. Numerous natural attractions in Pennsylvania and Maryland offer countless opportunities for ecotourism, including activities such as sight seeing, canoeing, hiking, and bicycling, among others. Ecotourism can provide economic and social benefits to host communities by expanding the community’s economic base (Ceballos-Lascarain 1987 (cited in Boo 1990), Norman et al. 1997, McMinn 1997, Higgins 1996, Williams 1992). Since ecotourism entails understanding the culture and natural history of the environment, it can also be a means for conserving the area’s natural and cultural resources.
Since the mid 1960s the role of private landowners in providing outdoor recreation opportunities has become increasingly important as public forests and parks have become crowded and less able to meet outdoor recreation demand (Owens 1964). Today, much nature-based tourism takes place on private lands (Bird and Inman 1968, Tjaden 1990). This is particularly true for the northeastern U.S., where only 9 percent of the land is publicly owned (Langner 1990). Ecotourism-related enterprises can provide additional income to private forest landowners who wish to increase their income from sources other than timber (Johnson 1995, Lynch and Robinson 1998). However, landowners who want to promote ecotourism operations on their lands need more information about ecotourism and about running an ecotourism business. This information includes knowing about the natural resources that can serve as a base for ecotourism activities, the needed infrastructure, environmental concerns, business information, and barriers to implementing such an operation, among others.

The goal of this project is to provide recommendations for private landowners interested in providing nature-based tourism activities, and for government agencies promoting ecotourism. The objectives are to identify existing and potential nature-based tourism activities, and determine the key personal, economic, environmental and social factors for successful nature-based tourism operations and barriers to their success.

**Methods**

The study area includes Bedford and Somerset counties in Pennsylvania and Garrett and Allegany counties in Maryland. These counties were chosen for the following reasons: a) they have similar types of natural resources (e.g., forest resources, rivers) and nature-based activities, b) tourism agencies in these areas are promoting nature-based activities, c) these counties are rural, but close to large urban centers (Pittsburgh, Philadelphia, Baltimore, Washington, D.C.), d) all of these
counties have an existing extension focus on additional sources of income for private landowners, and e) these counties are adjacent to each other. A relatively small study area was selected to keep the focus of the project local and because of the time and budget constraints of the project.

The first step toward achieving project objectives was to conduct library and internet searches for relevant literature. The literature review provided a definition for ecotourism, a framework for classifying the key elements of ecotourism, an initial list of the factors in favor of and barriers to ecotourism success, and a list of options for linking ecotourism to private lands. (The Literature Review is attached as an Appendix). Information on existing nature-based/ecotourism operations was gathered for the study area from different sources, including promotional brochures and travel guides, the world wide web, natural resources maps of the area, and interviews of key informants. Examples of ecotourism for areas other than the study site were also gathered.

In-depth interviews were chosen as the primary method for collecting data because we wanted to understand nature-based tourism and the factors affecting the success or failure of ecotourism-oriented enterprises. Although research has addressed nature-based tourism as an activity, little is still known about the provision of ecotourism itself and the factors affecting its success or failure. Interviewing people with knowledge and expertise on the subject will provide an important knowledge base which will contribute to improving the promotion and management of nature-based tourism. Stratified purposeful sampling was used to select 40 key informants. This type of sampling involves selecting sources of information (i.e., key informants) that will provide the researcher with important and detailed information about the research problem under study (Patton 1990). The framework used for stratifying and selecting key informants is presented in Figure 1. Key informants were selected at the state and county levels (including government agencies, tour operators and private landowners in each county) because ecotourism is (or can be) promoted at each level. The
triangle figure indicates that fewer informants were selected at the state level (2 informants per state—for a total of 4 informants) and more at the county level (3 informants for county agencies, 2 tour operators and 4 private landowners—for a total of 9 interviews per county). This is because more information is needed on the specifics of conducting ecotourism businesses, and individuals at the county level are most likely to provide this type of information.

Five themes related to ecotourism were identified (Figure 2). The themes are tourism, community development, natural resources, education, and business development. Tourism is clearly an important theme in this study. Themes related to education, community development and natural resources were identified based on the definition of ecotourism. We assumed that small nature-based tourism businesses will obtain much of their information about business planning and ecotourism provision through educational programs such as those provided by extension personnel. Finally, business aspects was identified as a theme because of the focus of the study on the businesses that provide ecotourism in the area and the network of businesses needed to support ecotourism. The levels identified in Figure 1 and the themes identified in Figure 2 provided the basis for selecting key informants.

Figure 1. Key Informant Levels
The list of agencies and businesses from which the key informants were drawn is presented in Table 1. We sought people who would be able to provide the most information about nature-based tourism in the study region, programs promoting nature-based tourism in the area, and factors related to the success of nature-based tourism enterprises. As potential key informants were identified, they were contacted by telephone. After a brief description of the project, they were asked to participate as key informants, and, if they agreed, the time, date and location for a face-to-face interview was identified. A complete list of the specific key informants and their addresses is included as an Appendix.

An interview instrument was designed to obtain information relevant to the objectives of this study. The instrument was designed using a semi-structured format with both open- and closed-ended questions, including specific prompts to elicit additional information if specific items were not addressed. This instrument was further adapted into three formats by changing question ordering and language used. The different formats were designed for different categories of interviewees: government, tour operators, and private landowners. This was done to increase rapport and elicit the

<table>
<thead>
<tr>
<th>Level</th>
<th>Theme</th>
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<tbody>
<tr>
<td>State or County</td>
<td>Tourism</td>
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<td></td>
<td>Community Development</td>
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<td></td>
<td>Natural Resources</td>
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<td>Education</td>
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<td></td>
<td>Business Development</td>
</tr>
</tbody>
</table>

Figure 2. Themes for Selecting Key Informants by Level
Table 1  Key Informants for the Project: *Promoting Ecotourism on Private Lands*

<table>
<thead>
<tr>
<th>Source Level</th>
<th>Study Area (state, county)</th>
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<tbody>
<tr>
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<td>Pennsylvania</td>
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<td></td>
<td>Bedford</td>
</tr>
<tr>
<td>State</td>
<td>DCNR (Office of Policy)</td>
</tr>
<tr>
<td></td>
<td>Office of Travel, Tourism and Film Promotion</td>
</tr>
<tr>
<td>County</td>
<td>C-Economic Development</td>
</tr>
<tr>
<td></td>
<td>C-Bedford County Visitors Bureau</td>
</tr>
<tr>
<td></td>
<td>CSouthern Alleghanies Planning</td>
</tr>
<tr>
<td></td>
<td>C-Chamber of Commerce</td>
</tr>
<tr>
<td></td>
<td>C-Laurel Highlands Visitors Bureau</td>
</tr>
<tr>
<td>Tour Operators/Outfitters</td>
<td>CGrouseland Tours</td>
</tr>
<tr>
<td></td>
<td>C-Jenny’s Custom Journeys</td>
</tr>
<tr>
<td></td>
<td>C-Choice Camping Grounds</td>
</tr>
<tr>
<td>Private Landowners</td>
<td>C-Adventure Marine</td>
</tr>
<tr>
<td></td>
<td>C-Bedford Covered Bridge Inn</td>
</tr>
<tr>
<td></td>
<td>C-CeDarrow’s Bison Farms</td>
</tr>
</tbody>
</table>
most appropriate information from interviewees. Language can be a significant barrier to obtaining good information. Using language that the interviewee would use in a day-to-day environment is important to assure the amount and quality of the information provided. It was important to minimize possible confusion about the intent of specific questions and to ensure that the interviewee feels comfortable talking to the interviewer (Henderson 1998).

Key informants from government agencies were especially important for providing information about the tourism promotion programs for each state and county considered and the business development activities in each region. Tour operators provide either tours, guide services or equipment (or a combination of these) to tourists. These tours are usually carried out on public lands. Private landowners include individuals offering an ecotourism experience on (and sometimes off) their property or who are part of the business network supporting ecotourism in the area (such as a B&B with nature tours or supporting biking excursions). A brief explanation of the purpose of the interview, why the person was chosen as an interviewee, and the importance of the person’s participation in the study was given at the beginning of the interview. Also, interviews were audio-taped, with the written consent of interviewees.

Pilot interviews were conducted in Chester County (PA) with a private landowner with a nature-based tourism business and the assistant director of the Visitors Bureau. As a result of the pilot interviews, the interview instruments were further modified. The new interview instrument was more open-ended, identifying specific topics or themes to guide the interview (open-ended questions would be used as prompts to elicit further information, as needed). The end result was a guided interview format allowing specific topics to be addressed in any order and leaving flexibility for interviewees to freely give their insights. An interview guide is used when more qualitative information is needed (Krausz and Miller 1974). With this structure, topics are covered at different length and in varied
depth by different interviewees (Krausz and Miller 1974). The objective of the guided interviews was to obtain information that would help us develop a better understanding of nature-based tourism and the factors affecting its success, thus achieving the specific project objectives. The interview instruments are attached as appendixes.

Discussion

Although most of the information for the inventory of current nature-based/ecotourism has been gathered, it has not been compiled into an inventory format. The format for the inventory of current nature-based/ecotourism operations is presented in the Appendix. A few entries have been included to demonstrate the format and as examples of specific businesses related to ecotourism. The existence of many businesses offering or supporting nature-based/ecotourism activities in the area reveals the importance of this type of tourism to the area’s economy. A document with the complete inventory will be completed this fall.

Based on the information gathered so far, we can provide the following summary of currently available ecotourism activities and their associated natural resource base in the study region. Available ecotourism activities include walking, hiking, biking, fishing, canoeing, and rafting. These activities can be considered ecotourism if they provide economic and social benefits to local communities and support conservation of natural resources in the area. The study area offers a variety of natural resources to provide a base for ecotourism. This area has state parks, state forests, and a variety of natural areas. It also has rivers that provide opportunities for canoeing and rafting, and lakes for fishing and water sports activities. Most activities take place on public lands or waterways, but are supported by a network of locally owned businesses. Some tours include activities on private lands, however. These include horseback riding, rock climbing, and visits to farms and wineries. The network of locally owned businesses that support ecotourism include bed and breakfasts, county inns,
and campgrounds. Also, tour operators and outfitters provide equipment and guided tours to visitors. Restaurants and convenience stores supply ecotourists with food and other supplies during their stay.

The rails-to-trails section of Somerset county (PA) is an increasingly important area for ecotourism. The number of local businesses supporting ecotourism has increased in areas such as Confluence and Rockwood. Also important in attracting ecotourism enthusiasts is the C&O Canal and Tow Path in Allegany county (MD). However, much potential is yet to be realized in this area, particularly in terms of the network of local business needed to support ecotourism activities. Local events have been one way to promote tourism and bring people to an area. Many of these events focus around historical events or local traditions. Maple syrup and fall foliage festivals are but two examples of such events that bring together local residents and visitors. The importance of local events was repeatedly mentioned by key informants as central to the success of locally owned businesses and of ecotourism ventures in general.

A list of potential ecotourism activities and the natural resource base supporting them has not been completed because information of existing ecotourism in Pennsylvania, Maryland, and examples from other areas has not been synthesized and integrated. Additionally, a qualitative evaluation of the potential for ecotourism activities in the study area has not been possible because key informant interviews have not been completed, and many of those that have been completed have not been transcribed or analyzed. The following summary of potential ecotourism activities and their natural resource base has been drafted based upon the information gathered to date.

Examples of ecotourism abound in the United States. Tour Operators and outfitters have designed tours around ecotourism activities and are actively promoting nature-based tourism. Examples of operators for the Northeast include Approach Adventure Travel and Escape Routes out of Vermont, Earth Treks out of Maine, True Wheel Tours of New York, Adventure Plus based in
Illinois, and Zoar Outdoor in Massachusetts. These operators offer custom trips for ecotourism enthusiasts. Trips are usually offered as a tour package, including meals, lodging, equipment, instruction, and self or guided tours. Prices range from $30 to $700 depending on individual trip characteristics (e.g., activities included, length of stay, number of participants).

Most key informant interviews have been conducted. Only those key informants on the List of Key Informants marked with an asterisk have yet to be interviewed (See List of Key Informants in the Appendix). Interviewees expressed their interest and support for the project through their volunteer participation and by sharing their experience with us. The wealth of information provided by key informants will be translated into business profiles, which will be disseminated through research and extension publications. These profiles can be used by people interested in starting (or already running) businesses linked to ecotourism. Additionally, they will help guide the decisions of those interested in promoting ecotourism in their areas. This includes private landowners and local entrepreneurs interested in additional sources of income and for government agencies and policy makers designing strategies to promote and implement ecotourism.

**Project Continuance**

We are currently completing key informant interviews and transcribing information from the interviews that have been completed. We plan to include 2 additional groups of key informants to the project. The first group includes environmental organizations working in the area. Their views are expected to bring a more preservationist, non-use perspective on natural resource strategies for the area. The second group is natural resources managers and foresters working with public lands, or as consultants for private landowners. This group is expected to provide insights into ecotourism activities being carried out on public or private lands and their impact on the resource base (such as
overuse of natural resources, degradation of trails, and potential conflicts with extractive industries, such as forestry and mining).

Additionally, we will conduct 2 facilitative discussions, one in Maryland for people from Garrett and Allegany counties and another in Pennsylvania for people from Bedford and Somerset counties. Anyone interested in ecotourism in the region will be invited to the discussions, which will be publicized through local extension organizations, business development organizations, and newspaper advertisements. The objective of these discussions is to validate and complement the information obtained from key informant interviews. The format of these discussions will consist of an oral presentation by the project coordinator on ecotourism and factors for its success (based on the initial results of the study), followed by a discussion to answer the questions: “Do you agree? Are these the key factors for ecotourism success?”

We are in the process of seeking travel funds to carry out interviews of the two new groups of key informants and for conducting the two facilitative discussions.
APPENDIX 1 – BUDGET EXPLANATION

Table A1.1 below lists the expenditures made under the project “Promoting Ecotourism on Private Lands.”

**Personnel**

All of the funds budgeted for graduate assistantships were spent. The majority of the budget for graduate assistantships ($6,007.50 out of $8,410.50) was used to pay for Gabriela Silva’s assistantship. Gabriela is the person responsible for conducting the majority of the proposed work under the project. The original plan, however, was to spend these funds during the second half of the project year, as we had obtained funds for Gabriela for the first half of the academic year from the School of Forest Resources. The remainder of the funds budgeted for graduate students ($2,403) were used to pay for Janis Braze’s assistantship for two months. Janis was paid originally by the School of Forest Resources. Janis assisted Gabriela with her literature review and with testing software for transcribing interviews.

**Fringe Benefits**

Funds for fringe benefits are allocated in proportion to the allocation of assistantship funds.

**Communications**

Communications funds were used to pay for long distance calls to set up interviews for the project. The majority of these calls were made on Dr. McDill’s phone. Only $78.53 out of the budgeted $1,000 was spent.
Meals and Travel

Gabriela Silva made several trips to conduct key informants interviews in the study area ($864.31). Dr. McDill and Janis Braze attended an INFORMS (Institute for Operations Research and Management Sciences) meeting in Cincinnati to present a paper on new methods for managing forest lands to account for spatial relationships. Dr. McDill attended the winter meeting of the Allegheny Chapter of the Society of American Foresters in Berkely Springs, WV. The theme of the meeting was forest management on private lands. Dr. McDill also attended the Forest Issues conference at Penn State. The theme of that meeting was improving communication among forest managers, landowners, and the general public. Finally, Dr. McDill gave a presentation in Warren, PA, on forest planning.

Printing and Copying

Photocopying services were used primarily to copy articles for the literature review for this study.
Defining Ecotourism

Although frequently associated with third world destinations, ecotourism is now common in first world destinations such as Australia, Canada and the United States. The use of the term ecotourism is mostly attributed to Ceballos-Lascurain (1987) who used it to describe nature-based tourism in tropical areas (Boo 1990). Elizabeth Boo (1990) used the term interchangeably with nature tourism. However, as the ecotourism industry began to flourish and more studies on the subject became available, the term ecotourism was subsumed as a subset of the umbrella-notion of nature tourism.


• nature-based tourism,
• appreciation of nature as the primary motive to participate,
• fostering conservation of the natural resource base on which it depends (which translates into protecting and minimizing negative impacts on the environment),
• providing benefits to local hosts (which translates into economic opportunities),
• respect for local culture and minimizing social impacts, and
• promoting environmental education to visitors.

For this study, ecotourism is defined as (Ceballos-Lascarain 1987 [cited in Boo 1990], Norman et al. 1997, McMinn 1997, Higgins 1996, Williams 1992),

“environmentally conscious nature-based travel enjoyed by people interested in learning about the nature, history and culture of the area visited, while providing
economic and social benefits to host communities by expanding the community’s economic base, and contributing to natural resource conservation through nature interpretation and environmental education.”

**Elements of Ecotourism**

Ecotourism has 4 elements: a provider, a setting and an experience, and an ecotourist. Combined, these elements constitute ecotourism (Figure 1). Previous studies have focused on the ecotourist (Wight 1996), and several studies have highlighted the importance of the ecotourist to helping define ecotourism. In this sense, common elements related to the ecotourist in ecotourism definitions include:

* first hand experience with the natural environment (Butler, In: Nelson 1994),
* stronger appreciation and closer contact with wildlife, local culture and resource conservation issues (Williams 1992),
* direct enjoyment of some relatively undisturbed phenomenon of nature (Valentine 1992),
* a high level of preparation from participants (Butler, In: Nelson 1994), and
* contribution to the health and quality of the natural attractions visited (Orams 1995).

![Figure 1 Elements of Ecotourism](image-url)
Most ecotourism studies have focused on the experience itself, and the setting in which it occurs (Boo 1990, Valentine 1993, Aylward et al. 1996). With respect to the experience, ecotourism normally involves

- travel to natural areas (Boyd and Butler 1996, Wight 1993, Orams 1995),
- low-impact on the destination site (Williams 1992, Nelson 1994) and
- fostering environmental principals (Boyd and Butler 1996).

Ecotourism experiences also contribute to a better understanding and appreciation of the culture and natural history of the area visited (Mandziuk 1995, Herath 1996), and of the environment (Nelson 1994).

The setting for ecotourism includes the natural environment, host communities and the equipment involved in the activities. Structures for ecotourism frequently involve rustic accommodations, trails, and basic amenities that tend to foster a stronger appreciation and closer contact with nature (Williams, 1992). A key factor relating to host communities is whether ecotourism providers are local. Local providers generally benefit host communities more than outside providers by reducing economic leakages. Thus, local providers tend to provide greater expansion of the local economic base (Lindberg, Enriquez, and Sproule 1996).

No studies were identified that focus on the provider or on the provision of ecotoursim itself. Some of the case studies on ecotourism consider how ecotourism is being provided by addressing the need for – or existence of – a code of ethics for operators. Private lands can play a significant role in providing “settings” where ecotourism can take place, and private landowners are interested in providing ecotourism as an additional source of income. Thus, studies such as this one are needed which will focus on the provision of ecotourism on private lands and on the factors related to successful ecotourism on private lands.
Factors for Success in Ecotourism Ventures

Providing ecotourism means making available the resources people need to get involved in ecotourism activities. Ecotourism typically is provided by a network of businesses that, together, offer the different products and services needed by the ecotourist. This includes food services and food supplies, sports and outfitting equipment and supplies, lodging, and guide services. These businesses have some underlying characteristics that make them successful.

Table 1 presents a list of factors which from the definition of ecotourism given earlier. The natural environment is the location where ecotourism takes place. Culture refers to the cultural aspects, including the history, of the host community and of the area that are part of the experience that is provided. Education is provided to increase awareness of the importance of nature to both the ecotourist and the local people. It is typically provided through nature interpretation and outdoor activities. Business aspects have to do with factors that affect the viability and profitability of the ecotourism enterprise. Community development refers to “how” and “what” ecotourism contributes to the locale and its people. Natural resource conservation is necessary because ecotourism is a form of nature-based tourism and, as such, depends on the natural environment for its existence.

Factors from Table 1, and those identified from the literature review are grouped into environmental, economic, and social factors. These factors are described in the following paragraphs.

Environmental Factors

Following Mathiesen and Wall (1982), environmental factors refer to the natural environment such as natural features and the ecological processes occurring in an area. Natural features, including scenic vistas and landscapes, climate, topography, wildlife and vegetation, are
Table 1. Factors and the part from the definition of Ecotourism

<table>
<thead>
<tr>
<th>Part from the Definition of Ecotourism</th>
<th>Factors</th>
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<tr>
<td>“environmentally conscious nature-based travel enjoyed by people interested in learning about the</td>
<td>Natural Environment</td>
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<tr>
<td>nature, history and culture of the area visited, while providing economic and social benefits to host</td>
<td>Culture</td>
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<td>communities by expanding the community’s economic base, and contributing to natural resource</td>
<td>Education</td>
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<td>conservation through nature interpretation and environmental education</td>
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important to the type and level of tourism in an area (Bird and Inman 1969, Mathiesen and Wall 1982). Tourism can be important to natural resource conservation because part of the income from tourism can be re-invested into maintaining natural areas (Budowski 1977, In: Mathieson and Wall 1982). In this sense, tourism has enabled rehabilitation of old and creation of new sites, and has fostered administrative and planning controls such as restricted access to sensitive areas that maintain the quality of the environment. Additionally, the physical location of an area is an important factor in tourism demand. Usually rural locations relatively close to metropolitan areas are tourism locations in high demand (Bird and Inman 1969, Mathiesen and Wall 1982).

The goals of ecotourism management strategies are to protect the environment and to provide the tourist with a great ecotourism experience. Ecotourists are motivated by ideas of wilderness, wildlife, parks, learning, nature and physical activity and these ideas should underlie the management of ecotourism (Eagles 1997). Moreover, ecotourism should be managed toward a more active form so that activities contribute to the health and viability of the environment where
they take place (Orams 1995). In many cases, and despite good intentions and attempts to reduce negative effects on the natural environment, tourism has been detrimental to the environment. Damaged vegetation, disruption to wildlife, soil compaction, water quality problems, air and noise pollution, are but a few of the negative environmental effects caused by tourism (Mathieson and Wall 1982). Additionally, protected areas (e.g., national and state parks) have undergone the cumulative and interactive effects of many small-scale, independent, low-intensity tourism developments over the decades (Nelson 1994). Increasing the number of ecotourism activities can pose environmental problems because, despite being non-consumptive and low-impact, people engaging in ecotourism consume resources and generate waste (Office of Technology Assessment 1993).

**Economic Factors**

Based on Mathieson and Wall (1982), economic factors are those related to economic structure and economic development including the economic base, patterns of investment, and economic leakages. Tourism can help the stability of local economies by diversifying the economy through the creation of businesses providing tours and catering the tourist. However, the seasonal character of tourism creates economic fluctuations throughout the year that can be detrimental to the stability of the local economy. Additionally, the existence of personnel skilled in the provision and management of tourism enterprises is key to tourism success. The existence of educational programs is fundamental in training these personnel. Local investment in tourism is important to strengthen the local economy and minimize economic leakages. Economic leakages occur when profits generated locally are exported (i.e., “leaked”) to another locale.

Additionally, marketing and human resources play an important role in the success of ecotourism enterprises (Mandiuz 1995). Following Mandiuz (1995), for individual businesses,
cooperative marketing is an affordable way to attract visitors to an area. For regional agencies, strategies based on symbols, images and other regional characteristics can attract visitors by setting the region apart from others.

Social Factors

Social factors are related to social structure and organization, including demographic characteristics, availability and quality of social amenities, attitudes toward tourists, and local traditions and culture (Mathiesen and Wall 1982). A friendly and cooperative host community enhances local business opportunities for tourism (Bird and Inman 1969). Focusing on impacts, Fox suggests that social factors are expressed by changes in values, relationships, life styles, quality of life, behavior and creative expressions in the locale (Fox 1977, In: Mathiesen and Wall 1982).

Other Factors

Additionally, ecotourism should be locally defined and implemented in terms of specific activities and structures, and potential environmental, cultural, and economic effects for the host area (Nelson 1994). Visitor guidelines are key in enhancing appropriate behavior of visitors to both cultural and natural areas. Ecotourism guidelines highlight expected behavior of visitors with respect to nature and to the host community and environmentally sensitive and low-impact activities (Mandziuk 1995). Two important factors for successful ecotourism destinations go beyond quality of services and facilities to include the quality of the experience itself and the positive host environment (Moore and Carter 1993)

The concept of carrying capacity is often mentioned in the ecotourism literature. Carrying capacity is the maximum number of visitors who can visit an area without leading to severe environmental degradation or serious decline in the quality of the experience gained by visitors
Carrying capacity can be measured in terms of the natural environment, the host community and the visitor. Factors measured are ecological (e.g., ecosystem health, ecosystem integrity), physical (trail areas, water quality and availability, lodging, sewer systems), social (e.g., over-crowding, traffic, pollution, waste disposal), and economic and managerial (e.g., locally owned enterprises, trained personnel) (Mandziuk 1995). Determining carrying capacity limits of increasingly popular destinations is important for the success of ecotourism because this form of tourism promotes conservation and sustainability principles.

Ecotourism on Private Lands

Starting in the mid 1960s, the role of private landowners in providing outdoor recreation opportunities has become increasingly important as public forests and parks have become crowded and less able to meet outdoor recreation demand (Owens 1964). Today, much nature-based tourism takes place on private lands (Bird and Inman 1968, Tjaden 1990). This is particularly true for the northeastern U.S., where only 9 percent of the land is publicly owned (Langner 1990).

According to Hollenhorst (1989) nature tourism options available to private landowners fall under two categories: fees for access to the land, and commercial operations. User access fees provide the visitor opportunities for hiking, rock climbing, mountain biking, caving, and camping. Examples of commercial operations are campgrounds, lodging, retail sales/rental, and guide services.

Barriers to Ecotourism Success
Lack of information, the need for market analyses, and liability concerns are important barriers to ecotourism opportunities on private lands (Lynch and Robinson 1998). Private landowners cite the lack of basic enterprise start-up information as a major impediment to developing recreational enterprises. This information is related to: management costs, labor needs, potential demand, fee structure, and competitors. A market analysis is necessary to determine the type of resources needed and how to reach potential visitors. Also, existing competitors should be identified, and what they offer and for how much. Marketing skills are essential to a successful recreation-based enterprise. This is usually an unfamiliar task for private land owners. Landowners have to be willing to spend time and money to learn how to and market their product or service. Other barriers to ecotourism on private lands include not liking strangers on their lands and risk of damage to property such as trash, vandalism, trespassing, mistreatment of animals, loss of privacy and nuisance complaints.

Dissemination strategies to transfer information to private landowners include individual contact methods (such as farm visits and office calls), group contact methods (such as tours, conferences and demonstrations), and mass contact methods (such as bulletins, exhibits and the Internet) (Lynch and Robinson 1998).

Following Bird and Inman (1969), natural characteristics of areas, public recreational facilities, community attitude, and, once again, liability, are all factors affecting the establishment of recreational facilities. The most important characteristics of an area are accessibility (distance to large urban centers and roads to the area), climate, topography, water, wildlife, vegetation, and historical sites of interest. Businesses catering the needs of visitors enhance visitation to state parks, hiking and scenic areas. In this sense, private and public areas can complement each other in providing recreation areas and facilities. Another important element is community attitude. A
friendly and cooperative host community enhances local business opportunities for tourism.

Finally, private landowners increase their liability risks as a result of charging a fee for access. The landowner can reduce liability by warning guests of potential dangers on the property, incorporating the business to limit liability to the value of the assets of the corporation, or carrying liability insurance.
APPENDIX 3 – ECOTOURISM BUSINESS INVENTORY FORMAT

Ecotourism Related Businesses Directory by Activity

code:
C: characteristics
E: type of establishment

PENNSYLVANIA
Bedford County

Backpacking/Hiking

Birding

Canoe/Kayak and other water based activities
Adventure Marine, Ltd.
Rt. 30 Hartley
P. O. Box 102 Bedford, PA 15522
(814) 623-1821
www.bedford.net/canoe
C: Canoe & kayak sales, rentals and trips, and camping sites
E: River trips, camping

Camping
Choice Camping Court
R. R. 1, BOX 160, Manns Choice, PA 15550
Telephone (814) 623-9272
C: Trailers and tent sites
E: Camping

Friendship Village Campground
Rt. 30, 548 Friendship Village, Bedford, PA 15522
Telephone (814) 623-1677
C: Trailers and tent sites
E: Camping

Biking
Ramada Inn
Breezewood, PA
Telephone (814) 735-4005
C: Biking Packages, including: lodging, breakfast, maps, boxed lunch & truck support service
E: Inn
Grouseland Tours
Tours at Old Bedford village, Adventure Marine, and Grouseland
Telephone (814) 784-5000
C: Mountain and soft ride biking. Also canoe trips available
E: Biking tours and sales

Farm tours

Fishing

Hiking
Blue Knob Resort
Telephone (814) 239-5111
C: four-season resort
E: Resort

Hunting

Site Seeing
Bedford County Covered Bridges
Bedford County Conference & Visitors Bureau
Telephone (814) 623-1771
C: car tour, historic
E: Coverd Bridges

Outfitting businesses/guide services
Jenny's Custom Journeys
Telephone (814) 623-0965
C: Guided tours for groups of 20 or more
E: Tours and travel

Lodging with nature packages
Bedford’s Covered Bridge Inn
RR 2, BOX 196, Schellsburg, PA 15559
Telephone (814) 733-4093
C: catch and release fly fishing in a limestone stream
E: Lodging

Somerset County

MARYLAND
Garret County
Allegany County
Key Informant Interview Instrument  
(Government)

Name: 
Agency: 
Position: 
Length of time in position: 

1. **Nature-based Tourism Opportunities.** (Existing) What nature-based tourism opportunities are available in the county?

2. **Agency Role.** (Promotion, programs, coordination among agencies, examples, private landowners, local entrepreneurs).

3. **Businesses** (coordination with businesses, motivation, steps, factors, success, characteristics of entrepreneur, problems, mistakes, barriers.) Examples. What steps do people need to follow to start a nature-based tourism business? What are some of the things people need to consider before starting this business? What kind of person do you think it takes to be successful in this kind of business? What are some of the problems people face when starting a business? How can they avoid or overcome these problems? What were some of the mistakes people make when starting a business? What are some of the barriers that prevent people from starting their own nature-based tourism business?

4. **State Government.** (State programs in starting, and in running, help, problems, importance to success.) Has the state government helped you start your businesses in any way? In what way? state government programs? Importance to your success? state government as a source of problems in starting your business? overcoming problems? Has the state government helped you with your business in any way after it was running? In what way? state government programs? Were you involved? In which ones? Importance to your success? state government as a source of problems in running your business? overcoming problems? Do you think there is something the state government ought to be doing that it is not to help people start (or run) a nature-based tourism business? Examples.

5. **Local Government.** (State programs in starting, and in running, help, problems, importance to success.) Has the local government helped you start your businesses in any way? In what
way? local government programs? Importance to your success? Local government as a source of problems in starting your business? overcoming problems? Has the local government helped you with your business in any way after it was running? In what way? local government programs? Were you involved? In which ones? Importance to your success? Local government as a source of problems in running your business? overcoming problems? Do you think there is something the local government ought to be doing that it is not to help people start a nature-based tourism business? Examples.

6. **Local Community.** (Help, problems, events.) Has the local community helped your business? In what way? Has the community given you any problems with respect to your business? Give me some specific examples. Do you think there is something the community ought to be doing that it is not to help people start nature-based tourism business? Examples.

8. **Local Organizations.** (Examples, support in starting, and in running, importance to success.) Are there any local organizations that supported you in starting your business? What organizations? type of support they give? importance to your success? Examples. Are there any local organizations that supported you in running your business? What organizations? type of support they give? importance to your success? Examples.

9. **Nature-based Tourism Opportunities.** (Potential, ecotourism.) What nature-based tourism opportunities are available in the county but are not currently being promoted? Have you heard of the term ecotourism? How would you define ecotourism?

10. **Other Information.** Is there any other information you wish to share about your experience with your business?
**Key Informant Interview Instrument**

**(Tour Operators/Outfitters)**

Name:
Name of Business:
Position:
Length of time in position:

1. **About the business.** (Guided tours offered, tours on private lands, certified guides, motivation, steps, factors, success, characteristics of entrepreneur, problems, mistakes, barriers.) Tell me a little bit about your business. How did you become interested in starting this business? What steps did you follow to start your business? What are some of the things you considered before starting this business? What kind of person do you think it takes to be successful in this kind of business? What problems did you face getting started in this business? How did you overcome these problems? What were some of the mistakes you made when starting your business?

2. **Local Community.** (Help, problems, events.) Has the local community helped your business? In what way? Has the community given you any problems with respect to your business? Give me some specific examples. Do you think there is something the community ought to be doing that it is not to help people start nature-based tourism business? Examples.

3. **Local Organizations.** (Examples, support in starting, and in running, importance to success.) Are there any local organizations that supported you in starting your business? What organizations? type of support they give? importance to your success? Examples. Are there any local organizations that supported you in running your business? What organizations? type of support they give? importance to your success? Examples.

4. **State Government.** (State programs in starting, and in running, help, problems, importance to success.) Has the state government helped you start your businesses in any way? In what way? state government programs? Importance to your success? state government as a source of problems in starting your business? overcoming problems? Has the state government helped you with your business in any way after it was running? In what way? state government programs? Were you involved? In which ones? Importance to your success? state government as a source of problems in running your business? overcoming problems? Do you think there is something the state government ought to be doing that it is not to help people start (or run) a nature-based tourism business? Examples.
5. **Local Government.** (State programs in starting, and in running, help, problems, importance to success.) Has the local government helped you start your businesses in any way? In what way? local government programs? Importance to your success? Local government as a source of problems in starting your business? overcoming problems? Has the local government helped you with your business in any way after it was running? In what way? local government programs? Were you involved? In which ones? Importance to your success? Local government as a source of problems in running your business? overcoming problems? Do you think there is something the local government ought to be doing that it is not to help people start a nature-based tourism business? Examples.

6. **Nature-based Tourism Opportunities.** (Existing, potential, ecotourism.) What nature-based tourism opportunities are you aware of in the county? not currently being promoted? Have you heard of the term ecotourism? How would you define ecotourism?

7. **Other Information.** Is there any other information you wish to share about your experience with your business?
Key Informant Interview Instrument  
(Private Landowners/Entrepreneurs)

Name:
Name of Business:
Position:
Length of time in position:

1. **About the business.** (Motivation, steps, factors, success, characteristics of entrepreneur, problems, mistakes, barriers.) Tell me a little bit about your business. How did you become interested in starting this business? What steps did you follow to start your business? What are some of the things you considered before starting this business? What kind of person do you think it takes to be successful in this kind of business? What problems did you face getting started in this business? How did you overcome these problems? What were some of the mistakes you made when starting your business?

2. **Local Community.** (Help, problems, events.) Has the local community helped your business? In what way? Has the community given you any problems with respect to your business? Give me some specific examples. Do you think there is something the community ought to be doing that it is not to help people start nature-based tourism business? Examples.

3. **Local Organizations.** (Examples, support in starting, and in running, importance to success.) Are there any local organizations that supported you in starting your business? What organizations? type of support they give? importance to your success? Examples. Are there any local organizations that supported you in running your business? What organizations? type of support they give? importance to your success? Examples.

4. **State Government.** (State programs in starting, and in running, help, problems, importance to success.) Has the state government helped you start your businesses in any way? In what way? state government programs? Importance to your success? state government as a source of problems in starting your business? overcoming problems? Has the state government helped you with your business in any way after it was running? In what way? state government programs? Were you involved? In which ones? Importance to your success? state government as a source of problems in running your business? overcoming problems? Do you think there is something the state government ought to be doing that it is not to help people start (or run) a nature-based tourism business? Examples.
5. **Local Government.** (State programs in starting, and in running, help, problems, importance to success.) Has the local government helped you start your businesses in any way? In what way? local government programs? Importance to your success? Local government as a source of problems in starting your business? overcoming problems? Has the local government helped you with your business in any way after it was running? In what way? local government programs? Were you involved? In which ones? Importance to your success? Local government as a source of problems in running your business? overcoming problems? Do you think there is something the local government ought to be doing that it is not to help people start a nature-based tourism business? Examples.

6. **Nature-based Tourism Opportunities.** (Existing, potential, ecotourism.) What nature-based tourism opportunities are you aware of in the county? not currently being promoted? Have you heard of the term ecotourism? How would you define ecotourism?

7. **Other Information.** Is there any other information you wish to share about your experience with your business?
APPENDIX 5 – LIST OF KEY INFORMANTS

Pennsylvania

State Government

* Department of Conservation and Natural Resources
  Office of Policy
  Michael Krempaski, Deputy Director
  Rachel Carlson Building
  Harrisburg, PA 17105
  (717) 772-9087

* Office of Tourism, Travel, and Film Promotion
  Frederick Smith, Director
  Room 404, Forum Building
  Harrisburg, PA 17120
  (717) 787-5453

Bedford County

Local Government

Office of Economic Development
  Wendy Melius, Assistant Director
  203 S. Juliana St.
  Bedford, PA 15522
  (814) 623-4816

Visitors Bureau
  Denis Tice, Director
  141 S. Juliana St.
  Bedford, PA 15522
  (814) 623-1771

Southern Alleghanies Planning
  Doris Mitchell, Director
  Travel Development
  541 58 St
  Altoona, PA 16602
  (814) 949-6500

Tour Operator/Outfitter
  Grouseland Tours
  Schroenberg
  467 Robinsonville Road
  Clearville, PA 15535
  (814) 784-5000

  Jenny’s Custom Journeys
  Jenny Imler
  332 S. Juliana St.
  Bedford, PA 15522
  (814) 623-0965

Private Landowner/Entrepreneur
  Adventure Marine, Ltd.
  Craig Mayer
  Hartley Rd. (Off Rt. 30)
  Bedford, PA
  (814) 623-1821

  Bedford Covered Bridge Inn
  Greg Lau
  749 Mill Road
  Schellsburg, PA 15559
  (814) 733-4093
Choice Camping Grounds
Doris Wertz
209 Choice Camp Ground Rd.
Mann’s Choice, PA 15550
(814) 623-9272

Cedarrow’s Bison Farms
Ann Darrow
Rt. 30 (2 miles west of Schellsburg)
Schellsburg, PA
(814) 733-4908

Somerset County
Local Government
Chamber of Commerce
Hank Park, Executive Director
601 N. Center Ave.
Somerset, 15501

Somerset County Development Council
Nicholas Felice, Director
125 N. Center Ave.
Somerset, PA
(814) 445-9655

Laurel Highlands Visitors Bureau
Lynn Barger, President
120 E. Main St.
Ligonier, PA
(724) 238-5661

Tour Operator/Outfitter
White Water Adventures
James Greenbaum
Ohiopyle, PA
(800) 992-7238

Black Timber Outfitters
Thomas Mills
8631 Somerset Pike
Boswell, PA 15531
(814) 629-9307

Private Landowner/Entrepreneur
River’s Edge Café
Anna Marie Yakubisin
203 Yough St.
Confluence, PA 15424
(814) 395-5059

Woodland Campsites, Inc.
Grace Shoffspall
Route 601 North
RD 7, Box 189
Somerset, PA 15501
(814) 445-8860

In Town Inn
Paul Hendershot
906 E. Main St.
Rockwood, PA 15557
(814) 926-4131

Country Trail
Douglas Morgan
7 Bridge St.
Rockwood, PA 15557
(814) 924-2117
Maryland
State Government
* The Maryland Department of Natural Resources (MDNR)
Outdoor Adventures
Barbara Knisely
Tawes State Office Bldg.
Annapolis, MD 21401
(410) 260-8155

* Maryland Office of Tourism Development
(410) 767-3400

Allegany County
Local Government
Allegany Visitors Bureau
Kevin Adams, Executive Director
P.O. Box 1445
Cumberland, MD 21501
(301) 777-5132

Small Business Development
Mark Malec, Director
957 National Highway
LaVale, MD 21502
(301) 729-8700

Tour Operator/Outfitter
Adventure Sports
Joshua Nossaman, Manager
131 E. Main St.
Frostburg, MD
(301) 689-0345

Allegany Expeditions, Inc.
Darrell Spence
10310 Columbus Ave.
I-68 exit 45
Cumberland, MD 21502
(301) 722-5170

Private Landowner/Entrepreneur
The Inn at Walnut Bottom
Kristen Hansen
120 Greene St.
Cumberland, MD 21502
(301) 777-0003

Hidden Springs Campground
Linda Klingerman
Pleasant Valley Road
I-68, exit 50
Flintstone, MD
(814) 767-9676

Little Orleans Campground & Park Area
Elaine Sipes
31661 Green Forest Drive, SE
Little Orleans, MD 21766
(301) 478-2325

Town Hill Hotel B & B
Robert Sinclair
I-68 exit 68
Little Orleans, MD 21766
(301) 478-2794
Garrett County

**Local Government**

Chamber of Commerce
Kenneth Wishnick, Director
15 Visitors Center Dr.
McHenry, MD 21541
(301) 387-4386

Cooperative Extension
Jim Simms
1916 Maryland Highway. Suite A
Mountain Lake Park, MD 21550
(301) 334-6960

Adventure Sports Institute of Western Maryland
Sharon Elsey
Office Manager
P.O. Box 151
McHenry, MD 21541
(301) 387-3032

**Private Landowner/Entrepreneur**

Savage River Lodge
Mike Dreisbach and Jan Russell
I-68 exit 29
(301) 790-1037

Cabin Rentals (former B&B owner)
Sharon Kazary
(301) 895-3138

Walnut Ridge Bed and Breakfast
Candice Goodman
92 Main St.
Grantsville, MD 21536
(301) 895-4248

Wings of Challenge
Tina Devine
4232 Bear Creek Road
Accident, MD 21520
(301) 746-8868

**Tour Operator/Outfitter**

Golden Wings Nature Tours
Connie Skipper
293 Bray Hill Lane
Oakland, MD 21550
(301) 387-5227

Spring Creek Outfitters
Allen Noland
578 Deep Creek Dr.
McHenry, MD 21541
(301) 387-2034
APPENDIX 6 – REFERENCES


