



Piedmont Ecoregion

A Plan for Biodiversity Conservation

Draft

**Implementation
Document**



March 2006



Executive Summary

The Piedmont Ecoregion stretches from south central Maryland to east central Alabama over 680 miles through portions of 6 states (Alabama, Georgia, South and North Carolina, Virginia, & Maryland) and covers 42,343,801 acres (Map A). It is situated between the Blue Ridge and Ridge and Valley areas to the west and the Coastal Plain to the east and south. Low hills and metamorphic rock dominate the area with occasional monadnocks in the western portion of the ecoregion. Dominated by both deciduous and evergreen forests there are also some native grasslands. Most streams drain to the south and east onto the Coastal Plain. It is a highly fragmented landscape long used by humans for agricultural and industrial purposes. Due to its broad climactic range, varied topography, and unique geologic history, the Piedmont is important for terrestrial and freshwater aquatic species. Given increasing pressures on critical habitats, a tremendous need exists for a comprehensive approach to conserve the ecoregion's most important biodiversity elements. As such, this draft plan details information about conservation measures necessary for sustaining the long-term biological integrity of the Piedmont.

For this planning effort, a team of more than 70 staff and experts from a number of organizations, agencies, and academic institutions met to evaluate the ecoregion's most important conservation targets, establish goals for protection, and identify data gaps, threats, and key strategies. The assessment was led by The Nature Conservancy and depended upon scientific data gathered and maintained by NatureServe and the network of Natural Heritage programs in each state.

Overall, 177 conservation targets were selected as the basis for the plan, representing 89 animal and plant species and 88 natural plant communities and ecological systems. Furthermore, these conservation targets are represented by over 1,800 viable occurrences of species and communities. A set of priority conservation areas was identified based upon numeric goals for protection of viable target occurrences, restoration of needed target occurrences to meet protection goals, and for ecological systems such as aquatic stream types. There are 544 draft conservation areas (446 terrestrial, 98 aquatic environments).

The terrestrial conservation areas encompass 4,398,983 acres (approximately 10.4% of the total area of the ecoregion including buffer regions). The estimated amount of watershed captured within aquatic conservation areas is 16,440,922 acres; however, much of the aquatic portfolio extends beyond the boundaries of the ecoregion. Aquatic conservation areas strictly within the Piedmont constitute 12,155,683 acres (~29% of the ecoregion). Including overlap, the entire aquatic and terrestrial portfolios comprise almost 21 million acres of lands and waters inside the Piedmont and on into neighboring ecoregions.

Terrestrial/Aquatic overlap is 18,845,947 acres (44.5%) including sites from both that go outside of the ecoregion. Terrestrial/Aquatic overlap is 14,163,022 acres (33.4%) when clipped to the ecoregion

Only 16.5% of the terrestrial portfolio is publicly owned. Approximately 39% of all conservation areas are managed by a variety of federal/state agencies or local governments. The largest public landowner is the U.S. Forest Service, which administers

portions of 6 National Forests in the Piedmont accounting for roughly 39% of all public landholdings. Other federal agencies managing lands include: the National Park Service, the Department of Defense, the U.S. Fish & Wildlife Service, the Department of Energy, and Department of Defense. State agencies account for approximately 26.4% of all public lands in the ecoregion. The remainder of the Piedmont is privately held by individuals, corporations, and other interests.

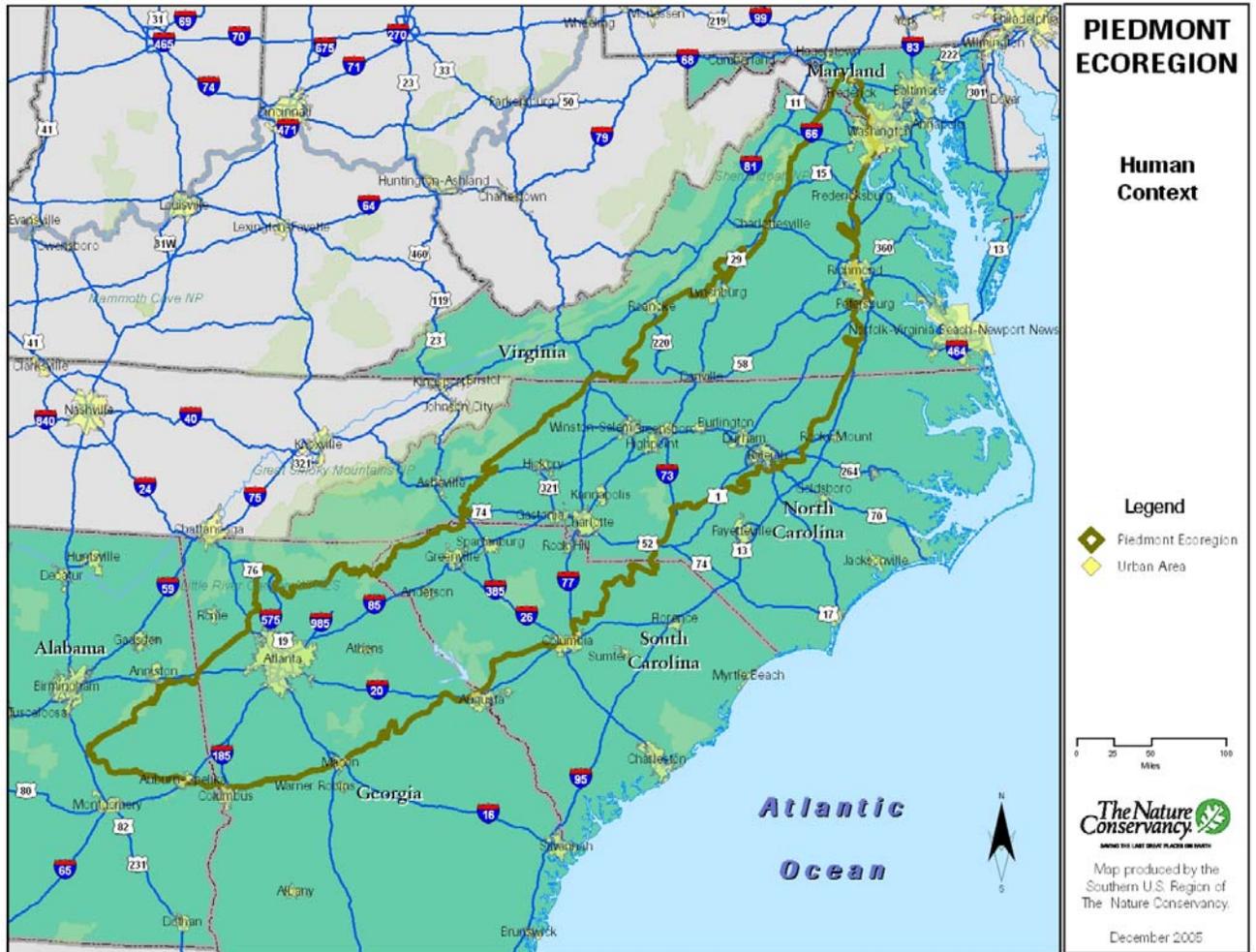
In this effort each of these conservation areas were designed at a relatively coarse scale. Effective conservation will require more detailed planning at finer scales using appropriate information, methods, and knowledgeable individuals. Then application of appropriate conservation actions will have the most positive impact toward conservation at individual sites and across the ecoregion.

The most critical threats to conservation targets in the Piedmont were identified and evaluated on the basis of severity and scope across the ecoregional portfolio. Top threats include: incompatible forestry practices, residential development, agricultural practices, fire suppression, impoundments/stream modification, mining practices, incompatible recreation, industrial/ municipal pollution, invasive exotic species, and oil & natural gas drilling]. Strategies to abate these threats still need to be developed. They need to address potential benefits, feasibility, and relative cost. Also, various strategy action steps need to be developed as a guide for enacting conservation measures.

To assist with implementation, conservation areas were prioritized using data from the Southern U.S. Region's Sequencing Conservation Actions Project. The process of prioritization compiled data for two parameters: Biodiversity Value and Urgency for Conservation Action (Threats). The highest priority conservation areas (known as Now-Right Now conservation areas) numbered 8 and the second category of priority areas (known as Now conservation areas) numbered 90. These conservation areas were selected across a variety of geographic scales ranging from large multi-state matrix landscapes/watersheds to small functional sites. Overall, these sites represent the most important conservation areas across all states of the ecoregion, and should be given the highest priority for commitment of resources.

This draft Piedmont Ecoregional Plan provides a conservation vision for the future and outlines necessary steps to ensure lasting protection of biological diversity. However, completion of this plan is merely the first stage of a long-term, iterative planning effort. Any success in implementing this plan will require scores of dedicated conservationists working across state lines within many organizations. Partnerships, public support, and funding are key elements to the realization of this vision.

Map A. Piedmont Ecoregion



Piedmont Ecoregion

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Primary authors:

Judy Dunscomb (TNC - Virginia Chapter)
Margit Bucher (TNC – North Carolina Chapter)
John Prince (TNC –Southern Resource Office)
Rob Sutter (TNC- Southern Resource Office)

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The Nature Conservancy is a nonprofit organization with the mission to preserve plants, animals and natural communities that represent the diversity of life on earth by protecting the lands and waters they need to survive.



NatureServe is a nonprofit conservation organization that provides the scientific information and tools needed to help guide effective conservation action. NatureServe and its network of natural heritage programs are the leading source for information about rare and endangered species and threatened ecosystems.



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All contributors to this effort are listed according to their participation in various teams as leaders, expert advisors, or for assisting with some portion of the planning process. Apologies are offered in advance for omission of anyone who played a role in this project. A spreadsheet (MS Excel) is provided on the CD with more contact information on these participants.

Core Planning Team

Judy Dunscomb (TNC Virginia Chapter) - **project leader**
Jon Ambrose (Georgia Natural Heritage Program)
Jarel Hilton (formerly of the Alabama Natural Heritage Program)
Malcom Hodges (TNC Georgia Chapter)
Rob Evans (formerly of the TNC Southeast Resource Office)
John Prince (TNC Southeast Resource Office)
Ryan Smith (formerly of the TNC Southeast Resource Office)
Donna Lohr (formerly of the TNC Southeast Resource Office)
Chris Oberholster (TNC Alabama Chapter)
Margit Bucher (TNC North Carolina Chapter)
Jame Amoroso (North Carolina Natural Heritage Program)
Harry LeGrand (North Carolina Natural Heritage Program)
Pamela Ferrell (formerly of the TNC South Carolina Chapter)
Jim Sorrow (South Carolina Department of Natural Resources)
Rick Myers (Virginia Department of Conservation and Recreation)

GIS/Data Management Team

Donna Lohr (formerly of the TNC Southeast Conservation Science)
John Prince (TNC Southeast Conservation Science)
Chris Szell (TNC Southeast Conservation Science)
Rob Evans (formerly of the TNC Southeast Conservation Science)

Natural Plant Communities Technical Team

Sally Landaal (formerly of the TNC Southeast Conservation Science)– **leader**
Jon Ambrose (Georgia Natural Heritage Program)
Rob Evans (formerly of the TNC Southeast Conservation Science)
Mike Schafale (North Carolina Natural Heritage Program)
Gary Flemming (Virginia Department of Conservation and Recreation)
Milo Pyne (NatureServe/Association for Biodiversity Information)
Al Schotz (Alabama Natural Heritage Program)
Kathy Boyle (South Carolina Department of Natural Resources)

Plant Technical Team

Jame Amoroso (North Carolina Natural Heritage Program)– **leader**
Chris Ludwig (Virginia Department of Conservation and Recreation)
Jim Allison (Georgia Natural Heritage Program)
Tom Patrick (Georgia Natural Heritage Program)
Al Schotz (Alabama Natural Heritage Program)
Bert Pittman (South Carolina Department of Natural Resources)

Terrestrial & Aquatic Animal Technical Team

Pam Ferrell - (formerly of the TNC South Carolina Chapter)- **leader**
Harry LeGrand (North Carolina Natural Heritage Program)
Ryan Smith (formerly of the TNC Southeast Conservation Science/Freshwater Initiative)
Kimberly Ernstrom (formerly of the TNC Freshwater Initiative)
Ron Ahle (South Carolina Department of Natural Resources)
Steve Roble (Virginia Department of Conservation and Recreation)
Steve Bennett (South Carolina Department of Natural Resources)
Chris Skelton (Georgia Natural Heritage Program)
Jim Godwin (Alabama Natural Heritage Program)
Barry Hart (formerly of the Alabama Natural Heritage Program)
Malcolm Hodges (TNC Georgia Chapter)

Other Advisors and Special Contributors

Rob Sutter (TNC Southeast Conservation Science)
Paul Freeman (formerly of the TNC Southeast Conservation Science)
Shannon Woolfe (formerly of the TNC Southeast Conservation Science)
Donna Lohr (formerly of the TNC Southeast Conservation Science)
Michael Lipford (TNC Virginia Chapter)
Kate Steere (TNC Virginia Chapter)
Gwynn Crichton (TNC Virginia Chapter)
Ridge Schuyler (TNC Virginia Chapter)
Eric Fleek (North Carolina Division of Water Quality)
David Lenat (North Carolina Division of Water Quality)
Linda Pearsall (North Carolina Natural Heritage Program)
Scott Pohlman (North Carolina Natural Heritage Program)
Sarah McRae (North Carolina Natural Heritage Program)
Judy Ratcliffe (North Carolina Natural Heritage Program)
Jeff Marcus (North Carolina Wildlife Resources Commission)
Hervey McIver (TNC North Carolina Chapter)
Merrill Lynch (TNC North Carolina Chapter)
Sam Pearsall (TNC North Carolina Chapter)
Margaret Fields (TNC North Carolina Chapter)
Lisa Carswell (TNC South Carolina Chapter)
Sarah Hartman (TNC South Carolina Chapter)
Stewart Greeter (South Carolina Department of Natural Resources)
Carolyn Wells (US Fish and Wildlife Service)
Laura Fogo (US Fish and Wildlife Service)
John Townsend (Virginia Department of Conservation and Recreation)
Allen Belden (Virginia Department of Conservation and Recreation)
Nancy Van Alstine (Virginia Department of Conservation and Recreation)
Katheleen McCoy (Virginia Department of Conservation and Recreation)

Dean Walton (Virginia Department of Conservation and Recreation)
Pete Diamond (North Carolina Zoological Park)
Gin Wall (North Carolina Zoological Park)
Wayne Ostlie (TNC Conservation Strategies Group)
Jonathan Higgins (TNC Great Lakes Initiative)
Jen Perot (Penn State Cooperative Wetlands Center)
Dr. Doug Rayner (Wofford College Spartanburg, SC)
Barry Rice (TNC Global Invasive Species Initiative)
Lisa Creasman (Conservation Trust for NC)
Andrew Waters (Catawba Lands Conservancy)
Tom Kenney (Foothills Conservancy)
Susie Hamrick Jones, (Foothills Conservancy)
Chuck Peoples (Tar River Land Conservancy)
Jeff Fisher (Tar River Land Conservancy)
Greg Messinger (Piedmont Land Conservancy)
Charles Brummitt (Piedmont Land Conservancy)
Rah Trost (Eno River Association)
Jason Walser (Landtrust for Central North Carolina)
Kevin Brice (Triangle Land Conservancy)

Table of Contents

Executive Summary	ii
Citation	v
Acknowledgements.....	vi
Table of Contents.....	ix
INTRODUCTION – Conservation of the Piedmont Ecoregion.....	1
Biodiversity Significance	1
Regional Context.....	1
Current Status	3
Developing a Plan for Biodiversity Conservation	4
Organization of the Document	7
Using this Document as a Conservation Resource.....	8
CHAPTER 1 – Identifying Conservation Priorities.....	9
Key Ecological Concepts	9
Developing the Conservation Areas.....	12
Terrestrial Conservation Assessment	13
Assembly of Draft Conservation Areas	22
Draft Terrestrial Conservation Areas.....	22
Aquatic Conservation Areas.....	22
CHAPTER 2 – The Conservation Blueprint	24
Summary of Conservation Areas	24
Meeting Conservation Target Goals	28
Threats to the Ecoregion.....	30
Strategies for Conservation	33
Resources for Implementation the Piedmont Plan.....	34
Review of Ecoregional Assessment Standards & Next Steps.....	35
Literature Cited	38
Glossary of Terms	41
List of Boxes	
1 The Nature Conservancy’s Ecoregions	5
1.1 Expert Workshops.....	15
1.2 Stratification Units	17
1.3 Ecological Land Unit Data Layers.....	19
1.4 Portfolio Assembly Steps	22
2.1 List of Standardized Threats by Category.....	30
2.2 GAP and IUCN Protected Area Categories	32
List of Figures	
1 The Nature Conservancy’s Conservation Approach.....	5
1.1 The Nature Conservancy’s Ecoregional Assessment Process.....	10

1.2 Conservation Targets at Multiple Scales	11
1.3 Matrix Block Acreage	19
1.4 Freshwater Study Cover	23
2.1 Terrestrial Conservation Area Acreage by Stratification Unit.....	26

List of Maps (additional maps on CD)

A. Piedmont Ecoregion	iv
1. Carolina Slate Belt and Major Gold Mines	2
2. Sudden Oak Death Risk	3
3. The Nature Conservancy's Ecoregions	6
1.1 Piedmont Stratification Units	16
2.1 Draft Terrestrial Conservation Areas of the Piedmont Ecoregion	27
2.2 Freshwater Conservation Areas of the Piedmont Ecoregion	28

List of Tables

1 Piedmont Land Cover Composition (NLCD)	4
1.1 Number of Terrestrial Targets by Major Group	13
1.2 Recommended Conservation Goals for Plant Community Associations per Ecoregion.....	15
1.3 Slope Classes in the Ecological Land Unit Model.....	20
1.4 Elevation Classes in the Ecological Land Unit Model	20
1.5 Geology Classes in the Ecological Land Unit Model	20
1.6 Ecological Land Unit Matrix Block Ordination Classes	21
2.1 Terrestrial and Freshwater Conservation Area Acreage Summary	24
2.2 Freshwater Conservation Area Acreage by Stratification Unit Summary	27
2.3 Overview of Piedmont Terrestrial Target Goal Status	29
2.4 Draft Terrestrial Conservation Area Ownership	31
2.5 Protected Area Categories for Draft Terrestrial Conservation Areas.....	32
2.6 NLCD Cover Types in Draft Terrestrial Conservation Areas.....	33

Appendices (on CD)

- Appendix A.* Terrestrial Targets, Goals, and Progress Toward Goals
- Appendix B.* Draft Terrestrial Conservation Areas
- Appendix C.* Viable Target Capture in Draft Piedmont Terrestrial Conservation Areas
- Appendix D.* Overview of Piedmont Terrestrial Goal Status
- Appendix E.* Freshwater Conservation Areas
- Appendix F.* List of Standardized Threats by Category and their Stress Descriptors

ACCOMPANYING CD ON BACK COVER

INTRODUCTION

Piedmont Ecoregion

From 1999 through 2005, staff from The Nature Conservancy and Natural Heritage programs in five states (AL, GA, NC, SC, & VA), as well as staff from the Conservancy's Southeast Conservation Science Office, worked to develop a comprehensive biodiversity conservation plan for the Piedmont Ecoregion.¹ The overarching goal of this project was to identify a suite of significant conservation areas that if collectively conserved through a range of strategies, would ensure the long-term survival of the animals, plants, natural plant communities, and ecological systems of the ecoregion. This report and the CD constitute the latest products of this planning effort.

Biodiversity Significance of the Piedmont

A recent assessment of 20,892 species by The Nature Conservancy and NatureServe (*formerly known as the Association for Biodiversity Information*) revealed that almost one-third of the native flora and fauna of the United States appear to be of serious conservation concern. As well, at least 500 plants and animals are believed to be either extinct or missing nationwide (Stein et al. 2000).

While the piedmont ecoregion does not support as much biodiversity as adjacent regions such as the Southern Blue Ridge and Atlantic Coastal Plain, it is a key link between ecoregions and supports several endemic species and communities. Human population growth threatens biodiversity on one hand but on the other hand, also provides funding opportunities and multiple partners for conservation.

Regional Context of the Piedmont

The piedmont or foothills of the Appalachian Mountains is the oldest and most eroded part of the original Appalachian orogeny. It is bounded by the coastal plain to the east and the Southern Appalachians to the west. Elevations range from approximately 600 to 1,500 foot. Rolling hills with broad ridges that are irregularly and frequently dissected by drainages are typical for the piedmont. Rivers and drainages typically run southeastward in relatively narrow floodplains.

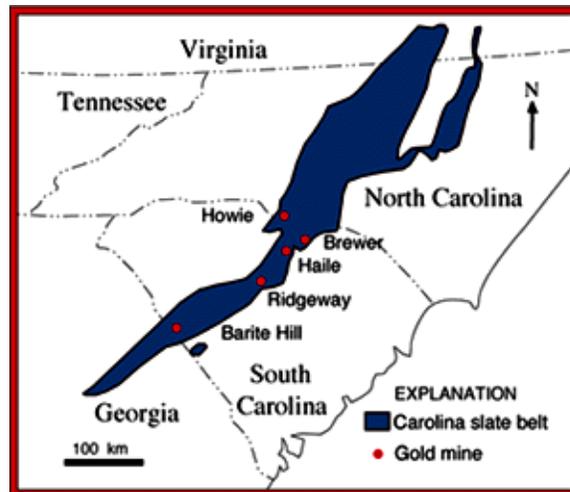
GEOLOGY & SOILS

There are two distinct divisions to the piedmont rocks; one a set of Late Proterozoic and Paleozoic igneous and metamorphic rocks, and a second of lower Mesozoic (Triassic) sedimentary rocks which were deposited in graben basins faulted into the igneous and metamorphic rocks. These distinct divisions were used to stratify the piedmont ecoregion into subunits to account for the climatic and geologic range of factors shaping the biotic communities of the piedmont.

High grade metamorphic rocks such as schist, amphibolites, gneisses and migmatites, and igneous rocks like granite. Isolated granitic plutons like Stone Mountain in GA and Pilot Mountain in NC rise above the piedmont landscape. Occasional granitic flatrocks are found in

¹ Maryland staff and programs cooperated but were not active participants in the effort due to the small amount of the Piedmont present in the state. They reviewed and commented on products as the process proceeded.

the central and southern piedmont. A noteworthy feature in the piedmont is the Carolina slate belt, which contains gold deposits. The discovery of a 18 pound gold nugget in Cabbarrus County, NC created the first Gold rush in the New World in the early 19th century (Map 1). The Brevard Fault zone runs SW to NE cuts across the piedmont as a major feature whose true nature remains enigmatic.



Map 1. The Carolina slate belt and major gold mines (modified from Hatcher and Butler, 1979) by USGS.

The piedmont is well known for its red color soils which consist of kaolinite and halloysite that receive their color from iron oxides. These soils result from intense weathering of feldspar rich igneous and metamorphic rocks.

CLIMATE

Annual average precipitation in the piedmont ranges from 44 inches per year in Virginia to 58 inches per year in Alabama. The precipitation is more evenly distributed in the northern part of the piedmont with average seasonal high precipitation of just over 5 inches in July, average annual lows of 2.8 inches in November. The average highest monthly precipitation (6.8 inches) in the southern piedmont is in March, while the lowest precipitation (2.8 inches) is in January and February based on data from the Southeast Regional Climate center.

MODIFICATIONS/HUMAN IMPACT

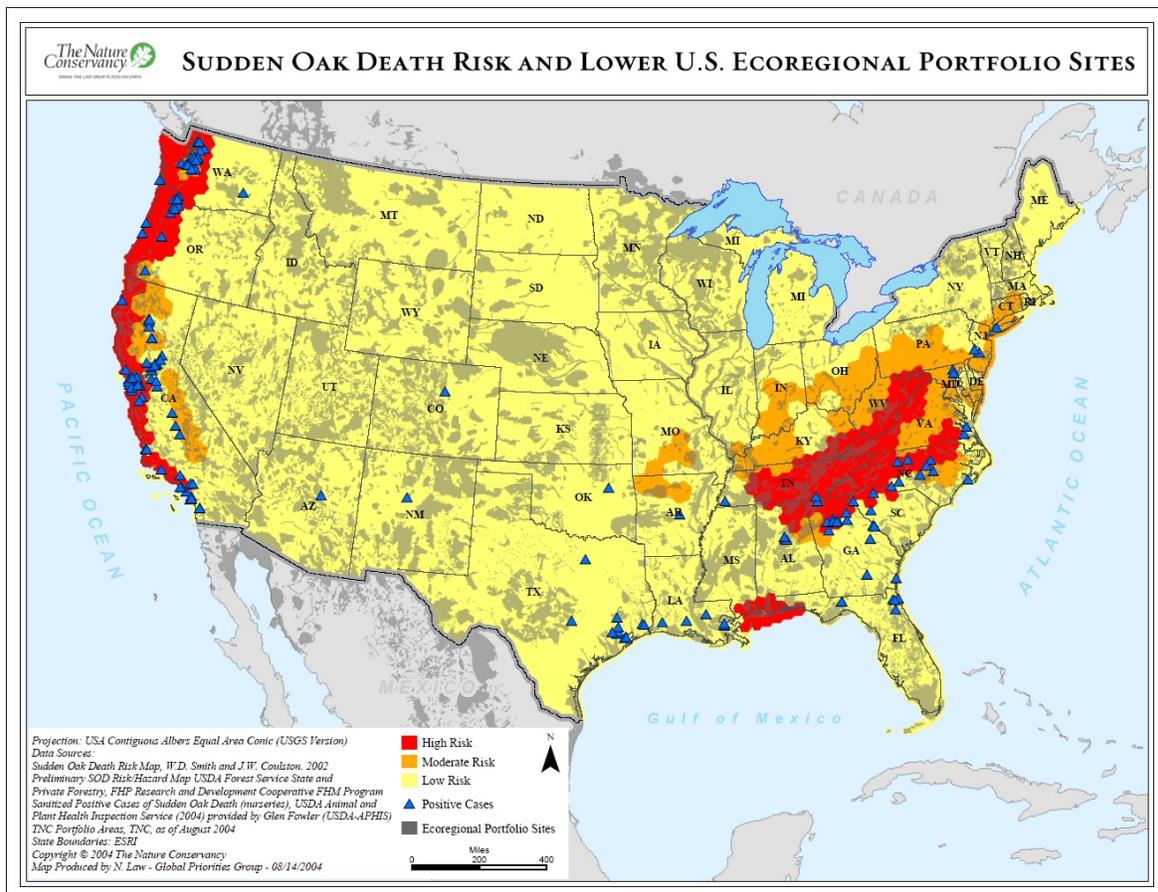
The Piedmont has undergone many human-induced changes over the past few centuries. Extensive, open Oak Hickory Pine forests with isolated prairies and grasslands are believed to have occupied the vast majority of the region; hence they are considered the ecological 'matrix' vegetation across the bulk of the ecoregion. Tornadoes, ice storms and hurricanes, droughts and floods, lightning and anthropogenic fires have shaped and disturbed these forests. These forests have been heavily worked prior to and since the arrival of European settlers. Native Americans cleared forests for agriculture and the Europeans continued to clear large tracts of forestland for agriculture, home sites, industry, and other uses.

Introductions of exotic species have also taken a heavy toll on Piedmont Natural Areas leading to a simplification of ecosystems. Widely spread invasive aquatic species include: Alligator Weed - *Alternanthera philoxeroides*, Giant Salvinia - *Salvinia molesta*, Asian Clam - *Corbicula fluminea*; Grass Carp - *Ctenopharyngodon idella*. Widely spread invasive terrestrial species include: Chinaberry - *Melia azedarach*, Chinese Privet - *Ligustrum sinense*, Common Reed - *Phragmites australis*, Japanese Honeysuckle - *Lonicera japonica*, Japanese Knotweed -

Polygonum cuspidatum, Japanese Stiltgrass - *Microstegium vimineum*, Fairy Grass - *Miscanthus sinensis*, Kudzu - *Pueraria montana var. lobata*, Oriental Bittersweet - *Celastrus orbiculatus*, Princess Tree - *Paulownia tomentosa*, Tree of Heaven - *Ailanthus altissima*, Wisteria - *Wisteria sinensis*, Multiflora Rose - *Rosa multiflora*, Fire Ant - *Solenopsis invicta* *burien*, Gypsy Moth - *Lymantria dispar*; Nutria - *Myocastor coypus*, Hemlock Woolly adelgid, and emerald Ashborer

More recently, outbreaks of new exotic pests have emerged such as: dogwood anthracnose, beech bark disease, gypsy moth, and hemlock woolly adelgid (Liebhold 1995; Grant 1999). As well, native pests such as the southern pine beetle have devastated both natural and planted stands of pine.

Exotic forest pests and pathogens that could threaten forests in the piedmont if they spread from sites in North America where they are already present: Sudden Oak Death Syndrome – *Phytophthora ramorum* (Map 2), Emerald Ash Borer – *Agilus planipennis*.



Map 2. Sudden Oak Death Risk

Current Status of the Piedmont

The Piedmont is heavily impacted by development, transportation corridors, urbanization, and urban sprawl. The U.S. Census identifies over 140 urban and urban clusters impacting the ecoregion. From the 2000 Census the total population of the Piedmont was 15,244,105 (density/square mile of 1,673). At that time the Census Bureau projected the 2004 population to

be 16,808,305 (density/square mile of 1,766) for the area. Urban areas accounted for over ten million of the Piedmont 2000 population.

The landscape as classified by the National Land Cover Dataset (USGS 1992) is largely composed of forest and agriculture (Table 1).

CLASS	PERCENT	CLASS	PERCENT
Open Water	2.1	Evergreen Forest	19.6
Low Intensity Residential	2.9	Mixed Forest	15.7
High Intensity Residential	0.5	Pasture/Hay	13.7
Commercial/Industrial/Transportation	1.3	Row Crops	6.4
Bare Rock/Sand/Clay	0.1	Urban/Recreational Grasses	0.4
Quarries/Strip Mines, Gravel Pits	0.1	Woody Wetlands	1.5
Transitional	1.8	Emergent Herbaceous Wetlands	0.1
Deciduous Forest	33.8		

Table 1. Piedmont landcover composition from the National Land Cover Dataset:

Though the Piedmont forest ecosystem is resilient, continued destruction and degradation of forest habitat is likely to have profound negative effects on biodiversity. Human activities such as: dam and road construction, mining, poor agricultural and forestry practices, urban and residential development, introduction of exotics, industrial pollution, and fire suppression have greatly diminished the health of species and ecological communities across the region.

Without sufficient conservation planning and appropriate action, many imperiled species will likely continue to decline. The draft Piedmont Ecoregional Assessment is intended as a conservation “blueprint” to help stop the trend toward widespread dissolution of species and their habitats.

Developing a Plan for Biodiversity Conservation

The Nature Conservancy (TNC) employs an integrated, four-part conservation approach to achieve its goals for biodiversity protection (Figure 1). The four parts of the conservation approach involve:

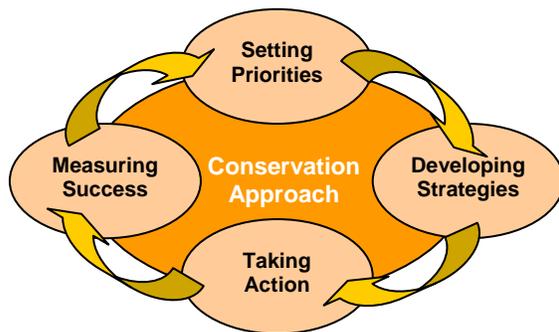
- Setting priorities through ecoregional assessments;
- Developing strategies to conserve both single and multiple conservation areas;
- Taking direct conservation action; and
- Measuring conservation success.

As the first step in the conservation approach, the Conservancy identifies suites of conservation areas within and across ecoregions (Box 1 and Map 3). These areas represent an inclusive array of sites for biodiversity conservation chosen by many different organizations, state and federal agencies, academic institutions, and other partners at scales from small, individual tracts to regional landscapes. TNC’s vision is to conserve entire suites of functional conservation areas within and across ecoregions in order to protect the full array of ecological systems and viable native species that are represented (The Nature Conservancy 2001).

Developing the list of conservation areas for an ecoregion is complex, iterative and involves five basic steps:

1. Identifying the species, ecological communities and natural systems that will be the targets for planning efforts within the ecoregion;
2. Setting specific goals for the number and distribution of each conservation target within the ecoregion;
3. Compiling tabular, spatial, and expert data on the location and viability of conservation targets;
4. Designing a network of conservation areas to best meet target goals; and
5. Developing a preliminary plan of implementation for the ecoregion that includes threats, priorities, strategies, and potential partners to conserve conservation areas.

Figure 1. The Nature Conservancy's Conservation Approach



Box 1. The Nature Conservancy's Ecoregions

- ❖ An ecoregion is a relatively large geographic unit of land and water defined by its climate, vegetation, geology, and other ecological and environmental patterns.
- ❖ TNC Ecoregions are modified from the work of Robert Bailey, U.S. Forest Service. Currently, there are 69 ecoregions in the contiguous 48 states, with 11 ecoregions in Alaska and 1 in Hawaii.



Map 3. TNC's United States Ecoregions (2000)

- | | | | |
|--|--|--|--|
| 1 Pacific Northwest Coast | 23 Sonora Desert | 45 North Central Tillplain | 65 Hawaiian High Islands |
| 2 Puget Trough-Willamette Valley-Georgia Basin | 24 Chihuahua Desert | 46 Prairie-Forest Border | 66 Aspen Parkland |
| 3 North Cascades | 25 Black Hills | 47 Superior Mixed Forest | 67 Fescue-Mixed Grass Pr. |
| 4 Modoc Plateau & East Cascades | 26 Northern Great Plains Steppe | 48 Great Lakes | 68 Okanagan |
| 5 Klamath Mountains | 27 Central Shortgrass Prairie | 49 Western Allegheny Plateau | 69 Alaska Coastal Forest and Mountains |
| 6 Columbia Plateau | 28 Southern Shortgrass Prairie | 50 Cumberlands and Southern Ridge & Valley | 70 Gulf of Alaska Mtns. and Fjordlands |
| 7 Canadian Rocky Mountains | 29 Edwards Plateau | 51 Southern Blue Ridge | 71 Cook Inlet Basin |
| 8 Middle Rockies-Blue Mountains | 30 Tamaulipan Thornscrub | 52 Piedmont | 72 Alaska Peninsula |
| 9 Utah-Wyoming Rocky Mtns. | 31 Gulf Coast Prairies and Marshes | 53 East Gulf Coastal Plain | 73 Bering Sea and Aleutian Islands |
| 10 Wyoming Basins | 32 Crosstimbers and Southern Tallgrass Prairie | 54 Tropical Florida | 74 Bristol Bay Basin |
| 11 Great Basin | 33 Central Mixed-Grass Prairie | 55 Florida Peninsula | 75 Beringian Tundra |
| 12 Sierra Nevada | 34 Dakota Mixed-Grass Prairie | 56 South Atlantic Coastal Plain | 76 Alaska Range |
| 13 Great Central Valley | 35 Northern Tallgrass Prairie | 57 Mid-Atlantic Coastal Plain | 77 Interior Alaska Taiga |
| 14 California North Coast | 36 Central Tallgrass Prairie | 58 Chesapeake Bay Lowlands | 78 Yukon Plateau and Flats |
| 15 California Central Coast | 37 Osage Plains/Flint Hills Prairie | 59 Central Appalachian Forest | 79 Brooks Range Tundra |
| 16 California South Coast | 38 Ozarks | 60 High Allegheny Plateau | 80 Northern Gulf of Mexico |
| 17 Mojave Desert | 39 Ouachita Mountains | 61 Lower New England/Northern Piedmont | 81 West Cascades |
| 18 Utah High Plateaus | 40 Upper West Gulf Coastal Plain | 62 North Atlantic Coast | |
| 19 Colorado Plateau | 41 West Gulf Coastal Plain | 63 Northern Appalachian-Boreal Forest | |
| 20 Southern Rocky Mountains | 42 Mississippi River Alluvial Plain | 64 St. Lawrence-Champlain Valley | |
| 21 Arizona-New Mexico Mtns. | 43 Upper East Gulf Coastal Plain | | |
| 22 Apache Highlands | 44 Interior Low Plateau | | |

Ecoregional plans not only identify priority areas for biodiversity conservation but also provide detailed information to help conservation practitioners develop the most effective, highest leverage approaches for conservation at both single and multiple sites. Essential components of ecoregion-based conservation are implementing strategies to reduce or eliminate threats to biodiversity and engaging the entire conservation community to work at these important places. To assist with the decision-making aspect of strategy implementation, conservation areas are evaluated for their relative complementarity, leverage, conservation value, threats, and feasibility of threat abatement.

Initiating conservation action involves a broad spectrum of strategies from acquisition of land and conservation easements to influencing public policy to environmental education and outreach. The conservation blueprint is larger than the work of any one organization or agency. Taking action may mean engaging multiple layers of partners from the local community to public agencies or even national politicians. Yet, community-based conservation is a core principal for enacting most strategies.

TNC defines conservation success as the long-term abatement of critical threats and the sustained maintenance or enhancement of biodiversity health of conservation targets. Therefore, it is essential to regularly measure both these elements for all conservation areas identified via ecoregional assessments.

To measure threat abatement, a list of stresses and sources of stresses to conservation targets at each conservation area is compiled and ranked every few years into categories of very high, high, medium or low. For biodiversity health, the size, condition and landscape context of focal targets at a site are evaluated as being very good, good, fair or poor. TNC has published specific guidelines for developing these rankings and other standards for determining progress for completion of an ecoregional assessment (The Nature Conservancy 2000).

Success measures are the final part of the conservation approach. In general, measuring success is important in order to hold the conservation community accountable for results, which come from both the direct contributions of the Conservancy and partners. These measures should be applied across the full set of conservation areas in each ecoregion. In many ways, these conservation areas represent the bare minimum needed to sustain biodiversity for the long-term. Many of these areas are disappearing at astounding rates. When properly applied, success measures become tools for gauging our collective achievements and the information feeds back into the iterative process of the Conservation Approach.

Organization of the Document

The rest of this document reflect different components of conservation planning and strategy development for the Piedmont Ecoregion. The following gives an overview of the chapters:

Chapter 1, "Identifying Conservation Priorities", discusses key ecological concepts applied in this plan, and outlines the major steps in the conservation planning process for assessing terrestrial and aquatic areas.

Chapter 2, "The Conservation Blueprint", describes the priority areas identified in the conservation plan, including number and distribution of areas across the ecoregion, completion of target goals, threats to conservation areas, and opportunities for taking conservation action. In addition to the chapters in the main text, the document also contains a glossary of terms, references, and several appendices with maps and tables. Also, a CD is included that contains

all the information from this document along with some relevant Geographic Information System (GIS) data.

Using This Document as a Conservation Resource

In conducting this assessment, the Conservancy hopes that a wide range of conservation groups and agencies will use the findings in this draft to further the protection of biodiversity in the ecoregion. Data available through this document can be used as a tool to aid conservation decision-making and priority setting. The suggested strategies in the text are only a short list of needed conservation actions. We anticipate that conservation practitioners will use the enclosed data to draw further conclusions about conservation needs in the ecoregion. The identified priority conservation areas reflect the best available knowledge as of 2000, but may be modified over time as more is learned about conservation targets, goals, and viability, and as conservation urgency changes.

The planning team made this document and accompanying data available in a digital format so that conservation practitioners could easily find, edit, and use all of the information for any non-commercial purpose.²

The basic organization of data on the enclosed CD is as follows:

- Read-me file and “frontpage” hypertext markup language file (HTML)
- Main document & Executive Summary
- Spatial data
- Tabular data
- Maps & Images

All files are provided in Microsoft Word (*.doc), Microsoft Excel (*.exl), Adobe Acrobat (*.pdf), and ESRI ShapeFiles (for GIS data). Maps from the document can be printed in B-sized from Adobe Acrobat. As these images are pre-formatted, they may be used, distributed, and/or published without modification. Reproductions of various maps, figures, and other images may be produced as illustrations for this plan or for any subsequent plan(s), as long as they are used only for non-commercial purposes. Please include the appropriate citation for these images. For maps or any other images where there is no stated source, please cite: The Nature Conservancy, 2006, Piedmont Ecoregion: A Plan for Biodiversity Conservation. The Nature Conservancy. Arlington, Virginia.

Practitioners and researchers may use and work from the existing plan or they may modify or subset the data to conduct further evaluations. If the tabular or spatial data are modified in any way, please credit The Nature Conservancy and NatureServe (the Natural Heritage Program network) for the raw data, and place the names of secondary authors on the conclusions and final products. Please include The Nature Conservancy and NatureServe logos (included on the CD) in any publication generated from these data, whether you credit the Conservancy and NatureServe with authorship or just with providing some or all of the data used in subsequent projects.

² *A commercial purpose would be any use of the plan or its data to generate a profit. That would include its use in a document sold for profit or included in a publication that is for sale. It also would include its use in any form of advertising of products or services for sale for profit. It would not include fund-raising for non-commercial and non-profit purposes.*

Chapter 1.

Identifying Conservation Priorities

The identification of conservation areas for an ecoregional plan is a dynamic process. The Nature Conservancy's method depends on a series of planning steps and assumptions that are revisited every few years, as more information becomes available. Priority conservation areas in this plan were established through the following steps:

- Selecting targets for species, natural plant communities, and ecological systems as the focus of planning efforts
- Gathering ecoregional, system, species and communities data from a range of sources
- Setting numeric goals for conservation of each species and community type
- Assessing the viability of individual species populations and community occurrences
- Evaluating the landscape context of the ecoregion
- Identifying conservation areas

The Conservancy has published specific guidelines for developing and taking action to conserve ecoregional portfolios (Groves et al. 2000). Although the ecoregional planning process has been refined over the past several years, the general principals have remained consistent (Figure 1.1).

Key Ecological Concepts

A basic understanding of key concepts used to develop the draft Piedmont Ecoregional Assessment is crucial to interpreting the conservation areas. This section is provided to get the general reader better versed on some basic concepts and assumptions used in the planning process. Additional important terms and concepts used in this document are defined in the glossary at the back of the text. Also, refer to the *Literature Cited* section for other reading materials.

Biological Diversity

Conserving all biological diversity is at the heart of the Conservancy's mission. Biological diversity, or biodiversity, may be defined as the array of living organisms at all levels of organization from genes and species to higher taxonomic orders. Biodiversity conservation depends also on protecting the range of communities, habitats, ecosystems, and natural processes occurring across freshwater, marine, terrestrial, and subterranean environments. The levels at which the Conservancy focuses conservation efforts are species, natural plant communities, and ecological systems.

Biological Scales and Patterns

Elements of biodiversity also occur at many different scales from square feet to millions of acres. The various levels of biological organization can be arranged by their spatial scale and pattern. There are four geographic scales at which species populations, natural plant communities, and ecological systems occur: regional, coarse, intermediate, and local. Each spatial scale has a corresponding characteristic range in area (e.g. acreage, stream order, or river miles) (Figure 1.2).

Terrestrial communities and systems (see glossary for definitions) also occur as different patterns across the landscape: matrix, large patch, and small patch. Matrix communities and systems, such as mixed hardwood forests, are dominant systems

Figure 1.1 The Nature Conservancy's Ecoregional Assessment Process

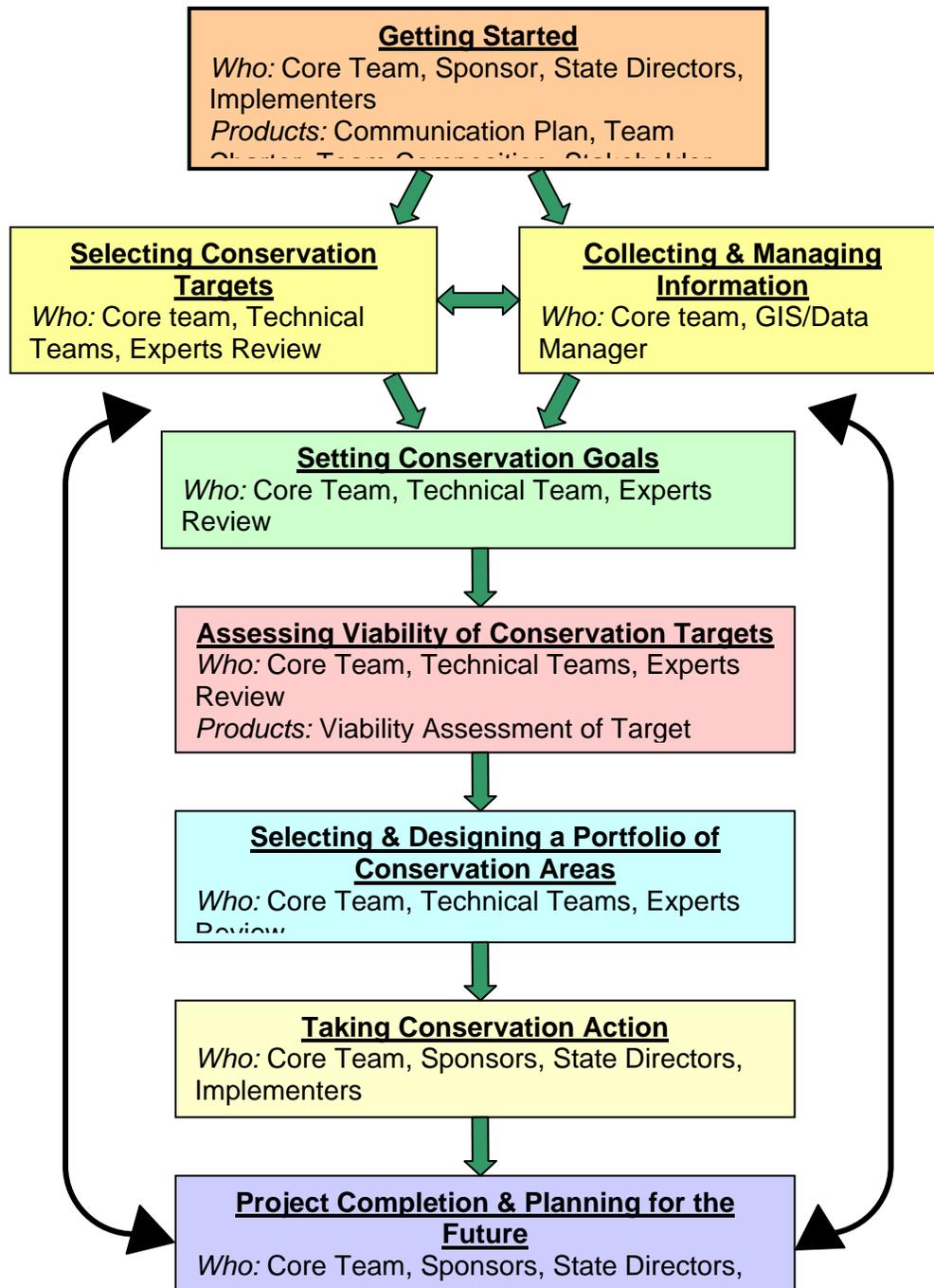
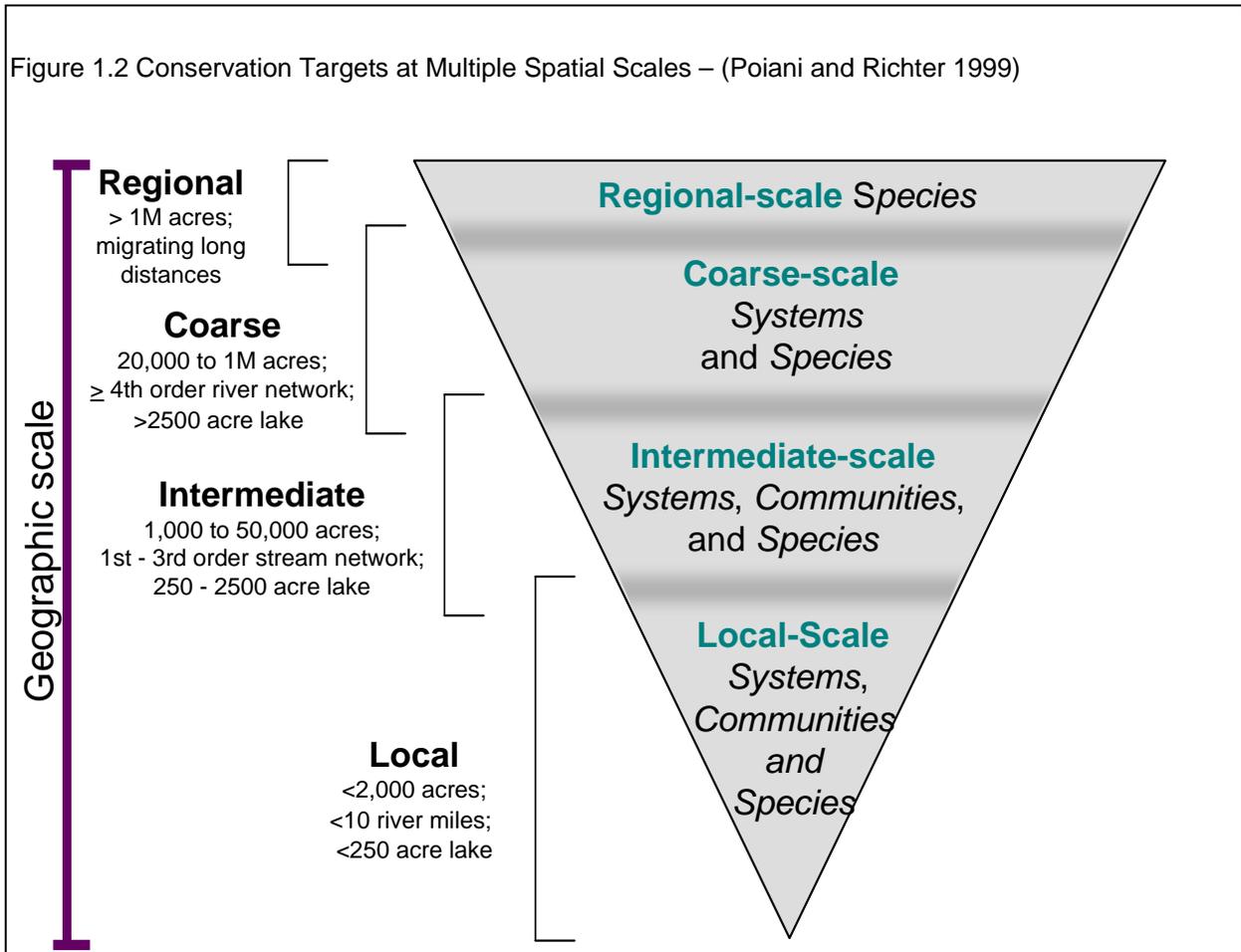


Figure 1.2 Conservation Targets at Multiple Spatial Scales – (Poiani and Richter 1999)



that extend across millions of acres. Large patch communities, such as Oak Hickory Forest, can be found at a scale from hundreds to thousands of acres. Small patch communities (e.g. *Piedmont Prairies*, *granitic outcrops*) occupy a much smaller area and often occur in a patchwork within larger patch communities or matrix systems.

Most landscapes are composed of a mosaic of communities and systems with multiple patterns and scales. Consideration of these elements is an important component of goal setting and analysis for the planning process. It is important to capture the variety of biological scales and patterns occurring in an ecoregion in addition to the diversity of species and community types.

Distribution

As well, the distribution of species and communities are important considerations in ecoregional planning. There were five distributional categories used in this plan: endemic, limited, disjunct, widespread, and peripheral. Endemic means that the species or community type occurs primarily within a single ecoregion. Limited distribution denotes that the range of occurrences is limited to only two or three ecoregions. Disjunct refers to a species or community whose main distribution is within an area unconnected to and far removed from the ecoregion of interest. Widespread means that the conservation target has a range of occurrence across multiple ecoregions, typically more than three. A peripheral distribution signifies that the species or community target is located within an adjoining ecoregion, and perhaps not even in the focal ecoregion.

Distribution is often used in conjunction with biological scales and patterns to set conservation goals – that is, the number of populations or occurrences needed to ensure the survival of the species, community, or system for at least 100 years.

Viability

Viability is the capacity of a species to persist over many generations or a natural community or ecosystem to continue over some time period. The viability of an individual species population, natural community, or ecosystem occurrence is often measured by size, condition, and the surrounding landscape context. Size may be interpreted as either the number of individuals or spatial extent of a population. The condition of a population or community occurrence may be assessed in several ways, such as age-class demographics, reproductive ability, or degree of habitat disturbance. Landscape context denotes whether a broader range of factors necessary for population or ecosystem health, such as ecological processes, natural disturbances, habitat connectivity, and species mobility are good or bad.

For this ecoregional plan, each population or occurrence of a target was evaluated for viability according to the best available scientific information. Viability is a key component of goal setting. While conservation goals are primarily set according to distribution, scale, and pattern, the actual number of known viable target occurrences can temper the final goal.

Ecological Processes

Ecological processes are the drivers that make natural ecosystems function. Large, unfragmented forest blocks are key areas where ecological processes are often still intact and target viability is high. Examples of important ecological processes in the Piedmont Ecoregion include fire, seasonal flooding, wind, ice, and insect cycles. Both natural and anthropogenic-caused fire has played a large role in shaping many forest communities in the Piedmont. As well, a number of aquatic and terrestrial species and community types are directly dependent on the scouring effects of seasonal flooding. Likewise, wind and ice have been instrumental in creating gaps in forest canopy that provide a necessary mix of old and successional habitat. Natural insect cycles, primarily from large episodic outbreaks of Southern Pine Beetle, have also played an important role in forests. Often the effects of various ecological processes may be interlinked (*e.g. connections between fire and pine beetle infestations*).

Developing the Conservation Areas

In order to develop the Piedmont ecoregional terrestrial conservation areas, teams of experts engaged in two parallel planning efforts, one for terrestrial species and natural plant communities, and another for freshwater species and aquatic systems. This dual planning approach was necessitated by differences in data availability and in required levels of expertise and support.

The analysis of terrestrial conservation areas was coordinated internally with the assistance of staff from TNC and State Natural Heritage Programs. For aquatic conservation areas, we collaborated with a freshwater conservation assessment that was developed concurrently for the southeastern U.S. by the Conservancy's Southeast Conservation Science Center and the Freshwater Initiative (Smith et al. 2002) funded by the Mott Foundation.³ At the end of the

³ For more information about TNC's Freshwater Initiative check the worldwide web at:

<http://nature.org/initiatives/freshwater/> or <http://www.freshwaters.org>

Also, TNC's report for the Southeast Freshwater Initiative project can be viewed or downloaded along with GIS and other data at: <http://gis.tnc.org/community/projects/fwi/southeastfront.html>

process the two components were united into a single conservation plan for the Piedmont.

Terrestrial Conservation Assessment

Selecting Targets

As the first step in the terrestrial conservation analysis, technical teams selected a set of animal and plant species and natural plant communities on which to focus planning efforts. While the goal of the ecoregional plan is to identify a suite of conservation areas that will protect all biodiversity in the ecoregion, it is not possible to design a plan around every element of biodiversity. As such, targets were selected from a list of the most critical, at-risk species and communities in the ecoregion.

A total of 177 terrestrial conservation targets were selected as the foci of planning efforts for the Piedmont (Appendix A). Again, these conservation targets occur across multiple levels of biological organization, from ecological systems to plant communities to individual species. This suite of conservation targets represents all terrestrial systems in the ecoregion as well as selected imperiled, declining, or endemic animal and plant species that may not be well represented by more coarse-level systems (Table 1.1). As well, these targets exemplify the full spectrum of spatial scales from local to regional ranges.

Table 1.1 Number of Terrestrial Targets by Major Group

Animals	Amphibian	4
	Bird	2
	Invertebrate	8
	Mammal	1
	Reptile	1
TOTAL		16
Natural Communities		88
TOTAL		88
Plants	Dicotyledon	54
	Gymnosperm	1
	Monocotyledon	13
	Non-vascular	2
	Pteridophyte	3
TOTAL		73

For natural plant communities, a total of 88 targets were chosen. In selecting these targets for the Piedmont, we followed a hierarchy outlined within the U.S. National Vegetation Classification developed by scientists at TNC and NatureServe (Grossman et al. 1998; Anderson et al. 1998). The USNVC represents the most comprehensive source of information for natural plant communities to date.

The communities target selection began with a search of the USNVC database for all plant community associations attributed to the ecoregion. Associations constitute the finest level of organization for plant communities, and may be described as assemblages of species that co-occur in specific areas at certain times and have the potential to interact with one another. The communities technical team reviewed the initial list and selected defined association types across all scales from matrix to large patch to small patch. Erroneous association types were

dropped from this initial list, and missing types were added. The most imperiled communities (i.e. with global ranks of G1 or G2) and high-quality occurrences of more common communities were selected as targets. Overall, 88 community associations met the criterion for selection as targets.

Remaining plant community associations with uncertain designation or status in the Piedmont ecoregion were assigned to their corresponding ecological group. The group level represents a coarser hierarchy for plant communities. Assignments made to the group level were done to ensure that all ecological systems were represented. The distinction between community groups and ecological systems is subtle. Both have been defined as dynamic assemblages of natural plant communities that occur together on the landscape or in the water and are tied together by similar ecological processes, underlying environmental features, or environmental gradients.

Animals and plants were selected as targets if they were not well represented at an appropriate scale by community or systems-level targets or if they were considered to be at-risk. At-risk species targets included animals and plants that are imperiled (Heritage Global Rank of G1 or G2), declining, widely separated from other portions of their ranges, or endemic to the ecoregion. In general, more common species (e.g. with global ranks of G4 or G5), species with little distributional information (e.g. insects), or species better conserved under coarser-level community targets or systems were not selected as targets.

In total, 16 animal species targets were chosen across organismal groups that included amphibians, birds, invertebrates, mammals, and reptiles. As well, 73 plant targets were selected. These included both vascular and non-vascular plants.

Gathering Data

Technical teams and Geographic Information Systems (GIS) experts used geospatial and tabular data, as well as expert opinion, to inform the portfolio assembly process. Types of data included:

- **Abiotic base data and models** – geology, elevation, and slope were used to create an Ecological Land Unit model of the Piedmont.
- **Base map data** – detailed roads, streams, population density, political boundaries, and land cover
- **Matrix blocks** – all blocks in the ecoregion bounded by major and secondary roads, rails, or powerlines coded by size with an emphasis on the largest, most intact blocks and less fragmented
- **Element Occurrence data** – Natural Heritage Program data on the location and viability of conservation target species and communities
- **Protected Area data** – spatial coverage of public lands and other conservation areas.

Data management is an integral part of the planning process. Conservancy GIS staff in the Southeast Conservation Science Center gathered, managed, and produced datasets to assist with development of this ecoregional assessment. Biological occurrence data was contributed by the Natural Heritage Programs in each state. Initial downloads of biological data were gathered in 1998 and again in 2000. Base maps were produced using the most current data layers available. Though detailed target occurrence information was used to develop this plan, that level of detail will not be shared as part of this product. This is in agreement with the Natural Heritage Programs in each state who maintain and update these data continuously. As

with all Element Occurrence data, the absence of information for a particular area does not necessarily mean important occurrences of elements of biodiversity are not present.

Setting Conservation Goals

Technical teams set numeric conservation goals for every selected target (Appendix A). Teams set goals estimating how many populations or occurrences of each target are necessary to sustain that species or community in the ecoregion at a viable level for at least a hundred years. Setting numeric goals, rather than just conserving all known viable populations, provides a quantitative benchmark against which to measure whether a sufficient number of populations are represented in the conservation areas. While goal setting does provide a benchmark, setting goals is an inexact exercise because conservation scientists often lack information on historic population sizes, distributions, and other pertinent information about long-term viability. Goals are meant to be re-evaluated periodically as scientists learn more about target viability needs.

Technical teams invoked the assistance of outside experts by sponsoring a series of workshops (Box 1.1). With the benefit of personal knowledge, teams established numeric goals for all targets based on their relative distribution in the ecoregion. These distributions were based upon whether the particular target was considered to be endemic to the ecoregion, limited to a couple of ecoregions, peripheral to the ecoregion but common in adjoining ecoregions, or widespread across several ecoregions (Table 1.2). Experts and team members assumed that targets with endemic or limited distribution would need more populations/occurrences protected in this ecoregion (thus a higher goal number because of a limited geographic area in which to protect the target). Conversely, targets with a broader distribution would depend proportionately less on occurrences located solely in the Piedmont for long-term survival (thus a lower goal number repeated across multiple ecoregions).

Table 1.2. Recommended conservation goals for plant community associations per ecoregion.

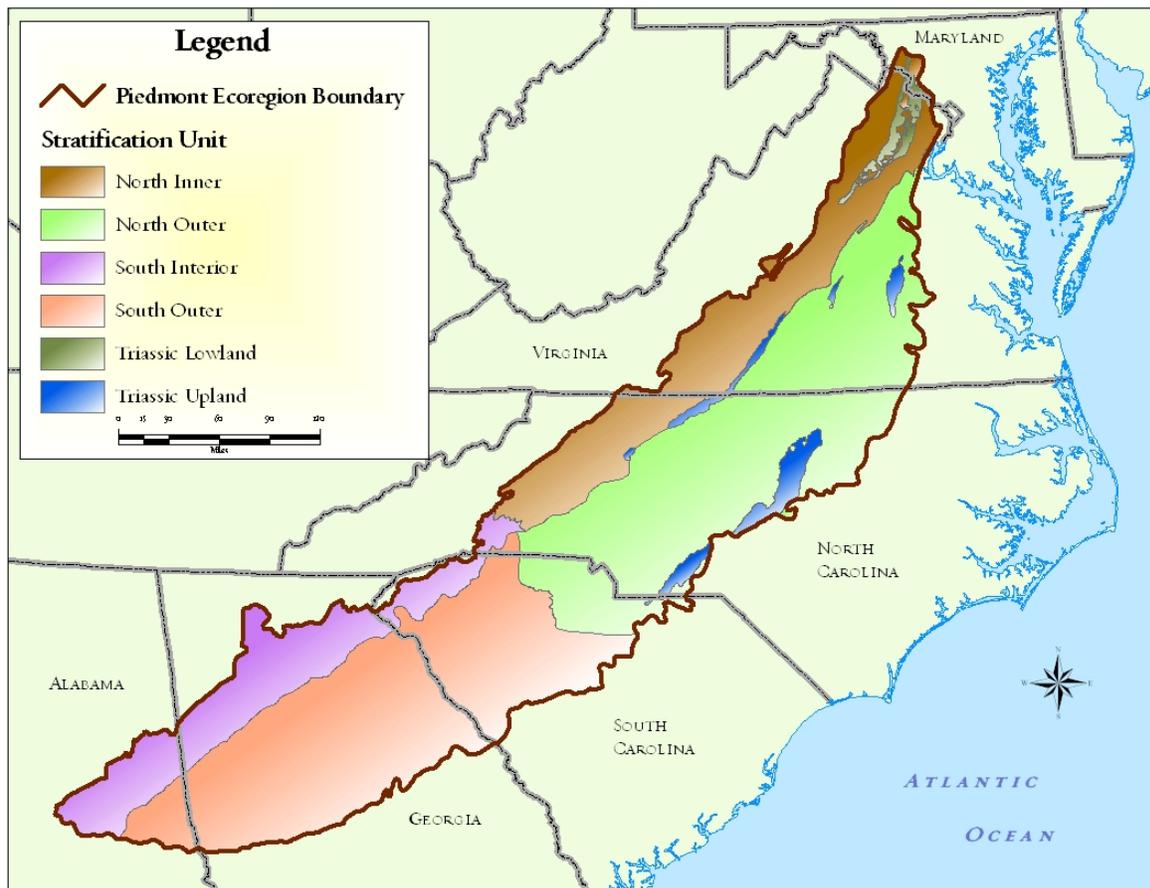
	Matrix	Large Patch	Small Patch
Restricted/ Endemic	10	18	25
Limited	5	9	13
Widespread	2/3	4/5	5/6
Disjunct	1*	2*	3*

Box 1.1. Expert Workshops

Expert workshops were critical to the development of the conservation plan. Experts participated in workshops for each taxonomic group and helped technical team members make decisions on target selection, goals, viability of populations/ occurrences, and identification of biodiversity “hotspots”. Experts added credibility to the planning process, especially for those targets with substantial data gaps. Much of the available information about some targets often comes directly from the personal knowledge of just a few experts. Experts contain valuable on-the-ground knowledge such as population viability, threats, landscape context, and site boundary design of conservation areas. Experts also become one of the key groups of collaborators for developing and implementing conservation protection strategies.

Natural plant communities also factored into the goal setting process in accordance to their current and historic size type/pattern (i.e. small patch, large patch, or matrix system). Given their size and fewer numbers of occurrences, matrix and large-patch communities generally received lower goals. Overall, default goals based on distribution and size factors were modified according to specific target needs.

In addition to setting goals for conservation targets across the ecoregion, teams also set target goals for every subregion or stratification unit of the Piedmont where the targets occur. The six subregions, which are ecologically distinct areas within the ecoregion, provide an additional measure of representation and ensure that populations and occurrences in the conservation plan reflect the distribution of targets across the ecoregion (Map 1.1)(Box 1.2). Conservation goals were weighted by the percent of total occurrences of a target present in each subregion. However, assignment of any particular goal was at the final discretion of the technical teams.



Map 1.1 Piedmont Stratification Units

Box 1.2 Stratification Units

TNC Ecoregions were derived from the hierarchical landscape classification prepared by Robert Bailey of the U.S. Forest Service. In order to ensure that the final portfolio represents the full range of biodiversity and target variability, it is necessary to stratify the larger planning unit into a set of smaller units, called subsections in the Bailey hierarchy. In TNC's adaptation of Bailey's ecoregions, the Piedmont is a long narrow strip without readily applicable subdivisions. To address this, the team compared the boundaries of this Ecoregional delineation to those defined by Omernik, and adopted an east-west division to define inner and outer sub-sections. The north-south divide was more problematic in that the region lacks an obvious natural latitudinal break, despite the fact that the far ends (in MD and AL) are clearly different. The Ecologists on the team adopted a north-south division Omernik used in the inner (western) portion of the region that follows the edge of the South Mountains, a large foothill range, and then used their best professional judgment to continue this break east across the outer Piedmont. This break had the effect of skirting the Kings Mountain geological province to retain continuity of this area, and observing a discontinuity in the Carolina Slate belt, which is reflected on the Omernik ecoregional map. Finally, the team grouped a discontinuous set of Triassic formations into two sub-sections of Triassic uplands and Triassic lowlands, resulting in a total of six subsections. Additionally, the team recommended a small shift in the boundary between the Piedmont and the Cumberlands and Southern Ridge and Valley Ecoregion to follow a major division between calcareous and acidic rock types.

Viability Assessment

Using Natural Heritage Program data supplemented with expert knowledge, teams painstakingly evaluated the viability of all known target species and community occurrences. Criteria used to measure long-term viability (i.e. at least 100 years) included the size, condition, and landscape context of each occurrence.

Where possible, teams used existing Heritage Element Occurrence Ranks to determine viability for species and community targets. When viability ranks were not available, team members and other experts ranked occurrences based on personal knowledge or other inference. Only populations with predicted viability of excellent to fair were considered for the ecoregional plan. Target occurrences not seen since 1980, occurrences of unknown viability, or non-viable occurrences were not considered in the plan and were not counted toward conservation goals for targets, unless a team member provided a sufficient reason for inclusion. Viability of plant communities was assessed based primarily upon expert knowledge. Overall, approximately 3,655 occurrences of target species and communities were evaluated with some 1,800 occurrences being deemed as viable, 1,138 of these were captured in Conservation Areas of the portfolio.

Data Gaps

Determining conservation targets, setting goals, and assessing viability are collectively the most difficult components of ecoregional assessments. Matching database information for target occurrences with current on-the-ground conditions is often an inexact science. Conservation planners and scientists make every attempt to use the best available information in the development of an ecoregional plan. However, users of these plans must be aware that a certain margin of error exists. As well, the fluid nature of target data must always be considered before conservation measures are implemented at the site level.

During development of this plan, technical teams attempted to assess major data gaps for each conservation target group. Data gaps were identified for: species/community occurrences, geographic distribution, and taxonomic identity. In a few cases, recommendations for changes to the global rank of a particular species/community association were made by the technical team and adjusted during goal setting.

Landscape Analysis

In addition to the taxonomically specific work of selecting targets, setting goals, and assessing viability, a team of TNC, NatureServe, and State Natural Heritage Program ecologists worked with GIS staff to evaluate the overall landscape context of the ecoregion. Two primary landscape analyses were conducted for the Piedmont, Matrix blocks and Ecological Land Units, which assessed fragmentation and abiotic diversity respectively. The results of these analyses became the building blocks for terrestrial conservation areas.

Matrix Blocks

As part of the landscape analysis, large, relatively unfragmented units of land called “Matrix blocks” were derived. Matrix blocks are bounded by roads (i.e. major highways to secondary roads), railways, utility lines, and major water bodies. Such blocks of natural habitat, when combined with traditional species and community targets, add conservation value to the portfolio.

The underlying assumption of Matrix blocks is that bigger, more intact and less fragmented areas are better for conservation than smaller areas with less natural landscape cover. Scientists have long known that broad-scale natural disturbances have created shifting mosaics of successional stages across physical settings in many regions. Likewise, the persistence of some conservation targets over time often requires large areas to sustain, buffer, and absorb these disturbances while providing opportunities for species survival and/or re-colonization. Large, unfragmented areas are also important for wide-ranging/area-sensitive species (e.g. forest interior birds) and some ecological processes such as fire. The term “minimum dynamic area” has been coined to capture these ideas (Anderson et al. 1999).

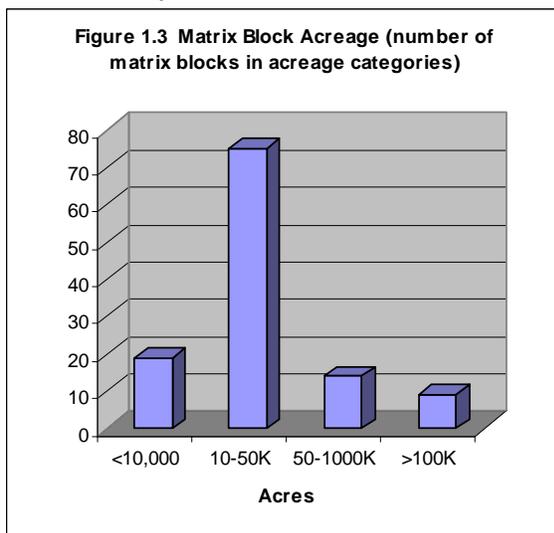
To set a minimum dynamic area threshold for Matrix blocks in the Piedmont, the availability and distribution of large forest blocks across the ecoregion were examined. An initial map of roadless forest areas was created based on a U.S. Census Bureau Tiger Files. These areas were initially screened in meetings held in Georgia (to cover GA & AL), South Carolina, North Carolina and Virginia (to cover VA & MD). Matrix blocks were defined as being at least 10,000 acres though several of these areas were then carved into smaller blocks by imposing a rule that Class 1 and Class 2 roads (major roads) would divide blocks. Experts from each state evaluated a first draft of these candidate blocks and prioritized those areas that had high percentages of “good” land cover (using the National Land Cover Dataset and other available imagery). Blocks that had high proportions of pine plantations, fields, and/or other non-natural land-cover were excluded from further review. A total of 117 blocks were considered to have sufficient quality to be further included as conservation areas (Figure 1.3). These include 19 areas (coded in the data as Min_Tier_R=99) that are of a lower level of priority based on factors such as abiotic similarity to other matrix blocks. They are included in this draft until the decision is made on if and how these areas should be included in the conservation area set.

TNC staff at the Southeast Conservation Science Center conducted further refinement of the initial Matrix block map. A new map was generated for only those roadless forest blocks that

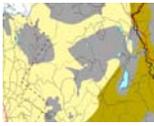
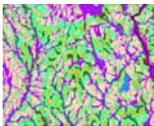
met the minimum dynamic area. Technical teams then evaluated the environmental condition of these blocks. Some blocks were lumped and others split according to the believed effects of specific roads, utility lines, railways, etc. to the functioning of ecological systems and target elements. Newly refined Matrix blocks were then stratified according to various size classes within each subregion, and further analyzed to select the highest quality areas. Evaluation criteria for the Matrix blocks included:

- degree of habitat fragmentation present
- extent of conversion of natural habitats
- proximity to known sites of conservation value
- configuration of the Matrix block (i.e. proportion of core area to edge)
- inclusion of known viable occurrences of conservation targets
- landscape connections to other natural areas

These freshly evaluated Matrix blocks formed the starting point of the conservation portfolio.



Box 1.3 Ecological Land Unit Data Layers

	4 Elevation Classes
	x
	9 Bedrock Geology Classes
	x
	5 Slope Classes
	= 180 potential ELU classes

Ecological Land Units

Ecological Land Units (ELUs) provide a model of the abiotic diversity of the ecoregion based on: geology, elevation, and slope. ELUs characterize the physical environment of the ecoregion, identify areas of highest variation that may represent biodiversity “hotspots”, and allow for predictive modeling of vegetative communities.

Ecologists and GIS experts classified a Digital Elevation Model (DEM) into a set of five slope and four elevation zones that are ecologically relevant to the distribution of plant communities in the ecoregion. As well, bedrock geology classes were grouped by the ecologists into nine classes thought to be most influential in determining plant communities. By combining the data layers, there was the potential for 180 unique ELUs (Box 1.3) (Tables 1.3, 1.4, & 1.5).

To provide a comparison of these 117 blocks we developed a physical (abiotic) classification of the region using geology, elevation, and slope. Each of these parameters was mapped across the region and classified into categories believed to be meaningful in terms of representing

some of the variation present in the region's vegetation. Taken together these parameters are called an Ecological Land Unit (ELU) model.

Table 1.3 Slope Classes used in the ELU model

% SLOPE CLASSES	
0	10
1-2	20
3-5	30
6-20	40
20+ (130 highest?)	50

Table 1.4 Elevation Classes used in the ELU model

ELEVATION CLASSES	
0-300 Meters	1000
301-400 Meters	2000
401-600 Meters	3000
601+ (973) Meters	4000

Table 1.5 Geology Classes used in the ELU model

GEOLOGY CLASSES	
Unconsolidated sands & clays	100
Limestone, dolomite, & marble	200
Acid sedimentary - siltstone, mu	300
Acid metamorphic - igneous rock	400
Mafic - (amphibolite, greenstone	500
Ultramafic - (such as peridotite)	600
Quartzite	700
Mixed - (in Virginia only)	800
Unknown	0

Statistical Analyses:

The polygon boundaries of each matrix block were treated as individual sample units. The ELU composition served as attributes of each sample unit. The actual composition of each block in terms of ELU parameters was determined using the "tabulate area" command in GIS. When the area of each attribute was tabulated for all blocks, a multi-variate analysis was conducted to elucidate relationships among candidate matrix blocks. A table was constructed in which rows represented individual blocks and columns represented each of the 180 ELU attributes. Many of the ELU attributes were not present in individual blocks and thus many columns were zero. The combined tabulated areas for each set of parameters (elevation, slope, geology) equaled 100% of the total block area

An initial analysis (using Sorenson Distance Measure) was performed on the blocks to identify any statistical outliers in the data. Upon removing these outliers from the data set, remaining blocks were evaluated using Detrended Correspondence Analysis (DCA).

MATRIX BLOCK RESULTS

A total of 317,564 blocks were delineated across the region. The vast majority were less than 750 acres in size. ELUs for 117 blocks were analyzed.

Outlier Analyses:

Outlier analysis was performed and 8 blocks were identified as such. The general reason for these blocks being identified as outliers is that their relationship to the other samples is poorly defined by the data. These unique examples of ordinated Matrix blocks within each subregion were targeted for inclusion in the final portfolio of conservation areas.

Ordination Analyses:

Ordination results were expressed, in part, as a scatter diagram that portrays each block in three-dimensional space. The relative location of blocks on the scatter diagram indicates the degree of similarity in terms of ELU composition; nearby blocks were closer in composition than blocks far apart.

The primary gradient expressed in the data seemed to be one of elevation. The other axis appears to represent a geological gradient largely separating quartzite-dominated blocks (concentrated near the bottom of the graph) from block of other geologic types

The results of this process yielded 14 classes (plus one outlier class) (Table 1.6).

Table 1.6 ELU/Matrix Block Ordination Classes

1) High elevation acid metamorphic	n=8
2) Quartzite dominated	n=2
3) Low elevation acid sedimentary flats	n=8
4) Mixed mafic geology (present in VA only)	n=4
5) Mafic (steep sloping)	n=1
6) Recent Alluvium (low elevation flats)	n=2
7) Low elevation acid metamorphic (intermed sloping)	n=29
8) Low elevation mafic/acid metamorphic	n=2
9) acid meta/mafic (predominately low elevation)	
10) acid meta/mafic/quartzite	n=1
11) acid sed/mafic/quartzite	n=4
12) steep sloping acid metamorp, high steep w/mafic	13)
14) high /quartzite/mafic	n=2
14) outlier	n=8
15) high elevation mafic – ultramafic	

A future step with ELUs is to assess how completely conservation areas in the blueprint represent the major ELU classes across the ecoregion. However, time constraints did not permit this analysis to be conducted. Delineation of ELUs is a difficult process that depends on a complex array of theoretical assumptions. Later iterations of the Piedmont Ecoregional Assessment will hopefully delve further into such landscape modeling.

Assembly of Draft Conservation Areas

Establishment of the set of Matrix blocks to be included as Terrestrial Conservation Areas of the Piedmont is an important step but there are many viable occurrences of targets that do not fall in Matrix Blocks (Box 1.4). For these we added finer scale sites to the set of Conservation Areas. These finer scale sites are coded as “target driven sites” in the Terrestrial Conservation Area attribute file. The origin of these ranged from the buffer of a point location to fairly detailed digitized site boundaries acquired from Natural Heritage Programs or with expert driven digitization.

Box 1.4 Portfolio Assembly Steps

Coarse-scale Focus: First represent all coarse-scale targets (systems, matrix communities/groups) followed by targets at finer spatial scales (large and small patch communities/groups, animals, and plants).

Representation: Capture multiple examples of all conservation targets across the range of environmental gradients (ecoregion subregions, Ecological Land Units, Ecological Drainage Units).

Efficiency: Give Priority in the selection process to occurrences of coarse-scale systems that contain multiple targets at other scales. Look for overlapping target occurrences. Establish selected Matrix blocks as “anchors”. Give priority to areas within or adjacent to high quality managed areas.

Integration: Give priority to areas that contain high-quality occurrences of both aquatic and terrestrial targets.

Functionality: Ensure all conservation areas are functional or feasibly restorable to a functional condition. Functional sites maintain the size, condition, and landscape context of the respective conservation targets.

Completeness: Capture all targets within functional areas toward conservation goals.

As with all of the Conservation Areas, more detailed planning and mapping is needed to effectively implement conservation.

Draft Terrestrial Conservation Areas

The current version of the Piedmont terrestrial Conservation Areas includes 446 matrix and target driven sites (Appendix B). A listing of viable terrestrial target occurrences by site is available in the appendices (Appendix C). These areas satisfy just under 12% of the target goals (13.6% natural communities and 10.1% for terrestrial species targets) (Appendix D).

Aquatic Conservation Assessment

A concurrent project with the Terrestrial Piedmont Ecoregional planning effort was a Freshwater or Aquatic planning project for much of the southeastern U.S. The Charles Stewart Mott Foundation sponsored this study on four major hydrologic basins in the southeast. Entitled; “Priority Areas for Freshwater Conservation Action: A Biodiversity Assessment of the

Southeastern United States” (Smith et al. 2002) the study used many experts and quality data to assess the aquatic biodiversity in each basin (Figure 1.4). A set of Aquatic Conservation Areas for each of the basins was one of the products of the study.

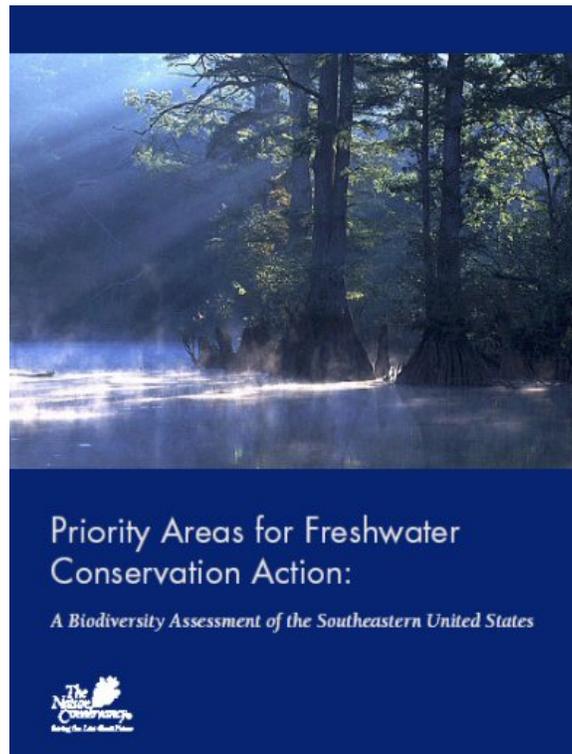


Figure 1.4 Cover of the freshwater study

The 98 freshwater conservation areas identified in this study (Appendix E) are adopted as the aquatic/freshwater conservation areas for the Piedmont Ecoregion. Documentation of the methods used in this study as well as the pertinent GIS data are included (on the CD) as part of this product.

Chapter 2.

The Conservation Blueprint

The purpose of an ecoregional assessment is to produce a complete set of priority conservation areas and accompanying strategies that together form a blueprint for protection of the most important biodiversity elements of the ecoregion. With proper assessment of threats and thoughtful implementation of conservation strategies, this plan will hopefully ensure the long-term survival of all representative species, natural plant communities, and ecological systems within the Piedmont Ecoregion.

Summary of Conservation Areas

As a result of this planning effort, a total of 544 terrestrial, aquatic, and matrix conservation areas were identified across the 6 states of the Piedmont Ecoregion (Table 2.1). Overall, 446 of these areas were identified for protection of terrestrial conservation targets (and matrix areas), 96 for aquatic targets.

The total acreage of terrestrial conservation areas is 4,398,983 acres or approximately 10.4% of the total area of the ecoregion. Almost 86% of this acreage lies within the ecoregion. Several sites originating in the Piedmont continue outside the ecoregion into adjoining ecoregions.

As well, aquatic conservation areas encompass 16,440,922 acres of critical watersheds both within and outside the borders of the Piedmont. Due to the identification and delineation of aquatic areas by major watersheds, a large portion of the aquatic portfolio (over 4 million acres) extends outside the terrestrial borders of the Piedmont. Aquatic areas strictly within the ecoregion make up approximately 28.7% of the ecoregion.

Combined, the terrestrial, aquatic, and matrix conservation areas comprise almost 19 million acres of lands and waters both inside and outside the Piedmont. This figure counts acres once where aquatic and terrestrial sites overlap. Conservation areas delineated outside the ecoregion were done so with the intent of not disrupting scientifically derived conservation boundaries.

Table 2.1 Terrestrial & Freshwater Conservation Area Acreage Summary

TERRESTRIAL CONSERVATION AREAS	NUMBER OF AREAS	ACREAGE	
Matrix/Landscape Areas	117	4,247,450	
Target Driven Sites	329	151,533	
TOTAL TERRESTRIAL	446	4,398,983	
FRESHWATER CONSERVATION AREAS	98	16,440,922	
TOTAL TERRESTRIAL & FRESHWATER	544	20,839,905	<i>coincident areas double counted</i>
TOTAL ACREAGE not double counting overlap		18,841,589	<i>coincident areas counted once (overlap=1,998,316 acres)</i>

The inclusion of such a large portion of the ecoregion within the conservation portfolio does not imply that millions of acres of land must be set aside exclusively as habitat. Rather, these areas represent priority sites for enacting a wide-range of conservation measures which may be tailored to specific targets at a variety of scales. These areas also reflect the coarseness of the planning scale. Boundary refinement and more detailed conservation planning are necessary for most of the conservation areas. Further details and statistics for each conservation area type are provided in the following sections.

Terrestrial Conservation Areas

As described in Chapter 1, terrestrial conservation areas were added to the portfolio based on their functionality as large ecological systems containing matrix and large-patch community types or as important fine-scale habitats for viable target species and small-patch communities. Given such, terrestrial conservation areas were classified into two types: functional matrix sites or functional sites.

Functional matrix sites constitute areas that meet the 5,000 acre minimum dynamic area for matrix-forming forest communities. These areas were mapped by the perimeters of large areas bounded by roads but not bisected by large roads (class I and II roads).

Functional sites are smaller conservation areas selected to protect isolated occurrences of target species and small-patch communities. The boundaries for these functional sites were drawn at a fairly coarse scale and digitized or taken from data received from the individual state Natural Heritage Program or Chapter Office. Where boundaries were not available, these sites were mapped in a uniform manner as buffered points of 250 meters in diameter. Much more detailed scientific work is needed to determine specific individual habitat sizes.

For the Piedmont, 117 functional matrix landscapes were identified, representing 4,247,450 acres or 96.5% of the total area of the terrestrial portfolio. Average size for all functional matrix landscapes is almost 36,303 acres. As well, 329 functional sites were identified for a total acreage of 151,533 acres (Map 2.1). As a percentage of the area of each stratification unit the Northern Inner unit had the most area in terrestrial conservation areas (16.3%) (Figure 2.1)

Figure 2.1

TERRESTRIAL CONSERVATION AREA ACREAGE BY STRATIFICATION UNIT

<u>STRATIFICATION UNIT</u>	<u>ACRES</u>	
North Inner Target Site Acres	11,611	
North Inner Matrix Site Acres	1,123,552	
Total Terrestrial Conservation Area Acres in the Strat. Unit		1,135,163
16.3% of N. Inner		
North Outer Target Site Acres	49,733	
North Outer Matrix Site Acres	1,347,894	
Total Terrestrial Conservation Areas Acres in the Strat. Unit		1,397,627
9.6% of N. Outer		
South Interior Target Site Acres	22,518	
South Interior Matrix Site Acres	534,347	
Total Terrestrial Conservation Areas Acres in the Strat. Unit		556,865
10.4% of S. Interior		
South Outer Target Site Acres	53,222	
South Outer Matrix Site Acres	460,492	
Total Terrestrial Conservation Areas Acres in the Strat. Unit		513,714
3.7% of S. Outer		
Triassic Lowland Target Site Acres	5,605	
Triassic Lowland Matrix Site Acres	18,718	
Total Terrestrial Conservation Areas Acres in the Strat. Unit		24,323
4.1% of Triassic Lowland		
Triassic Upland Target Site Acres	6,572	
Triassic Upland Matrix Site Acres	146,173	
Total Terrestrial Conservation Areas Acres in the Strat. Unit		152,745
13.5% of Triassic Upland		
Outside the Piedmont Target Site Acres	2,272	
Outside the Piedmont Matrix Site Acres	616,274	
Total Terrestrial Conservation Areas Acres Outside the Ecoregion		618,546

Aquatic Conservation Areas

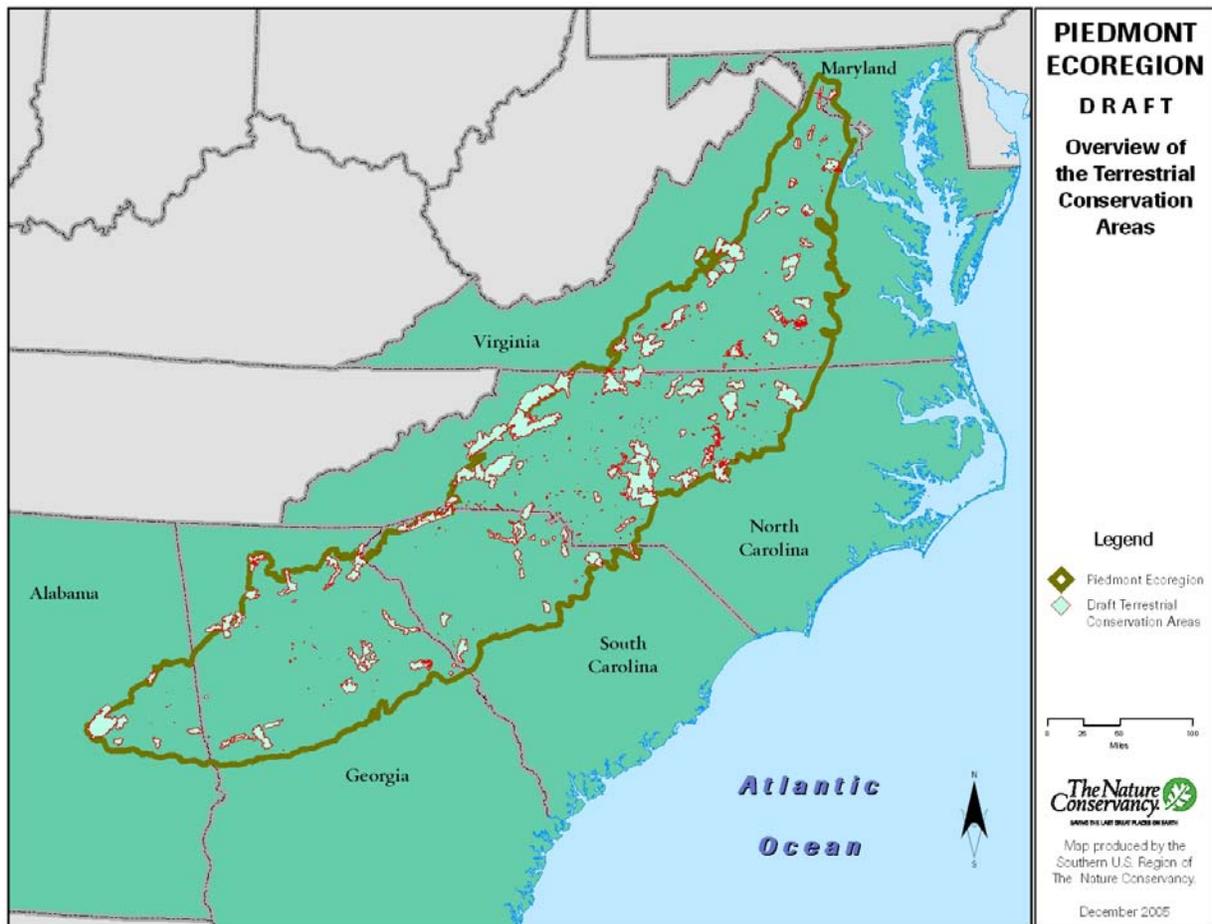
Aquatic conservation areas are identified by priority stream reaches within individual ecological drainage units (EDUs). In some instances, aquatic areas may constitute major segments of the EDU. While streams or other water bodies comprise the core of aquatic conservation areas, terrestrial portions of the watershed that influence hydrology are an equally important component and are included in most of the freshwater conservation areas (Map 2.2).

The average size for all aquatic areas in the Piedmont is approximately 167,764 acres. The most Freshwater conservation area acreage falls in the North Outer Stratification Unit. The South Interior has the largest percentage of Freshwater conservation area acreage among the stratification units (Table 2.2).

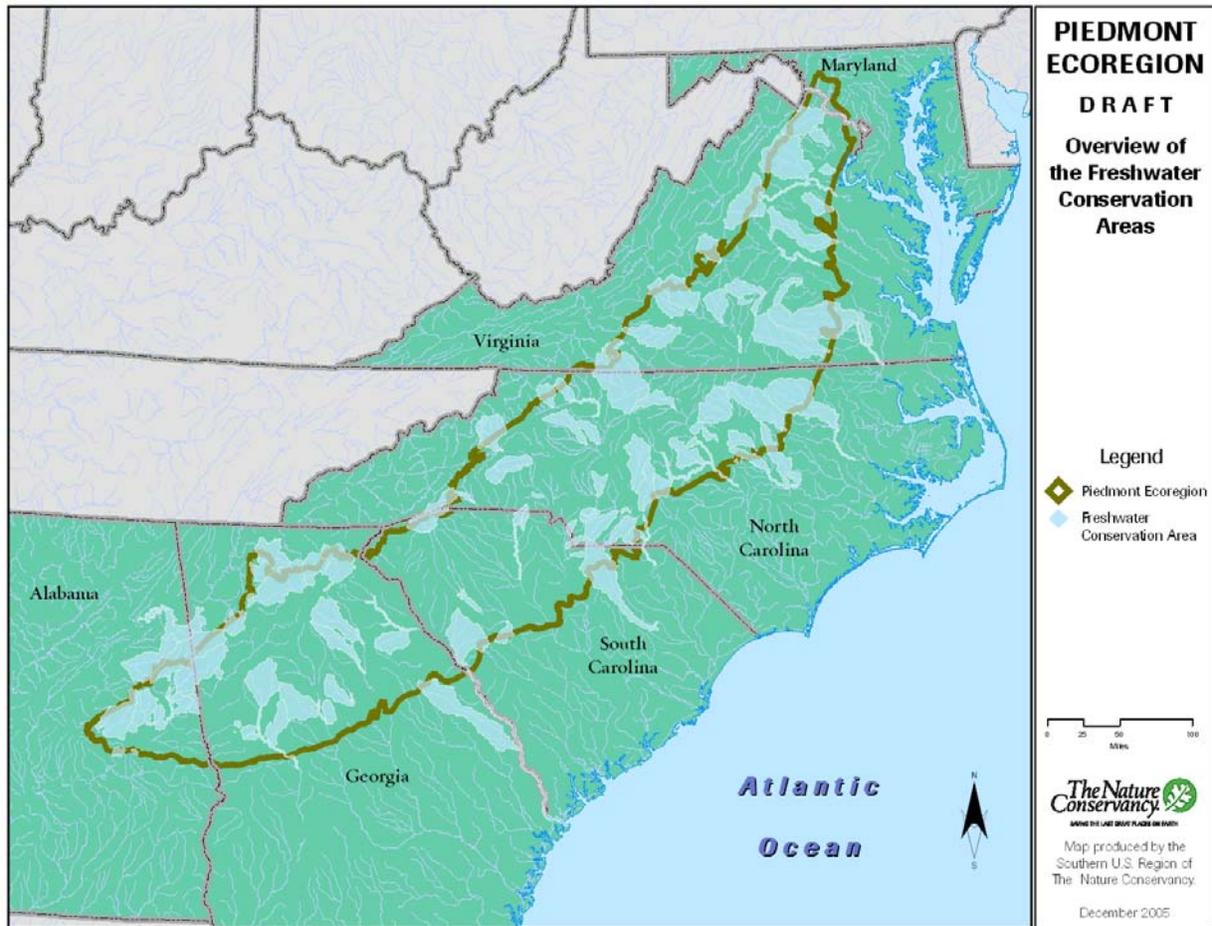
Table 2.2 Freshwater Conservation Area Acreage By Stratification Unit Summary

Stratification Unit	Freshwater Conservation Area Acreage	% of Stratification Unit
North Inner	2,426,314	35%
North Outer	4,611,426	32%
South Interior	2,384,486	44%
South Outer	2,215,038	16%
Triassic Lowland	206,301	35%
Triassic Upland	308,795	27%
outside52	4,288,562	

Map 2.1 Draft Terrestrial Conservation Areas of the Piedmont Ecoregion



Map 2.2 Freshwater Conservation Areas of the Piedmont Ecoregion



Meeting Conservation Target Goals

In order to gauge the initial success of an ecoregional plan, a “scorecard” is produced to track the number of viable target occurrences captured within the portfolio of conservation areas (Appendix C). Captured occurrences are then compared to overall goals for inclusion within the conservation areas by stratification unit and overall for the ecoregion. The term “capture” is used only to imply that a target occurrence lies spatially within a conservation area boundary. There is no inference that a target is protected merely because it is captured. Furthermore, to score an individual viable target occurrence toward fulfilling a goal, it must be located within an appropriate type of conservation area (i.e. a terrestrial target must be within a terrestrial conservation area and so forth). A goal is completely met for a target when a sufficient number of occurrences are captured to satisfy the goal.

The terrestrial conservation areas delineated by this draft of the Piedmont Ecoregional Assessment capture 63.2% of all known viable target species and community occurrences in the Piedmont. Summary statistics on goals met via capture of various target groups within conservation areas are given in Table 2.3. As well, more complete statistics for overall goals, subregion goals, and the number of captured occurrences for each target are provided in Appendix A.

Table 2.3 Overview of Piedmont Terrestrial Target Goal Status
OVERALL GOALS

	Met or Exceeded	Fell Short	No Goal Expressed
Natural Communities	12 (13.6%)	76 (86.4%)	0
Species	9 (10.1%)	74 (83.1%)	6 (6.7%)
Total	21 (11.9%)	150 (84.7%)	6 (3.4%)

STRATIFICATION GOALS

	Met or Exceeded	Fell Short	No Goal Expressed
Natural Communities	46 (8.7%)	179 (33.9%)	303 (57.4%)
Species	18 (3.4%)	139 (26.0%)	377 (70.6%)

An ecoregional portfolio rarely captures enough viable targets to fulfill all goals. The process of delineating conservation area boundaries is more complex than just ensuring capture of every determined viable target occurrence. Often, viable occurrences are intentionally excluded from inclusion in the conservation areas with further analysis. Viable target occurrences outside the boundaries of portfolio areas should not be viewed as insignificant to future conservation efforts, but should be considered as lesser priorities in the larger conservation context. Also, non-viable target occurrences and occurrences of unselected target elements should be correspondingly lower in priority. Information for non-viable target species and community occurrences and other potential target elements were documented for consideration in future iterations of the ecoregional plan.

Similarly, zones of land and water not included within the boundaries of conservation areas should not be construed as unimportant to conservation work. While such areas are not high priorities for conservation, they do provide value as buffers to more important areas and as connecting corridors between portfolio sites. Again, ecoregional plans are meant to be iterative. As such, any designated conservation area is subject to inclusion or exclusion in future updates of a plan given new scientific evidence.

While this ecoregional plan captures a high percentage of the total number of viable target occurrences, the percent of total goals met for each target group is much lower. Combined, less than 12% of all conservation goals are met via the current total number of captured targets. Stratification Unit goals are established to ensure proper spatial stratification or distribution of targets across the ecoregion.

Reasons for the low overall percentage of conservation goals being met vary, but the primary explanation is that goals for all targets have been set two or three times higher than the number of known viable occurrences. Technical teams for the Piedmont often established goals with the understanding that relatively little survey work had been completed for much of the ecoregion. As such, the intent was that conservation goals could be met as new target populations were discovered and as current marginal and non-viable target occurrences were restored to viable status.

It is important to understand that goal setting occurs irrespective of the number of current target occurrences. Goals are meant to reflect the long-term survival needs of the target. Overall, conservation goals were not set beyond a realistic range of the current number of total target occurrences.

Threats to the Ecoregion

As part of the final analysis for this plan, the core planning team along with select technical team members and other experts assessed ecoregion-wide threats for the Piedmont. Under TNC planning methodology, threat analysis involves discerning both the ‘stresses’ and ‘sources’ of stress that affect specific targets in a given area. The connections between stresses and sources are often very complex. A target within a particular conservation area may be affected by a stress with multiple sources. Likewise, sources often have contributing influences to one another. In a strict sense, threat analysis of stresses and sources should be conducted for individual target occurrences within each conservation area. However, it was beyond the scope of this plan to do detailed assessments of all stresses and sources for every target occurrence. Such analysis is best conducted via site conservation planning at a local level.

For purposes of this plan, threats were consolidated from a comprehensive list of sources of stress to targets (Box 2.1). To conduct the threats assessment, experts estimated the severity and scope of major threats within conservation areas. Due to the great variety of conservation targets and landscapes across the Piedmont, threats listed in this plan should be considered as broad categories of threat sources. Also, given the subjectivity of measuring threats on such a broad scale, no attempt was made to tally estimates into an overall threat ranking. Instead, threats were tabulated by their frequency of occurrence across various conservation area types. Historic threats were also taken into account, but were evaluated only on the basis of their contribution to ongoing stresses for targets. For a number of conservation areas, no information was known for threats. In such cases, these areas were left as data gaps.

Box 2.1 List of Standardized Threats by Category

<p><u>FORESTRY</u> Forestry Conversion Incompatible Forestry Practices/Management</p> <p><u>AGRICULTURE</u> Agriculture/Pasture Conversion Incompatible Agricultural Practices Incompatible Grazing Practices Animal Production Practices</p> <p><u>MINERAL RESOURCE EXTRACTION</u> Incompatible Resource Extraction Practices</p> <p><u>DEVELOPMENT</u> Urban/Suburban Development Industrial Development Development of Roads/Utilities</p> <p><u>HYDROLOGIC AND WATER QUALITY</u> Operations/Presence of Dams/Impoundments Water Withdrawal Excessive Groundwater Withdrawal Channel Modification</p>	<p><u>COASTAL</u> Shoreline Stabilization Sea Level Rise Global Climate Change</p> <p><u>OTHER</u> Invasive Species Parasites and Pathogens Altered Fire Regime Incompatible Fire Policy Recreation Gravel Roads Military Mission Dumping of Trash/Toxins Overexploitation of Species Absence/Overabundance of Biotic Elements Air-borne Pollutants/Nutrients Scientific Research</p>
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The most common threats for the Piedmont ecoregion are Incompatible Forestry Practices, Urban/Suburban Development, and Invasive Species. Combined, these three threats affect a substantial portion of the portfolio. They are also the most severe threats to the highest priority conservation areas. Other major threats also have significant affects on conservation targets, but are generally more localized within the ecoregion. Complete threats information for conservation areas can be viewed in the summary in Appendix F.

Ownership of Terrestrial Conservation Areas

Public ownership was calculated for all conservation areas using GIS. Overall, private lands comprise the major type of ownership for terrestrial conservation areas with over 3.6 million acres or 82.6% of the terrestrial conservation area acreage. In contrast, over 725,000 acres or 16.5% of terrestrial conservation areas are publicly owned by federal, state, or county governments. Of protected areas, Federal agencies own the largest portion of these public lands (59%), or just over 428,000 acres. The U.S. Forest Service, own the majority of public lands in conservation areas. State ownership of terrestrial conservation areas is just over 293,000 acres - 40% of public protected areas (Table 2.4).

Table 2.4 Terrestrial Conservation Area Ownership

Owner Type	Acreage
Federal	428590.5
State	293417.7
Local	3475.4
Private	39515.0
TOTAL	764998.5

Management of Public Lands

To ascertain the current level of public lands protection across the Piedmont portfolio, management categories for protected lands within each conservation area were evaluated using GAP and IUCN management level categories (Box 2.2).

As a whole, the draft Piedmont conservation areas have a relatively high percentage of public land. However, few public landholdings are managed for high levels of biodiversity protection. Most of the protected lands within the conservation portfolio (54%) were documented as a GAP level 3 management category. Less than 38% of public lands are managed as level 1 or level 2 categories (Table 2.5).

Box 2.2 GAP and IUCN Protected Area Categories

GAP categories	IUCN categories
<p>Level 1 – areas having a management plan in operation to maintain a natural state and within which natural disturbance events are allowed to proceed without interference.</p> <p>Level 2 – areas generally managed for natural values, but which may receive uses that degrade the quality of existing natural communities.</p> <p>Level 3 – areas for which legal mandates generally prevent permanent land cover conversions from natural or semi-natural habitats to anthropogenic habitats, such as conversions to agriculture, but which are subject to extractive uses such as silviculture or mining.</p> <p>Level 4 – areas managed for intensive human uses.</p>	<p>I - Strict nature reserve/Wilderness area: protected area managed mainly for science or wilderness protection</p> <p>Ia - Strict nature reserve: protected area managed mainly for science</p> <p>Ib - Wilderness Area: protected area managed mainly for wilderness protection</p> <p>II - National Park: protected area managed mainly for ecosystem protection and recreation</p> <p>III - Natural Monument: protected area managed mainly for conservation of specific natural features</p> <p>IV - Habitat/Species Management Area: protected area managed mainly for conservation through management intervention</p> <p>V - Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation</p> <p>VI - Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems</p>

Table 2.5 Protected Area Categories for Terrestrial Conservation Areas (GAP & IUCN)

GAP			IUCN		
GAP Category	Acreage	% of Protected Area	IUCN Category	Acreage	% of Protected Area
0	29750.0	3.9	Ia	627.6	0.0
1	83718.7	10.9	Ib	27878.9	3.6
2	210050.9	27.4	II	118484.6	15.5
3	413919.9	54.1	III	6649.1	0.9
4	27559.0	3.6	IV	20821.4	2.7
TOTAL	764998.5		VI	383358.6	50.1
			Unknown	102531.4	13.4
			na	74897.0	9.8
			uncoded	29750.0	3.9
			TOTAL	764998.5	

Land Cover for Conservation Areas

Acreage estimates of various natural and unnatural land cover types were also compiled for conservation areas. For this assessment, the National Land Cover Dataset (NLCD) was used. Land cover percentages were calculated for the Terrestrial and Freshwater Conservation Areas separately (Table 2.6). Overall, most terrestrial conservation areas have a high percentage of forest and other vegetative cover. Aquatic portfolio areas also have relatively high percentages of vegetative cover, but contain higher percentages of agriculture.

Table 2.6 NLCD Cover Types in Conservation Areas

COVER TYPE	% IN TERRESTRIAL C.A.*	% IN FRESHWATER C.A.*
Open Water	1.0	0.9
Low Intensity Residential	0.4	1.6
High Intensity Residential	0.0	0.2
Commercial/Industrial/Transportation	0.1	0.7
Bare Rock/Sand/Clay	0.0	0.0
Quarries/Strip Mines, Gravel Pits	0.0	0.0
Transitional	2.1	1.7
Deciduous Forest	48.7	37.2
Evergreen Forest	19.9	17.3
Mixed Forest	16.6	16.8
Pasture/Hay	6.1	15.6
Row Crops	2.7	5.6
Urban/Recreational Grasses	0.0	0.3
Woody Wetlands	1.9	1.8
Emergent Herbaceous Wetlands	1.3	0.1

*Percentages are based only on the portion of the Conservation Areas within the Piedmont boundary.

Population of the Piedmont

Census blocks are the finest level of population data available. By calculating the number and proportion of census blocks within a ecoregion, a fairly accurate estimate of total population and density can be determined. Over 16.8 million people live in the Piedmont (data based on national census data gathered in 2000 with 2004 estimates). The overall population density for the ecoregion is roughly 1,766 people per square mile. There are of course several very large urban areas where much of this population is centered. The census data classify 142 areas as “urban” that intersect the Piedmont Ecoregion. Well over 10 million people live in these urban areas.

Analysis of population data can provide valuable information about current levels of threat, especially when combined with other data. In particular, estimates of population and private-land acreage may provide insight into potential size classes of private ownership. As well, conservation areas with high-density populations in proximity to large, urban areas may be attractive for future development efforts. Conversely, conservation areas with low population density, high natural forest cover types, and few public lands, may be targeted for industrial forestry or resort development. The potential demographic combinations of population data, land cover, ownership, management type, and other data are many.

Strategies for Conservation

By definition, a strategy is a specific course of action taken to abate a threat to conservation targets. In general, a strategy is successful in proportion to its ability to improve the overall condition of a target occurrence by alleviating sources of stress. For purposes of ecoregional

planning, it is imperative to develop strategies that can achieve success at a sufficient scale across the ecoregion within a reasonable period of time. Altogether, the scale of a good strategy should match the scale of threats to targets.

Under TNC methodology, the effectiveness of a strategy is evaluated by several factors: benefits, feasibility, and cost. The benefits of a strategy are measured by either the total number of threats abated or the number of targets restored. Another important measure of benefit is the leverage provided by a strategy (i.e. the level of contribution from one strategy to another). Feasibility implies how easily a strategy can be implemented in terms of its complexity (i.e. partners, scale, staff availability, etc.). Finally, cost is a measure of both money and time required to implement a strategy.

Resources for Implementation

The biodiversity of the Piedmont Ecoregion has long attracted the interest of a number of public agencies, conservation groups and private foundations. Hopefully, the conservation vision and provided data in this draft plan will help agencies and foundations alike to identify funding priorities. Likewise, this document should assist TNC chapters and partner organizations with formulating strong justifications for funding needs. Finding additional funding sources is a requirement for many strategies. However, not all strategy types are financially driven. Many financial constraints can be overcome with better partnerships and sharing of resources.

To successfully implement this ecoregional plan, a concerted effort must be made to collaborate and communicate with a multitude of partners and stakeholders. Many federal and state agencies are key factors to implementation of various strategies. However, much work remains to connect with specific offices and key individuals that are best suited to make decisions and initiate conservation action in the Piedmont. Likewise, other non-governmental conservation groups, private landowners, and academic institutions can be effective partners. More outreach must be conducted at the local level to identify and unite with these important organizations and individuals. To achieve a sufficient scale of implementation will require the combined resources of all groups.

The Nature Conservancy and many other conservation organizations have worked hard through the years to protect the natural resources of the Piedmont Ecoregion. Currently, over 46,000 acres of land in the Piedmont are managed by TNC as part of a network of almost 60 preserves. Thousands more acres have been conserved through purchase by local land trusts, historic preservation foundations, and other conservation organizations. Many of the public lands currently within the Piedmont Ecoregion were acquired thanks to the conservation and advocacy of these groups. Similarly, NatureServe and the network of Natural Heritage programs have been instrumental in gathering and disseminating scientific data, identifying priorities for protection, and developing conservation deals.

Most of the conservation work directed by this draft ecoregional plan will occur at the state and local level. However, coordination is still needed at a higher level to monitor progress toward conservation goals and to re-assess strategies. As such, an ecoregional oversight team should continue to meet on a regular basis to coordinate efforts among TNC chapters and partner groups. Membership on the team should consist of key leaders from each state of the Piedmont, who will be tasked with implementing strategies and evaluating the degree of success of these strategies. The success of ecoregional planning depends upon a continual process of refinement of ideas and information. The ecoregional oversight team will be responsible for carrying new information into the subsequent iteration of the plan.

Review of Ecoregional Assessment Standards and Next Steps

In March 2003, The Nature Conservancy adopted a set of 11 standards for Ecoregional Assessments. Following is a review of the extent to which the Piedmont Ecoregional Plan conforms to each standard, an explanation of deviations, and what steps – if any – are needed to bring the Assessment into full conformance. A full description of standards is attached for reference.

All Key Partners Engaged – progress moderate

The Piedmont Ecoregional Core Team consisted of representatives from TNC state programs and state Heritage programs. Subject matter experts from various state agencies and academic institutions were engaged in the viability assessment and site selection processes for the portfolio. The Team did not conduct a stakeholder analysis at the outset, and ideally, this process would have engaged an even broader array of stakeholders and partners. Given the large logistical challenges already imposed by the Piedmont's large geographic scope (Maryland to Alabama) and limited funding to support meetings and partner travel, it would have been extremely difficult to include all the participants relevant to implementation of the Assessment.

Next Steps:

- Distribute Piedmont Ecoregional Assessment and appropriate underlying data to key partners.
- Operating Units identify key stakeholders and present Assessment for discussion and feedback.
- Survey core team to identify regional stakeholders and determine coordinated approach.

Public Availability and Consistent Management of Data – progress high

The best available data and expert knowledge were used to select the Piedmont Portfolio. All tabular data have been entered into the Conservation Planning Tool (CPT) and spatial data are archived at the Southern Resource Office (S. U.S. Region Science). Documentation of assumptions, rationale for key decisions/actions, and data sources (including metadata), have been included in the written summary and will be expanded in the final report. Information on and data gaps/research needs has not been reported, and should be expanded (see Standard 11).

Next Steps:

- Send the CPT data set, digital spatial portfolio data set, and electronic version of the ecoregional assessment executive summary to the Global Priorities Group.
- Distribute Assessment and supporting data on CD.
- Post Assessment and data on ConserveOnline.ORG.

Peer Review Throughout the Process – progress moderate

The Piedmont Assessment was performed by a set of seasoned practitioners with the guidance and involvement of the Southern U.S. Region Science Office, which approved the proposed work plan. The team was invited to a peer-review that it was unable to attend, so a full peer-review has not yet been conducted. Areas requiring improvement are identified in this internal review, along with proposals for bringing the assessment up to standards.

Next Steps:

- Contact GPG for peer review of current Assessment.

Adaptive Process: Priorities and Strategies at Multiple Scales – progress high

This standard calls for assessment process to be executed within a broader adaptive conservation process, and immediately to lead to identifying priorities and developing strategies at multiple scales. The core team cannot guarantee that this data set will be fully utilized by operating units. However, the portfolio of conservation areas and threat assessment are driving conservation priorities at the Regional level, and at least at a portion of the operating units within the Ecoregion.

Next Steps:

- Encourage Operating Units to utilize these data as a means of engaging partners, identifying priorities, and developing strategic approaches at multiple scales to abate threats and address conservation actions.

Ecoregional Assessments within Ecologically Defined Regions – progress very high

The Terrestrial Piedmont Ecoregional assessment utilized TNC Ecoregions as modified by Bailey, and incorporated stratification units derived from Omernick. The predecessor of GPG approved a minor amendment to the Piedmont boundary. Analysis of freshwater targets occurred by major drainage unit, stratified by Ecological Drainage Units defined through an internal peer-reviewed process. As required for consistency across Ecoregions, these separate analyses have been synthesized and reported out using Bailey.

Next Steps:

- Incorporate results of Chesapeake Bay Aquatic Ecoregional Assessment into Piedmont Aquatic Assessment.

Full Array of Terrestrial, Freshwater and Marine Conservation Targets – progress very high

Conservation targets were selected to represent the full range of biological diversity within the freshwater and terrestrial environments of the Piedmont. The suite of identified targets includes matrix forming forests, all terrestrial and aquatic ecological systems, and selected terrestrial and aquatic communities and species not adequately addressed by the coarse filter.

Conservation Goals Reflecting Quantity and Distribution – progress very high

Conservation goals were set for each conservation target by ecoregional subsection or ecological drainage unit (EDU) to reflect the quantity and distribution of viable occurrences within the ecoregion. In setting goals for each target the team consulted work done in adjacent Ecoregions and made use of the best current scientific information available. One potential shortcoming is that goals for matrix forming forest blocks were established as number of type per subsection, rather than a total area goal of matrix forming forest for the Ecoregion.

Next Steps:

- Analyze percent of portfolio area captured by selected forest blocks, and determine protection of these sites would protect adequately the representative biodiversity of the Piedmont.

Screening of all Target Occurrences – progress very high

All target populations/examples were screened to determine viability, and examples with poor viability were not counted towards meeting conservation goals. Screening criteria were explicit and confidence levels (precision of record location and date of last observation) were set to eliminate non-qualifying occurrences from the candidate dataset.

Effective Design of Ecoregion Portfolios – progress high

The Piedmont Core Team used the principles of representation, functionality, irreplaceability, and efficiency in designing the portfolio to meet goals for conservation targets. The current iteration of the portfolio depicts almost all selected conservation areas at the best approximation of the scale necessary to capture viable occurrences examples of conservation targets, though a few targets selected to meet goals are represented as buffered points in the conservation area layer. The Piedmont portfolio does not yet reflect the concept of connectivity to allow for movement of species and for meta-population dynamics, largely due to the lack of specificity regarding what is being connected, and guidance on how to generalize connectivity.

Next Steps:

- Design draft conservation areas around buffered points.
- Develop process for incorporating refinements of site boundaries developed through conservation action planning into the Piedmont Assessment data set.
- Incorporate connectivity into the second iteration.

Threat Assessments to Inform Strategy Development – progress very high

The Southern Region (Southeast Division) developed a threat assessment and sequencing conservation action approach in which the Piedmont Team participated. The results of this assessment have been used to inform conservation priorities at the regional level.

Final Reports and Data to Facilitate the Adaptive Conservation Process – progress high

The report disseminated with the Ecoregional Assessment data set represents a summary of the process, and includes most of the information required in this standard; however additional information would strengthen the utility of this product.

Next Steps:

- Expand explanation of the planning process, assumptions, key decisions and accompanying rationale.
- Assess land ownership by large entities, specifically timber companies, TIMO's and other large private landowners.
- Refine assessment of progress toward meeting target goals.
- Describe data gaps and research needs (including underrepresented targets and poorly surveyed areas), the quality of data used, confidence level(s) of the data, and what should be done to inform the second iteration.
- Expand bibliography.
- Solicit and incorporate peer review and stakeholder feedback.
- Clarify ongoing process for updating assessment.

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Glossary of Terms

Action sites – high priority conservation areas selected from the full portfolio of ecoregional sites where the Conservancy is committed to achieving conservation within the next 10 years. Criteria considered during the “action site” selection process are complementarity, conservation value, threats, feasibility, and leverage. This has been supplanted by the information and analysis conducted under the Sequencing Conservation Action Project.

Aquatic ecological system – dynamic spatial assemblages of ecological communities (e.g. rivers, streams, and lakes) with similar geomorphological patterns tied together by ecological processes (e.g. hydrologic and nutrient regimes, access to floodplains) or environmental gradients (e.g. temperature, chemical and habitat volume), and form a cohesive, distinguishable unit on a hydrography map.

Biodiversity – the full range of natural variety and variability within and among living organisms, and the ecological and environmental complexes in which they occur. It encompasses multiple levels of organization, including genes, species, communities, and ecological systems or ecosystems.

Coarse-filter/fine-filter approach – a working hypothesis that assumes that conservation of multiple, viable examples of all coarse-filter targets (communities and ecological systems) will also conserve the majority of species (fine-filter targets).

Coarse scale approach – the first step in the portfolio assembly process where all coarse-scale targets (i.e. ecological systems or matrix plant communities which occur across a large spatial scale) are represented or “captured” in the ecoregion (including those that are feasibly restorable).

Complementarity – the principle of selecting action sites that complement or are “most different” from sites that are already conserved.

Conservation area – an area selected for inclusion in the conservation “portfolio” for an ecoregion, which is defined by the presence of conservation targets and their cumulative habitat/spatial requirements. Conservation areas are the focus of conservation action, and are the locus for measuring conservation success. Conservation Areas usually do not constitute a detailed conservation plan for specific sites.

Conservation goal – in ecoregional planning, the number and spatial distribution of on-the-ground occurrences of targeted species, natural communities, and ecological systems that are needed to adequately conserve the target in an ecoregion.

Conservation value – a criterion in the action site selection process that is based on the number, diversity (scale, aquatic/terrestrial), and health of conservation targets.

Conservation target – (see Target)

Decline/declining – the historical or recent decrease of a conservation target through all or part of its range. Declining species exhibit significant, long-term decreases in habitat and/or

numbers, are subject to a high degree of threat, or may have unique habitat or behavioral requirements that expose them to great risk.

Disjunct – distributional range of a species or community which is found in an ecoregion a significant distance from its primary range in other disconnected ecoregions. Disjunct species have populations that are geographically isolated.

Distribution pattern – the overall pattern of occurrence for a particular conservation target. In ecoregional planning, distribution patterns are often described in terms of the relative proportion of the target's natural range occurring within a given ecoregion (i.e. endemic, limited, disjunct, peripheral, and widespread).

Ecological communities – (see Natural communities)

Ecological drainage unit (EDU) – groups of watersheds (8-digit U.S. Geological Survey Hydrologic Units) within aquatic ecoregions with similar patterns of zoogeographic sources and constraints, physiography, drainage density, hydrologic characteristics and connectivity.

Ecological land unit (ELU) – derived units of land using spatial data sets such as digital elevation models, surface geology, and landform models. ELUs are defined from combinations of several of these environmental variables. In ecoregional planning, ELUs are useful tools for predicting locations of natural communities or ecological systems, when such information is lacking, and for capturing ecological variation based upon environmental factors.

Ecological systems – ecological systems are dynamic assemblages of native plant and/or animal communities that 1) occur together on the landscape or in the water, 2) are tied together by similar ecological processes (e.g., fire, hydrology), underlying environmental features (e.g., soils, geology), or environmental gradients (e.g., elevation).

Ecoregion – a relatively large geographic unit of land and water defined by the climate, vegetation, geology, and other ecological and environmental patterns.

Element occurrence (EO) – a term originating from methodology of the Natural Heritage Program network that refers to species, natural communities, or other entities (e.g. migratory bird stopovers, ecological systems) of biodiversity that serve as both conservation targets and as units for organizing and tracking information.

Endemic – distributional range of a species or community which primarily or only occurs in one ecoregion.

Exotic species – nonindigenous species which have been introduced either intentionally or accidentally into areas outside their natural range.

Feasibility – a principle used in ecoregional planning to select Action Sites by evaluating the staff capacity of the Conservancy and other partners to abate threats, the probability of success, and the financial costs of implementation.

Fine-filter approach – to ensure that the coarse-fine filter strategy adequately captures all viable, native species and ecological communities, ecoregional planning teams also target species that cannot be reliably conserved through the coarse-filter approach and may require

individual attention through the fine-filter approach. Wide-ranging, very rare, extremely localized, narrowly endemic, or keystone species are all likely to need fine-filter strategies.

Fine-filter/coarse-filter approach – (see Coarse-filter/fine-filter approach)

Functional site – small conservation areas which maintain targets and their supporting ecological processes within their natural ranges of variability. A functional site will conserve a small number of ecological systems, natural communities, or species at one or two scales below the regional scale; and targets tend to be relatively few, often sharing similar ecological processes.

Functional landscape – conservation areas which capture a large number of ecological systems, natural communities, and species at all scales below regional. Functional landscapes are similar to functional sites in that they both maintain targets and their supporting ecological process within their natural ranges of variability. However, functional landscapes differ often by the scale of ecological systems/natural communities captured (e.g. matrix communities).

Functionality – refers to a principle during the portfolio assembly process where all sites in the conservation portfolio are ensured as being functional or feasibly restorable to a functional condition. Such areas maintain the size, condition, and landscape context within the natural range of variability of the perspective conservation targets.

Global rank – a numeric assessment of a biological element's relative imperilment and conservation status across its range of distribution ranging from G1 (critically imperiled) to G5 (secure). Assigned by the Natural Heritage Programs, global ranks for species and natural communities are determined primarily by the number of occurrences or total area of coverage (communities only), modified by other factors such as condition, historic trend in distribution or condition, vulnerability, and threats.

Irreplaceable – refers to the outstanding examples of a target species, natural community, or ecological system; or a population that is critical to a species remaining extant and not going extinct.

Large-patch community – a natural community that forms large areas of interrupted cover. Individual occurrences of this community patch type typically range in size from 50 to 2,000 hectares (app. 50 to 500 acres). Large-patch communities are associated with environmental conditions that are more specific than those of matrix communities, and are less common or less extensive in the landscape. Like matrix communities, large-patch communities are also influenced by large-scale processes, but these tend to be modified by specific site features that influence the community.

Leverage – the principle of selecting action sites by evaluating if conservation at a site will influence conservation elsewhere, if the site provides an opportunity to test a strategy, or if staff or a mechanism exists to help export conservation experience from one site to others.

Limited – distributional range of a species or natural community which occurs in the ecoregion and within a few other adjacent ecoregions.

Matrix community – natural communities that form extensive and contiguous cover over a broad range. Matrix communities occur on the most extensive landforms and typically have wide ecological tolerances. They may be characterized by a complex mosaic of successional

stages resulting from characteristic disturbance processes. Individual occurrences range in size from 2,000 to 500,000 hectares (app. 5,000 to over 1.2 million acres). Matrix community types are often influenced by large-scale processes (e.g. climate patterns, fire) and are important habitat for wide-ranging or large area-dependent fauna, such as large herbivores or birds.

Matrix block – Major Roads (i.e. federal Highways) were used as boundaries to identify discrete patches of existing forested lands. Blocks greater than 5,000 acres in size were evaluated by experts from each state based on natural cover. Blocks that had high proportions of pine plantations, fields, and/or other non-natural land-cover were excluded from further review, others were included in further analysis.

Metadata – documents the content, source, reliability, and other characteristics of data. Metadata are particularly important in the iterative ecoregional planning process because this documentation will expedite the review of existing tabular and geospatial data sets when an ecoregional plan is revisited and will minimize the likelihood of “lost” or misinterpreted information.

Natural communities – terrestrial plant communities of definite floristic composition, uniform habitat conditions, and uniform physiognomy. Natural communities are defined by the finest level of classification, the “plant association” level of the National Vegetation Classification. Like ecological systems, natural plant communities are characterized by both a biotic and abiotic component. Even though natural communities are classed based upon dominant vegetation, they are also used as inclusive conservation units that include all component species (plant and animal) and the ecological processes that support them.

Occurrence – a spatially referenced population of a species or a location of a natural plant community or ecological system. Many occurrences are tracked by the various Natural Heritage Programs and are known as Element Occurrences. Occurrences may also be more loosely defined locations delineated through the definition/mapping or other spatial data or through the identification of areas by experts.

Peripheral – distributional range of a species or community which rarely occurs in the ecoregion and is more common in other nearby ecoregions.

Portfolio – the suite of conservation areas within an ecoregion selected to represent and conserve the conservation targets and their genetic and ecological variation.

Representation – a principle of reserve selection and design referring to the capture of the full spectrum of biological and environmental variation within a network of reserves or conservation areas (sites), including all genotypes, species, communities, ecosystems, habitats, and landscapes.

Site – (see Conservation area)

Small-patch community – natural plant communities that form small, discrete areas of vegetative cover. Individual occurrences of this community type typically range in size from 1 to 50 hectares (or approximately 2 to 125 acres). Small-patch communities occur in very specific ecological settings, such as on specialized landform types or in unusual microhabitats. The specialized conditions of small patch communities, however, are often dependent on the maintenance of ecological processes in the surrounding matrix and large-patch communities. In many ecoregions, small-patch communities contain a disproportionately large percentage of the

total flora, and also support a specific and restricted set of associated fauna (e.g. invertebrates or herpetofauna) dependent on specialized conditions.

Source (of stress) – an extraneous factor, either human (i.e. activities, policies, land uses) or biological (e.g. non-native species), that infringes upon a conservation target in a way that results in stress.

Stratification (unit) – a hierarchical division of an ecoregion into nested, progressively smaller geographic units. Spatial stratification is used to represent each conservation target across its range of variation (in internal composition and landscape setting) within the ecoregion, to ensure long-term viability of the type by buffering against degradation in one portion of its range, and to allow for possible geographic variation.

Stress – something which impairs or degrades the size, condition, or landscape context of a conservation target, resulting in reduced viability.

Target – Specific components of biodiversity used to design ecoregional portfolios and develop and prioritize conservation strategies. Conservation targets consist of ecological systems, natural communities, and species.

Threat – the combined concept of ecological stresses to a target and the sources of that stress to the target.

Urgency – a qualitative measure referring to the immediacy of severe threats – taking into account how severe the threat is and how likely it is to destroy or seriously degrade the targets.

Viable/viability – the ability of a species to persist for many generations or a natural community or ecological system to persist over some time period. An assessment of viability will often focus on the minimum area and number of occurrences necessary for persistence.

Widespread – distributional range of a species or natural community which is typically found in the ecoregion, but common in many others also; the bulk of distribution may be elsewhere however.

Piedmont Ecoregion Draft - Targets, Goals, & Progress Toward Goals

<u>Target</u>				<u>Common Name</u>	<u>EI Code</u>
<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
ANIMALS					
AIMOPHILA AESTIVALIS					
ECOREGION TOTAL	10	3	-7	short	ABPBX91050
Northern Interior	0	0	0	no goal	
Northern Outer	4	3	-1	short	
Southern Interior	0	0	0	no goal	
Southern Outer	4	0	-4	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	2	0	-2	short	
AMBYSTOMA TIGRINUM					
ECOREGION TOTAL	5	0	-5	short	AAAAA01140
Northern Interior	0	0	0	no goal	
Northern Outer	3	0	-3	short	
Southern Interior	2	0	-2	short	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
CAMBARUS CATAGIUS					
ECOREGION TOTAL	25	9	-16	short	ICMAL07240
Northern Interior	0	0	0	no goal	
Northern Outer	25	9	-16	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
CAMBARUS HOWARDI					
ECOREGION TOTAL	0	0	0	no goal	ICMAL07580
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
CAMBARUS SPECIOSUS					
ECOREGION TOTAL	0	0	0	no goal	ICMAL07750
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
CICINDELA MARGINIPENNIS					IICOL02060
ECOREGION TOTAL	0	0	0	no goal	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
CLEMMYS MUHLENBERGII					ARAAD02040
ECOREGION TOTAL	15	5	-10	short	
Northern Interior	10	5	-5	short	
Northern Outer	2	0	-2	short	
Southern Interior	3	0	-3	short	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
CORYNORHINUS RAFINESQUII					AMACC08020
ECOREGION TOTAL	10	1	-9	short	
Northern Interior	4	1	-3	short	
Northern Outer	2	0	-2	short	
Southern Interior	4	0	-4	short	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
DESMOGNATHUS AENEUS					AAAAAD03010
ECOREGION TOTAL	20	0	-20	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	20	0	-20	short	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
HEMIDACTYLUM SCUTATUM					AAAAAD08010
ECOREGION TOTAL	16	2	-14	short	
Northern Interior	3	0	-3	short	
Northern Outer	4	2	-2	short	
Southern Interior	3	0	-3	short	
Southern Outer	4	0	-4	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	2	0	-2	short	
PARAVITREA HERA					IMGAS78160
ECOREGION TOTAL	25	1	-24	short	
Northern Interior	25	1	-24	short	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

PICOIDES BOREALIS

ABNYF07060

ECOREGION TOTAL	10	1	-9	short
Northern Interior	0	0	0	no goal
Northern Outer	4	0	-4	short
Southern Interior	0	0	0	no goal
Southern Outer	4	0	-4	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	2	1	-1	short

PLETHODON WEBSTERI

AAAAD12210

ECOREGION TOTAL	20	0	-20	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	2	0	-2	short
Southern Outer	18	0	-18	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

STYGOBROMUS PHREATICUS

ICMAL05250

ECOREGION TOTAL	20	0	-20	short
Northern Interior	20	0	-20	short
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

STYGOBROMUS SP 15

ICMAL05830

ECOREGION TOTAL	20	0	-20	short
Northern Interior	10	0	-10	short
Northern Outer	10	0	-10	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

TRIODOPSIS FULCIDEN

IMGASA1170

ECOREGION TOTAL	25	0	-25	short
Northern Interior	25	0	-25	short
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Stratification Unit	Goal	Captured	Progress Toward Goal	Goal Status
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NATURAL COMMUNITIES

**Acer (nigrum, saccharum) / Asimina triloba / Jeffersonia diphylla -
Hydrophyllum canadense Forest**

CEGL008412

ECOREGION TOTAL	13	5	-8	short
Northern Interior	5	4	-1	short
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	3	1	-2	short
Triassic Upland	5	0	-5	short

**Acer rubrum var. trilobum - Liriodendron tulipifera / Ilex opaca var.
opaca / Osmunda cinnamomea Forest**

CEGL004551

ECOREGION TOTAL	25	1	-24	short
Northern Interior	0	0	0	no goal
Northern Outer	0	1	1	exceed
Southern Interior	25	0	-25	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

**Acer rubrum var. trilobum / Myrica heterophylla - Gaylussacia
frondosa / Andropogon glomeratus - (Sarracenia flava) Woodland**

CEGL004781

ECOREGION TOTAL	25	7	-18	short
Northern Interior	0	2	2	exceed
Northern Outer	25	4	-21	short
Southern Interior	0	0	0	no goal
Southern Outer	0	1	1	exceed
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

**Acer rubrum var. trilobum / Viburnum nudum var. nudum /
Osmunda cinnamomea - Saururus cernuus - Impatiens capensis
Forest**

CEGL004426

ECOREGION TOTAL	15	3	-12	short
Northern Interior	3	1	-2	short
Northern Outer	3	1	-2	short
Southern Interior	3	0	-3	short
Southern Outer	3	0	-3	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	3	1	-2	short

Appalachian Highlands Acid Herbaceous Seeps

CEGR047510

ECOREGION TOTAL	5	4	-1	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	5	4	-1	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests					CEGR040115
ECOREGION TOTAL	52	63	11	exceed	
Northern Interior	13	4	-9	short	
Northern Outer	13	37	24	exceed	
Southern Interior	0	2	2	exceed	
Southern Outer	13	2	-11	short	
Triassic Lowland	0	5	5	exceed	
Triassic Upland	13	13	0	met-exactly	
Appalachian Highlands Dry-mesic Oak Forests and Woodlands					CEGR040113
ECOREGION TOTAL	55	70	15	exceed	
Northern Interior	11	8	-3	short	
Northern Outer	11	47	36	exceed	
Southern Interior	11	2	-9	short	
Southern Outer	11	3	-8	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	11	10	-1	short	
Appalachian Highlands Eastern Hemlock-Hardwood Forests					CEGR040525
ECOREGION TOTAL	40	12	-28	short	
Northern Interior	12	11	-1	short	
Northern Outer	10	1	-9	short	
Southern Interior	18	0	-18	short	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Appalachian Highlands Forested Acid Seeps					CEGR047020
ECOREGION TOTAL	27	11	-16	short	
Northern Interior	5	4	-1	short	
Northern Outer	5	0	-5	short	
Southern Interior	5	7	2	exceed	
Southern Outer	5	0	-5	short	
Triassic Lowland	2	0	-2	short	
Triassic Upland	5	0	-5	short	
Appalachian Highlands Granitic Domes					CEGR043510
ECOREGION TOTAL	5	2	-3	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	5	2	-3	short	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Appalachian Highlands Granitic Flatrocks					CEGR040820
ECOREGION TOTAL	102	41	-61	short	
Northern Interior	2	0	-2	short	
Northern Outer	50	21	-29	short	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Southern Interior	0	1	1	exceed
Southern Outer	50	18	-32	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	1	1	exceed

Appalachian Highlands Large River Floodplain Forests

CEGR040630

ECOREGION TOTAL	36	14	-22	short
Northern Interior	6	2	-4	short
Northern Outer	6	5	-1	short
Southern Interior	6	0	-6	short
Southern Outer	6	3	-3	short
Triassic Lowland	6	2	-4	short
Triassic Upland	6	2	-4	short

Appalachian Highlands Mesic Hardwood Forests

CEGR040510

ECOREGION TOTAL	43	64	21	exceed
Northern Interior	6	8	2	exceed
Northern Outer	12	37	25	exceed
Southern Interior	5	2	-3	short
Southern Outer	5	5	0	met-exactly
Triassic Lowland	0	0	0	no goal
Triassic Upland	15	12	-3	short

Appalachian Highlands Mixed Mesophytic/Cove Forests

CEGR042030

ECOREGION TOTAL	10	2	-8	short
Northern Interior	5	0	-5	short
Northern Outer	0	0	0	no goal
Southern Interior	5	2	-3	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Appalachian Highlands Montane Alluvial Forests and Shrublands

CEGR042210

ECOREGION TOTAL	10	2	-8	short
Northern Interior	5	0	-5	short
Northern Outer	0	1	1	exceed
Southern Interior	5	1	-4	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines

CEGR040535

ECOREGION TOTAL	50	16	-34	short
Northern Interior	10	5	-5	short
Northern Outer	10	8	-2	short
Southern Interior	10	0	-10	short
Southern Outer	10	0	-10	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	10	3	-7	short

Appalachian Highlands Pitch and Table Mountain Pine Woodlands

CEGR040180

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
ECOREGION TOTAL	10	13	3	exceed
Northern Interior	5	10	5	exceed
Northern Outer	0	1	1	exceed
Southern Interior	5	2	-3	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Appalachian Highlands Riverfront and Levee Forests and Shrublands

CEGR040640

ECOREGION TOTAL	30	33	3	exceed
Northern Interior	6	0	-6	short
Northern Outer	6	13	7	exceed
Southern Interior	6	0	-6	short
Southern Outer	6	0	-6	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	6	20	14	exceed

Appalachian Highlands Riverine Aquatic Vegetation

CEGR045710

ECOREGION TOTAL	25	0	-25	short
Northern Interior	5	0	-5	short
Northern Outer	5	0	-5	short
Southern Interior	5	0	-5	short
Southern Outer	5	0	-5	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	5	0	-5	short

Appalachian Highlands Riverscour Vegetation

CEGR045740

ECOREGION TOTAL	0	1	1	exceed
Northern Interior	0	0	0	no goal
Northern Outer	0	1	1	exceed
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Appalachian Highlands Rocky Summits

CEGR043630

ECOREGION TOTAL	25	4	-21	short
Northern Interior	12	4	-8	short
Northern Outer	13	0	-13	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores

CEGR040520

ECOREGION TOTAL	100	16	-84	short
Northern Interior	20	0	-20	short
Northern Outer	20	13	-7	short
Southern Interior	20	0	-20	short
Southern Outer	20	1	-19	short

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Triassic Lowland	0	0	0	no goal
Triassic Upland	20	2	-18	short

Appalachian Highlands Upland White Pine Forests

CEGR040140

ECOREGION TOTAL	5	1	-4	short
Northern Interior	5	1	-4	short
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Appalachian Highlands Xeric Hardpan Forests and Woodlands

CEGR040112

ECOREGION TOTAL	18	17	-1	short
Northern Interior	0	0	0	no goal
Northern Outer	9	15	6	exceed
Southern Interior	0	0	0	no goal
Southern Outer	0	1	1	exceed
Triassic Lowland	0	0	0	no goal
Triassic Upland	9	1	-8	short

Appalachian Highlands Xeric Oak Forests

CEGR040110

ECOREGION TOTAL	22	15	-7	short
Northern Interior	6	10	4	exceed
Northern Outer	4	2	-2	short
Southern Interior	4	2	-2	short
Southern Outer	4	1	-3	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	4	0	-4	short

Appalachian Highlands Xeric Shortleaf Pine Woodlands and Forests

CEGR040130

ECOREGION TOTAL	25	1	-24	short
Northern Interior	5	1	-4	short
Northern Outer	5	0	-5	short
Southern Interior	5	0	-5	short
Southern Outer	5	0	-5	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	5	0	-5	short

Appalachian Highlands Xeric Virginia / Shortleaf Pine Woodlands

CEGR040127

ECOREGION TOTAL	25	1	-24	short
Northern Interior	5	0	-5	short
Northern Outer	5	0	-5	short
Southern Interior	5	0	-5	short
Southern Outer	5	1	-4	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	5	0	-5	short

Appalachian Mafic Igneous/Metamorphic Glades and Barrens

CEGR044080

ECOREGION TOTAL	10	11	1	exceed
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<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Northern Interior	10	11	1	exceed
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Appalachian Montane Oak-Hickory Forest

CEGR040440

ECOREGION TOTAL	72	8	-64	short
Northern Interior	36	5	-31	short
Northern Outer	0	0	0	no goal
Southern Interior	36	2	-34	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	1	1	exceed

Appalachian Patch Prairies, Savannas, and Grasslands

CEGR044505

ECOREGION TOTAL	5	1	-4	short
Northern Interior	0	0	0	no goal
Northern Outer	5	1	-4	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Arundinaria gigantea ssp. gigantea Shrubland

CEGL003836

ECOREGION TOTAL	8	0	-8	short
Northern Interior	2	0	-2	short
Northern Outer	0	0	0	no goal
Southern Interior	2	0	-2	short
Southern Outer	2	0	-2	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	2	0	-2	short

beaver pond and other natural wetlands & marshes

CEGR0XXXXX

ECOREGION TOTAL	35	15	-20	short
Northern Interior	7	5	-2	short
Northern Outer	7	5	-2	short
Southern Interior	7	0	-7	short
Southern Outer	7	0	-7	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	7	5	-2	short

Eastern Wide-ranging Dry Acid Cliffs

CEGR040740

ECOREGION TOTAL	75	10	-65	short
Northern Interior	25	6	-19	short
Northern Outer	25	4	-21	short
Southern Interior	25	0	-25	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
Eastern Wide-ranging Dry Alkaline Cliffs					CEGR040750
ECOREGION TOTAL	55	6	-49	short	
Northern Interior	10	4	-6	short	
Northern Outer	10	2	-8	short	
Southern Interior	10	0	-10	short	
Southern Outer	10	0	-10	short	
Triassic Lowland	5	0	-5	short	
Triassic Upland	10	0	-10	short	
Eastern Wide-ranging Moist Acid Cliffs					CEGR040745
ECOREGION TOTAL	75	3	-72	short	
Northern Interior	25	3	-22	short	
Northern Outer	25	0	-25	short	
Southern Interior	25	0	-25	short	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Fagus grandifolia - Acer barbatum - (Quercus muehlenbergii) / Rich Herbs Calcareous Ravine Forest					CEGL007181
ECOREGION TOTAL	12	0	-12	short	
Northern Interior	6	0	-6	short	
Northern Outer	6	0	-6	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest					CEGL008466
ECOREGION TOTAL	51	30	-21	short	
Northern Interior	17	2	-15	short	
Northern Outer	17	25	8	exceed	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	17	3	-14	short	
Fraxinus americana - Carya glabra / Schizachyrium scoparium - Helianthus divaricatus Woodland					CEGL003683
ECOREGION TOTAL	13	3	-10	short	
Northern Interior	13	2	-11	short	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	1	1	exceed	
Triassic Upland	0	0	0	no goal	
Fraxinus americana - Carya glabra / Symphoricarpos orbiculatus - Rhus aromatica / Piptochaetium avenaceum Woodland					CEGL003684
ECOREGION TOTAL	12	4	-8	short	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Northern Interior	4	4	0	met-exactly
Northern Outer	0	0	0	no goal
Southern Interior	4	0	-4	short
Southern Outer	4	0	-4	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Hymenocallis caroliniana - Justicia americana Herbaceous

CEGL004285

Vegetation

ECOREGION TOTAL	12	1	-11	short
Northern Interior	0	0	0	no goal
Northern Outer	4	1	-3	short
Southern Interior	4	0	-4	short
Southern Outer	4	0	-4	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

JUNIPERUS VIRGINIANA / TRIFOLIUM VIRGINICUM - TALINUM

CEGL006294

TERETIFOLIUM - OPUNTIA HUMIFUSA WOODLAND

ECOREGION TOTAL	25	7	-18	short
Northern Interior	25	5	-20	short
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	2	2	exceed
Triassic Upland	0	0	0	no goal

Juniperus virginiana var. virginiana - Ulmus alata / Schizachyrium

CEGL004443

scoparium Woodland

ECOREGION TOTAL	25	2	-23	short
Northern Interior	0	1	1	exceed
Northern Outer	25	1	-24	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Lasallia papulosa - Lasallia pensylvanica Nonvascular Vegetation

CEGL004385

ECOREGION TOTAL	26	0	-26	short
Northern Interior	13	0	-13	short
Northern Outer	0	0	0	no goal
Southern Interior	13	0	-13	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Leucothoe racemosa - Vaccinium fuscatum - Smilax walteri

CEGL004533

Shrubland

ECOREGION TOTAL	25	1	-24	short
Northern Interior	0	0	0	no goal
Northern Outer	25	1	-24	short
Southern Interior	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

**Liriodendron tulipifera - Tilia americana var. heterophylla -
(Aesculus flava) / Cimicifuga racemosa Forest**

CEGL007291

ECOREGION TOTAL	10	5	-5	short
Northern Interior	5	5	0	met-exactly
Northern Outer	0	0	0	no goal
Southern Interior	5	0	-5	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

**Nyssa biflora / Cephalanthus occidentalis - Leucothoe racemosa
Forest**

CEGL004550

ECOREGION TOTAL	25	1	-24	short
Northern Interior	0	0	0	no goal
Northern Outer	25	1	-24	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

**Peltandra virginica - Saururus cernuus - Carex crinita / Climacium
americanum Herbaceous Vegetation**

CEGL007696

ECOREGION TOTAL	15	9	-6	short
Northern Interior	3	0	-3	short
Northern Outer	3	5	2	exceed
Southern Interior	3	0	-3	short
Southern Outer	3	0	-3	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	3	4	1	exceed

**Phlox subulata - Solidago simplex var. racemosa - Senecio
pauperculus Herbaceous Vegetation**

CEGL004284

ECOREGION TOTAL	26	0	-26	short
Northern Interior	13	0	-13	short
Northern Outer	13	0	-13	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Piedmont Monadnock Forests

CEGR040133

ECOREGION TOTAL	10	23	13	exceed
Northern Interior	5	2	-3	short
Northern Outer	5	21	16	exceed
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
Pinus echinata - Pinus virginiana / Rhododendron minus - Kalmia latifolia Woodland					CEGL003563
ECOREGION TOTAL	25	2	-23	short	
Northern Interior	0	0	0	no goal	
Northern Outer	25	0	-25	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	2	2	exceed	
PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA / ANDROPOGON GYRANS - CHRYSOPSIS MARIANA WOODLAND					CEGL004447
ECOREGION TOTAL	25	0	-25	short	
Northern Interior	0	0	0	no goal	
Northern Outer	25	0	-25	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Pinus palustris - Pinus echinata - (Pinus virginiana) / Quercus marilandica - (Quercus prinus) / Vaccinium pallidum Woodland					CEGL008437
ECOREGION TOTAL	18	5	-13	short	
Northern Interior	0	0	0	no goal	
Northern Outer	6	5	-1	short	
Southern Interior	6	0	-6	short	
Southern Outer	6	0	-6	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Pinus palustris - Pinus echinata / Quercus coccinea - Quercus georgiana Woodland					CEGL004432
ECOREGION TOTAL	24	0	-24	short	
Northern Interior	12	0	-12	short	
Northern Outer	12	0	-12	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Pinus palustris - Pinus echinata / Schizachyrium scoparium - Manfreda virginica Serpentine Woodland					CEGL003608
ECOREGION TOTAL	25	2	-23	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	25	2	-23	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
Pinus palustris - Pinus taeda - Pinus serotina / Chasmanthium laxum - Panicum virgatum Piedmont Woodland					CEGL003663
ECOREGION TOTAL	25	1	-24	short	
Northern Interior	0	0	0	no goal	
Northern Outer	25	1	-24	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Pinus palustris - Quercus marilandica - Quercus prinus / Symplocos tinctoria Woodland					CEGL004554
ECOREGION TOTAL	25	1	-24	short	
Northern Interior	0	0	0	no goal	
Northern Outer	25	1	-24	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Pinus rigida - Quercus stellata / Andropogon gerardii - Packera paupercula Woodland					CEGL004968
ECOREGION TOTAL	0	1	1	exceed	
Northern Interior	0	0	0	no goal	
Northern Outer	0	1	1	exceed	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Pinus rigida / Schizachyrium scoparium - Senecio plattensis Wooded Herbaceous Vegetation					CEGL006084
ECOREGION TOTAL	25	1	-24	short	
Northern Interior	25	1	-24	short	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Quercus alba - Carya glabra - Fraxinus americana / Acer leucoderme / Vitis rotundifolia Forest					CEGL004541
ECOREGION TOTAL	25	1	-24	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	1	1	exceed	
Southern Interior	0	0	0	no goal	
Southern Outer	25	0	-25	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
Quercus alba - Carya glabra / Schizachyrium scoparium - Helianthus divaricatus - Salvia urticifolia - Parthenium integrifolium var. auriculatum Woodla					CEGL003721
ECOREGION TOTAL	36	2	-34	short	
Northern Interior	0	0	0	no goal	
Northern Outer	18	2	-16	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	18	0	-18	short	
Quercus alba - Quercus rubra - Quercus prinus - Tilia americana var. caroliniana / Ostrya virginiana Forest					CEGL004542
ECOREGION TOTAL	25	0	-25	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	25	0	-25	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Quercus alba - Quercus velutina - Quercus stellata / Schizachyrium scoparium - Desmodium spp. Woodland					CEGL003722
ECOREGION TOTAL	36	4	-32	short	
Northern Interior	0	2	2	exceed	
Northern Outer	36	2	-34	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest					CEGL007356
ECOREGION TOTAL	18	15	-3	short	
Northern Interior	0	0	0	no goal	
Northern Outer	9	6	-3	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	9	9	0	met-exactly	
Quercus palustris - Quercus bicolor / Carex spp. Forest					CEGL004643
ECOREGION TOTAL	32	2	-30	short	
Northern Interior	12	0	-12	short	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	8	2	-6	short	
Triassic Upland	12	0	-12	short	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
QUERCUS PHELLOS - QUERCUS (MICHAUXII, SHUMARDII) - FRAXINUS AMERICANA / (QUERCUS OGLETHORPENSIS) / ZEPHYRANTHES ATAMASCA GABBRO UPLAND DEPRESSION FORE					CEGL008484

ECOREGION TOTAL	26	7	-19	short
Northern Interior	0	0	0	no goal
Northern Outer	13	4	-9	short
Southern Interior	0	0	0	no goal
Southern Outer	13	3	-10	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest					CEGL007403
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ECOREGION TOTAL	25	26	1	exceed
Northern Interior	0	1	1	exceed
Northern Outer	8	23	15	exceed
Southern Interior	0	0	0	no goal
Southern Outer	8	0	-8	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	8	2	-6	short

Quercus prinus - Carya alba - Quercus velutina / Vaccinium arboreum / Iris verna var. smalliana Forest					CEGL007261
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ECOREGION TOTAL	10	0	-10	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	5	0	-5	short
Southern Outer	5	0	-5	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Quercus stellata - (Pinus echinata) / Schizachyrium scoparium - Echinacea laevigata - Solidago ptarmicoides Woodland					CEGL003558
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ECOREGION TOTAL	25	1	-24	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	25	1	-24	short

Quercus stellata - Carya carolinae-septentrionalis / Piptochaetium avenaceum - Danthonia spicata Woodland					CEGL003713
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ECOREGION TOTAL	25	8	-17	short
Northern Interior	0	1	1	exceed
Northern Outer	25	7	-18	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
Quercus stellata - Quercus alba - Quercus falcata / Gaylussacia frondosa var. frondosa Woodland					CEGL004413
ECOREGION TOTAL	18	7	-11	short	
Northern Interior	0	0	0	no goal	
Northern Outer	18	7	-11	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Rocky Riverbeds					CEGR045730
ECOREGION TOTAL	30	2	-28	short	
Northern Interior	5	0	-5	short	
Northern Outer	5	2	-3	short	
Southern Interior	5	0	-5	short	
Southern Outer	5	0	-5	short	
Triassic Lowland	5	0	-5	short	
Triassic Upland	5	0	-5	short	
Saxifraga michauxii Herbaceous Vegetation					CEGL004524
ECOREGION TOTAL	0	4	4	exceed	
Northern Interior	0	4	4	exceed	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Schizachyrium scoparium - Solidago plumosa Herbaceous Vegetation					CEGL004459
ECOREGION TOTAL	25	1	-24	short	
Northern Interior	0	0	0	no goal	
Northern Outer	25	1	-24	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Selaginella rupestris - Schizachyrium scoparium - Hypericum gentianoides - Bulbostylis capillaris Herbaceous Vegetation					CEGL007690
ECOREGION TOTAL	13	1	-12	short	
Northern Interior	13	0	-13	short	
Northern Outer	0	0	0	no goal	
Southern Interior	0	1	1	exceed	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
Southeastern Coastal Plain Mixed Hardwood Small Stream Acid Forests					CEGR036520
ECOREGION TOTAL	5	0	-5	short	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Northern Interior	0	0	0	no goal
Northern Outer	5	0	-5	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Southeastern Coastal Plain Xeric Longleaf Pine Sandhill

CEGR032010

Pinelands

ECOREGION TOTAL	5	0	-5	short
Northern Interior	0	0	0	no goal
Northern Outer	2	0	-2	short
Southern Interior	0	0	0	no goal
Southern Outer	3	0	-3	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Sporobolus ozarkanus - Diodia teres - Croton willdenowii - Ruellia

CEGL004276

humilis Herbaceous Vegetation

ECOREGION TOTAL	25	2	-23	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	25	2	-23	short

Talinum teretifolium - Portulaca smallii - (Lindernia monticola)

CEGL004299

Herbaceous Vegetation

ECOREGION TOTAL	0	3	3	exceed
Northern Interior	0	3	3	exceed
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Tilia americana var. heterophylla - Fraxinus americana - (Ulmus

CEGL007711

rubra) / Sanguinaria canadensis - (Aquilegia canadensis,**Asplenium rhizophyllum) Fores**

ECOREGION TOTAL	10	3	-7	short
Northern Interior	5	2	-3	short
Northern Outer	0	0	0	no goal
Southern Interior	5	1	-4	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Tsuga canadensis - Acer rubrum - (Liriodendron tulipifera, Nyssa

CEGL007565

sylvatica) / Rhododendron maximum / Sphagnum spp. Forest

ECOREGION TOTAL	5	0	-5	short
Northern Interior	5	0	-5	short

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Tsuga caroliniana - (Tsuga canadensis) / Rhododendron

CEGL007138

maximum Forest

ECOREGION TOTAL	5	1	-4	short
Northern Interior	5	1	-4	short
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Tsuga caroliniana - Pinus (rigida, pungens) Forest

CEGL006178

ECOREGION TOTAL	8	0	-8	short
Northern Interior	8	0	-8	short
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

**Tsuga caroliniana / Kalmia latifolia - Rhododendron catawbiense
Forest**

CEGL007139

ECOREGION TOTAL	8	3	-5	short
Northern Interior	4	3	-1	short
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	4	0	-4	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

unclassified VA community

CEGL00XXXX

ECOREGION TOTAL	10	4	-6	short
Northern Interior	0	0	0	no goal
Northern Outer	10	4	-6	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

Upland pools

CEGR0YYYY

ECOREGION TOTAL	5	3	-2	short
Northern Interior	0	0	0	no goal
Northern Outer	5	3	-2	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
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VA community

CEGL006572

ECOREGION TOTAL	10	5	-5	short
Northern Interior	5	2	-3	short
Northern Outer	5	1	-4	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	2	2	exceed
Triassic Upland	0	0	0	no goal

Zizaniopsis miliacea Rocky Riverbed Herbaceous Vegetation

CEGL004140

ECOREGION TOTAL	5	0	-5	short
Northern Interior	0	0	0	no goal
Northern Outer	5	0	-5	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

PLANTS

AGALINIS AURICULATA

PDSCR01130

ECOREGION TOTAL	10	3	-7	short
Northern Interior	2	0	-2	short
Northern Outer	2	1	-1	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	6	2	-4	short
Triassic Upland	0	0	0	no goal

ALLIUM SPECULAE

PMLIL02290

ECOREGION TOTAL	0	1	1	exceed
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	1	1	exceed
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

AMORPHA SCHWERINII

PDFAB080E0

ECOREGION TOTAL	25	25	0	met-exactly
Northern Interior	5	1	-4	short
Northern Outer	10	21	11	exceed
Southern Interior	2	1	-1	short
Southern Outer	8	2	-6	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
AMPHIANTHUS PUSILLUS					PDSCR02010
ECOREGION TOTAL	25	21	-4	short	
Northern Interior	0	0	0	no goal	
Northern Outer	5	1	-4	short	
Southern Interior	5	3	-2	short	
Southern Outer	15	17	2	exceed	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
AMSONIA LUDOVICIANA					PDAP0030C0
ECOREGION TOTAL	25	1	-24	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	25	1	-24	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
ARABIS GEORGIANA					PDBRA060N0
ECOREGION TOTAL	10	0	-10	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	2	0	-2	short	
Southern Outer	8	0	-8	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
ASTER AVITUS (Eurybia)					PDAST0T070
ECOREGION TOTAL	25	10	-15	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	5	1	-4	short	
Southern Outer	20	9	-11	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
ASTER DEPAUPERATUS (Symphyotrichum)					PDAST0T0T0
ECOREGION TOTAL	5	0	-5	short	
Northern Interior	5	0	-5	short	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
ASTER GEORGIANUS					PDAST0T180
ECOREGION TOTAL	20	22	2	exceed	
Northern Interior	0	0	0	no goal	
Northern Outer	5	19	14	exceed	
Southern Interior	5	3	-2	short	
Southern Outer	10	0	-10	short	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

ASTER PARVICEPS

PDAST0T270

ECOREGION TOTAL	10	3	-7	short
Northern Interior	0	0	0	no goal
Northern Outer	5	0	-5	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	5	3	-2	short

BAPTISIA MEGACARPA

PDFAB0G0F0

ECOREGION TOTAL	5	0	-5	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	5	0	-5	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

CARDAMINE MICRANTHERA

PDBRA0K0P0

ECOREGION TOTAL	25	25	0	met-exactly
Northern Interior	22	25	3	exceed
Northern Outer	3	0	-3	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

CAREX IMPRESSINERVIA

PMCYP03FB0

ECOREGION TOTAL	10	1	-9	short
Northern Interior	0	0	0	no goal
Northern Outer	10	1	-9	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

CRATAEGUS TRIFLORA

PDR0S0H540

ECOREGION TOTAL	5	0	-5	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	5	0	-5	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

CUSCUTA HARPERI

PDCUS010U0

ECOREGION TOTAL	10	3	-7	short
Northern Interior	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	10	3	-7	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

DRABA APRICA

PDBRA11060

ECOREGION TOTAL	12	11	-1	short
Northern Interior	0	0	0	no goal
Northern Outer	2	1	-1	short
Southern Interior	2	3	1	exceed
Southern Outer	8	7	-1	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

ECHINACEA LAEVIGATA

PDAST38030

ECOREGION TOTAL	20	31	11	exceed
Northern Interior	5	2	-3	short
Northern Outer	5	3	-2	short
Southern Interior	5	20	15	exceed
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	5	6	1	exceed

ELLIOTTIA RACEMOSA

PDERI0C010

ECOREGION TOTAL	2	1	-1	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	2	1	-1	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

ERIOCAULON KOERNICKIANUM

PMERI01040

ECOREGION TOTAL	20	6	-14	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	20	6	-14	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

FIMBRISTYLIS BREVIVAGINATA

PMCYP0B0V0

ECOREGION TOTAL	20	2	-18	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	20	2	-18	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
HELIANTHUS SCHWEINITZII					PDAST4N1C0
ECOREGION TOTAL	25	31	6	exceed	
Northern Interior	0	0	0	no goal	
Northern Outer	23	30	7	exceed	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	2	1	-1	short	
HEXASTYLIS NANIFLORA					PDARI03060
ECOREGION TOTAL	28	20	-8	short	
Northern Interior	7	11	4	exceed	
Northern Outer	7	5	-2	short	
Southern Interior	7	0	-7	short	
Southern Outer	7	4	-3	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
HEXASTYLIS SHUTTLEWORTHII VAR HARPERI					PDARI03071
ECOREGION TOTAL	20	1	-19	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	15	0	-15	short	
Southern Outer	5	1	-4	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
HYMENOCALLIS CORONARIA					PMLIL15040
ECOREGION TOTAL	25	20	-5	short	
Northern Interior	0	0	0	no goal	
Northern Outer	5	4	-1	short	
Southern Interior	10	6	-4	short	
Southern Outer	10	10	0	met-exactly	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
HYPERICUM ADPRESSUM					PDCLU03010
ECOREGION TOTAL	5	0	-5	short	
Northern Interior	0	0	0	no goal	
Northern Outer	5	0	-5	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
ISOETES MELANOSPORA					PPISO010E0
ECOREGION TOTAL	24	7	-17	short	
Northern Interior	0	0	0	no goal	
Northern Outer	2	0	-2	short	
Southern Interior	2	0	-2	short	
Southern Outer	20	7	-13	short	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

ISOETES TEGETIFORMANS

PPISO010L0

ECOREGION TOTAL	25	6	-19	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	2	0	-2	short
Southern Outer	23	6	-17	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

ISOETES VIRGINICA

PPISO010P0

ECOREGION TOTAL	20	2	-18	short
Northern Interior	0	0	0	no goal
Northern Outer	12	2	-10	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	8	0	-8	short

ISOTRIA MEDEOLOIDES

PMORC1F010

ECOREGION TOTAL	10	18	8	exceed
Northern Interior	5	17	12	exceed
Northern Outer	5	1	-4	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

JUNCUS CAESARIENSIS

PMJUN010K0

ECOREGION TOTAL	5	1	-4	short
Northern Interior	0	0	0	no goal
Northern Outer	5	1	-4	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

JUNIPERUS COMMUNIS VAR DEPRESSA

PGCUP05031

ECOREGION TOTAL	10	3	-7	short
Northern Interior	0	0	0	no goal
Northern Outer	5	3	-2	short
Southern Interior	0	0	0	no goal
Southern Outer	5	0	-5	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

LINDERA SUBCORIACEA

PDLAU07030

ECOREGION TOTAL	10	1	-9	short
Northern Interior	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Northern Outer	5	1	-4	short
Southern Interior	0	0	0	no goal
Southern Outer	5	0	-5	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

LOTUS UNIFOLIOLATUS VAR HELLERI

PDFAB2A1H2

ECOREGION TOTAL	25	23	-2	short
Northern Interior	0	0	0	no goal
Northern Outer	18	19	1	exceed
Southern Interior	0	0	0	no goal
Southern Outer	2	0	-2	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	5	4	-1	short

LYSIMACHIA FRASERI

PDPRI07070

ECOREGION TOTAL	10	2	-8	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	8	2	-6	short
Southern Outer	2	0	-2	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

MARSHALLIA RAMOSA

PDAST68060

ECOREGION TOTAL	1	1	0	met-exactly
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	1	1	0	met-exactly
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

MARSHALLIA SP 1

PDAST68090

ECOREGION TOTAL	25	1	-24	short
Northern Interior	0	0	0	no goal
Northern Outer	2	0	-2	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	23	1	-22	short

MINUARTIA GROENLANDICA

PDCAR0G0E0

ECOREGION TOTAL	5	4	-1	short
Northern Interior	5	4	-1	short
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
ORTHOTRICHUM KEEVERAE					NBMUS560G0
ECOREGION TOTAL	25	9	-16	short	
Northern Interior	25	9	-16	short	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
PHACELIA COVILLEI					PDHYD0C530
ECOREGION TOTAL	20	9	-11	short	
Northern Interior	0	0	0	no goal	
Northern Outer	15	7	-8	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	5	2	-3	short	
PLANTAGO CORDATA					PDPLN02090
ECOREGION TOTAL	10	2	-8	short	
Northern Interior	0	0	0	no goal	
Northern Outer	10	2	-8	short	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
PLATANThERA INTEGRILABIA					PMORC1Y0D0
ECOREGION TOTAL	10	3	-7	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	5	3	-2	short	
Southern Outer	5	0	-5	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
PORTULACA SMALLII					PDPOR060H0
ECOREGION TOTAL	10	16	6	exceed	
Northern Interior	0	0	0	no goal	
Northern Outer	10	15	5	exceed	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	1	1	exceed	
PORTULACA UMBRATICOLA SSP CORONATA					PDPOR060L2
ECOREGION TOTAL	10	0	-10	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	10	0	-10	short	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

PTILIMNIUM NODOSUM

PDAP11Y040

ECOREGION TOTAL	20	2	-18	short
Northern Interior	0	0	0	no goal
Northern Outer	10	2	-8	short
Southern Interior	0	0	0	no goal
Southern Outer	5	0	-5	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	5	0	-5	short

PYCNANTHEMUM CLINOPODIOIDES

PDLAM1N030

ECOREGION TOTAL	10	0	-10	short
Northern Interior	5	0	-5	short
Northern Outer	5	0	-5	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

PYCNANTHEMUM CURVIPES

PDLAM1N040

ECOREGION TOTAL	10	2	-8	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	5	1	-4	short
Southern Outer	5	1	-4	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

PYCNANTHEMUM TORREI

PDLAM1N0G0

ECOREGION TOTAL	10	5	-5	short
Northern Interior	4	2	-2	short
Northern Outer	4	2	-2	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	2	1	-1	short
Triassic Upland	0	0	0	no goal

QUERCUS OGLETHORPENSIS

PDFAG051M0

ECOREGION TOTAL	25	2	-23	short
Northern Interior	0	0	0	no goal
Northern Outer	2	0	-2	short
Southern Interior	0	0	0	no goal
Southern Outer	23	2	-21	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

RHODODENDRON PRUNIFOLIUM

PDER150Q0

ECOREGION TOTAL	10	2	-8	short
Northern Interior	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	10	2	-8	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

RHUS MICHAUXII

PDANA08070

ECOREGION TOTAL	20	10	-10	short
Northern Interior	0	0	0	no goal
Northern Outer	10	9	-1	short
Southern Interior	5	0	-5	short
Southern Outer	5	1	-4	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

RIBES ECHINELLUM

PDGRO020G0

ECOREGION TOTAL	10	3	-7	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	10	3	-7	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

SABATIA CAPITATA

PDGEN0F090

ECOREGION TOTAL	5	0	-5	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	5	0	-5	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

SAGITTARIA FASCICULATA

PMALI04090

ECOREGION TOTAL	25	9	-16	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	20	8	-12	short
Southern Outer	5	1	-4	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

SCHISANDRA GLABRA

PDSCH01020

ECOREGION TOTAL	15	3	-12	short
Northern Interior	0	0	0	no goal
Northern Outer	5	1	-4	short
Southern Interior	5	1	-4	short
Southern Outer	5	1	-4	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
SCHWALBEA AMERICANA					PDSCR1Q010
ECOREGION TOTAL	5	0	-5	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	5	0	-5	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
SCUTELLARIA OCMULGEE					PDLAM1U0Z0
ECOREGION TOTAL	10	0	-10	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	10	0	-10	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
SEDUM NEVII					PDCRA0A0Q0
ECOREGION TOTAL	10	0	-10	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	5	0	-5	short	
Southern Outer	5	0	-5	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
SEDUM PUSILLUM					PDCRA0A130
ECOREGION TOTAL	25	22	-3	short	
Northern Interior	0	0	0	no goal	
Northern Outer	4	4	0	met-exactly	
Southern Interior	1	0	-1	short	
Southern Outer	20	18	-2	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
SHORTIA GALACIFOLIA					PDD1A04010
ECOREGION TOTAL	0	0	0	no goal	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
SIDA HERMAPHRODITA					PDMAL100C0
ECOREGION TOTAL	10	1	-9	short	
Northern Interior	6	1	-5	short	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	0	0	0	no goal	

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Triassic Lowland	4	0	-4	short
Triassic Upland	0	0	0	no goal

SIDA INFLEXA

PDMAL100D0

ECOREGION TOTAL	10	0	-10	short
Northern Interior	0	0	0	no goal
Northern Outer	10	0	-10	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

SILENE POLYPETALA

PDCAR0U1E0

ECOREGION TOTAL	20	3	-17	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	20	3	-17	short
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

SISYRINCHIUM DICHOTOMUM

PMIRI0D1D0

ECOREGION TOTAL	20	7	-13	short
Northern Interior	10	1	-9	short
Northern Outer	0	0	0	no goal
Southern Interior	10	6	-4	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

SOLANUM CAROLINENSE VAR HIRSUTUM (PUMILUM)

PDSOL0Z093

ECOREGION TOTAL	10	0	-10	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	10	0	-10	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

SOLIDAGO PLUMOSA

PDAST8P1D0

ECOREGION TOTAL	25	2	-23	short
Northern Interior	0	0	0	no goal
Northern Outer	25	2	-23	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

SPHAGNUM CYCLOPHYLLUM

NBMUS6Z090

ECOREGION TOTAL	0	0	0	no goal
Northern Interior	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

STACHYS SP 1

PDLAM1X160

ECOREGION TOTAL	25	4	-21	short
Northern Interior	0	0	0	no goal
Northern Outer	25	4	-21	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

TALINUM MENGESII

PDPOR080C0

ECOREGION TOTAL	20	3	-17	short
Northern Interior	10	2	-8	short
Northern Outer	10	0	-10	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	1	1	exceed

TALINUM TERETIFOLIUM

PDPOR080K0

ECOREGION TOTAL	0	0	0	no goal
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

TRILLIUM PERSISTENS

PMLIL200N0

ECOREGION TOTAL	25	5	-20	short
Northern Interior	0	0	0	no goal
Northern Outer	0	0	0	no goal
Southern Interior	25	5	-20	short
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

TRILLIUM PUSILLUM VAR PUSILLUM

PMLIL200Q2

ECOREGION TOTAL	5	0	-5	short
Northern Interior	0	0	0	no goal
Northern Outer	5	0	-5	short
Southern Interior	0	0	0	no goal
Southern Outer	0	0	0	no goal
Triassic Lowland	0	0	0	no goal
Triassic Upland	0	0	0	no goal

<u>Stratification Unit</u>	<u>Goal</u>	<u>Captured</u>	<u>Progress Toward Goal</u>	<u>Goal Status</u>	
TRILLIUM RELIQUUM					PMLIL200S0
ECOREGION TOTAL	20	2	-18	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	0	0	0	no goal	
Southern Outer	20	2	-18	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	
WALDSTEINIA LOBATA					PDROS1S030
ECOREGION TOTAL	20	5	-15	short	
Northern Interior	0	0	0	no goal	
Northern Outer	0	0	0	no goal	
Southern Interior	10	2	-8	short	
Southern Outer	10	3	-7	short	
Triassic Lowland	0	0	0	no goal	
Triassic Upland	0	0	0	no goal	

Piedmont Ecoregion - Draft Terrestrial Conservation Areas

2/22/2006

<u>Conservation Area Number</u>	<u>State(s)</u>	<u>Site Name</u>	<u>Site Acres</u>	<u>Site Hectars</u>	<u>Site Type</u>	<u>Matrix Block Code</u>	<u>Matrix Block Tier</u>
1	AL	AL_'05buf#1	48.27	19.54	target driven site		
2	AL	AL_'05buf#2	48.27	19.54	target driven site		
3	AL	AL_'05buf#3	48.27	19.54	target driven site		
4	AL	Almond Outcrop	324.03	131.13	target driven site		
5	AL	Blake's Ferry	60.49	24.48	target driven site		
6	AL	Cheaha Mountain	15,874.07	6,424.01	matrix site	Cheaha	1
7	AL	Lower Hatchet Creek/Coosa WMA	162,553.50	65,783.07	matrix site	LowerHa	1
8	AL	Oseligee Creek	18,884.30	7,642.20	matrix site	Oselige	1
9	AL	Sandy Creek Block	14,016.59	5,672.31	matrix site	Sandy C	1
10	AL	Tiller's Outcrop	71.46	28.92	target driven site		
11	AL	Upper Hatchet Creek	28,977.38	11,726.73	matrix site	Upper H	1
12	AL	Weoka Creek	13,173.34	5,331.06	matrix site	Weoka C	1
13	GA-SC	Tallulah Gorge/Panther Creek	40,408.89	16,352.90	matrix site	Tallula	1
14	GA	Amicalola Creek/Dawson Forest/Etowah River	44,490.65	18,004.73	matrix site	Amicalo	1
15	GA	Arabia Mtn.	739.48	299.26	target driven site		
16	GA	Briscoe Field - W. lobata Site	59.83	24.21	target driven site		
17	GA	Broad River	52,595.58	21,284.68	matrix site	Broad RA	1
18	GA	Burke Mtn. Site	3,028.62	1,225.64	target driven site		
19	GA	Cornish Mountain	88.47	35.80	target driven site		
20	GA	Camp Meeting Rock Site	3,205.85	1,297.36	target driven site		
21	GA	Carters Lake/Mountaintown Creek	38,293.95	15,497.01	matrix site	Carters	1
22	GA	Colaparchee Creek - T. reliquum	17.58	7.12	target driven site		
23	GA	Eatonton Outcrop	57.13	23.12	target driven site		
24	GA	Flat Shoals Creek	207.54	83.99	target driven site		
25	GA	Flint River Watergap	57,856.60	23,413.74	matrix site	Flint R	1
26	GA	GA_'05buf#10	48.27	19.54	target driven site		
27	GA	GA_'05buf#11	48.27	19.54	target driven site		
28	GA	GA_'05buf#12	63.96	25.88	target driven site		
29	GA	GA_'05buf#13	48.27	19.54	target driven site		
30	GA	GA_'05buf#14	48.27	19.54	target driven site		
31	GA	GA_'05buf#15	48.27	19.54	target driven site		
32	GA	GA_'05buf#16	48.27	19.54	target driven site		
33	GA	GA_'05buf#17	48.27	19.54	target driven site		
34	GA	GA_'05buf#18	48.27	19.54	target driven site		

<u>Conservation Area Number</u>	<u>State(s)</u>	<u>Site Name</u>	<u>Site Acres</u>	<u>Site Hectars</u>	<u>Site Type</u>	<u>Matrix Block Code</u>	<u>Matrix Block Tier</u>
35	GA	GA_'05buf#19	48.27	19.54	target driven site		
36	GA	GA_'05buf#20	48.27	19.54	target driven site		
37	GA	GA_'05buf#21	48.27	19.54	target driven site		
38	GA	GA_'05buf#4	48.27	19.54	target driven site		
39	GA	GA_'05buf#5	48.27	19.54	target driven site		
40	GA	GA_'05buf#6	48.27	19.54	target driven site		
41	GA	GA_'05buf#7	71.04	28.75	target driven site		
42	GA	GA_'05buf#8	48.27	19.54	target driven site		
43	GA	GA_'05buf#9	48.27	19.54	target driven site		
44	GA	Heggie's Rock Site	3,158.98	1,278.39	target driven site		
45	GA	Ila Bog	78.85	31.91	target driven site		
46	GA	Lake Russell WMA	17,021.18	6,888.23	target driven site		
47	GA	Lake Russell WMA	26,561.28	10,748.98	matrix site	Lake Ru	1
48	GA	Little River/Clark Hill WMA	26,037.66	10,537.07	matrix site	LittleA	1
49	GA	Little River/Clark Hill WMA	16,796.55	6,797.32	matrix site	LittleF	1
50	GA	Middle Portion Oconee N.F.	40,436.07	16,363.90	matrix site	MidPort	2
51	GA	Mountain Rock South	144.01	58.28	target driven site		
52	GA	Northern Portion Oconee N.F.	12,864.21	5,205.96	matrix site	NoOconA	1
53	GA	Northern Portion Oconee N.F.	6,907.67	2,795.44	matrix site	NoOconB	2
54	GA	Northern Portion Oconee N.F.	78,640.12	31,824.53	matrix site	NoOconC	1
55	GA	Panola Mtn.	631.48	255.55	target driven site		
56	GA	Paulding Forest/Cartersville Fault/Sheffield WMA	39,373.59	15,933.93	matrix site	PauldinD	1
57	GA	Paulding Forest/Cartersville Fault/Sheffield WMA	12,722.48	5,148.61	matrix site	PauldinH	1
58	GA	Paulding Forest/Cartersville Fault/Sheffield WMA	22,547.55	9,124.67	matrix site	PauldinI	99
59	GA	Pine Log Mountain	27,990.57	11,327.39	matrix site	Pine Lo	1
60	GA	Pine Log Mtn.	669.04	270.75	target driven site		
61	GA	Pine Mountain	12,959.35	5,244.46	matrix site	Pine MoA	1
62	GA	Pine Mountain	13,278.89	5,373.78	matrix site	Pine MoB	1
63	GA	Pine Mtn. addition #1	1,231.96	498.56	target driven site		
64	GA	Pine Mtn. addition #2	13,746.40	5,562.97	target driven site		
65	GA	Pine Mtn. addition #3	20,967.73	8,485.34	target driven site		
66	GA	Pits West	80.40	32.54	target driven site		
67	GA	Pumpkinvine Creek - check EOs	25,180.21	10,190.07	matrix site	Pumpkin	1
68	GA	Rock of the Ages	499.93	202.31	target driven site		
69	GA	Sawnee Mtn.	2,020.15	817.53	target driven site		
70	GA	Stone Mtn.	1,043.10	422.13	target driven site		

<u>Conservation Area Number</u>	<u>State(s)</u>	<u>Site Name</u>	<u>Site Acres</u>	<u>Site Hectars</u>	<u>Site Type</u>	<u>Matrix Block Code</u>	<u>Matrix Block Tier</u>
71	GA	Tribble Mill Park	6.45	2.61	target driven site		
72	GA	Tribble Mill Rec. Area	3.91	1.58	target driven site		
73	GA	Upper Chattahoochee River/Yonah Mountain/Dukes Creek	52,690.82	21,323.22	matrix site	Upper	1
74	GA	Veazey Outcrop	86.75	35.11	target driven site		
75	MD	Catoctin Mtn.	5,229.59	2,116.34	matrix site	CatoctinB	99
76	MD	MD_'05buf#22	48.27	19.54	target driven site		
77	MD	Sugarloaf Mtn.	14,023.22	5,675.00	matrix site	Sugarlo	1
78	NC-SC	King's Mountain	33,379.74	13,508.30	matrix site	KingMtn	1
79	NC-VA	Beaver Pond Creek Flatwoods	238.73	96.61	target driven site		
80	NC-VA	Northern Blue Ridge Escarpment	72,093.59	29,175.24	matrix site	NoBlueC	1
81	NC-VA	Upper Dan Watershed/Sauratown/Mayo Watershed	161,792.38	65,475.06	matrix & target	Upper D	1
82	NC	Adam Mountain	45.73	18.51	target driven site		
83	NC	Allison Woods	518.68	209.90	target driven site		
84	NC	Armstrong Ford	116.43	47.12	target driven site		
85	NC	Bald Mountain	140.47	56.85	target driven site		
86	NC	Beatties Ford Road Basic Forest	189.35	76.63	target driven site		
87	NC	Beaverdam Lake Swamps and Arkose Outcrops	808.76	327.29	target driven site		
88	NC	Bell Farm Bigleaf Magnolia Slopes	94.22	38.13	target driven site		
89	NC	Big Island Carolina Hemlock Bluff and Natural Area	216.89	87.77	target driven site		
90	NC	Big Peachtree Creek Flatrock	6.50	2.63	target driven site		
91	NC	Big Woods Road Upland Forests	14.77	5.98	target driven site		
92	NC	Bog Flatrock	19.65	7.95	target driven site		
93	NC	Boones Cave Slopes	118.35	47.90	target driven site		
94	NC	Brice Rare Plant Site	256.83	103.94	target driven site		
95	NC	Broad River/Sandy Run Natural Areas	1,624.26	657.31	target driven site		
96	NC	Buffalo Creek Rare Plant Site	329.00	133.14	target driven site		
97	NC	Bunn Flatrock	10.35	4.19	target driven site		
98	NC	Baker's Mountain/Jacob's Fork	13,394.36	5,420.51	matrix site	Baker's	1
99	NC	Brown's Creek	6,292.77	2,546.59	matrix site	Brown'sA	99
100	NC	Brown's Creek	10,659.39	4,313.70	matrix site	Brown'sB	1
101	NC	Brown's Creek	5,383.39	2,178.58	matrix site	Brown'sC	99
102	NC	Brushy Mountains	5,252.60	2,125.65	matrix site	BrushyA	2
103	NC	Butner	87,134.42	35,262.05	matrix site	Butner	1
104	NC	Cane Creek Mountain	538.20	217.80	target driven site		
105	NC	Carbonton Diabase Sill	104.50	42.29	target driven site		

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106	NC	Carters Creek Forest	323.37	130.86	target driven site		
107	NC	Cedar Terrace Bottoms	149.18	60.37	target driven site		
108	NC	Chandler Road Basic Ridge	88.05	35.63	target driven site		
109	NC	Concord Ring Dike/Jackson School Natural Area	13.42	5.43	target driven site		
110	NC	Couch Mountain	178.97	72.43	target driven site		
111	NC	County Line Flatrocks	27.53	11.14	target driven site		
112	NC	Crooked Run Wildlife Management Area	545.74	220.85	target driven site		
113	NC	Cane Creek Mtns.	10,122.13	4,096.28	matrix site	Cane Cr	1
114	NC	Carolina Birdfoot Trefoil Site 1	405.75	164.20	target driven site		
115	NC	Carolina Birdfoot Trefoil Site 2	420.45	170.15	target driven site		
116	NC	Caswell Gamelands	57,028.29	23,078.53	matrix & target	CaswellA	1
117	NC	Caswell Gamelands	20,387.73	8,250.62	matrix site	CaswellB	2
118	NC	Deep Bottom Branch Bluffs	71.19	28.81	target driven site		
119	NC	Duke Forest Oak-Hickory Upland	86.63	35.06	target driven site		
120	NC	Deep River/Pocket Creek	68,517.81	27,728.17	matrix site	Deep Ri	1
121	NC	E. Uwharrie	591.82	239.50	matrix site	E. UwhaA	99
122	NC	E. Uwharrie	26,412.98	10,688.96	matrix site	E. UwhaB	1
123	NC	E. Uwharrie	3,101.47	1,255.12	matrix site	E. UwhaC	99
124	NC	Eli Whitney Rich Slopes	173.24	70.11	target driven site		
125	NC	Eno River Diabase Sill	30.30	12.26	target driven site		
126	NC	East of Whitehall N.P.	159.88	64.70	target driven site		
127	NC	Eno Wilderness	9,661.26	3,909.77	matrix site	Eno WilA	2
128	NC	Eno Wilderness	1,025.11	414.85	matrix site	Eno WilB	99
129	NC	Fitzgerald Woodland	122.34	49.51	target driven site		
130	NC	Flat Swamp Gabbro Forest	375.50	151.96	target driven site		
131	NC	Fourth Creek Floodplain Pool	50.22	20.32	target driven site		
132	NC	Friedburg Marsh	4.62	1.87	target driven site		
133	NC	Fishing Creek	101,411.34	41,039.71	matrix site	FishingA	1
134	NC	Fishing Creek	13,696.89	5,542.94	matrix site	FishingB	2
135	NC	Gar Creek Rare Plant Site	56.54	22.88	target driven site		
136	NC	Gate 4 Mafic Forests	34.49	13.96	target driven site		
137	NC	Gate 9 Pond	12.23	4.95	target driven site		
138	NC	Griffen Hunt Preserve	6.53	2.64	target driven site		
139	NC	Gold Hill Flats	21,889.30	8,858.29	matrix & target	Gold Hi	1
140	NC	Goshen Gabbro	28,989.32	11,731.56	matrix site	Goshen	1
141	NC	Henry J Oosting Natural Area	205.85	83.30	target driven site		

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142	NC	Hensons Creek Ravine	42.44	17.18	target driven site		
143	NC	Hightower Hill	14.04	5.68	target driven site		
144	NC	Harris Lake Gamelands/Raven Rock S.P.	66,898.57	27,072.89	matrix site	HarrisD	1
145	NC	Heart of Uwharrie/Middle U./Pot. Corridor	292,532.90	118,383.86	matrix & target	Heart oA	1
146	NC	Heart of Uwharrie	2,702.16	1,093.52	matrix & target	Heart oC	99
147	NC	High Rock Ridge	10,965.65	4,437.64	matrix site	High Ro	1
148	NC	Hogan's Creek Watershed	16,919.30	6,847.00	matrix site	Hogan'sA	2
149	NC	Hogan's Creek Watershed	16,397.70	6,635.91	matrix site	Hogan'sB	2
150	NC	Indian Creek Hardood Forest	79.95	32.36	target driven site		
151	NC	Island Creek Heath Bluff	46.48	18.81	target driven site		
152	NC	Jackson Sunflower Site	17.28	7.00	target driven site		
153	NC	Jacobs Creek Slopes	14.51	5.87	target driven site		
154	NC	Jerusalem Road Basic Ridge	335.99	135.97	target driven site		
155	NC	Kinza Slate Bluffs	51.86	20.99	target driven site		
156	NC	Kross Keys Natural Area	123.76	50.09	target driven site		
157	NC	Kudzu Farm Rare Plant Site	67.22	27.21	target driven site		
158	NC	Lake Mirl Granitic Flatrock NC Buff Pnt #14	2.53	1.02	target driven site		
159	NC	Lake Raleigh Hardwood Forest	65.14	26.36	target driven site		
160	NC	Lake Rogers Diabase Area	13.13	5.31	target driven site		
161	NC	Lick Creek Bottomland Forest	65.35	26.45	target driven site		
162	NC	Little Creek Bottomlands	211.23	85.48	target driven site		
163	NC	Long Creek Slate Slopes	50.45	20.42	target driven site		
164	NC	Lyle Creek Corridor NC Buff Pnt # 18	107.59	43.54	target driven site		
165	NC	Linville Gorge Escarpment	3,072.72	1,243.48	matrix site	LinvillaA	99
166	NC	Linville Gorge Escarpment	11,550.81	4,674.45	matrix site	LinvillB	99
167	NC	Linville Gorge Escarpment	134,242.34	54,325.95	matrix site	LinvillC	1
168	NC	Lower Haw - White Pines	30,263.23	12,247.09	matrix site	Lower Ha	1
169	NC	McCoy Road Sunflower Site	10.28	4.16	target driven site		
170	NC	McDowell Nature Preserve	1,054.54	426.76	target driven site		
171	NC	Meadow Flats	233.45	94.47	target driven site		
172	NC	Middle Creek Bluffs and Floodplain	732.13	296.28	target driven site		
173	NC	Millseat Outcrop	10.42	4.22	target driven site		
174	NC	Mineral Springs Barrens	130.18	52.68	target driven site		
175	NC	Mitchells Mill State Natural Area	46.32	18.75	target driven site		
176	NC	Mountain Island Lake Dam Rare Plant Site East	21.55	8.72	target driven site		
177	NC	Mountain Island Lake Dam Rare Plant Site West	11.59	4.69	target driven site		

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178	NC	Murrays Mill Lake & Upper Balls Creek Nc Buff #21	101.41	41.04	target driven site		
179	NC	Mayo Watershed (connected to 67)	1,248.60	505.29	matrix site	Mayo WaA	99
180	NC	Mecklenburg County Site	14.67	5.94	target driven site		
181	NC	Morrow Mountain	1,421.43	575.23	target driven site		
182	NC	N. Uwharrie	54,709.54	22,140.17	matrix site	N. Uwha	1
183	NC	NC Buffered Point 10	48.27	19.54	target driven site		
184	NC	NC Buffered Point 11	48.27	19.54	target driven site		
185	NC	NC Buffered Point 12	48.27	19.54	target driven site		
186	NC	NC Buffered Point 13	48.27	19.54	target driven site		
187	NC	NC Buffered Point 15	48.27	19.54	target driven site		
188	NC	NC Buffered Point 16	48.27	19.54	target driven site		
189	NC	NC Buffered Point 17	48.27	19.54	target driven site		
190	NC	NC Buffered Point 19	48.27	19.54	target driven site		
191	NC	NC Buffered Point 2	48.27	19.54	target driven site		
192	NC	NC Buffered Point 22	48.27	19.54	target driven site		
193	NC	NC Buffered Point 25	48.27	19.54	target driven site		
194	NC	NC Buffered Point 26	48.27	19.54	target driven site		
195	NC	NC Buffered Point 27	48.27	19.54	target driven site		
196	NC	NC Buffered Point 3	48.27	19.54	target driven site		
197	NC	NC Buffered Point 32	48.27	19.54	target driven site		
198	NC	NC Buffered Point 34	48.27	19.54	target driven site		
199	NC	NC Buffered Point 35	48.27	19.54	target driven site		
200	NC	NC Buffered Point 37	48.27	19.54	target driven site		
201	NC	NC Buffered Point 38	48.27	19.54	target driven site		
202	NC	NC Buffered Point 39	48.27	19.54	target driven site		
203	NC	NC Buffered Point 4	48.27	19.54	target driven site		
204	NC	NC Buffered Point 40	48.39	19.58	target driven site		
205	NC	NC Buffered Point 41	48.27	19.54	target driven site		
206	NC	NC Buffered Point 42	48.27	19.54	target driven site		
207	NC	NC Buffered Point 5	48.27	19.54	target driven site		
208	NC	NC Buffered Point 6	48.27	19.54	target driven site		
209	NC	NC Buffered Point 7	48.27	19.54	target driven site		
210	NC	NC Buffered Point 8	48.27	19.54	target driven site		
211	NC	NC Buffered Point 9	48.27	19.54	target driven site		
212	NC	NC_'05buf#23	48.27	19.54	target driven site		
213	NC	NC_'05buf#24	48.27	19.54	target driven site		

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214	NC	NC_'05buf#25	48.27	19.54	target driven site		
215	NC	NC_'05buf#26	48.27	19.54	target driven site		
216	NC	NC_'05buf#27	48.27	19.54	target driven site		
217	NC	NC_'05buf#28	48.27	19.54	target driven site		
218	NC	NC_'05buf#29	48.27	19.54	target driven site		
219	NC	NC_'05buf#30	48.27	19.54	target driven site		
220	NC	NC_'05buf#31	48.27	19.54	target driven site		
221	NC	NC_'05buf#32	48.27	19.54	target driven site		
222	NC	Neely Road Swamps	67.51	27.32	target driven site		
223	NC	New Hope Creek Bottomland Forest	34.45	13.94	target driven site		
224	NC	New Hope Creek Floodplain Forest (Lower)	8.80	3.56	target driven site		
225	NC	New Hope Creek Slopes	491.91	199.07	target driven site		
226	NC	New Hope Overlook Bluff and Slopes	405.90	164.26	target driven site		
227	NC	New London Ridges	136.55	55.26	target driven site		
228	NC	Norris Creek Plant Site	23.01	9.31	target driven site		
229	NC	North Stanley Creek Basic Forest	127.20	51.48	target driven site		
230	NC	Northeast Creek Floodplain Forest	496.34	200.86	target driven site		
231	NC	North Big Peachtree Creek Flatrock	0.60	0.24	target driven site		
232	NC	Northern Blue Ridge Escarpment/Brushy Mountains	224,111.04	90,694.52	matrix & target	NoBlueA	1
233	NC	Northern Blue Ridge Escarpment	145,628.00	58,933.56	matrix site	NorBlueD	99
234	NC	Northside Diabase Area	3.00	1.21	target driven site		
235	NC	Oak Mountain Quartzite Ridge	147.58	59.72	target driven site		
236	NC	Old Quarry Creek	1.53	0.62	target driven site		
237	NC	Overton Rock	3.39	1.37	target driven site		
238	NC	Old Quarry Creek Uplands	6,629.16	2,682.73	target driven site		
239	NC	Palestine Rare Plant Site	11.40	4.61	target driven site		
240	NC	Pee Dee National Wildlife Refuge East	445.22	180.17	target driven site		
241	NC	Pickards Mountain	618.25	250.20	target driven site		
242	NC	Pilot Mountain State Park/Pilot Mountain Section	968.78	392.05	target driven site		
243	NC	Ridge Road Hardpan Forest	63.68	25.77	target driven site		
244	NC	Rock House Creek Slopes	85.67	34.67	target driven site		
245	NC	Rocky Branch Conglomerate Exposure	60.11	24.33	target driven site		
246	NC	Rocky Face Mountain	360.90	146.05	target driven site		
247	NC	Rocky River Corridor	158.45	64.12	target driven site		
248	NC	Rocky River/Morgans Bluff	27.98	11.32	target driven site		
249	NC	Rotten Creek Headwater Slopes	161.43	65.33	target driven site		

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250	NC	Roundhouse Road Forest	76.30	30.88	target driven site		
251	NC	Redlair Preserve	736.31	297.97	target driven site		
252	NC	Reed Gold Mine	14,574.21	5,897.98	matrix & target	Reed Go	2
253	NC	Rock House	87.08	35.24	target driven site		
254	NC	Salem Lake Natural Area	769.95	311.59	target driven site		
255	NC	Salisbury Nature Study Area	49.50	20.03	target driven site		
256	NC	Sandy Mush Outcrop	82.17	33.25	target driven site		
257	NC	Sandy Springs Church Springhead Swamp	22.48	9.10	target driven site		
258	NC	Savannah Church Diabase Dike	41.20	16.68	target driven site		
259	NC	Second Creek Wetlands	137.40	55.61	target driven site		
260	NC	Shaddox Creek Felsic Glades and Bottoms	98.34	39.80	target driven site		
261	NC	Shuffletown Powerline Rare Plant Sites	46.11	18.66	target driven site		
262	NC	Siceloff Bog	19.97	8.08	target driven site		
263	NC	South Butner Cedar Glades	6.92	2.80	target driven site		
264	NC	South Butner Diabase Swamp	99.19	40.14	target driven site		
265	NC	Stony Creek Flats	99.06	40.09	target driven site		
266	NC	Stony Creek Mountain	426.98	172.79	target driven site		
267	NC	South Mountains/Blue Ridge Connector	37,217.79	15,061.51	matrix & target	South MA	1
268	NC	South Mountains/Blue Ridge Connector	55,804.67	22,583.35	matrix site	South MB	1
269	NC	South Mountains/Blue Ridge Connector	142,812.04	57,793.98	matrix site	South MC	1
270	NC	Tabbs Creek Rich Slopes	272.52	110.28	target driven site		
271	NC	Tar River/Triassic Basin Floodplain	453.29	183.44	target driven site		
272	NC	Tar River/Wilton Slopes	1,444.26	584.47	target driven site		
273	NC	Temple Rock	4.60	1.86	target driven site		
274	NC	Third Fork Creek Wetlands	88.30	35.73	target driven site		
275	NC	Townsville Road Xeric Forest	104.45	42.27	target driven site		
276	NC	Tuckertown Bluffs	41.52	16.80	target driven site		
277	NC	Turnersburg Cliffs	90.79	36.74	target driven site		
278	NC	Upper Barton Creek Bluffs and Ravine	80.15	32.44	target driven site		
279	NC	Upper Neuse Floodplain	69.06	27.95	target driven site		
280	NC	Upper Jordan Lake	1,125.45	455.45	matrix site	UpJordA	99
281	NC	Upper Jordan Lake	2,387.46	966.17	matrix & target	UpJordB	99
282	NC	Upper Jordan Lake	15,891.97	6,431.25	matrix & target	Upper JC	1
283	NC	Walnut Creek Sumac Site	8.66	3.51	target driven site		
284	NC	West Big Peachtree Creek Flatrock	12.66	5.12	target driven site		
285	NC	Westinghouse Boulevard Upland Swamps	79.51	32.18	target driven site		

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286	NC	White Oak Creek Floodplain	170.44	68.97	target driven site		
287	NC	White Oak Creek Non-Alluvial Wetland	87.25	35.31	target driven site		
288	NC	Waxhaw Sunflower Site Extension	273.47	110.67	target driven site		
289	NC	White Oak Mtn./Tryon Peak	4,237.75	1,714.96	matrix site	White OA	99
290	NC	White Oak Mtn./Tryon Peak	16,664.21	6,743.77	matrix site	White OC	1
291	NC	Yadkin Islands Forest	143.74	58.17	target driven site		
292	NC	Zion Church/Eastern Gold Hill Flatwoods	74.38	30.10	target driven site		
293	SC-NC	Adams Creek	14,746.22	5,967.58	matrix site	Adams C	1
294	SC-NC	Blue Ridge Escarpment-Mountain Bridge (Jocassee	27,339.08	11,063.73	matrix site	Blue RiG	2
295	SC	Blue Ridge Escarpment-Mountain Bridge (Jocassee	19,748.91	7,992.10	matrix site	Blue RiD	2
296	SC	Blue Ridge Escarpment-Mountain Bridge (Jocassee	31,512.99	12,752.85	matrix site	Blue RiE	1
297	SC	Blue Ridge Escarpment-Mountain Bridge (Jocassee	22,783.04	9,219.97	matrix site	Blue RiF	1
298	SC	Blue Ridge Escarpment-Mountain Bridge (Jocassee	1,062.61	430.02	matrix site	Blue RiH	99
299	SC	Blue Ridge Escarpment-Mountain Bridge (Jocassee	457.02	184.95	matrix site	Blue RiJ	99
300	SC	Cedar Creek	18,741.30	7,584.33	matrix site	CedarCrk	1
301	SC	Landsford Canal S.P. - Catawba	19,437.60	7,866.12	matrix site	Landsfo	2
302	SC	Long Cane Creek/Big Bottoms/Parson's Mountain	23,337.54	9,444.37	matrix site	Long Ca	1
303	SC	Lynches River/Flat Creek Watershed	16,194.07	6,553.51	matrix site	Flat CrA	2
304	SC	Lynches River/Flat Creek Watershed	37,123.14	15,023.20	matrix site	Flat CrB	1
305	SC	Ninty-nine Island/Bullocks Creek	44,192.60	17,884.11	matrix site	Ninty_nA	2
306	SC	Pacolet River	33,083.66	13,388.48	matrix site	Pacolet	2
307	SC	Rock Hill Post Oak Savannah	2,685.29	1,086.70	target driven site		
308	SC	SC unnamed site # 1	218.90	88.59	target driven site		
309	SC	SC unnamed site # 10	340.69	137.87	target driven site		
310	SC	SC unnamed site # 11	19.35	7.83	target driven site		
311	SC	SC unnamed site # 2	1,806.41	731.03	target driven site		
312	SC	SC unnamed site # 3	0.00	0.00	target driven site		
313	SC	SC unnamed site # 4	54.28	21.97	target driven site		
314	SC	SC unnamed site # 5	6,657.34	2,694.13	target driven site		
315	SC	SC unnamed site # 6	1,820.85	736.87	target driven site		
316	SC	SC unnamed site # 7	405.16	163.96	target driven site		
317	SC	SC unnamed site # 8	312.18	126.34	target driven site		
318	SC	SC unnamed site # 9	249.70	101.05	target driven site		
319	SC	SC unnamed site #12	737.58	298.49	target driven site		
320	SC	SC_'05buf#33	48.27	19.54	target driven site		
321	SC	SC_'05buf#34	48.27	19.54	target driven site		

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322	SC	SC_'05buf#35	48.27	19.54	target driven site		
323	SC	SC_'05buf#36	48.27	19.54	target driven site		
324	SC	SC_'05buf#37	48.27	19.54	target driven site		
325	SC	SC_'05buf#38	48.27	19.54	target driven site		
326	SC	SC_'05buf#39	48.27	19.54	target driven site		
327	SC	SC_'05buf#40	48.27	19.54	target driven site		
328	SC	SC_'05buf#41	48.27	19.54	target driven site		
329	SC	SC_'05buf#42	48.27	19.54	target driven site		
330	SC	SC_'05buf#43	48.27	19.54	target driven site		
331	SC	SC_'05buf#44	48.27	19.54	target driven site		
332	SC	SC_'05buf#45	48.27	19.54	target driven site		
333	SC	South Sandy	10,996.39	4,450.08	matrix site	South S	1
334	SC	Steven's/Turkey Creek	41,630.28	16,847.18	matrix site	Steven'	2
335	SC	Sugar Creek Catawba Confluence	16,419.18	6,644.61	matrix site	Sugar C	1
336	SC	Turkey Creek	5,929.53	2,399.59	matrix site	TurkCrk	2
337	SC	Woods Ferry	18,875.02	7,638.45	matrix site	Woods FA	2
338	VA-NC	Cadwell Creek	187.44	75.85	target driven site		
339	VA-NC	Grassy Creek Flatwoods	202.28	81.86	target driven site		
340	VA	Aquia Creek Tributary Slopes	99.44	40.24	target driven site		
341	VA	Ashton Creek Marsh	246.36	99.70	target driven site		
342	VA	Bald Knob-Rocky Mount	96.72	39.14	target driven site		
343	VA	Balls Bluff Regional Park	133.53	54.04	target driven site		
344	VA	Big Hounds Creek Granite Flatrock	34.68	14.03	target driven site		
345	VA	Big Otter River North Slope Habitat Zone	221.48	89.63	target driven site		
346	VA	Bluestone Slopes	361.28	146.20	target driven site		
347	VA	Brier Mountain	1.62	0.66	target driven site		
348	VA	Buggs Island	166.86	67.52	target driven site		
349	VA	Bull Run Bluffs and Lowlands	182.53	73.87	target driven site		
350	VA	Bull Run Diabase Flatwoods	132.90	53.78	target driven site		
351	VA	Beaumont	50,799.46	20,557.81	matrix site	Beaumon	1
352	VA	Buffalo Station	40,439.93	16,365.46	matrix & target	BuffaloB	1
353	VA	Bull Run Mtns.	15,725.20	6,363.76	matrix & target	Bull Ru	1
354	VA	Camp Barrett Ravines	93.52	37.85	target driven site		
355	VA	Cannon Creek Grasslands	22.33	9.04	target driven site		
356	VA	Cargills Creek Wildlife Management Area	74.71	30.24	target driven site		
357	VA	Carriage Ford	128.04	51.82	target driven site		

<u>Conservation Area Number</u>	<u>State(s)</u>	<u>Site Name</u>	<u>Site Acres</u>	<u>Site Hectars</u>	<u>Site Type</u>	<u>Matrix Block Code</u>	<u>Matrix Block Tier</u>
358	VA	Cedar Grove Church Flatwoods Habitat Zone	179.12	72.49	target driven site		
359	VA	Chestnut Branch	118.35	47.90	target driven site		
360	VA	Chopawamsic Creek	2,397.60	970.27	target driven site		
361	VA	Catoctin Mtn.	9,896.29	4,004.89	matrix site	CatoctiA	99
362	VA	Chestnut Mtn.	41,371.14	16,742.31	matrix site	Chestnu	1
363	VA	Crabtree Falls	25,929.99	10,493.49	matrix site	Crabtre	99
364	VA	Culpeper Flatwoods	15,200.90	6,151.59	matrix & target	Culpepe	1
365	VA	Davids Crossroads Grasslands	290.72	117.65	target driven site		
366	VA	Dundas Granite Flatrock	50.94	20.62	target driven site		
367	VA	Difficult Creek	36,148.91	14,628.95	matrix & target	Difficu	2
368	VA	Eagle Point Flatwoods	44.81	18.14	target driven site		
369	VA	Eastern Elk Creek Tributary	0.83	0.34	target driven site		
370	VA	Elk Creek	246.48	99.75	target driven site		
371	VA	Elklick Diabase Flatwoods	1,548.37	626.60	target driven site		
372	VA	Farmville Flatwoods	55.19	22.33	target driven site		
373	VA	Fine Creek Mills	75.48	30.55	target driven site		
374	VA	Flatrock Branch	59.98	24.27	target driven site		
375	VA	Fort Picket Dove Field #6	35.13	14.22	target driven site		
376	VA	Fort Pickett Firing Point B-54	1.75	0.71	target driven site		
377	VA	Fort Pickett Impact Area Macrosite	310.67	125.72	target driven site		
378	VA	Forks of the Meherrin	40,552.57	16,411.04	matrix & target	Forks	2
379	VA	Ft Pickett	32,603.53	13,194.18	matrix & target	Ft Pick	1
380	VA	Gasburg Granite Flatrock	40.79	16.51	target driven site		
381	VA	Gilbert Mill	348.80	141.15	target driven site		
382	VA	Golf Course Granite Flatrock	19.72	7.98	target driven site		
383	VA	Grassy Hill	2,431.06	983.82	target driven site		
384	VA	Great Creek Forest	197.96	80.11	target driven site		
385	VA	Hobbs Chapel	7.72	3.13	target driven site		
386	VA	Hogan Creek Flatwoods	386.33	156.34	target driven site		
387	VA	Horsepen Run	80.79	32.70	target driven site		
388	VA	Hyco Landing	106.50	43.10	target driven site		
389	VA	Hyco River: US 501 to Rt. 744	2,825.14	1,143.30	target driven site		
390	VA	Headwaters of the Nottoway/Falls of the Nottoway	38,122.67	15,427.70	matrix & target	Headwat	1
391	VA	Jacks Creek	339.75	137.49	target driven site		
392	VA	James River Norwood Bluffs	11.24	4.55	target driven site		
393	VA	Johnson & Smith Mtns.	59,108.60	23,920.40	matrix site	Johnson	1

<u>Conservation Area Number</u>	<u>State(s)</u>	<u>Site Name</u>	<u>Site Acres</u>	<u>Site Hectars</u>	<u>Site Type</u>	<u>Matrix Block Code</u>	<u>Matrix Block Tier</u>
394	VA	Little Spoon Creek	245.80	99.47	target driven site		
395	VA	Long Branch	850.14	344.04	target driven site		
396	VA	Long Branch Granite Flatrock	28.60	11.58	target driven site		
397	VA	Lower Mount West	52.28	21.16	target driven site		
398	VA	Lower Roanoke (Staunton) River	5,271.75	2,133.40	target driven site		
399	VA	Lake Anna	22,775.41	9,216.88	matrix site	Lake An	2
400	VA	Manassas Diabase Uplands	1,829.59	740.41	target driven site		
401	VA	Markham Bottomland	247.99	100.36	target driven site		
402	VA	Mine Run Ravine	10.77	4.36	target driven site		
403	VA	Montpelier Forest	774.50	313.43	target driven site		
404	VA	Macon	24,449.04	9,894.17	matrix site	Macon	2
405	VA	Nokesville Diabase Flatwoods	903.78	365.75	target driven site		
406	VA	Northern Watery Mountains	369.43	149.50	target driven site		
407	VA	Nottoway Basin Macrosite	587.78	237.86	target driven site		
408	VA	Nottoway Basin SW	4.59	1.86	target driven site		
409	VA	Nottoway River - Fort Pickett SCU	65.50	26.50	target driven site		
410	VA	Nottoway - Tommeheton Divide	50.02	20.24	target driven site		
411	VA	North Anna	20,605.39	8,338.70	matrix site	North A	1
412	VA	Panhandle Creek	246.82	99.89	target driven site		
413	VA	Paton Island Shore	352.51	142.65	target driven site		
414	VA	Peters Creek Central	336.80	136.30	target driven site		
415	VA	Peters Creek Tributary at RT. 660	79.75	32.28	target driven site		
416	VA	Powells Creek Tributary	39.06	15.81	target driven site		
417	VA	Quantico/Prince William FP	40,649.36	16,450.21	matrix & target	QuanticC	1
418	VA	Rich Creek	110.80	44.84	target driven site		
419	VA	Roanoke River Bluff	98.34	39.80	target driven site		
420	VA	Rocky Mill Powerline	76.93	31.13	target driven site		
421	VA	RT. 610 Roadside	7.72	3.13	target driven site		
422	VA	Russell Road Slopes	68.75	27.82	target driven site		
423	VA	Sandy Creek	501.00	202.75	target driven site		
424	VA	Shoals Road	82.28	33.30	target driven site		
425	VA	Smith River RT. 682 Slopes	88.64	35.87	target driven site		
426	VA	Southern Bull Run Mountains	82.13	33.24	target driven site		
427	VA	Southern Culpepper Diabase Flatwoods	400.81	162.20	target driven site		
428	VA	Spoon Creek	605.28	244.95	target driven site		
429	VA	Swift Creek Marshes	768.08	310.83	target driven site		

<u>Conservation Area Number</u>	<u>State(s)</u>	<u>Site Name</u>	<u>Site Acres</u>	<u>Site Hectars</u>	<u>Site Type</u>	<u>Matrix Block Code</u>	<u>Matrix Block Tier</u>
430	VA	Seneca Creek	19,922.68	8,062.42	matrix & target	Seneca	1
431	VA	Smart View	30,066.54	12,167.50	matrix site	Smart V	1
432	VA	Southwest Mtns.	20,990.54	8,494.57	matrix site	Southwe	1
433	VA	Sugarloaf Mtn./Rockfish/Shields Gap	108,320.46	43,835.74	matrix site	SugaRoc	1
434	VA	Sweathouse Creek	36,249.74	14,669.75	matrix site	Sweatho	1
435	VA	Training Area 16 BT	19.09	7.73	target driven site		
436	VA	Thornton Mountain	20,136.65	8,149.01	matrix & target	Thornto	1
437	VA	Turkeycock Mtn.	78,389.02	31,722.91	matrix site	TurkMtn	1
438	VA	Upper Mine Run Tributary	68.53	27.73	target driven site		
439	VA	Upper Mount West	71.62	28.98	target driven site		
440	VA	VA_'05buf#XX	500.15	202.40	target driven site		
441	VA	Vulcan Gainesville Tract	271.99	110.07	target driven site		
442	VA	Vontay	17,277.79	6,992.07	matrix site	Vontay	2
443	VA	Warren Riverside	7.73	3.13	target driven site		
444	VA	Willis River Basic Slopes	640.19	259.08	target driven site		
445	VA	Wrights Corner South	82.06	33.21	target driven site		
446	VA	Watery Mtns.	16,567.29	6,704.54	matrix & target	Watery	1

Viable Target Capture in Draft Piedmont Terrestrial Conservation Areas

12/8/2005

<u>Conservation Area Number</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Matrix Block Code(if any)</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>EOCODE</u>	<u>GNAME</u>						
<u>1</u> PMLIL15040*034*AL	AL	AL_'05buf#1 HYMENOCALLIS CORONARIA		PMLIL15040		I	si
<u>2</u> PMLIL15040*040*AL	AL	AL_'05buf#2 HYMENOCALLIS CORONARIA		PMLIL15040		I	si
<u>3</u> PMORC1Y0D0*008*AL	AL	AL_'05buf#3 PLATANThERA INTEGRILABIA		PMORC1Y0D0		I	si
<u>4</u> PDSCR02010*002*AL PDSCR02010*003*AL	AL	Almond Outcrop AMPHIANThUS PUSILLUS AMPHIANThUS PUSILLUS		PDSCR02010 PDSCR02010		I I	si si
<u>5</u> PDSCR02010*004*AL	AL	Blake's Ferry AMPHIANThUS PUSILLUS		PDSCR02010		I	si
<u>7</u> PMLIL15040*012*AL PMLIL15040*013*AL PMLIL15040*033*AL	AL	Lower Hatchet Creek/Coosa WMA HYMENOCALLIS CORONARIA HYMENOCALLIS CORONARIA HYMENOCALLIS CORONARIA		PMLIL15040 PMLIL15040 PMLIL15040		I R V	si si si

**Conservation
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State Conservation Area Name

Matrix Block Code(if any)

EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

10 **AL** **Tiller's Outcrop**
PDCUS010U0*018*AL CUSCUTA HARPERI PDCUS010U0 I so

11 **AL** **Upper Hatchet Creek**
PMLIL15040*032*AL HYMENOCALLIS CORONARIA PMLIL15040 I si

13 **GA-SC** **Tallulah Gorge/Panther Creek**
CTMPX00020*021*SC Appalachian Highlands Mixed Mesophytic/Cove Forests CEGR042030 R si
PDAST38030*001*GA ECHINACEA LAEVI GATA PDAST38030 I si
PDAST38030*013*GA ECHINACEA LAEVI GATA PDAST38030 I si
PDAST38030*021*GA ECHINACEA LAEVI GATA PDAST38030 R si
PDPRI07070*006*GA LYSIMACHIA FRASERI PDPRI07070 R si
PDROS1S030*010*GA WALDSTEINIA LOBATA PDROS1S030 R si
PDROS1S030*014*GA WALDSTEINIA LOBATA PDROS1S030 R si
PDSCH01020*002*GA SCHISANDRA GLABRA PDSCH01020 R si
PMLIL200N0*001*GA TRILLIUM PERSISTENS PMLIL200N0 I si
PMLIL200N0*002*GA TRILLIUM PERSISTENS PMLIL200N0 I si
PMLIL200N0*004*GA TRILLIUM PERSISTENS PMLIL200N0 I si
PMLIL200N0*005*GA TRILLIUM PERSISTENS PMLIL200N0 I si
PMORC1Y0D0*003*GA PLATANThERA INTEGRILABIA PMORC1Y0D0 I si
proto records Appalachian Highlands Pitch and Table Mountain Pine Woodlands CEGR040180 R si

15 **GA** **Arabia Mtn.**
PDAST0T070*046*GA ASTER AVITUS PDAST0T070 R so
PDSCR02010*020*GA AMPHIANThUS PUSILLUS PDSCR02010 I so
PDSCR02010*022*GA AMPHIANThUS PUSILLUS PDSCR02010 V so
PPISO010E0*002*GA ISOETES MELANOSPORA PPISO010E0 I so
PPISO010E0*008*GA ISOETES MELANOSPORA PPISO010E0 R so

**Conservation
Area Number**

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Viability Rank

Stratification Unit A

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>16</u>	GA				
Briscoe Field - W. lobata Site					
PDROS1S030*006*GA	WALDSTEINIA LOBATA		PDROS1S030	I	so
<u>17</u>	GA				
Broad River					
PDANA08070*002*GA	RHUS MICHAUXII		PDANA08070	R	so
<u>18</u>	GA				
Burke Mtn. Site					
CUH0000000*002*GA	Pinus palustris - Pinus echinata / Schizachyrium scoparium - Manfreda virginica Serpentine Woodland		CEGL003608	I	so
CUH0000000*003*GA	Pinus palustris - Pinus echinata / Schizachyrium scoparium - Manfreda virginica Serpentine Woodland		CEGL003608	I	so
PDAST68060*001*GA	MARSHALLIA RAMOSA		PDAST68060	I	so
<u>19</u>	GA				
CORNISH MOUNTAIN					
CUH0000000*001*GA	Appalachian Highlands Xeric Oak Forests		CEGR040110	R	so
<u>20</u>	GA				
Camp Meeting Rock Site					
PDCUS010U0*003*GA	CUSCUTA HARPERI		PDCUS010U0	I	so
PDCUS010U0*004*GA	CUSCUTA HARPERI		PDCUS010U0	V	so
PDSCR02010*035*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	I	so
PDSCR02010*050*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	R	so
PPISO010E0*013*GA	ISOETES MELANOSPORA		PPISO010E0	I	so
PPISO010E0*014*GA	ISOETES MELANOSPORA		PPISO010E0	I	so

<u>Conservation Area Number</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>Matrix Block Code(if any)</u>			
<u>EOCODE</u>	<u>GNAME</u>		<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>22</u> PMLIL200S0*038*GA	GA TRILLIUM RELIQUUM	Colaparchee Creek - T. reliquum		PMLIL200S0	I	so
<u>23</u> PDSCR02010*014*GA PPISO010L0*011*GA	GA AMPHIANTHUS PUSILLUS ISOETES TEGETIFORMANS	Eatonton Outcrop		PDSCR02010 PPISO010L0	R I	so so
<u>24</u> PMLIL15040*003*GA	GA HYMENOCALLIS CORONARIA	Flat Shoals Creek		PMLIL15040	I	so
<u>25</u> PDCAR0U1E0*022*GA PMLIL15040*001*GA PMLIL15040*002*GA PMLIL15040*004*GA	GA SILENE POLYPETALA HYMENOCALLIS CORONARIA HYMENOCALLIS CORONARIA HYMENOCALLIS CORONARIA	Flint River Watergap		PDCAR0U1E0 PMLIL15040 PMLIL15040 PMLIL15040	R I I R	so so so so
<u>26</u> PDCRA0A130*079*GA	GA SEDUM PUSILLUM	GA_'05buf#10		PDCRA0A130	I	so
<u>27</u> PDERI0C010*015*GA	GA ELLIOTTIA RACEMOSA	GA_'05buf#11		PDERI0C010	I	so

**Conservation
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State Conservation Area Name

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<u>28</u>	GA				
CXD0000000*001*GA	QUERCUS PHELLOS - QUERCUS (MICH AUXII, SHUMARDII) - FRAXINUS AMERICANA / (QUERCUS OGLETHORPENSIS) / ZEPHYRANTHES ATAMASCA GABBRO UPLAND DEPRESSION FOREST		CEGL008484	I	so
PDFAG051M0*001*GA	QUERCUS OGLETHORPENSIS		PDFAG051M0	I	so
<u>29</u>	GA				
PDFAG051M0*029*GA	QUERCUS OGLETHORPENSIS		PDFAG051M0	I	so
<u>30</u>	GA				
PDLAM1N040*002*GA	PYCNANTHEMUM CURVIPES		PDLAM1N040	I	si
<u>31</u>	GA				
PDROS1S030*001*GA	WALDSTEINIA LOBATA		PDROS1S030	I	so
PDSCH01020*001*GA	SCHISANDRA GLABRA		PDSCH01020	R	so
<u>32</u>	GA				
PDBRA11060*008*GA	DRABA APRICA		PDBRA11060	R	so
PDCRA0A130*005*GA	SEDUM PUSILLUM		PDCRA0A130	V	so
PDSCR02010*008*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	I	so
PPISO010L0*014*GA	ISOETES TEGETIFORMANS		PPISO010L0	R	so
<u>33</u>	GA				
PDBRA11060*002*GA	DRABA APRICA		PDBRA11060	R	so

**Conservation
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EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

PDCRA0A130*002*GA SEDUM PUSILLUM PDCRA0A130 I so
 PMERI01040*009*GA ERIOCAULON KOERNICKIANUM PMERI01040 I so

34 GA GA_'05buf#18

PDAST0T070*015*GA ASTER AVITUS PDAST0T070 R so
 PDCRA0A130*047*GA SEDUM PUSILLUM PDCRA0A130 R so
 PMERI01040*016*GA ERIOCAULON KOERNICKIANUM PMERI01040 I so

35 GA GA_'05buf#19

CUK0000000*015*GA Appalachian Highlands Granitic Flatrocks CEGR040820 V so
 CUL0000000*015*GA Appalachian Highlands Granitic Flatrocks CEGR040820 V so
 CUM0000000*015*GA Appalachian Highlands Granitic Flatrocks CEGR040820 V so
 PMLIL02290*002*GA ALLIUM SPECULAE PMLIL02290 I so

36 GA GA_'05buf#20

PMLIL200N0*006*GA TRILLIUM PERSISTENS PMLIL200N0 I si

37 GA GA_'05buf#21

PDAST0T070*029*GA ASTER AVITUS PDAST0T070 R so
 PDSCR02010*023*GA AMPHIANTHUS PUSILLUS PDSCR02010 R so
 PMCYP0B0V0*005*GA FIMBRISTYLIS BREVIVAGINATA PMCYP0B0V0 R so
 PMERI01040*010*GA ERIOCAULON KOERNICKIANUM PMERI01040 R so
 PPISO010E0*004*GA ISOETES MELANOSPORA PPISO010E0 I so

38 GA GA_'05buf#4

**Conservation
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<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CXD0000000*002*GA	QUERCUS PHELLOS - QUERCUS (MICH AUXII, SHUMARDII) - FRAXINUS AMERICANA / (QUERCUS OGLETHORPENSIS) / ZEPHYRANTHES ATAMASCA GABBRO UPLAND DEPRESSION FOREST		CEGL008484	I	so
<u>39</u>	GA	GA_'05buf#5			
CXD0000000*003*GA	QUERCUS PHELLOS - QUERCUS (MICH AUXII, SHUMARDII) - FRAXINUS AMERICANA / (QUERCUS OGLETHORPENSIS) / ZEPHYRANTHES ATAMASCA GABBRO UPLAND DEPRESSION FOREST		CEGL008484	I	so
<u>40</u>	GA	GA_'05buf#6			
PDAST38030*024*GA	ECHINACEA LAEVIGATA		PDAST38030	I	si
<u>41</u>	GA	GA_'05buf#7			
PDBRA11060*003*GA	DRABA APRICA		PDBRA11060	I	si
PDBRA11060*004*GA	DRABA APRICA		PDBRA11060	I	si
<u>42</u>	GA	GA_'05buf#8			
PDCAR0U1E0*020*GA	SILENE POLYPETALA		PDCAR0U1E0	I	so
PDR0S1S030*018*GA	WALDSTEINIA LOBATA		PDR0S1S030	V	so
<u>43</u>	GA	GA_'05buf#9			
PDCAR0U1E0*021*GA	SILENE POLYPETALA		PDCAR0U1E0	I	so
PMLIL200S0*029*GA	TRILLIUM RELIQUUM		PMLIL200S0	R	so

**Conservation
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State Conservation Area Name

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EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

44

GA Heggie's Rock Site

CUK0000000*001*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	I	so
CUL0000000*001*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	I	so
CUM0000000*001*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	I	so
PDBRA11060*009*GA	DRABA APRICA		PDBRA11060	V	so
PDBRA11060*010*GA	DRABA APRICA		PDBRA11060	I	so
PDCRA0A130*003*GA	SEDUM PUSILLUM		PDCRA0A130	I	so
PDCRA0A130*007*GA	SEDUM PUSILLUM		PDCRA0A130	V	so
PDCRA0A130*008*GA	SEDUM PUSILLUM		PDCRA0A130	V	so
PDCRA0A130*013*GA	SEDUM PUSILLUM		PDCRA0A130	R	so
PDSCR02010*009*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	V	so
PDSCR02010*010*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	R	so
PDSCR02010*017*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	I	so
PDSCR02010*051*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	V	so
PPISO010L0*012*GA	ISOETES TEGETIFORMANS		PPISO010L0	I	so

45

GA Ila Bog

PDARI03071*001*GA	HEXASTYLIS SHUTTLEWORTHII VAR HARPERI		PDARI03071	I	so
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46

GA Lake Russell WMA

PDAST38030*002*GA	ECHINACEA LAEVI GATA		PDAST38030	I	si
PDAST38030*018*GA	ECHINACEA LAEVI GATA		PDAST38030	R	si
PDAST38030*020*GA	ECHINACEA LAEVI GATA		PDAST38030	V	si
PDAST38030*022*GA	ECHINACEA LAEVI GATA		PDAST38030	I	si
PDAST38030*023*GA	ECHINACEA LAEVI GATA		PDAST38030	R	si

47

GA Lake Russell WMA

PDAST0T180*001*GA	ASTER GEORGIANUS		PDAST0T180	I	si
PDAST0T180*016*GA	ASTER GEORGIANUS		PDAST0T180	V	si

Conservation**Area Number****State****Conservation Area Name***Matrix Block Code(if any)*

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
PDAST0T180*022*GA	ASTER GEORGIANUS		PDAST0T180	V	si
PDAST38030*004*GA	ECHINACEA LAEVI GATA		PDAST38030	I	si
PDAST38030*006*GA	ECHINACEA LAEVI GATA		PDAST38030	I	si
PDAST38030*007*GA	ECHINACEA LAEVI GATA		PDAST38030	I	si
PDAST38030*008*GA	ECHINACEA LAEVI GATA		PDAST38030	I	si
PDAST38030*009*GA	ECHINACEA LAEVI GATA		PDAST38030	I	si
PDAST38030*010*GA	ECHINACEA LAEVI GATA		PDAST38030	V	si
PDAST38030*012*GA	ECHINACEA LAEVI GATA		PDAST38030	I	si
PDAST38030*014*GA	ECHINACEA LAEVI GATA		PDAST38030	V	si
PDAST38030*016*GA	ECHINACEA LAEVI GATA		PDAST38030	V	si
PDAST38030*017*GA	ECHINACEA LAEVI GATA		PDAST38030	V	si
PDAST38030*025*GA	ECHINACEA LAEVI GATA		PDAST38030	V	si
PDPRI07070*002*GA	LYSIMACHIA FRASERI		PDPRI07070	I	si
<u>51</u>	GA	Mountain Rock South			
PPISO010E0*005*GA	ISOETES MELANOSPORA		PPISO010E0	I	so
<u>55</u>	GA	Panola Mtn.			
PDCRA0A130*001*GA	SEDUM PUSILLUM		PDCRA0A130	I	so
<u>61</u>	GA	Pine Mountain			
PDERI150Q0*028*GA	RHODODENDRON PRUNIFOLIUM		PDERI150Q0	V	so
<u>62</u>	GA	Pine Mountain			
PDERI150Q0*002*GA	RHODODENDRON PRUNIFOLIUM		PDERI150Q0	V	so

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

66 GA Pits West

PDSCR02010*003*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	I	so
PDSCR02010*004*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	I	so
PPISO010L0*001*GA	ISOETES TEGETIFORMANS		PPISO010L0	I	so
PPISO010L0*002*GA	ISOETES TEGETIFORMANS		PPISO010L0	I	so

68 GA ROCK OF THE AGES

CUK0000000*020*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	so
CUK0000000*021*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	I	so
CUK0000000*022*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	R	so
CUL0000000*020*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	so
CUL0000000*021*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	I	so
CUL0000000*022*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	R	so
CUM0000000*020*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	so
CUM0000000*021*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	I	so
CUM0000000*022*GA	Appalachian Highlands Granitic Flatrocks		CEGR040820	R	so
PDAP0030C0*005*GA	AMSONIA LUDOVICIANA		PDAP0030C0	R	so
PDAST0T070*017*GA	ASTER AVITUS		PDAST0T070	R	so
PDAST0T070*018*GA	ASTER AVITUS		PDAST0T070	R	so
PDCRA0A130*045*GA	SEDUM PUSILLUM		PDCRA0A130	R	so
PDCRA0A130*046*GA	SEDUM PUSILLUM		PDCRA0A130	R	so
PDSCR02010*046*GA	AMPHIANTHUS PUSILLUS		PDSCR02010	V	so
PMCYP0B0V0*009*GA	FIMBRISTYLIS BREVIVAGINATA		PMCYP0B0V0	R	so
PMERI01040*012*GA	ERIOCAULON KOERNICKIANUM		PMERI01040	R	so
PMERI01040*013*GA	ERIOCAULON KOERNICKIANUM		PMERI01040	R	so

69 GA Sawnee Mtn.

PDFAB080E0*005*GA	AMORPHA SCHWERINII		PDFAB080E0	I	si
PMORC1Y0D0*005*GA	PLATANThERA INTEGRILABIA		PMORC1Y0D0	V	si

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>		<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>70</u>	GA	Stone Mtn.				
PDAST0T070*001*GA	ASTER AVITUS			PDAST0T070	R	so
PDAST0T070*006*GA	ASTER AVITUS			PDAST0T070	I	so
PDAST0T070*044*GA	ASTER AVITUS			PDAST0T070	R	so
PDCRA0A130*021*GA	SEDUM PUSILLUM			PDCRA0A130	I	so
PDCRA0A130*078*GA	SEDUM PUSILLUM			PDCRA0A130	I	so
PDCRA0A130*080*GA	SEDUM PUSILLUM			PDCRA0A130	I	so
PDFAB080E0*001*GA	AMORPHA SCHWERINII			PDFAB080E0	I	so
PDLAM1N040*001*GA	PYCNANTHEMUM CURVIPES			PDLAM1N040	I	so
PDSCR02010*030*GA	AMPHIANTHUS PUSILLUS			PDSCR02010	I	so
PPISO010E0*003*GA	ISOETES MELANOSPORA			PPISO010E0	I	so
<u>71</u>	GA	Tribble Mill Park				
PDAST0T070*040*GA	ASTER AVITUS			PDAST0T070	I	so
PDCRA0A130*059*GA	SEDUM PUSILLUM			PDCRA0A130	I	so
PMERI01040*015*GA	ERIOCAULON KOERNICKIANUM			PMERI01040	I	so
<u>72</u>	GA	Tribble Mill Rec. Area				
PDCRA0A130*032*GA	SEDUM PUSILLUM			PDCRA0A130	I	so
<u>74</u>	GA	Veazey Outcrop				
PDSCR02010*013*GA	AMPHIANTHUS PUSILLUS			PDSCR02010	R	so
PPISO010L0*010*GA	ISOETES TEGETIFORMANS			PPISO010L0	I	so
<u>76</u>	MD	MD_'05buf#22				
PDSCR01130*002*MD	AGALINIS AURICULATA			PDSCR01130	I	tl

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

78

NC-SC King's Mountain

CCTER00155*009*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
PDFAB080E0*028*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no
PGCUP05031*001*NC	JUNIPERUS COMMUNIS VAR DEPRESSA		PGCUP05031	I	no
PGCUP05031*003*NC	JUNIPERUS COMMUNIS VAR DEPRESSA		PGCUP05031	I	no
PGCUP05031*004*NC	JUNIPERUS COMMUNIS VAR DEPRESSA		PGCUP05031	I	no

79

NC-VA BEAVER POND CREEK FLATWOODS

CCPAL00580*040*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCTER00180*074*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*076*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00185*050*NC	Quercus stellata - Quercus alba - Quercus falcata / Gaylussacia frondosa var. frondosa Woodland	G3G4	CEGL004413	V	no
CP00003700*003*VA	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest		CEGL007403	V	no

80

NC-VA Northern Blue Ridge Escarpment

ARAAD02040*125*NC	CLEMMYS MUHLENBERGII		ARAAD02040	V	ni
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81

NC-VA Upper Dan Watershed/Sauratown/Mayo Watershed

CCPAL00560*009*NC	Eastern Wide-ranging Moist Acid Cliffs	G2	CEGR040745	V	ni
CCPAL00560*010*NC	Eastern Wide-ranging Moist Acid Cliffs	G2	CEGR040745	V	ni
CCTER00080*022*NC	Liriodendron tulipifera - Tilia americana var. heterophylla - (Aesculus flava) / Cimicifuga racemosa Forest	G4	CEGL007291	V	ni

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00080*112*NC	Tilia americana var. heterophylla - Fraxinus americana - (Ulmus rubra) / Sanguinaria canadensis - (Aquilegia canadensis, Asplenium rhizophyllum) Forest	G4	CEGL007711	V	ni
CCTER00080*113*NC	Liriodendron tulipifera - Tilia americana var. heterophylla - (Aesculus flava) / Cimicifuga racemosa Forest	G4	CEGL007291	V	ni
CCTER00085*046*NC	Appalachian Highlands Eastern Hemlock-Hardwood Forests	G5	CEGR040525	V	ni
CCTER00090*038*NC	Appalachian Highlands Eastern Hemlock-Hardwood Forests	G5	CEGR040525	V	ni
CCTER00090*039*NC	Appalachian Highlands Eastern Hemlock-Hardwood Forests	G5	CEGR040525	V	ni
CCTER00100*071*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	ni
CCTER00100*093*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	ni
CCTER00100*094*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	ni
CCTER00110*061*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	ni
CCTER00120*005*NC	Tsuga caroliniana / Kalmia latifolia - Rhododendron catawbiense Forest	G2G3	CEGL007139	V	ni
CCTER00120*005*NC.B	Tsuga caroliniana - (Tsuga canadensis) / Rhododendron maximum Forest		CEGL007138	I	ni
CCTER00120*006*NC	Tsuga caroliniana / Kalmia latifolia - Rhododendron catawbiense Forest	G2G3	CEGL007139	V	ni
CCTER00140*008*NC	Appalachian Highlands Pitch and Table Mountain Pine Woodlands	G5	CEGR040180	V	ni
CCTER00140*010*NC	Appalachian Highlands Pitch and Table Mountain Pine Woodlands	G5	CEGR040180	V	ni
CCTER00140*058*NC	Appalachian Highlands Pitch and Table Mountain Pine Woodlands	G5	CEGR040180	V	ni
CCTER00140*059*NC	Appalachian Highlands Pitch and Table Mountain Pine Woodlands	G5	CEGR040180	V	ni
CCTER00150*010*NC	Appalachian Highlands Xeric Oak Forests	G5	CEGR040110	V	ni
CCTER00150*021*NC	Appalachian Highlands Xeric Oak Forests	G5	CEGR040110	V	ni
CCTER00150*031*NC	Appalachian Highlands Xeric Oak Forests	G5	CEGR040110	V	ni
CCTER00150*053*NC	Appalachian Highlands Xeric Oak Forests	G5	CEGR040110	V	ni
CCTER00150*054*NC	Appalachian Highlands Xeric Oak Forests	G5	CEGR040110	V	ni
CCTER00170*017*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	ni
CCTER00170*045*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	ni
CCTER00175*059*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	ni
CCTER00175*065*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	ni
CCTER00180*085*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	ni
CCTER00210*001*NC	Saxifraga michauxii Herbaceous Vegetation	G2	CEGL004524	I	ni
CCTER00210*002*NC	Saxifraga michauxii Herbaceous Vegetation	G2	CEGL004524	I	ni
CCTER00210*007*NC	Saxifraga michauxii Herbaceous Vegetation	G2	CEGL004524	I	ni
CCTER00210*010*NC	Saxifraga michauxii Herbaceous Vegetation	G2	CEGL004524	I	ni
CCTER00210*036*NC	Appalachian Highlands Rocky Summits	G2	CEGR043630	V	ni

Conservation**Area Number****State****Conservation Area Name****Matrix Block Code(if any)**

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00230*011*NC	Eastern Wide-ranging Dry Acid Cliffs	G4	CEGR040740	V	ni
CCTER00230*012*NC	Eastern Wide-ranging Dry Acid Cliffs	G4	CEGR040740	V	ni
CCTER00230*013*NC	Eastern Wide-ranging Dry Acid Cliffs	G4	CEGR040740	V	ni
CCTER00240*032*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	ni
CCTER00240*034*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	ni
CCTER00240*036*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	ni
CCTER00265*003*NC	Eastern Wide-ranging Dry Alkaline Cliffs	G1	CEGR040750	V	ni
CCTER00265*004*NC	Eastern Wide-ranging Dry Alkaline Cliffs	G1	CEGR040750	V	ni
CCTER00265*005*NC	Eastern Wide-ranging Dry Alkaline Cliffs	G1	CEGR040750	V	ni
CCTER00265*006*NC	Juniperus virginiana var. virginiana - Ulmus alata / Schizachyrium scoparium Woodland	G1	CEGL004443	V	ni
PDBRA0K0P0*001*VA	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*002*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*003*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	V	ni
PDBRA0K0P0*004*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*005*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	R	ni
PDBRA0K0P0*007*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*008*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*008*VA	CARDAMINE MICRANTHERA		PDBRA0K0P0	V	ni
PDBRA0K0P0*009*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*010*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*011*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*012*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*013*VA	CARDAMINE MICRANTHERA		PDBRA0K0P0	R	ni
PDBRA0K0P0*015*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	I	ni
PDBRA0K0P0*016*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	R	ni
PDBRA0K0P0*017*NC	CARDAMINE MICRANTHERA		PDBRA0K0P0	V	ni
PDCAR0G0E0*013*NC	MINUARTIA GROENLANDICA		PDCAR0G0E0	I	ni
PDCAR0G0E0*014*NC	MINUARTIA GROENLANDICA		PDCAR0G0E0	I	ni

82**NC****ADAM MOUNTAIN**

CCTER00310*002*NC	Pinus rigida - Quercus stellata / Andropogon gerardii - Packera paupercula Woodland	G1	CEGL004968	I	no
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**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

83

NC ALLISON WOODS
 Appalachian Highlands Large River Floodplain Forests
 Appalachian Highlands Mesic Hardwood Forests
 Appalachian Highlands Dry-mesic Oak Forests and Woodlands

G5 CEGR040630 V ni
 G5T5 CEGR040510 V ni
 G5 CEGR040113 V ni

84

NC ARMSTRONG FORD
 SCHISANDRA GLABRA

PDSCH01020 I no

85

NC BALD MOUNTAIN
 Piedmont Monadnock Forests
 Appalachian Highlands Dry-mesic Oak Forests and Woodlands

G5 CEGR040133 V no
 G5 CEGR040113 V no

86

NC BEATTIES FORD ROAD BASIC FOREST
 Appalachian Highlands Small Stream / Terrace / Lower Slope
 Hardwood Fores
 Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood
 Forests

G5 CEGR040520 V no
 G4 CEGR040115 V no

87

NC BEAVERDAM LAKE SWAMPS AND ARKOSE OUTCROPS
 Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus
 michauxii / Chasmanthium latifolium Forest
 beaver pond and other natural wetlands & marshes
 Appalachian Highlands Granitic Flatrocks

G2 CEGL007356 I tu
 G5 CEGR0XXXXX V tu
 G3 CEGR040820 V tu

88

NC BELL FARM BIGLEAF MAGNOLIA SLOPES

Conservation
Area Number

State **Conservation Area Name**

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00100*062*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
<u>90</u>	NC				
PDPOR060H0*019*NC	PORTULACA SMALLII		PDPOR060H0	R	no
<u>92</u>	NC				
CCTER00280*018*NC	Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no
<u>93</u>	NC				
CCTER00100*017*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
<u>95</u>	NC				
PDARI03060*014*NC	HEXASTYLIS NANIFLORA		PDARI03060	I	no
PDARI03060*050*NC	HEXASTYLIS NANIFLORA		PDARI03060	V	no
PDARI03060*051*NC	HEXASTYLIS NANIFLORA		PDARI03060	V	no
<u>96</u>	NC				
PDARI03060*028*NC	HEXASTYLIS NANIFLORA		PDARI03060	R	no
PDARI03060*046*NC	HEXASTYLIS NANIFLORA		PDARI03060	I	no
<u>97</u>	NC				
CCTER00280*017*NC	Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no
PDPOR060H0*007*NC	PORTULACA SMALLII		PDPOR060H0	R	no

**Conservation
Area Number**

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<u>98</u>	NC				
	Baker's Mountain/Jacob's Fork				
CCPAL00600*007*NC	Acer rubrum var. trilobum / Viburnum nudum var. nudum / Osmunda cinnamomea - Saururus cernuus - Impatiens capensis Forest	G4?	CEGL004426	V	ni
CCTER00100*049*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	ni
CCTER00140*038*NC	Appalachian Highlands Pitch and Table Mountain Pine Woodlands	G5	CEGR040180	V	ni
CCTER00150*032*NC	Appalachian Highlands Xeric Oak Forests	G5	CEGR040110	V	ni
CCTER00170*032*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	ni
CCTER00175*014*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	ni
PDARI03060*012*NC	HEXASTYLIS NANIFLORA		PDARI03060	I	ni
PDFAB080E0*008*NC	AMORPHA SCHWERINII		PDFAB080E0	I	ni
<u>100</u>	NC				
	Brown's Creek				
CCPAL00460*023*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00470*010*NC	Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest	G2	CEGL007356	V	tu
CCPAL00480*007*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00490*012*NC	Peltandra virginica - Saururus cernuus - Carex crinita / Climacium americanum Herbaceous Vegetation	G3?	CEGL007696	V	tu
CCPAL00495*010*NC	beaver pond and other natural wetlands & marshes	G5	CEGR0XXXXX	V	tu
<u>101</u>	NC				
	Brown's Creek				
ABNYF07060*445*NC	PICOIDES BOREALIS		ABNYF07060	V	tu
CCPAL00460*002*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	I	tu
CCPAL00470*001*NC	Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest	G2	CEGL007356	I	tu
CCPAL00480*001*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	I	tu

**Conservation
Area Number**

State Conservation Area Name

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<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
103	NC				
	Butner				
CCPAL00460*005*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00460*007*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00500*008*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCTER00100*024*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*025*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*042*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*043*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*045*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00110*012*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	tu
CCTER00155*016*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00155*026*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00155*027*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00170*036*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*033*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*047*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00180*015*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
CCTER00185*046*NC	Quercus stellata - (Pinus echinata) / Schizachyrium scoparium - Echinacea laevigata - Solidago ptarmicoides Woodland	G3G4	CEGL003558	V	tu
CCTER00240*021*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	no
CCTER00240*022*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	no
CCTER00300*002*NC	Sporobolus ozarkanus - Diodia teres - Croton willdenowii - Ruellia humilis Herbaceous Vegetation	G1	CEGL004276	I	tu
PDAST0T270*005*NC	ASTER PARVICEPS		PDAST0T270	I	tu
PDAST38030*003*NC	ECHINACEA LAEVI GATA		PDAST38030	I	tu
PDAST38030*004*NC	ECHINACEA LAEVI GATA		PDAST38030	I	tu
PDAST38030*019*NC	ECHINACEA LAEVI GATA		PDAST38030	I	tu
PDAST68090*001*NC	MARSHALLIA SP 1		PDAST68090	I	tu
PDFAB2A1H2*034*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	V	tu
PDFAB2A1H2*035*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	I	tu
PPISO010P0*007*NC	ISOETES VIRGINICA		PPISO010P0	I	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>104</u>	NC				
CANE CREEK MOUNTAIN					
CCTER00080*077*NC	Tilia americana var. heterophylla - Fraxinus americana - (Ulmus rubra) / Sanguinaria canadensis - (Aquilegia canadensis, Asplenium rhizophyllum) Forest	G4	CEGL007711	V	si
CCTER00140*046*NC	Appalachian Highlands Pitch and Table Mountain Pine Woodlands	G5	CEGR040180	V	si
PMIRIOD1D0*022*NC	SISYRINCHIUM DICHOTOMUM		PMIRIOD1D0	I	si
<u>105</u>	NC				
CARBONTON DIABASE SILL					
PDFAB2A1H2*044*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	I	tu
<u>106</u>	NC				
CARTERS CREEK FOREST					
CCPAL00480*011*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
<u>109</u>	NC				
CONCORD RING DIKE/JACKSON SCHOOL NATURAL AREA					
PDPOR060H0*004*NC	PORTULACA SMALLII		PDPOR060H0	I	no
<u>110</u>	NC				
COUCH MOUNTAIN					
CCTER00175*031*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
<u>111</u>	NC				
COUNTY LINE FLATROCKS					
PDPOR060H0*017*NC	PORTULACA SMALLII		PDPOR060H0	I	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>112</u>	NC	CROOKED RUN WILDLIFE MANAGEMENT AREA			
CCTER00100*074*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00110*063*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00185*052*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G3G4	CEGR040113	V	no
<u>114</u>	NC	Carolina Birdfoot Trefoil Site 1			
CCPAL00580*045*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCTER00175*083*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
PDFAB2A1H2*037*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	R	no
<u>115</u>	NC	Carolina Birdfoot Trefoil Site 2			
PDFAB2A1H2*049*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	I	no
<u>116</u>	NC	Caswell Gamelands			
CCPAL00500*002*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCPAL00500*010*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCPAL00500*040*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCPAL00580*003*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCTER00100*001*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*028*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*029*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*030*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00110*026*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00110*052*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00170*002*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*004*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*004*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*008*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*036*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*037*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00180*001*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*088*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00185*002*NC	Appalachian Highlands Xeric Hardpan Forests and Woodlands	G3G4	CEGR040112	V	no
<u>117</u>	NC	Caswell Gamelands			
CCTER00110*027*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
<u>118</u>	NC	DEEP BOTTOM BRANCH BLUFFS			
PDFAB080E0*029*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no
<u>119</u>	NC	DUKE FOREST OAK-HICKORY UPLAND			
CCTER00175*046*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
<u>120</u>	NC	Deep River/Pocket Creek			
CCPAL00460*020*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00460*021*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCPAL00500*023*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCTER00110*014*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00110*047*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00110*049*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00180*063*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
CCTER00240*020*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	no
PDHYD0C530*013*NC	PHACELIA COVILLEI		PDHYD0C530	I	tu
PDHYD0C530*014*NC	PHACELIA COVILLEI		PDHYD0C530	I	no

122

NC

E. Uwharrie

CCPAL00570*008*NC	Upland pools	G1	CEGR0YYYY	V	no
CCTER00155*035*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00170*050*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
PDFAB080E0*036*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no
PDFAB080E0*040*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no

124

NC

ELI WHITNEY RICH SLOPES

CCTER00110*025*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
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125

NC

ENO RIVER DIABASE SILL

CCTER00185*004*NC	Appalachian Highlands Xeric Hardpan Forests and Woodlands	G3G4	CEGR040112	V	tu
PDAST38030*001*NC	ECHINACEA LAEVIGATA		PDAST38030	I	tu

126

NC

East of Whitehall N.P.

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
PDFAB2A1H2*050*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	I	no
<u>127</u>	NC	Eno Wilderness			
CCPAL00405*004*NC	Rocky Riverbeds	G5	CEGR045730	V	no
CCPAL00500*013*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCPAL00580*017*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCTER00235*007*NC	Eastern Wide-ranging Dry Acid Cliffs	G4	CEGR040740	V	no
<u>129</u>	NC	FITZGERALD WOODLAND			
CCTER00180*071*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
PDAST38030*017*NC	ECHINACEA LAEVIGATA		PDAST38030	V	tu
PDFAB2A1H2*045*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	R	tu
<u>130</u>	NC	FLAT SWAMP GABBRO FOREST			
CCTER00155*021*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00180*044*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00185*034*NC	Quercus stellata - Carya carolinae-septentrionalis / Piptochaetium avenaceum - Danthonia spicata Woodland	G3G4	CEGL003713	V	no
<u>131</u>	NC	FOURTH CREEK FLOODPLAIN POOL			
CCPAL00490*015*NC	Peltandra virginica - Saururus cernuus - Carex crinita / Climacium americanum Herbaceous Vegetation	G3?	CEGL007696	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>133</u>	NC				
	Fishing Creek				
CCPAL00500*019*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCPAL00500*025*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCTER00100*031*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*050*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
<u>135</u>	NC				
	GAR CREEK RARE PLANT SITE				
PDAST4N1C0*004*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	I	no
<u>136</u>	NC				
	GATE 4 MAFIC FORESTS				
CCTER00180*052*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
<u>137</u>	NC				
	GATE 9 POND				
CCPAL00570*006*NC	Upland pools	G1	CEGR0YYYY	V	no
<u>139</u>	NC				
	Gold Hill Flats				
CCPAL00580*009*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	I	no
CCPAL00580*037*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCPAL00580*038*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCTER00170*011*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*028*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no

Conservation**Area Number****State Conservation Area Name****Matrix Block Code(if any)**

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00185*005*NC	Quercus stellata - Quercus alba - Quercus falcata / Gaylussacia frondosa var. frondosa Woodland	G3G4	CEGL004413	I	no
CCTER00185*029*NC	Quercus stellata - Quercus alba - Quercus falcata / Gaylussacia frondosa var. frondosa Woodland	G3G4	CEGL004413	I	no
CCTER00185*048*NC	Quercus stellata - Quercus alba - Quercus falcata / Gaylussacia frondosa var. frondosa Woodland	G3G4	CEGL004413	V	no
CCTER00185*049*NC	Quercus stellata - Quercus alba - Quercus falcata / Gaylussacia frondosa var. frondosa Woodland	G3G4	CEGL004413	V	no
PDFAB2A1H2*018*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	V	no
<u>140</u>	NC	Goshen Gabbro			
CCPAL00580*001*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCTER00155*025*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00180*056*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*057*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00185*043*NC	Appalachian Highlands Xeric Hardpan Forests and Woodlands	G3G4	CEGR040112	V	no
PDAST38030*018*NC	ECHINACEA LAEVIGATA		PDAST38030	I	no
<u>141</u>	NC	HENRY J OOSTING NATURAL AREA			
AAAAD08010*049*NC	HEMIDACTYLIUM SCUTATUM		AAAAD08010	V	no
CCTER00100*023*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
<u>142</u>	NC	HENSONS CREEK RAVINE			
PDARI03060*009*NC	HEXASTYLIS NANIFLORA		PDARI03060	I	so
<u>143</u>	NC	HIGHTOWER HILL			
CCTER00280*004*NC	Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
PDCRA0A130*001*NC	SEDUM PUSILLUM		PDCRA0A130	I	no
<u>144</u>	NC				
	Harris Lake Gamelands/Raven Rock S.P.				
CCPAL00460*004*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
CCPAL00460*008*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
CCTER00100*010*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00235*005*NC	Eastern Wide-ranging Dry Acid Cliffs	G4	CEGR040740	V	no
CCTER00280*010*NC	Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no
PDHYD0C530*005*NC	PHACELIA COVILLEI		PDHYD0C530	I	no
PDHYD0C530*009*NC	PHACELIA COVILLEI		PDHYD0C530	I	tu
PDHYD0C530*012*NC	PHACELIA COVILLEI		PDHYD0C530	I	no
PDHYD0C530*016*NC	PHACELIA COVILLEI		PDHYD0C530	I	no
<u>145</u>	NC				
	Heart of Uwharrie/Middle U./Pot.Corridor				
CCPAL00405*013*NC	Schizachyrium scoparium - Solidago plumosa Herbaceous Vegetation	G5	CEGL004459	I	no
CCPAL00460*003*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
CCPAL00490*014*NC	Peltandra virginica - Saururus cernuus - Carex crinita / Climacium americanum Herbaceous Vegetation	G3?	CEGL007696	V	no
CCPAL00500*022*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCPAL00500*027*NC	Appalachian Highlands Montane Alluvial Forests and Shrublands	G5	CEGR042210	I	no
CCPAL00500*031*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	no
CCPAL00570*001*NC	Nyssa biflora / Cephalanthus occidentalis - Leucothoe racemosa Forest	G1	CEGL004550	I	no
CCPAL00570*002*NC	Leucothoe racemosa - Vaccinium fuscatum - Smilax walteri Shrubland	G1	CEGL004533	I	no
CCPAL00570*009*NC	Upland pools	G1	CEGR0YYYY	V	no
CCPAL00580*005*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCPAL00580*015*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCPAL00580*019*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCPAL00580*042*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCPAL00580*043*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCPAL00590*001*NC	Acer rubrum var. trilobum / Myrica heterophylla - Gaylussacia frondosa / Andropogon glomeratus - (Sarracenia flava) Woodland	G1	CEGL004781	V	no
CCPAL00590*006*NC	Acer rubrum var. trilobum / Myrica heterophylla - Gaylussacia frondosa / Andropogon glomeratus - (Sarracenia flava) Woodland	G1	CEGL004781	I	no
CCPAL00590*007*NC	Acer rubrum var. trilobum / Myrica heterophylla - Gaylussacia frondosa / Andropogon glomeratus - (Sarracenia flava) Woodland	G1	CEGL004781	I	no
CCPAL00590*009*NC	Acer rubrum var. trilobum / Myrica heterophylla - Gaylussacia frondosa / Andropogon glomeratus - (Sarracenia flava) Woodland	G1	CEGL004781	V	no
CCPAL00998*001*NC	Acer rubrum var. trilobum - Liriodendron tulipifera / Ilex opaca var. opaca / Osmunda cinnamomea Forest	G?	CEGL004551	V	no
CCTER00100*007*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*054*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*063*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00110*006*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00110*030*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00110*031*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00110*032*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00110*039*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00110*043*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00110*055*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00110*064*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00155*004*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00155*017*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00155*019*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00155*023*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00155*028*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00155*029*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00155*030*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00155*033*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00155*038*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	no
CCTER00170*007*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*029*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*037*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*038*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*044*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*062*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*064*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*065*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*016*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*044*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*058*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*079*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*080*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00180*008*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*010*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*014*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*016*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*016*NC.A	Quercus alba - Carya glabra - Fraxinus americana / Acer leucoderme / Vitis rotundifolia Forest	G4	CEGL004541	I	no
CCTER00180*020*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*036*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
CCTER00180*048*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*050*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*062*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*069*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00180*070*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*086*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00180*087*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00185*008*NC	Appalachian Highlands Xeric Hardpan Forests and Woodlands	G3G4	CEGR040112	V	no
CCTER00185*014*NC	Appalachian Highlands Xeric Hardpan Forests and Woodlands	G3G4	CEGR040112	V	no
CCTER00185*015*NC	Quercus stellata - Carya carolinae-septentrionalis / Piptochaetium avenaceum - Danthonia spicata Woodland	G3G4	CEGL003713	I	no
CCTER00185*016*NC	Quercus stellata - Carya carolinae-septentrionalis / Piptochaetium avenaceum - Danthonia spicata Woodland	G3G4	CEGL003713	I	no
CCTER00185*044*NC	Quercus stellata - Carya carolinae-septentrionalis / Piptochaetium avenaceum - Danthonia spicata Woodland	G3G4	CEGL003713	V	no
CCTER00185*045*NC	Quercus stellata - Carya carolinae-septentrionalis / Piptochaetium avenaceum - Danthonia spicata Woodland	G3G4	CEGL003713	V	no
CCTER00190*001*NC	Pinus palustris - Pinus echinata - (Pinus virginiana) / Quercus marilandica - (Quercus prinus) / Vaccinium pallidum Woodland	G1?	CEGL008437	V	no
CCTER00190*002*NC	Pinus palustris - Pinus echinata - (Pinus virginiana) / Quercus marilandica - (Quercus prinus) / Vaccinium pallidum Woodland	G1?	CEGL008437	V	no
CCTER00190*002*NC.A	Pinus palustris - Pinus taeda - Pinus serotina / Chasmanthium laxum - Panicum virgatum Piedmont Woodland	G1?	CEGL003663	V	no
CCTER00190*007*NC	Pinus palustris - Pinus echinata - (Pinus virginiana) / Quercus marilandica - (Quercus prinus) / Vaccinium pallidum Woodland	G1?	CEGL008437	V	no
CCTER00190*008*NC	Pinus palustris - Pinus echinata - (Pinus virginiana) / Quercus marilandica - (Quercus prinus) / Vaccinium pallidum Woodland	G1?	CEGL008437	V	no
CCTER00190*009*NC	Pinus palustris - Pinus echinata - (Pinus virginiana) / Quercus marilandica - (Quercus prinus) / Vaccinium pallidum Woodland	G1?	CEGL008437	V	no
CCTER00190*010*NC	Pinus palustris - Quercus marilandica - Quercus prinus / Symplocos tinctoria Woodland	G1?	CEGL004554	V	no
CCTER00235*016*NC	Eastern Wide-ranging Dry Acid Cliffs	G4	CEGR040740	V	no
CCTER00255*005*NC	Juniperus virginiana var. virginiana - Ulmus alata / Schizachyrium scoparium Woodland	G1G2	CEGL004443	I	no
ICMAL07240*002*NC	CAMBARUS CATAGIUS		ICMAL07240	I	no
PDAST0T180*022*NC	ASTER GEORGIANUS		PDAST0T180	I	no
PDAST0T180*024*NC	ASTER GEORGIANUS		PDAST0T180	R	no
PDAST0T180*025*NC	ASTER GEORGIANUS		PDAST0T180	R	no
PDAST0T180*029*NC	ASTER GEORGIANUS		PDAST0T180	I	no
PDAST0T180*030*NC	ASTER GEORGIANUS		PDAST0T180	I	no
PDAST4N1C0*015*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	I	no
PDAST4N1C0*024*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	I	no

Conservation**Area Number****State****Conservation Area Name****Matrix Block Code(if any)**

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
PDAST4N1C0*025*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	R	no
PDAST4N1C0*026*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	R	no
PDAST4N1C0*028*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	I	no
PDAST4N1C0*034*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	R	no
PDAST4N1C0*036*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	R	no
PDAST4N1C0*043*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	R	no
PDAST4N1C0*044*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	R	no
PDAST4N1C0*056*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	I	no
PDAST4N1C0*057*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	V	no
PDAST4N1C0*061*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	I	no
PDAST4N1C0*066*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	I	no
PDAST4N1C0*068*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	V	no
PDAST4N1C0*069*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	R	no
PDAST4N1C0*071*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	R	no
PDAST8P1D0*001*NC	SOLIDAGO PLUMOSA		PDAST8P1D0	I	no
PDAST8P1D0*002*NC	SOLIDAGO PLUMOSA		PDAST8P1D0	I	no
PDFAB080E0*006*NC	AMORPHA SCHWERINII		PDFAB080E0	I	no
PDFAB080E0*018*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no
PDFAB080E0*019*NC	AMORPHA SCHWERINII		PDFAB080E0	I	no
PDFAB080E0*020*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no
PDFAB080E0*023*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no
PDFAB080E0*025*NC	AMORPHA SCHWERINII		PDFAB080E0	I	no
PDFAB080E0*026*NC	AMORPHA SCHWERINII		PDFAB080E0	I	no
PDFAB080E0*027*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no
PDFAB080E0*031*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no
PDFAB080E0*034*NC	AMORPHA SCHWERINII		PDFAB080E0	I	no
PDFAB080E0*038*NC	AMORPHA SCHWERINII		PDFAB080E0	I	no
PDFAB080E0*039*NC	AMORPHA SCHWERINII		PDFAB080E0	I	no
PDFAB080E0*042*NC	AMORPHA SCHWERINII		PDFAB080E0	V	no
PDFAB080E0*044*NC	AMORPHA SCHWERINII		PDFAB080E0	I	no
PDLAM1X160	STACHYS SP1		PDLAM1X160	I	no
PDLAU07030*041*NC	LINDERA SUBCORIACEA		PDLAU07030	I	no
PDPLN02090*004*NC	PLANTAGO CORDATA		PDPLN02090	I	no
PMCYP03FB0*001*NC	CAREX IMPRESSINERVIA		PMCYP03FB0	I	no

**Conservation
Area Number**

<u>EOCODE</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
146	NC	Heart of Uwharrie				
CCTER00155*018*NC	Piedmont Monadnock Forests		G5	CEGR040133	V	no
CCTER00180*031*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		G4	CEGR040115	V	no
147	NC	High Rock Ridge				
PDPLN02090*003*NC	PLANTAGO CORDATA			PDPLN02090	I	no
150	NC	INDIAN CREEK HARDWOOD FOREST				
CCTER00100*075*NC	Appalachian Highlands Mesic Hardwood Forests		G5T5	CEGR040510	V	no
CCTER00180*077*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		G4	CEGR040115	V	no
151	NC	ISLAND CREEK HEATH BLUFF				
PDARI03060*029*NC	HEXASTYLIS NANIFLORA			PDARI03060	I	ni
152	NC	JACKSON SUNFLOWER SITE				
PDAST4N1C0*020*NC	HELIANTHUS SCHWEINITZII			PDAST4N1C0	R	no
PDFAB2A1H2*039*NC	LOTUS UNIFOLIOLATUS VAR HELLERI			PDFAB2A1H2	I	no
153	NC	JACOBS CREEK SLOPES				
CCTER00110*051*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest		G5T3	CEGL008466	V	tu

Matrix Block Code(if any)

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>154</u>	NC				
CCTER00180*042*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
PDFAB2A1H2*043*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	R	no
<u>155</u>	NC				
CCTER00255*003*NC	Eastern Wide-ranging Dry Alkaline Cliffs	G1G2	CEGR040750	I	no
<u>156</u>	NC				
CCPAL00590*013*NC	Acer rubrum var. trilobum / Myrica heterophylla - Gaylussacia frondosa / Andropogon glomeratus - (Sarracenia flava) Woodland	G1	CEGL004781	V	so
CCTER00170*031*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	so
CCTER00175*043*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	so
<u>157</u>	NC				
PDARI03060*010*NC	HEXASTYLIS NANIFLORA		PDARI03060	R	so
<u>158</u>	NC				
PDPOR060H0*003*NC	LAKE MIRL GRANITIC FLATROCK nc buff pnt #14 PORTULACA SMALLII		PDPOR060H0	I	no
<u>159</u>	NC				
CCTER00100*052*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no

**Conservation
Area Number**

<u>EOCODE</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
163	NC	LONG CREEK SLATE SLOPES				
CCTER00180*064*NC	Appalachian Highlands	Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
PDFAB080E0*007*NC	AMORPHA	SCHWERINII		PDFAB080E0	I	no
164	NC	LYLE CREEK CORRIDOR nc buff pnt #18				
PDARI03060*042*NC	HEXASTYLIS	NANIFLORA		PDARI03060	I	ni
168	NC	Lower Haw - White Pines				
CCPAL00405*007*NC	Appalachian Highlands	Riverscour Vegetation	G5	CEGR045740	V	no
CCPAL00460*015*NC	Appalachian Highlands	Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
CCPAL00460*016*NC	Appalachian Highlands	Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
CCPAL00460*022*NC	Appalachian Highlands	Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
CCPAL00490*011*NC	Peltandra virginica - Saururus cernuus - Carex crinita / Climacium americanum	Herbaceous Vegetation	G3?	CEGL007696	V	no
CCPAL00580*041*NC	Quercus phellos / Carex (albulutescens, intumescens, joorii) - Chasmanthium sessiliflorum / Sphagnum lescurii	Forest	G3	CEGL007403	V	no
CCTER00100*016*NC	Appalachian Highlands	Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*039*NC	Appalachian Highlands	Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*044*NC	Appalachian Highlands	Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00100*078*NC	Appalachian Highlands	Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
CCTER00100*087*NC	Appalachian Highlands	Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00110*050*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis	Forest	G5T3	CEGL008466	V	no
CCTER00170*056*NC	Appalachian Highlands	Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00170*057*NC	Appalachian Highlands	Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	tu
CCTER00175*024*NC	Appalachian Highlands	Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*070*NC	Appalachian Highlands	Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	tu
CCTER00175*071*NC	Appalachian Highlands	Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	tu
CCTER00175*075*NC	Appalachian Highlands	Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	tu

Matrix Block Code(if any)

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00180*084*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
CCTER00185*053*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G3G4	CEGR040113	V	no
CCTER00240*003*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	no
PDAP11Y040*003*NC	PTILIMNIUM NODOSUM		PDAP11Y040	I	no
PDHYD0C530*006*NC	PHACELIA COVILLEI		PDHYD0C530	R	no
<u>169</u>	NC	MCCOY ROAD SUNFLOWER SITE			
PDAST4N1C0*017*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	R	no
<u>170</u>	NC	MCDOWELL NATURE PRESERVE			
CCPAL00580*030*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCTER00180*049*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
<u>171</u>	NC	MEADOW FLATS			
AAAAD08010*048*NC	HEMIDACTYLIUM SCUTATUM		AAAAD08010	V	no
CCPAL00580*018*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	I	no
CCTER00180*060*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
<u>172</u>	NC	MIDDLE CREEK BLUFFS AND FLOODPLAIN			
CCPAL00495*011*NC	beaver pond and other natural wetlands & marshes	G5	CEGR0XXXXX	V	no
CCPAL00500*028*NC	Appalachian Highlands Large River Floodplain Forests	G5	CEGR040630	V	no
CCTER00100*055*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>173</u>	NC				
	MILLSEAT OUTCROP				
CCTER00280*005*NC	Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no
PDCRA0A130*004*NC	SEDUM PUSILLUM		PDCRA0A130	I	no
<u>174</u>	NC				
	MINERAL SPRINGS BARRENS				
CCTER00185*013*NC	Quercus stellata - Quercus alba - Quercus falcata / Gaylussacia frondosa var. frondosa Woodland	G3G4	CEGL004413	I	no
PDAST0T180*006*NC	ASTER GEORGIANUS		PDAST0T180	I	no
PDAST4N1C0*013*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	I	no
PDFAB2A1H2*027*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	I	no
<u>175</u>	NC				
	MITCHELLS MILL STATE NATURAL AREA				
CCTER00280*009*NC	Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no
PDPOR060H0*002*NC	PORTULACA SMALLII		PDPOR060H0	I	no
<u>176</u>	NC				
	MOUNTAIN ISLAND LAKE DAM RARE PLANT SITE East				
PDAST0T180*019*NC	ASTER GEORGIANUS		PDAST0T180	I	no
<u>177</u>	NC				
	MOUNTAIN ISLAND LAKE DAM RARE PLANT SITE West				
PDAST4N1C0*032*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	I	no
<u>178</u>	NC				
	MURRAYS MILL LAKE & UPPER BALLS CREEK ncbuff#21				
PDARI03060*022*NC	HEXASTYLIS NANIFLORA		PDARI03060	I	ni

Conservation
Area Number

<u>EOCODE</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Matrix Block Code(if any)</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
179	NC	Mayo Watershed (connected to 67)					
CCPAL00500*036*NC		Appalachian Highlands Large River Floodplain Forests	G5	CEGR040630		V	tu
CCTER00100*073*NC		Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510		V	tu
CCTER00180*007*NC		Appalachian Montane Oak-Hickory Forest	G4	CEGR040440		V	tu
CCTER00265*001*NC		Pinus echinata - Pinus virginiana / Rhododendron minus - Kalmia latifolia Woodland	G1	CEGL003563		V	tu
CCTER00265*002*NC		Pinus echinata - Pinus virginiana / Rhododendron minus - Kalmia latifolia Woodland	G1	CEGL003563		V	tu
181	NC	Morrow Mountain					
CCTER00180*019*NC		Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115		V	no
182	NC	N. Uwharrie					
CCPAL00500*039*NC		Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520		V	no
CCPAL00600*015*NC		Acer rubrum var. trilobum / Viburnum nudum var. nudum / Osmunda cinnamomea - Saururus cernuus - Impatiens capensis Forest	G4?	CEGL004426		V	no
CCTER00100*088*NC		Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510		V	no
CCTER00100*091*NC		Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510		V	no
CCTER00155*037*NC		Piedmont Monadnock Forests	G5	CEGR040133		V	no
CCTER00170*060*NC		Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113		V	no
CCTER00170*061*NC		Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113		V	no
CCTER00170*063*NC		Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113		V	no
CCTER00175*076*NC		Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113		V	no
CCTER00175*078*NC		Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113		V	no
CCTER00235*021*NC		Eastern Wide-ranging Dry Acid Cliffs	G4	CEGR040740		V	no
CCTER00240*040*NC		Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535		V	no
PDAST4N1C0*029*NC		HELIANTHUS SCHWEINITZII		PDAST4N1C0		R	no
PDFAB080E0*047*NC		AMORPHA SCHWERINII		PDFAB080E0		I	no

<u>Conservation Area Number</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>Matrix Block Code(if any)</u>			
<u>EOCODE</u>	<u>GNAME</u>		<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>183</u> ICMAL07240*009*NC	NC CAMBARUS CATAGIUS	NC Buffered Point 10		ICMAL07240	V	no
<u>184</u> NBMUS560G0*009*NC	NC ORTHOTRICHUM KEEVERAE	NC Buffered Point 11		NBMUS560G0	R	ni
<u>185</u> ICMAL07240*008*NC	NC CAMBARUS CATAGIUS	NC Buffered Point 12		ICMAL07240	V	no
<u>186</u> ICMAL07240*003*NC	NC CAMBARUS CATAGIUS	NC Buffered Point 13		ICMAL07240	V	no
<u>187</u> PDARI03060*044*NC	NC HEXASTYLIS NANIFLORA	NC Buffered Point 15		PDARI03060	R	ni
<u>188</u> ICMAL07240*006*NC	NC CAMBARUS CATAGIUS	NC Buffered Point 16		ICMAL07240	V	no
<u>189</u> PDAST4N1C0*074*NC	NC HELIANTHUS SCHWEINITZII	NC Buffered Point 17		PDAST4N1C0	R	no

**Conservation
Area Number**

State

Conservation Area Name

Matrix Block Code(if any)

EOCODE

GNAME

GRANK

ELCODE

Viability Rank

Stratification Unit A

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>204</u> PDAST4N1C0*021*NC	NC HELIANTHUS SCHWEINITZII				
	NC Buffered Point 40		PDAST4N1C0	R	no
<u>205</u> PDAST0T180*016*NC	NC ASTER GEORGIANUS				
	NC Buffered Point 41		PDAST0T180	I	no
<u>206</u> PDAST4N1C0*059*NC	NC HELIANTHUS SCHWEINITZII				
	NC Buffered Point 42		PDAST4N1C0	R	tu
<u>207</u> ICMAL07240*007*NC	NC CAMBARUS CATAGIUS				
	NC Buffered Point 5		ICMAL07240	V	no
<u>208</u> ICMAL07240*013*NC	NC CAMBARUS CATAGIUS				
	NC Buffered Point 6		ICMAL07240	V	no
<u>209</u> ICMAL07240*001*NC	NC CAMBARUS CATAGIUS				
	NC Buffered Point 7		ICMAL07240	V	no
<u>211</u> ICMAL07240*011*NC	NC CAMBARUS CATAGIUS				
	NC Buffered Point 9		ICMAL07240	R	no

**Conservation
Area Number**

State

Conservation Area Name

Matrix Block Code(if any)

EOCODE

GNAME

GRANK

ELCODE

Viability Rank

Stratification Unit A

<u>212</u> PDANA08070*005*NC	NC RHUS MICHAUXII	NC_'05buf#23				
				PDANA08070	I	no
<u>213</u> PDARI03060*019*NC	NC HEXASTYLIS NANIFLORA	NC_'05buf#24				
				PDARI03060	I	ni
<u>214</u> PDARI03060*020*NC	NC HEXASTYLIS NANIFLORA	NC_'05buf#25				
				PDARI03060	I	ni
<u>215</u> PDARI03060*032*NC	NC HEXASTYLIS NANIFLORA	NC_'05buf#26				
				PDARI03060	I	ni
<u>216</u> PDAST0T180*013*NC	NC ASTER GEORGIANUS	NC_'05buf#27				
				PDAST0T180	I	no
<u>217</u> PDAST0T180*014*NC	NC ASTER GEORGIANUS	NC_'05buf#28				
				PDAST0T180	I	no
<u>218</u> PDAST0T180*017*NC	NC ASTER GEORGIANUS	NC_'05buf#29				
				PDAST0T180	I	no

**Conservation
Area Number**

State

Conservation Area Name

Matrix Block Code(if any)

EOCODE

GNAME

GRANK

ELCODE

Viability Rank

Stratification Unit A

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>219</u> PDCRA0A130*003*NC	NC SEDUM PUSILLUM		PDCRA0A130	I	no
	NC_'05buf#30				
<u>220</u> PDFAB2A1H2*038*NC	NC LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	I	no
	NC_'05buf#31				
<u>221</u> PDFAB2A1H2*046*NC	NC LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	I	no
	NC_'05buf#32				
<u>222</u> CCPAL00580*023*NC	NC Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
<u>222</u> CCTER00180*058*NC	NEELY ROAD SWAMPS Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
<u>225</u> CCTER00175*015*NC	NC Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
<u>225</u> CCTER00240*006*NC	NEW HOPE CREEK SLOPES Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	no
<u>226</u> CCTER00170*053*NC	NC Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	tu
<u>226</u> CCTER00175*072*NC	NEW HOPE OVERLOOK BLUFF AND SLOPES Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	tu
<u>226</u> CCTER00240*038*NC	NEW HOPE OVERLOOK BLUFF AND SLOPES Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	tu

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

227 NC NEW LONDON RIDGES

CCTER00100*034*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00180*034*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00185*030*NC	Quercus stellata - Carya carolinae-septentrionalis / Piptochaetium avenaceum - Danthonia spicata Woodland	G3G4	CEGL003713	V	no
PDFAB080E0*022*NC	AMORPHA SCHWERINII		PDFAB080E0	R	no

228 NC NORRIS CREEK PLANT SITE

PDANA08070*001*NC	RHUS MICHAUXII		PDANA08070	I	no
PDPOR060H0*008*NC	PORTULACA SMALLII		PDPOR060H0	R	no

230 NC NORTHEAST CREEK FLOODPLAIN FOREST

CCPAL00470*013*NC	Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest	G2	CEGL007356	V	tu
CCPAL00470*014*NC	Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest	G2	CEGL007356	I	tu
CCPAL00480*013*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00480*014*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCTER00100*080*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu

231 NC NORTH BIG PEACHTREE CREEK FLATROCK

CCTER00280*015*NC	Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no
PDPOR060H0*020*NC	PORTULACA SMALLII		PDPOR060H0	I	no

232 NC Northern Blue Ridge Escarpment/Brushy Mountains

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
ARAAD02040*031*NC	CLEMMYS MUHLENBERGII		ARAAD02040	V	ni
CCTER00080*051*NC	Liriodendron tulipifera - Tilia americana var. heterophylla - (Aesculus flava) / Cimicifuga racemosa Forest	G4	CEGL007291	V	ni
CCTER00085*044*NC	Appalachian Highlands Eastern Hemlock-Hardwood Forests	G5	CEGR040525	V	ni
CCTER00100*037*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	ni
CCTER00110*028*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	ni
CCTER00135*005*NC	Fraxinus americana - Carya glabra / Symphoricarpos orbiculatus - Rhus aromatica / Piptochaetium avenaceum Woodland	G?	CEGL003684	V	ni
CCTER00135*006*NC	Fraxinus americana - Carya glabra / Symphoricarpos orbiculatus - Rhus aromatica / Piptochaetium avenaceum Woodland	G?	CEGL003684	V	ni
CCTER00135*007*NC	Fraxinus americana - Carya glabra / Symphoricarpos orbiculatus - Rhus aromatica / Piptochaetium avenaceum Woodland	G?	CEGL003684	V	ni
CCTER00135*013*NC	Fraxinus americana - Carya glabra / Symphoricarpos orbiculatus - Rhus aromatica / Piptochaetium avenaceum Woodland	G?	CEGL003684	V	ni
CCTER00150*060*NC	Appalachian Highlands Xeric Oak Forests	G5	CEGR040110	V	ni
CCTER00150*061*NC	Appalachian Montane Oak-Hickory Forest	G5	CEGR040440	V	ni
CCTER00155*020*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	ni
CCTER00160*084*NC	Appalachian Montane Oak-Hickory Forest	G5	CEGR040440	V	ni
CCTER00180*021*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	ni
CCTER00180*027*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	ni
CCTER00215*004*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00215*005*NC	Talinum teretifolium - Portulaca smallii - (Lindernia monticola) Herbaceous Vegetation	G2	CEGL004299	I	ni
CCTER00215*006*NC	Talinum teretifolium - Portulaca smallii - (Lindernia monticola) Herbaceous Vegetation	G2	CEGL004299	I	ni
CCTER00215*010*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00215*011*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00215*014*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00215*015*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00215*016*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00215*017*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00215*032*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00215*033*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
NBMUS560G0*002*NC	ORTHOTRICHUM KEEVERAE		NBMUS560G0	I	ni
NBMUS560G0*004*NC	ORTHOTRICHUM KEEVERAE		NBMUS560G0	I	ni
NBMUS560G0*005*NC	ORTHOTRICHUM KEEVERAE		NBMUS560G0	I	ni

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
NBMUS560G0*006*NC	ORTHOTRICHUM KEEVERAE		NBMUS560G0	I	ni
NBMUS560G0*007*NC	ORTHOTRICHUM KEEVERAE		NBMUS560G0	I	ni
NBMUS560G0*008*NC	ORTHOTRICHUM KEEVERAE		NBMUS560G0	R	ni
NBMUS560G0*010*NC	ORTHOTRICHUM KEEVERAE		NBMUS560G0	R	ni

<u>233</u>	<u>NC</u>	<u>Northern Blue Ridge Escarpment</u>			
ARAAD02040*102*NC	CLEMMYS MUHLENBERGII		ARAAD02040	I	ni

<u>234</u>	<u>NC</u>	<u>NORTHSIDE DIABASE AREA</u>			
PDAST38030*002*NC	ECHINACEA LAEVIGATA		PDAST38030	I	tu

<u>235</u>	<u>NC</u>	<u>OAK MOUNTAIN QUARTZITE RIDGE</u>				
CCTER00155*036*NC	Piedmont Monadnock Forests		G5	CEGR040133	V	no
CCTER00170*051*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands		G5	CEGR040113	V	no

<u>237</u>	<u>NC</u>	<u>OVERTON ROCK</u>				
CCTER00280*006*NC	Appalachian Highlands Granitic Flatrocks		G3	CEGR040820	V	no
PDPOR060H0*011*NC	PORTULACA SMALLII			PDPOR060H0	R	no

<u>238</u>	<u>NC</u>	<u>Old Quarry Creek Uplands</u>				
CCTER00170*054*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands		G5	CEGR040113	V	tu
CCTER00175*048*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands		G5	CEGR040113	V	tu
CCTER00175*074*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands		G5	CEGR040113	V	tu

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>239</u> PDAST4N1C0*001*NC	NC HELIANTHUS SCHWEINITZII				
	PALESTINE RARE PLANT SITE		PDAST4N1C0	I	no
<u>240</u> CCPAL00460*006*NC	NC Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
<u>241</u> CCTER00155*014*NC	NC Piedmont Monadnock Forests	G5	CEGR040133	V	no
<u>242</u> PDCAR0G0E0*007*NC	NC MINUARTIA GROENLANDICA				
	PILOT MOUNTAIN STATE PARK/PILOT MOUNTAIN SECTION		PDCAR0G0E0	I	ni
<u>243</u> CCPAL00580*024*NC	NC Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCTER00180*029*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00185*020*NC	Appalachian Highlands Xeric Hardpan Forests and Woodlands	G3G4	CEGR040112	V	no
<u>244</u> CCTER00110*003*NC	NC Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00175*066*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

245 NC ROCKY BRANCH CONGLOMERATE EXPOSURE

CCTER00100*072*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
CCTER00110*060*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	tu
CCTER00240*035*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	tu

246 NC ROCKY FACE MOUNTAIN

CCTER00155*001*NC	Piedmont Monadnock Forests	G5	CEGR040133	V	ni
CCTER00215*001*NC	Talinum teretifolium - Portulaca smallii - (Lindernia monticola) Herbaceous Vegetation	G2	CEGL004299	I	ni
NBMUS560G0*001*NC	ORTHOTRICHUM KEEVERAE		NBMUS560G0	I	ni

247 NC ROCKY RIVER CORRIDOR

CCPAL00460*027*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
CCPAL00495*020*NC	beaver pond and other natural wetlands & marshes	G5	CEGR0XXXXX	V	no

248 NC ROCKY RIVER/MORGANS BLUFF

CCTER00255*001*NC	Eastern Wide-ranging Dry Alkaline Cliffs	G1G2	CEGR040750	I	no
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249 NC ROTTEN CREEK HEADWATER SLOPES

CCTER00160*082*NC	Appalachian Montane Oak-Hickory Forest	G5	CEGR040440	V	si
PMIRI0D1D0*014*NC	SISYRINCHIUM DICHOTOMUM		PMIRI0D1D0	I	si

250 NC ROUNDHOUSE ROAD FOREST

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00180*072*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
<u>251</u> NC REDLAIR PRESERVE					
CCTER00100*009*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00170*012*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00175*020*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
<u>252</u> NC Reed Gold Mine					
CCTER00170*009*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
PDAST4N1C0*042*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	V	no
PDFAB2A1H2*036*NC	LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	R	no
<u>253</u> NC Rock House					
CCTER00100*005*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
<u>254</u> NC SALEM LAKE NATURAL AREA					
CCTER00175*062*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00280*025*NC	Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no
<u>255</u> NC SALISBURY NATURE STUDY AREA					
CCPAL00470*002*NC	Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest	G2	CEGL007356	V	no
CCTER00175*018*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

256 **NC** **SANDY MUSH OUTCROP**
 CCTER00280*012*NC Appalachian Highlands Granitic Flatrocks G3 CEGR040820 V so

258 **NC** **SAVANNAH CHURCH DIABASE DIKE**
 CCTER00180*025*NC Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood
 Forests G4 CEGR040115 V tu

259 **NC** **SECOND CREEK WETLANDS**
 CCPAL00460*012*NC Appalachian Highlands Riverfront and Levee Forests and
 Shrublands G5 CEGR040640 V no
 CCPAL00490*009*NC Peltandra virginica - Saururus cernuus - Carex crinita / Climacium
 americanum Herbaceous Vegetation G3? CEGL007696 V no
 CCPAL00500*021*NC Appalachian Highlands Small Stream / Terrace / Lower Slope
 Hardwood Fores G5 CEGR040520 V no

260 **NC** **SHADDOX CREEK FELSIC GLADES AND BOTTOMS**
 CCPAL00470*009*NC Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus
 michauxii / Chasmanthium latifolium Forest G2 CEGL007356 V tu

261 **NC** **SHUFFLETOWN POWERLINE RARE PLANT SITE**
 PDAST0T180*028*NC ASTER GEORGIANUS PDAST0T180 I no
 PDAST38030*020*NC ECHINACEA LAEVIGATA PDAST38030 I no
 PDAST4N1C0*051*NC HELIANTHUS SCHWEINITZII PDAST4N1C0 I no

262 **NC** **SICELOFF BOG**

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCPAL00590*003*NC	Acer rubrum var. trilobum / Myrica heterophylla - Gaylussacia frondosa / Andropogon glomeratus - (Sarracenia flava) Woodland	G1	CEGL004781	V	ni
<u>263</u> NC SOUTH BUTNER CEDAR GLADES					
CCTER003300*001*NC	Sporobolus ozarkanus - Diodia teres - Croton willdenowii - Ruellia humilis Herbaceous Vegetation	G1	CEGL004276	I	tu
PDAST0T270*001*NC	ASTER PARVICEPS		PDAST0T270	I	tu
PDPOR060H0*021*NC	PORTULACA SMALLII		PDPOR060H0	R	tu
PDPOR080C0*001*NC	TALINUM MENGESII		PDPOR080C0	I	tu
<u>264</u> NC SOUTH BUTNER DIABASE SWAMP					
CCPAL00580*011*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	tu
CCTER00180*005*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
<u>265</u> NC STONY CREEK FLATS					
CCPAL00580*004*NC	Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	G3	CEGL007403	V	no
CCTER00185*003*NC	Appalachian Highlands Xeric Hardpan Forests and Woodlands	G3G4	CEGR040112	V	no
<u>266</u> NC STONY CREEK MOUNTAIN					
CCTER00180*043*NC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
CCTER00185*033*NC	Quercus stellata - Carya carolinae-septentrionalis / Piptochaetium avenaceum - Danthonia spicata Woodland	G3G4	CEGL003713	V	no
<u>267</u> NC South Mountains/Blue Ridge Connector					

Conservation**Area Number****State Conservation Area Name****Matrix Block Code(if any)**

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
ARAAD02040*116*NC	CLEMMYS MUHLENBERGII		ARAAD02040	V	ni
CCPAL00590*015*NC	Acer rubrum var. trilobum / Myrica heterophylla - Gaylussacia frondosa / Andropogon glomeratus - (Sarracenia flava) Woodland	G1	CEGL004781	V	ni
CCTER00085*016*NC	Appalachian Highlands Eastern Hemlock-Hardwood Forests	G5	CEGR040525	V	ni
CCTER00150*007*NC	Appalachian Highlands Xeric Oak Forests	G5	CEGR040110	V	ni
CCTER00175*012*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	ni
268	NC South Mountains/Blue Ridge Connector				
CCTER00150*039*NC	Appalachian Highlands Xeric Oak Forests	G5	CEGR040110	V	si
CCTER00160*054*NC	Appalachian Montane Oak-Hickory Forest	G5	CEGR040440	V	si
CCTER00215*019*NC	Selaginella rupestris - Schizachyrium scoparium - Hypericum gentianoides - Bulbostylis capillaris Herbaceous Vegetation	G2	CEGL007690	V	si
PMIRI0D1D0*024*NC	SISYRINCHIUM DICHOTOMUM		PMIRI0D1D0	I	si
269	NC South Mountains/Blue Ridge Connector				
AMACC08020*050*NC	CORYNORHINUS RAFINESQUII		AMACC08020	V	ni
CCPAL00560*004*NC	Eastern Wide-ranging Moist Acid Cliffs	G2	CEGR040745	V	ni
CCTER00080*006*NC	Liriodendron tulipifera - Tilia americana var. heterophylla - (Aesculus flava) / Cimicifuga racemosa Forest	G4	CEGL007291	V	ni
CCTER00080*007*NC	Tilia americana var. heterophylla - Fraxinus americana - (Ulmus rubra) / Sanguinaria canadensis - (Aquilegia canadensis, Asplenium rhizophyllum) Forest	G4	CEGL007711	V	ni
CCTER00080*104*NC	Liriodendron tulipifera - Tilia americana var. heterophylla - (Aesculus flava) / Cimicifuga racemosa Forest	G4	CEGL007291	V	ni
CCTER00085*001*NC	Appalachian Highlands Eastern Hemlock-Hardwood Forests	G5	CEGR040525	V	ni
CCTER00085*033*NC	Appalachian Highlands Eastern Hemlock-Hardwood Forests	G5	CEGR040525	V	ni
CCTER00120*011*NC	Tsuga caroliniana / Kalmia latifolia - Rhododendron catawbiense Forest	G2G3	CEGL007139	V	ni
CCTER00140*027*NC	Appalachian Highlands Pitch and Table Mountain Pine Woodlands	G5	CEGR040180	V	ni
CCTER00140*039*NC	Appalachian Highlands Pitch and Table Mountain Pine Woodlands	G5	CEGR040180	V	ni
CCTER00140*057*NC	Appalachian Highlands Pitch and Table Mountain Pine Woodlands	G5	CEGR040180	V	ni
CCTER00150*002*NC	Appalachian Montane Oak-Hickory Forest	G5	CEGR040440	V	ni
CCTER00150*022*NC	Appalachian Highlands Xeric Shortleaf Pine Woodlands and Forests	G5	CEGR040130	V	ni

Conservation**Area Number****State****Conservation Area Name***Matrix Block Code(if any)*

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00150*022*NC.A	Appalachian Montane Oak-Hickory Forest		CEGR040440	V	ni
CCTER00150*052*NC	Appalachian Highlands Upland White Pine Forests	G5	CEGR040140	V	ni
CCTER00160*072*NC	Appalachian Montane Oak-Hickory Forest	G5	CEGR040440	V	ni
CCTER00210*022*NC	Appalachian Highlands Rocky Summits	G2	CEGR043630	V	ni
CCTER00210*023*NC	Appalachian Highlands Rocky Summits	G2	CEGR043630	V	ni
CCTER00210*025*NC	Appalachian Highlands Rocky Summits	G2	CEGR043630	V	ni
CCTER00210*026*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00210*027*NC	Appalachian Mafic Igneous/Metamorphic Glades and Barrens	G2	CEGR044080	V	ni
CCTER00230*008*NC	Eastern Wide-ranging Dry Acid Cliffs	G4	CEGR040740	V	ni
PDCAR0G0E0*012*NC	MINUARTIA GROENLANDICA		PDCAR0G0E0	I	ni
PMIRI0D1D0*028*NC	SISYRINCHIUM DICHOTOMUM		PMIRI0D1D0	I	ni
PMORC1F010*001*NC	ISOTRIA MEDEOLOIDES		PMORC1F010	I	ni
PMORC1F010*007*NC	ISOTRIA MEDEOLOIDES		PMORC1F010	I	ni

270**NC****TABBS CREEK RICH SLOPES**

CCTER00110*001*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
PDHYD0C530*011*NC	PHACELIA COVILLEI		PDHYD0C530	I	no

272**NC****TAR RIVER/WILTON SLOPES**

CCPAL00405*009*NC	Rocky Riverbeds	G5	CEGR045730	V	no
CCPAL00460*017*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
CCPAL00460*018*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no
CCTER00100*040*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	no
CCTER00110*042*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
CCTER00240*018*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	no
PDAPI1Y040*002*NC	PTILIMNIUM NODOSUM		PDAPI1Y040	I	no

273**NC****TEMPLE ROCK**

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCTER00280*008*NC	Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no
<u>274</u>	NC				
	THIRD FORK CREEK WETLANDS				
CCPAL00470*004*NC	Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest	G2	CEGL007356	I	tu
CCPAL00495*002*NC	beaver pond and other natural wetlands & marshes	G5	CEGR0XXXXX	V	tu
<u>275</u>	NC				
	TOWNSVILLE ROAD XERIC FOREST				
CCTER00170*049*NC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	no
CCTER00185*051*NC	Appalachian Highlands Xeric Hardpan Forests and Woodlands	G3G4	CEGR040112	V	no
<u>276</u>	NC				
	TUCKERTOWN BLUFFS				
CCTER00240*019*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	no
<u>277</u>	NC				
	TURNERSBURG CLIFFS				
CCTER00235*015*NC	Eastern Wide-ranging Dry Acid Cliffs	G4	CEGR040740	V	ni
CCTER00240*030*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	ni
<u>278</u>	NC				
	UPPER BARTON CREEK BLUFFS AND RAVINE				
CCTER00110*011*NC	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest	G5T3	CEGL008466	V	no
<u>279</u>	NC				
	UPPER NEUSE RIVER FLOODPLAIN				
CCPAL00460*025*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>281</u>	NC				
	Upper Jordan Lake				
CCPAL00460*010*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00460*026*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00470*003*NC	Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest	G2	CEGL007356	I	tu
CCPAL00480*005*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00480*017*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00480*018*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00490*005*NC	Peltandra virginica - Saururus cernuus - Carex crinita / Climacium americanum Herbaceous Vegetation	G3?	CEGL007696	V	tu
CCPAL00490*020*NC	Peltandra virginica - Saururus cernuus - Carex crinita / Climacium americanum Herbaceous Vegetation	G3?	CEGL007696	V	tu
CCPAL00495*014*NC	beaver pond and other natural wetlands & marshes	G5	CEGR0XXXXX	V	tu
CCTER00100*082*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
CCTER00100*083*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
<u>282</u>	NC				
	Upper Jordan Lake				
CCPAL00470*005*NC	Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest	G2	CEGL007356	I	tu
CCPAL00480*015*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00480*016*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00480*019*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00480*020*NC	Appalachian Highlands Riverfront and Levee Forests and Shrublands	G5	CEGR040640	V	tu
CCPAL00495*015*NC	beaver pond and other natural wetlands & marshes	G5	CEGR0XXXXX	V	tu
CCPAL00500*015*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	tu

Conservation
Area Number

<u>EOCODE</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCPAL00600*014*NC		Acer rubrum var. trilobum / Viburnum nudum var. nudum / Osmunda cinnamomea - Saururus cernuus - Impatiens capensis Forest	G4?	CEGL004426	V	tu
CCTER00100*081*NC		Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
CCTER00100*084*NC		Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
CCTER00100*085*NC		Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
CCTER00100*086*NC		Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
CCTER00175*073*NC		Appalachian Highlands Dry-mesic Oak Forests and Woodlands	G5	CEGR040113	V	tu
CCTER00180*011*NC		Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
CCTER00180*082*NC		Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
CCTER00180*083*NC		Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	tu
CCTER00240*010*NC		Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	tu
<u>283</u>	NC	WALNUT CREEK SUMAC SITE				
PDANA08070*016*NC		RHUS MICHAUXII		PDANA08070	I	no
<u>284</u>	NC	WEST BIG PEACHTREE CREEK FLATROCK				
CCTER00280*013*NC		Appalachian Highlands Granitic Flatrocks	G3	CEGR040820	V	no
PDPOR060H0*025*NC		PORTULACA SMALLII		PDPOR060H0	I	no
<u>285</u>	NC	WESTINGHOUSE BOULEVARD UPLAND SWAMPS				
CCTER00180*051*NC		Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests	G4	CEGR040115	V	no
<u>286</u>	NC	WHITE OAK CREEK FLOODPLAIN				
CCPAL00490*019*NC		Peltandra virginica - Saururus cernuus - Carex crinita / Climacium americanum Herbaceous Vegetation	G3?	CEGL007696	V	tu

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CCPAL00500*037*NC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores	G5	CEGR040520	V	tu
CCTER00100*079*NC	Appalachian Highlands Mesic Hardwood Forests	G5T5	CEGR040510	V	tu
<u>288</u>	NC	Waxhaw Sunflower Site Extension			
PDAST0T180*001*NC	ASTER GEORGIANUS		PDAST0T180	I	no
PDAST0T180*007*NC	ASTER GEORGIANUS		PDAST0T180	V	no
PDAST0T180*009*NC	ASTER GEORGIANUS		PDAST0T180	I	no
PDAST0T180*010*NC	ASTER GEORGIANUS		PDAST0T180	V	no
PDAST0T180*011*NC	ASTER GEORGIANUS		PDAST0T180	V	no
PDAST4N1C0*010*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	V	no
PDAST4N1C0*012*NC	HELIANTHUS SCHWEINITZII		PDAST4N1C0	V	no
<u>290</u>	NC	White Oak Mtn./Tryon Peak			
PMIRI0D1D0*009*NC	SISYRINCHIUM DICHOTOMUM		PMIRI0D1D0	I	si
<u>291</u>	NC	YADKIN ISLANDS FOREST			
CCPAL00500*033*NC	Appalachian Highlands Large River Floodplain Forests	G5	CEGR040630	V	ni
CCTER00240*033*NC	Appalachian Highlands Oak-Beech/Heath Bluffs and Ravines	G4?	CEGR040535	V	ni
<u>292</u>	NC	ZION CHURCH/EASTERN GOLD HILL FLATWOODS			
CCTER00185*028*NC	Quercus stellata - Quercus alba - Quercus falcata / Gaylussacia frondosa var. frondosa Woodland	G3G4	CEGL004413	V	no
<u>294</u>	SC-NC	Blue Ridge Escarpment-Mountain Bridge (Jocassee			
CTPXX00010*002*SC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	R	si

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
PMIRI0D1D0*005*SC	SISYRINCHIUM DICHOTOMUM		PMIRI0D1D0	I	si
PMIRI0D1D0*006*SC	SISYRINCHIUM DICHOTOMUM		PMIRI0D1D0	I	si
<u>296</u>	SC	Blue Ridge Escarpment-Mountain Bridge (Jocassee			
CTTXX00010*014*SC	Appalachian Highlands Montane Alluvial Forests and Shrublands		CEGR042210	V	si
<u>297</u>	SC	Blue Ridge Escarpment-Mountain Bridge (Jocassee			
CPMPX00010*002*SC	Appalachian Highlands Acid Herbaceous Seeps		CEGR047510	R	si
CPMPX00010*003*SC	Appalachian Highlands Acid Herbaceous Seeps		CEGR047510	R	si
CPMPX00010*004*SC	Appalachian Highlands Acid Herbaceous Seeps		CEGR047510	R	si
CPMPX00010*005*SC	Appalachian Highlands Acid Herbaceous Seeps		CEGR047510	R	si
CTMPX00020*032*SC	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	si
CTMPX00030*001*SC	Appalachian Highlands Granitic Domes		CEGR043510	V	si
CTMPX00030*002*SC	Appalachian Highlands Granitic Domes		CEGR043510	V	si
CTTXX00010*034*SC	Appalachian Highlands Mixed Mesophytic/Cove Forests		CEGR042030	V	si
CTTXX00010*061*SC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands		CEGR040113	V	si
<u>300</u>	SC	Cedar Creek			
CTPCX00010*010*SC	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	so
CTTXX00010*020*SC	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	so
CTTXX00010*036*SC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	so
<u>301</u>	SC	Landsford Canal S.P. - Catawba			
CPTXX00010*001*SC	Hymenocallis caroliniana - Justicia americana Herbaceous Vegetation		CEGL004285	R	no
PMLIL15040*002*SC	HYMENOCALLIS CORONARIA		PMLIL15040	I	no
PMLIL15040*007*SC	HYMENOCALLIS CORONARIA		PMLIL15040	I	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

302 SC Long Cane Creek/Big Bottoms/Parson's Mountain

CPPCX00020*053*SC	Appalachian Highlands Large River Floodplain Forests		CEGR040630	R	so
CXADD00030*001*SC	Appalachian Highlands Xeric Virginia / Shortleaf Pine Woodlands		CEGR040127	I	so

304 SC Lynches River/Flat Creek Watershed

CTPXX00020*002*SC	Appalachian Highlands Granitic Flatrocks		CEGR040820	I	no
CTTXX00010*022*SC	Appalachian Highlands Xeric Oak Forests		CEGR040110	V	no
PDBRA11060*001*SC	DRABA APRICA		PDBRA11060	I	no
PDSCR02010*001*SC	AMPHIANTHUS PUSILLUS		PDSCR02010	I	no

307 SC Rock Hill Post Oak Savannah

CPPXX00020*005*SC	QUERCUS PHELLOS - QUERCUS (MICHAUXII, SHUMARDII) - FRAXINUS AMERICANA / (QUERCUS OGLETHORPENSIS) / ZEPHYRANTHES ATAMASCA GABBRO UPLAND DEPRESSION FOREST		CEGL008484	R	no
CTPXX00010*005*SC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	no
CTPXX00030*003*SC	Appalachian Highlands Xeric Hardpan Forests and Woodlands		CEGR040112	V	no
CTTXX00010*058*SC	Appalachian Patch Prairies, Savannas, and Grasslands		CEGR044505	V	no
PDSCR01130*001*SC	AGALINIS AURICULATA		PDSCR01130	I	no

308 SC SC unnamed site # 1

CTPCX00010*027*SC	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	R	so
CTTXX00010*026*SC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands		CEGR040113	V	so

309 SC SC unnamed site # 10

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

EOCODE GNAME GRANK ELCODE Viability Rank Stratification Unit A

CTMPX00010*008*SC Appalachian Highlands Xeric Oak Forests CEGR040110 V si
 CTTXX00010*015*SC Appalachian Highlands Dry-mesic Oak Forests and Woodlands CEGR040113 V si

310 SC SC unnamed site # 11

PMALI04090*010*SC SAGITTARIA FASCICULATA PMALI04090 V si

311 SC SC unnamed site # 2

CTPXX00020*003*SC Appalachian Highlands Granitic Flatrocks CEGR040820 V so
 PDBRA11060*002*SC DRABA APRICA PDBRA11060 R so
 PDBRA11060*003*SC DRABA APRICA PDBRA11060 R so
 PDBRA11060*005*SC DRABA APRICA PDBRA11060 R so

313 SC SC unnamed site # 4

CTTXX00010*003*SC Appalachian Highlands Mesic Hardwood Forests CEGR040510 V no
 proto records Appalachian Highlands Pitch and Table Mountain Pine Woodlands CEGR040180 R no

314 SC SC unnamed site # 5

CPPXX00020*002*SC QUERCUS PHELLOS - QUERCUS (MICHAUXII, SHUMARDII) -
 FRAXINUS AMERICANA / (QUERCUS OGLETHORPENSIS) /
 ZEPHYRANTHES ATAMASCA GABBRO UPLAND DEPRESSION
 FOREST mostly mo CEGR008484 V no
 CTPXX00030*002*SC Appalachian Highlands Xeric Hardpan Forests and Woodlands CEGR040112 V no

315 SC SC unnamed site # 6

Conservation**Area Number****State****Conservation Area Name***Matrix Block Code(if any)*

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CPPXX00020*003*SC	QUERCUS PHELLOS - QUERCUS (MICH AUXII, SHUMARDII) - FRAXINUS AMERICANA / (QUERCUS OGLETHORPENSIS) / ZEPHYRANTHES ATAMASCA GABBRO UPLAND DEPRESSION FOREST		CEGL008484	V	no
CPPXX00020*004*SC	QUERCUS PHELLOS - QUERCUS (MICH AUXII, SHUMARDII) - FRAXINUS AMERICANA / (QUERCUS OGLETHORPENSIS) / ZEPHYRANTHES ATAMASCA GABBRO UPLAND DEPRESSION FOREST		CEGL008484	V	no
316	SC	SC unnamed site # 7			
CTMPX00010*011*SC	Appalachian Highlands Xeric Oak Forests		CEGR040110	V	no
CTTXX00010*055*SC	Appalachian Highlands Dry-mesic Oak Forests and Woodlands		CEGR040113	V	no
317	SC	SC unnamed site # 8			
CTPXX00010*004*SC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	si
318	SC	SC unnamed site # 9			
CTMPX00020*009*SC	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	si
319	SC	SC unnamed site #12			
CPPXX00010*001*SC	Appalachian Highlands Forested Acid Seeps		CEGR047020	V	si
CPPXX00010*005*SC	Appalachian Highlands Forested Acid Seeps		CEGR047020	V	si
CPPXX00010*007*SC	Appalachian Highlands Forested Acid Seeps		CEGR047020	V	si
CPPXX00010*008*SC	Appalachian Highlands Forested Acid Seeps		CEGR047020	V	si
CPPXX00010*009*SC	Appalachian Highlands Forested Acid Seeps		CEGR047020	V	si
CPPXX00010*010*SC	Appalachian Highlands Forested Acid Seeps		CEGR047020	R	si
PMALI04090*003*SC	SAGITTARIA FASCICULATA		PMALI04090	V	si
PMALI04090*005*SC	SAGITTARIA FASCICULATA		PMALI04090	I	si

Conservation**Area Number****State****Conservation Area Name***Matrix Block Code(if any)*EOCODEGNAMEGRANKELCODEViability RankStratification Unit A

PMALI04090*016*SC	SAGITTARIA FASCICULATA		PMALI04090	V	si
PMALI04090*018*SC	SAGITTARIA FASCICULATA		PMALI04090	V	si
PMALI04090*019*SC	SAGITTARIA FASCICULATA		PMALI04090	V	si
PMALI04090*022*SC	SAGITTARIA FASCICULATA		PMALI04090	V	si

320**SC****SC_'05buf#33**

CTPXX00030*001*SC	Appalachian Highlands Xeric Hardpan Forests and Woodlands		CEGR040112	I	so
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321**SC****SC_'05buf#34**

CTPXX00020*005*SC	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	si
PDAST0T070*001*SC	ASTER AVITUS		PDAST0T070	I	si
PDBRA11060*004*SC	DRABA APRICA		PDBRA11060	I	si

322**SC****SC_'05buf#35**

PDCRA0A130*008*SC	SEDUM PUSILLUM		PDCRA0A130	I	no
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323**SC****SC_'05buf#36**

PDCRA0A130*015*SC	SEDUM PUSILLUM		PDCRA0A130	I	so
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324**SC****SC_'05buf#37**

PDFAB080E0*002*SC	AMORPHA SCHWERINII		PDFAB080E0	I	so
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325**SC****SC_'05buf#38**

CTPXX00020*001*SC	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	so
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**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
PDCRA0A130*014*SC	SEDUM PUSILLUM		PDCRA0A130	I	so
PDSCR02010*003*SC	AMPHIANTHUS PUSILLUS		PDSCR02010	I	so
<u>326</u>	SC				
	SC_'05buf#39				
CPPXX00010*011*SC	Appalachian Highlands Forested Acid Seeps		CEGR047020	V	si
PMALI04090*015*SC	SAGITTARIA FASCICULATA		PMALI04090	I	si
<u>327</u>	SC				
	SC_'05buf#40				
PMALI04090*017*SC	SAGITTARIA FASCICULATA		PMALI04090	I	so
<u>328</u>	SC				
	SC_'05buf#41				
PMLIL15040*009*SC	HYMENOCALLIS CORONARIA		PMLIL15040	I	so
<u>329</u>	SC				
	SC_'05buf#42				
PMLIL15040*012*SC	HYMENOCALLIS CORONARIA		PMLIL15040	I	no
<u>330</u>	SC				
	SC_'05buf#43				
PMLIL15040*013*SC	HYMENOCALLIS CORONARIA		PMLIL15040	I	so
<u>331</u>	SC				
	SC_'05buf#44				
PMLIL15040*014*SC	HYMENOCALLIS CORONARIA		PMLIL15040	I	so

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>332</u>	SC				
	SC_'05buf#45				
PMLIL15040*016*SC	HYMENOCALLIS CORONARIA		PMLIL15040	I	so
PMLIL15040*017*SC	HYMENOCALLIS CORONARIA		PMLIL15040	I	so
<u>334</u>	SC				
	Steven's/Turkey Creek				
CPPCX00020*008*SC	Appalachian Highlands Large River Floodplain Forests		CEGR040630	R	so
CPPCX00020*013*SC	Appalachian Highlands Large River Floodplain Forests		CEGR040630	R	so
CTPCX00010*016*SC	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	so
CTPCX00010*020*SC	Appalachian Highlands Small Stream / Terrace / Lower Slope Hardwood Fores		CEGR040520	V	so
CTPXX00010*007*SC	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	so
CTTX00010*024*SC	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	so
PDGRO020G0*001*SC	RIBES ECHINELLUM		PDGRO020G0	I	so
PDGRO020G0*002*SC	RIBES ECHINELLUM		PDGRO020G0	I	so
PDGRO020G0*003*SC	RIBES ECHINELLUM		PDGRO020G0	I	so
<u>335</u>	SC				
	Sugar Creek Catawba Confluence				
CTPCX00010*028*SC	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	no
PMLIL15040*003*SC	HYMENOCALLIS CORONARIA		PMLIL15040	R	no
<u>337</u>	SC				
	Woods Ferry				
PMLIL15040*001*SC	HYMENOCALLIS CORONARIA		PMLIL15040	R	so
<u>338</u>	VA-NC				
	CADWELL CREEK				
PDBRA0K0P0*009*VA	CARDAMINE MICRANTHERA		PDBRA0K0P0	V	ni

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>339</u> CP00003700*002*VA	VA-NC Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest		CEGL007403	V	no
<u>340</u> PMORC1F010*044*VA	VA ISOTRIA MEDEOLOIDES		PMORC1F010	I	ni
<u>341</u> CE00000200*009*VA	VA unclassified VA community		CEGL00XXXX	V	no
<u>342</u> CT00003900*014*VA	VA BALD KNOB - ROCKY MOUNT JUNIPERUS VIRGINIANA / TRIFOLIUM VIRGINICUM - TALINUM TERETIFOLIUM - OPUNTIA HUMIFUSA WOODLAND		CEGL006294	I	ni
CT00003900*015*VA	JUNIPERUS VIRGINIANA / TRIFOLIUM VIRGINICUM - TALINUM TERETIFOLIUM - OPUNTIA HUMIFUSA WOODLAND		CEGL006294	V	ni
PDPOR080C0*002*VA	TALINUM MENGESII		PDPOR080C0	V	ni
<u>343</u> CT00001500*024*VA	VA BALLS BLUFF REGIONAL PARK Acer (nigrum, saccharum) / Asimina triloba / Jeffersonia diphylla - Hydrophyllum canadense Forest		CEGL008412	V	tl
<u>344</u> CT00004900*013*VA	VA BIG HOUNDS CREEK GRANITE FLATROCK Appalachian Highlands Granitic Flatrocks		CEGR040820	V	no
PDPOR060H0*005*VA	PORTULACA SMALLII		PDPOR060H0	V	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>345</u>	VA				
	BIG OTTER RIVER NORTH SLOPE HABITAT ZONE				
CT00001500*018*VA	Acer (nigrum, saccharum) / Asimina triloba / Jeffersonia diphylla - Hydrophyllum canadense Forest		CEGL008412	V	ni
<u>346</u>	VA				
	BLUESTONE SLOPES				
CT00001500*001*VA	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest		CEGL008466	V	no
CT00002700*004*VA	Appalachian Highlands Xeric Hardpan Forests and Woodlands		CEGR040112	V	no
CT00002700*009*VA			CEGR040112	V	no
<u>348</u>	VA				
	BUGGS ISLAND				
CP00000800*001*VA	Appalachian Highlands Large River Floodplain Forests		CEGR040630	V	no
<u>349</u>	VA				
	BULL RUN BLUFFS AND LOWLANDS				
CP00000700*004*VA	Appalachian Highlands Large River Floodplain Forests		CEGR040630	V	tl
CT00002000*001*VA	Appalachian Highlands Large River Floodplain Forests		CEGR040630	V	tl
<u>350</u>	VA				
	BULL RUN DIABASE FLATWOODS				
CT00002700*015*VA	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	tl
<u>352</u>	VA				
	Buffalo Station				
CT00001200*018*VA	Appalachian Highlands Eastern Hemlock-Hardwood Forests		CEGR040525	V	ni
CT00001500*007*VA	beaver pond and other natural wetlands & marshes		CEGR0XXXXX	V	ni
CT00001500*017*VA	Acer (nigrum, saccharum) / Asimina triloba / Jeffersonia diphylla - Hydrophyllum canadense Forest		CEGL008412	V	ni

Conservation
Area Number

<u>EOCODE</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Matrix Block Code(if any)</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CT00002300*021*VA		Appalachian Highlands Xeric Oak Forests		CEGR040110		V	ni
CT00003900*024*VA		JUNIPERUS VIRGINIANA / TRIFOLIUM VIRGINICUM - TALINUM TERETIFOLIUM - OPUNTIA HUMIFUSA WOODLAND		CEGL006294		V	ni
CT00004300*001*VA		Eastern Wide-ranging Dry Alkaline Cliffs		CEGR040750		V	ni
<u>353</u>	VA	Bull Run Mtns.					
CP00001600*010*VA		Appalachian Highlands Forested Acid Seeps		CEGR047020		V	ni
CP00001600*011*VA		Appalachian Highlands Forested Acid Seeps		CEGR047020		V	ni
CP00001600*012*VA		Appalachian Highlands Forested Acid Seeps		CEGR047020		V	ni
CT00001300*019*VA		Appalachian Highlands Mesic Hardwood Forests		CEGR040510		V	ni
CT00001300*020*VA		Appalachian Highlands Mesic Hardwood Forests		CEGR040510		V	ni
CT00002200*009*VA		Appalachian Highlands Pitch and Table Mountain Pine Woodlands		CEGR040180		V	ni
CT00002200*010*VA		Appalachian Highlands Pitch and Table Mountain Pine Woodlands		CEGR040180		V	ni
CT00002500*007*VA		Appalachian Highlands Xeric Oak Forests		CEGR040110		I	ni
CT00004400*002*VA		Eastern Wide-ranging Dry Acid Cliffs		CEGR040740		V	ni
<u>354</u>	VA	CAMP BARRETT RAVINES					
PMORC1F010*030*VA		ISOTRIA MEDEOLOIDES		PMORC1F010		R	ni
<u>356</u>	VA	CARGILLS CREEK WILDLIFE MANAGEMENT AREA					
PDFAB2A1H2*004*VA		LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2		R	no
PDLAM1X160*002*VA		STACHYS SP 1		PDLAM1X160		I	no
<u>357</u>	VA	CARRIAGE FORD					
CT00003900*032*VA		JUNIPERUS VIRGINIANA / TRIFOLIUM VIRGINICUM - TALINUM TERETIFOLIUM - OPUNTIA HUMIFUSA WOODLAND		CEGL006294		V	tl

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>358</u> CT00003600*002*VA	VA Appalachian Highlands Xeric Hardpan Forests and Woodlands				
	CEDAR GROVE CHURCH FLATWOODS HABITAT ZONE		CEGR040112	V	no
<u>359</u> PMORC1F010*018*VA	VA ISOTRIA MEDEOLOIDES				
	CHESTNUT BRANCH		PMORC1F010	R	ni
<u>360</u> CT00001201*001*VA	VA Appalachian Highlands Eastern Hemlock-Hardwood Forests				
	CHOPAWAMSIK CREEK		CEGR040525	V	no
<u>364</u> CT00003900*030*VA	VA JUNIPERUS VIRGINIANA / TRIFOLIUM VIRGINICUM - TALINUM TERETIFOLIUM - OPUNTIA HUMIFUSA WOODLAND				
	Culpeper Flatwoods		CEGL006294	V	tl
<u>365</u> CP00003400*009*VA	VA beaver pond and other natural wetlands & marshes				
	DAVIDS CROSSROADS GRASSLANDS		CEGR0XXXXX	V	ni
<u>366</u> CT00004900*015*VA PDPOR060H0*006*VA	VA Appalachian Highlands Granitic Flatrocks PORTULACA SMALLII				
	DUNDAS GRANITE FLATROCK		CEGR040820 PDPOR060H0	V I	no no
<u>367</u> CP00000700*001*VA	VA Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest				
	Difficult Creek		CEGL007356	V	no

Conservation
Area Number

<u>EOCODE</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CP00000700*003*VA		Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest		CEGL007356	V	no
CP00000700*005*VA		Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest		CEGL007356	V	no
CP00000700*006*VA		Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest		CEGL007356	V	no
CP00000900*001*VA		Peltandra virginica - Saururus cernuus - Carex crinita / Climacium americanum Herbaceous Vegetation		CEGL007696	V	no
CT00002700*003*VA		Appalachian Highlands Xeric Hardpan Forests and Woodlands		CEGR040112	V	no
CT00002700*019*VA		Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	no
CT00003600*001*VA		Appalachian Highlands Xeric Hardpan Forests and Woodlands		CEGR040112	V	no
PDAST38030*027*VA		ECHINACEA LAEVI GATA		PDAST38030	R	no
PDFAB2A1H2*005*VA		LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	R	no
PDFAB2A1H2*006*VA		LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	R	no
PDFAB2A1H2*007*VA		LOTUS UNIFOLIOLATUS VAR HELLERI		PDFAB2A1H2	V	no
PPISO010P0*010*VA		ISOETES VIRGINICA		PPISO010P0	I	no
<u>368</u>	VA	EAGLE POINT FLATWOODS				
CP00003700*001*VA		Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest		CEGL007403	V	no
<u>370</u>	VA	ELK CREEK				
PDBRA0K0P0*006*VA		CARDAMINE MICRANTHERA		PDBRA0K0P0	R	ni
<u>371</u>	VA	ELKCLICK DIABASE FLATWOODS				
CP00003700*008*VA		Quercus palustris - Quercus bicolor / Carex spp. Forest		CEGL004643	V	tl
CT00002700*010*VA				CEGR040115	V	tl
CT00003300*009*VA		Fraxinus americana - Carya glabra / Schizachyrium scoparium - Helianthus divaricatus Woodland		CEGL003683	V	tl
PDLAM1N0G0*004*VA		PYCNANTHEMUM TORREI		PDLAM1N0G0	I	tl

Matrix Block Code(if any)

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
374	VA				
CT00004900*008*VA	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	no
PDPOR060H0*003*VA	PORTULACA SMALLII		PDPOR060H0	I	no
375	VA				
PDANA08070*003*VA	RHUS MICHAUXII		PDANA08070	I	no
378	VA				
PDLAM1N0G0*012*VA	PyCNANTHEMUM TORREI		PDLAM1N0G0	I	no
379	VA				
ABPBX91050*002*VA	AIMOPHILA AESTIVALIS		ABPBX91050	I	no
ABPBX91050*003*VA	AIMOPHILA AESTIVALIS		ABPBX91050	I	no
CP00000700*002*VA	Quercus pagoda - Quercus phellos - Quercus lyrata - Quercus michauxii / Chasmanthium latifolium Forest		CEGL007356	V	no
CP00003400*005*VA	beaver pond and other natural wetlands & marshes		CEGR0XXXXX	V	no
CT00001500*026*VA	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest		CEGL008466	V	no
CT00001500*027*VA	Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/ Adiantum pedatum - Sanguinaria canadensis Forest		CEGL008466	V	no
CT00002800*001*VA	Quercus alba - Quercus velutina - Quercus stellata / Schizachyrium scoparium - Desmodium spp. Woodland		CEGL003722	I	no
CT00002800*002*VA	Quercus alba - Quercus velutina - Quercus stellata / Schizachyrium scoparium - Desmodium spp. Woodland		CEGL003722	I	no
CT00002900*002*VA	Quercus alba - Carya glabra / Schizachyrium scoparium - Helianthus divaricatus - Salvia urticifolia - Parthenium integrifolium var. auriculatum Woodland		CEGL003721	I	no

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CT00002900*003*VA	Quercus alba - Carya glabra / Schizachyrium scoparium - Helianthus divaricatus - Salvia urticifolia - Parthenium integrifolium var. auriculatum Woodland		CEGL003721	I	no
CT00004900*006*VA	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	no
CT00004900*010*VA	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	no
CT00005000*005*VA	VA community		CEGL006572	V	no
CT00006400*001*VA	unclassified VA community		CEGL00XXXX	V	no
CT00006400*002*VA	unclassified VA community		CEGL00XXXX	V	no
PDANA08070*001*VA	RHUS MICHAUXII		PDANA08070	I	no
PDANA08070*002*VA	RHUS MICHAUXII		PDANA08070	I	no
PDANA08070*004*VA	RHUS MICHAUXII		PDANA08070	I	no
PDANA08070*005*VA	RHUS MICHAUXII		PDANA08070	I	no
PDLAM1N0G0*009*VA	PYCNANTHEMUM TORREI		PDLAM1N0G0	I	no

380 VA GASBURG GRANITE FLATROCK

CT00004900*001*VA	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	no
PDPOR060H0*001*VA	PORTULACA SMALLII		PDPOR060H0	I	no

381 VA GILBERT MILL

PDBRA0K0P0*003*VA	CARDAMINE MICRANTHERA		PDBRA0K0P0	R	ni
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382 VA GOLF COURSE GRANITE FLATROCK

CT00004900*014*VA	Appalachian Highlands Granitic Flatrocks		CEGR040820	V	no
PDPOR060H0*004*VA	PORTULACA SMALLII		PDPOR060H0	I	no

383 VA GRASSY HILL

CT00003300*002*VA	Fraxinus americana - Carya glabra / Schizachyrium scoparium - Helianthus divaricatus Woodland		CEGL003683	V	ni
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**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CT00003300*003*VA	Fraxinus americana - Carya glabra / Schizachyrium scoparium - Helianthus divaricatus Woodland		CEGL003683	V	ni
PDAST38030*001*VA	ECHINACEA LAEVI GATA		PDAST38030	V	ni
PDAST38030*012*VA	ECHINACEA LAEVI GATA		PDAST38030	V	ni

384

VA GREAT CREEK FOREST
 Fagus grandifolia - Quercus rubra / Ostrya virg - Acer barbatum/
 Adiantum pedatum - Sanguinaria canadensis Forest

CT00001500*006*VA			CEGL008466	V	no
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385

VA HOBBS CHAPEL
 AIMOPHILA AESTIVALIS

ABPBX91050*001*VA			ABPBX91050	V	no
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386

VA HOGAN CREEK FLATWOODS
 Quercus phellos / Carex (albolutescens, intumescens, jorii) -
 Chasmanthium sessiliflorum / Sphagnum lescurii Forest
 Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood
 Forests
 LOTUS UNIFOLIOLATUS VAR HELLERI

CP00003700*004*VA			CEGL007403	V	no
CT00002700*002*VA			CEGR040115	V	no
PDFAB2A1H2*003*VA			PDFAB2A1H2	I	no

388

VA HYCO LANDING

CT00002700*008*VA			CEGR040115	V	no
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389

VA HYCO RIVER: US 501 TO RT. 744
 Appalachian Highlands Large River Floodplain Forests
 Appalachian Highlands Riverfront and Levee Forests and
 Shrublands
 PHACELIA COVILLEI

CP00000700*008*VA			CEGR040630	V	no
CP00000800*006*VA			CEGR040640	V	no
PDHYD0C530*005*VA			PDHYD0C530	I	no

<u>Conservation Area Number</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Matrix Block Code(if any)</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>EOCODE</u>	<u>GNAME</u>						
<u>390</u> CT00004900*002*VA	VA	Headwaters of the Nottoway/Falls of the Nottoway Appalachian Highlands Granitic Flatrocks					
				CEGR040820		V	no
<u>391</u> CT00005200*001*VA	VA	JACKS CREEK Pinus rigida / Schizachyrium scoparium - Senecio plattensis Wooded Herbaceous Vegetation					
				CEGL006084		I	ni
<u>394</u> PDBRA0K0P0*004*VA	VA	LITTLE SPOON CREEK CARDAMINE MICRANTHERA					
				PDBRA0K0P0		V	ni
<u>395</u> PDBRA0K0P0*002*VA	VA	LONG BRANCH CARDAMINE MICRANTHERA					
				PDBRA0K0P0		I	ni
<u>396</u> CT00004900*005*VA	VA	LONG BRANCH GRANITE FLATROCK Appalachian Highlands Granitic Flatrocks					
				CEGR040820		V	no
<u>397</u> PMORC1F010*035*VA	VA	LOWER MOUNT WEST ISOTRIA MEDEOLOIDES					
				PMORC1F010		R	ni
<u>398</u> CP00000700*007*VA	VA	LOWER ROANOKE (STAUNTON) RIVER Appalachian Highlands Large River Floodplain Forests					
				CEGR040630		V	no

Conservation**Area Number****State****Conservation Area Name***Matrix Block Code(if any)*EOCODEGNAMEGRANKELCODEViability RankStratification Unit A

CP00000800*005*VA			CEGR040630	V	no
CP00001200*001*VA	beaver pond and other natural wetlands & marshes		CEGR0XXXXX	V	no
CP00001200*003*VA	beaver pond and other natural wetlands & marshes		CEGR0XXXXX	V	no
CT00001300*001*VA	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	no
CT00001300*017*VA	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	no
CT00001300*018*VA	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	no
CT00002700*001*VA	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	no
PDLAM1X160*001*VA	STACHYS SP 1		PDLAM1X160	I	no

400**VA****MANASSAS DIABASE UPLANDS**

CP00003700*007*VA	Quercus palustris - Quercus bicolor / Carex spp. Forest		CEGL004643	V	tl
CT00002700*016*VA	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	tl
CT00002700*017*VA	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	tl
CT00002700*018*VA	Appalachian Highlands Circumneutral / Basic Dry-mesic Hardwood Forests		CEGR040115	V	tl

401**VA****MARKHAM BOTTOMLAND**

CP00000800*004*VA	Appalachian Highlands Large River Floodplain Forests		CEGR040630	V	tu
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403**VA****MONTPELIER FOREST**

CT00001500*005*VA	beaver pond and other natural wetlands & marshes		CEGR0XXXXX	V	ni
CT00002700*005*VA			CEGR040115	V	ni

405**VA****NOKESVILLE DIABASE FLATWOODS**

CT00005000*004*VA	VA community		CEGL006572	V	tl
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**Conservation
Area Number**

State

Conservation Area Name

Matrix Block Code(if any)

EOCODE

GNAME

GRANK

ELCODE

Viability Rank

Stratification Unit A

<u>EOCODE</u>	<u>GNAME</u>	<u>Conservation Area Name</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>410</u> PDANA08070*006*VA	VA RHUS MICHAUXII	NOTTOWAY-TOMMEHETON DIVIDE		PDANA08070	I	no
<u>412</u> PDLAM1X160*003*VA	VA STACHYS SP 1	PANHANDLE CREEK		PDLAM1X160	I	no
<u>413</u> CT00001500*014*VA	VA Acer (nigrum, saccharum) / Asimina triloba / Jeffersonia diphylla - Hydrophyllum canadense Forest	PATON ISLAND SHORE		CEGL008412	V	ni
<u>414</u> PDBRA0K0P0*012*VA	VA CARDAMINE MICRANTHERA	PETERS CREEK CENTRAL		PDBRA0K0P0	I	ni
<u>416</u> PMORC1F010*019*VA	VA ISOTRIA MEDEOLOIDES	POWELLS CREEK TRIBUTARY		PMORC1F010	R	ni
<u>417</u> CP00003400*008*VA CP00003400*010*VA CP00003500*015*VA CT00001202*001*VA CT00001202*002*VA	VA beaver pond and other natural wetlands & marshes beaver pond and other natural wetlands & marshes Appalachian Highlands Forested Acid Seeps Appalachian Highlands Eastern Hemlock-Hardwood Forests Appalachian Highlands Eastern Hemlock-Hardwood Forests	Quantico/Prince William FP		CEGR0XXXXX CEGR0XXXXX CEGR047020 CEGR040525 CEGR040525	V V V V V	ni ni ni ni ni

**Conservation
Area Number**

State Conservation Area Name

Matrix Block Code(if any)

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
CT00002800*005*VA	Quercus alba - Quercus velutina - Quercus stellata / Schizachyrium scoparium - Desmodium spp. Woodland		CEGL003722	I	ni
CT00002800*006*VA	Quercus alba - Quercus velutina - Quercus stellata / Schizachyrium scoparium - Desmodium spp. Woodland		CEGL003722	I	ni
CT00005000*001*VA	VA community		CEGL006572	V	ni
CT00005000*002*VA	VA community		CEGL006572	I	ni
PMORC1F010*005*VA	ISOTRIA MEDEOLOIDES		PMORC1F010	I	ni
PMORC1F010*016*VA	ISOTRIA MEDEOLOIDES		PMORC1F010	I	ni
PMORC1F010*017*VA	ISOTRIA MEDEOLOIDES		PMORC1F010	I	ni
PMORC1F010*025*VA	ISOTRIA MEDEOLOIDES		PMORC1F010	R	ni
PMORC1F010*026*VA	ISOTRIA MEDEOLOIDES		PMORC1F010	V	ni
PMORC1F010*028*VA	ISOTRIA MEDEOLOIDES		PMORC1F010	R	ni
PMORC1F010*029*VA	ISOTRIA MEDEOLOIDES		PMORC1F010	R	ni
PMORC1F010*031*VA	ISOTRIA MEDEOLOIDES		PMORC1F010	R	ni

418

VA RICH CREEK

PDBRA0K0P0*005*VA	CARDAMINE MICRANTHERA		PDBRA0K0P0	R	ni
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419

VA ROANOKE RIVER BLUFF

CT00001200*003*VA	Appalachian Highlands Eastern Hemlock-Hardwood Forests		CEGR040525	V	ni
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422

VA RUSSELL ROAD SLOPES

PMORC1F010*036*VA	ISOTRIA MEDEOLOIDES		PMORC1F010	R	no
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423

VA SANDY CREEK

CT00001300*016*VA	Appalachian Highlands Mesic Hardwood Forests		CEGR040510	V	no
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Stratification Unit A

<u>EOCODE</u>	<u>GNAME</u>	<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>424</u> PMORC1F010*027*VA	VA ISOTRIA MEDEOLOIDES				
	SHOALS ROAD		PMORC1F010	R	ni
<u>425</u> CT00001500*002*VA	VA Acer (nigrum, saccharum) / Asimina triloba / Jeffersonia diphylla - Hydrophyllum canadense Forest				
	SMITH RIVER RT. 682 SLOPES		CEGL008412	V	ni
<u>428</u> PDBRA0K0P0*010*VA PDBRA0K0P0*011*VA	VA CARDAMINE MICRANTHERA CARDAMINE MICRANTHERA				
	SPOON CREEK		PDBRA0K0P0 PDBRA0K0P0	R I	ni ni
<u>429</u> CE00000200*008*VA	VA unclassified VA community				
	SWIFT CREEK MARSHES		CEGL00XXXX	V	no
<u>430</u> CP00003700*005*VA PDLAM1N0G0*001*VA	VA Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest PYCNANTHEMUM TORREI				
	Seneca Creek		CEGL007403 PDLAM1N0G0	V I	ni ni
<u>436</u> CT00003300*023*VA PDPOR080C0*001*VA	VA Quercus stellata - Carya carolinae-septentrionalis / Piptochaetium avenaceum - Danthonia spicata Woodland TALINUM MENGESII				
	Thornton Mountain		CEGL003713 PDPOR080C0	V V	ni ni

<u>Conservation Area Number</u>	<u>State</u>	<u>Conservation Area Name</u>	<u>Matrix Block Code(if any)</u>			
<u>EOCODE</u>	<u>GNAME</u>		<u>GRANK</u>	<u>ELCODE</u>	<u>Viability Rank</u>	<u>Stratification Unit A</u>
<u>439</u> PMORC1F010*034*VA	VA ISOTRIA MEDEOLOIDES	UPPER MOUNT WEST		PMORC1F010	R	ni
<u>440</u> IMGAS78160*001*VA	VA PARAVITREA HERA	VA_'05buf#XX		IMGAS78160	I	ni
<u>441</u> CT00005000*003*VA PDSCR01130*005*VA	VA VA community AGALINIS AURICULATA	VULCAN GAINESVILLE TRACT		CEGL006572 PDSCR01130	V I	tl tl
<u>443</u> PDMAL100C0*006*VA	VA SIDA HERMAPHRODITA	WARREN RIVERSIDE		PDMAL100C0	I	ni
<u>444</u> CP00003700*006*VA CT00002700*006*VA CT00002700*007*VA	VA Quercus phellos / Carex (albolutescens, intumescens, jorii) - Chasmanthium sessiliflorum / Sphagnum lescurii Forest	WILLIS RIVER BASIC SLOPES		CEGL007403 CEGR040115 CEGR040112	V V V	tu tu no
<u>445</u> PMJUN010K0*015*VA	VA JUNCUS CAESARIENSIS	WRIGHTS CORNER SOUTH		PMJUN010K0	I	no
<u>446</u>	VA	Watery Mtns.				

**Conservation
Area Number**

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Conservation Area Name

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GRANK

ELCODE

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Stratification Unit A

CT00003900*001*VA JUNIPERUS VIRGINIANA / TRIFOLIUM VIRGINICUM - TALINUM
TERETIFOLIUM - OPUNTIA HUMIFUSA WOODLAND
CT00003900*002*VA JUNIPERUS VIRGINIANA / TRIFOLIUM VIRGINICUM - TALINUM
TERETIFOLIUM - OPUNTIA HUMIFUSA WOODLAND
PDLAM1N0G0*002*VA PYCNANTHEMUM TORREI

CEGL006294 V ni
CEGL006294 V ni
PDLAM1N0G0 I ni

OVERVIEW OF PIEDMONT TERRESTRIAL GOAL STATUS

OVERALL GOALS

	Met or Exceeded	Fell Short	No Goal Expressed
Natural Communities	12 (13.6%)	76 (86.4%)	0
Species	9 (10.1%)	74 (83.1%)	6 (6.7%)
Total	21 (11.9%)	150 (84.7%)	6 (3.4%)

STRATIFICATION GOALS

	Met or Exceeded	Fell Short	No Goal Expressed
Natural Communities	46 (8.7%)	179 (33.9%)	303 (57.4%)
Species	18 (3.4%)	139 (26.0%)	377 (70.6%)

Piedmont Ecoregion - Draft Freshwater Conservation Areas

12/9/2006

<u>Freshwater Conservation Area Code</u>	<u>Conservation Area Name</u>	<u>Acres</u>	<u>Hectares</u>	<u>Ecological Drainage Unit Code</u>	<u>Mott Plan Code</u>
1	Potomac River	48,879.9	19,781.0	5.06	
2	Goose Creek	247,141.6	100,014.6	5.06	
3	Bull Run	59,792.1	24,197.0	5.06	
4	Upper Rappahannock River/Hazel River	528,376.3	213,826.3	5.05	
5	Aquia Creek	35,674.7	14,437.0	5.06	
6	Rapidan River	117,461.1	47,534.8	5.05	
7	Upper Matta and Po Rivers	101,314.6	41,000.6	5.05	
8	North and South Forks Rivanna River	284,363.5	115,077.8	5.05	
9	Upper Appomattox River	125,570.1	50,816.4	5.05	
10	Buffalo Creek	22,132.0	8,956.5	5.05	
11	Briery Creek	27,249.0	11,027.3	5.05	
12	Flat Creek	73,874.5	29,896.0	5.05	
13	Nottoway River/Stony Creek	790,522.7	319,913.2	3.02	
14	Upper Meherrin River	475,355.6	192,369.6	3.02	
15	Pigg River	249,197.0	100,846.4	3.01	
16	Goose Creek	164,811.2	66,696.7	3.01	
17	Big Otter River	248,186.1	100,437.4	3.01	
18	Falling Creek	151,240.4	61,204.8	3.02	
19	Upper Dan/Mayo Rivers	667,985.7	270,324.2	3.01	
20	Ocmulgee River/Towaliga Creek/Falling Creek	348,945.4	141,213.2	3.12	
21	Upper Smith River	68,869.6	27,870.5	3.01	
22	Roanoke/Dan River confluence	12,756.7	5,162.5	3.02	
23	Upper Tar River	380,675.8	154,054.0	3.02	
24	Fishing and Swift Creeks/Middle Tar River	599,797.4	242,729.4	3.02	
25	Neuse River headwaters	278,628.1	112,756.8	3.02	
26	Crabtree Creek	93,082.0	37,668.9	3.02	
27	Middle Neuse River and tributaries	352,597.6	142,691.2	3.02	
28	Blue Pond	3,674.7	1,487.1	3.02	
29	Upper Haw River	120,766.2	48,872.4	3.04	
30	Middle Haw River tributaries	86,559.3	35,029.3	3.04	
31	Deep/Rocky/Haw/Cape Fear Rivers	345,120.3	139,665.2	3.04	
32	Roaring River	89,200.5	36,098.2	3.06	
33	Mitchell River	73,700.8	29,825.7	3.06	
34	Yadkin River/Horne Creek	31,561.5	12,772.5	3.06	
35	Dutchman's Creek	82,908.6	33,551.9	3.06	
36	Hunting Creek	138,635.4	56,103.8	3.06	
37	Uwharrie River	248,229.2	100,454.8	3.06	
38	Dutch Buffalo Creek	64,630.0	26,154.8	3.06	
39	Goose Creek	27,053.0	10,948.0	3.06	
40	Crooked Creek	33,836.0	13,692.9	3.06	
41	Richardson Creek	150,080.8	60,735.5	3.06	
42	Lower Rocky River	9,556.2	3,867.2	3.06	

<u>Freshwater Conservation</u>				<u>Ecological Drainage</u>	<u>Mott Plan</u>
<u>Area Code</u>	<u>Conservation Area Name</u>	<u>Acres</u>	<u>Hectares</u>	<u>Unit Code</u>	<u>Code</u>
43	Brown Creek	111,825.5	45,254.2	3.06	
44	Little River (Pee Dee drainage)	173,657.1	70,276.5	3.06	
45	Middle Pee Dee River	34,878.8	14,115.0	3.07	
46	Jones Creek	63,916.4	25,866.0	3.07	
47	Upper Lynches River and sandhills tributaries	509,630.4	206,240.1	3.07	
48	Linville River	42,975.0	17,391.3	3.08	
49	Johns River/Warrior Fork Catawba River	191,090.4	77,331.5	3.08	
50	South Fork Catawba River headwaters	134,935.1	54,606.3	3.08	
51	Long Creek	9,095.8	3,681.0	3.08	
52	Sixmile Creek	25,392.6	10,276.0	3.08	
53	Waxhaw Creek	33,664.2	13,623.4	3.08	
54	Gills Creek	19,454.9	7,873.1	3.08	
55	Green River	111,657.8	45,186.3	3.08	
56	Upper First Broad River	65,658.9	26,571.2	3.08	
57	Kings Creek	43,902.5	17,766.7	3.08	
58	Broad River	36,360.8	14,714.7	3.08	
59	Clark Fork Broad River	27,564.2	11,154.8	3.08	
60	Salada River headwaters	157,938.0	63,915.2	3.08	
61	Lake Greenwood	43,365.0	17,549.2	3.08	
62	Clouds Creek	63,681.4	25,770.9	3.08	
63	Hudson/Broad River/Long Creek	221,195.1	89,514.5	3.10	
64	Stevens Creek/Turkey Creek	379,964.7	153,766.3	3.10	
65	Savannah River	152,364.6	61,659.8	3.11	
66	Brier Creek/Boggy Gut Creek	544,297.2	220,269.3	3.11	
67	Middle Oconee/North Oconee Rivers	298,499.5	120,798.5	3.12	
68	Apalachee River	173,582.5	70,246.3	3.12	
69	Murder Creek/Lower Little River	140,258.1	56,760.4	3.12	
70	Upper Chattahoochee River	272,772.4	110,387.1	5.08	
71	Chestatee River	165,389.9	66,930.9	5.08	
72	Whooping Creek	20,091.4	8,130.7	5.08	
73	Wehadkee Creek	47,970.0	19,412.8	5.08	
74	Flat Shoal Creek	10,591.3	4,286.2	5.08	
75	Flint River/Potato Creek	516,485.2	209,014.1	5.08	
76	Cane Creek/Warm Springs	40,183.3	16,261.6	5.08	
77	Pigeon Creek/Tom Brown Spring	20,674.0	8,366.5	5.08	
78	White Sulpher Springs	698.1	282.5	5.08	
79	Upper Tallapoosa River	452,761.8	183,226.2	4.01	
80	Little Tallapoosa River	376,093.6	152,199.7	4.01	
81	Middle Tallapoosa River and tributaries	194,435.9	78,685.4	4.01	
82	Hillabee Creek	179,437.1	72,615.6	4.01	
83	Lake Martin tributary	23,611.6	9,555.3	4.01	
84	Gold Branch	7,494.4	3,032.9	4.01	
85	Upper Coosawattee River	211,390.4	85,546.7	4.02	
86	Talking Rock Creek	93,669.2	37,906.6	4.02	
87	Upper Etowah River	411,438.2	166,503.1	4.02	

<u>Freshwater Conservation Area Code</u>	<u>Conservation Area Name</u>	<u>Acres</u>	<u>Hectares</u>	<u>Ecological Drainage Unit Code</u>	<u>Mott Plan Code</u>
88	Stamp Creek	20,558.5	8,319.7	4.02	
89	Raccoon/Pumpkinvine Creeks	105,223.8	42,582.6	4.02	
90	Cedar Creek	73,057.0	29,565.1	4.02	
91	Dead River Coosa/Terrapin Creek	181,165.5	73,315.1	4.02	
92	Choccolocco Creek	327,100.1	132,372.7	4.02	
93	Hatchet/Weogufka Creeks	312,702.4	126,546.2	4.02	
94	Sofkahatchee Creek	28,474.9	11,523.4	4.02	
95	Ballinger's Creek	12,668.0	5,126.6	5.05	
96	James River	38,597.3	15,619.8	5.05	
97	South Anna River	298,293.4	120,715.0	5.05	
98	Tye River/Piney River	127,093.7	51,433.0	5.05	

List of Standardized Threats by Category and their Stress Descriptors

FORESTRY

Forestry Conversion -- the elimination of native forest and the replanting of off-site or non-native species (active: ongoing conversion; historic: past conversion that needs restoration)

- Off-site or Non-native species planted (list)
- Other (list)

Incompatible Forestry Practices/Management -- any forestry activity, from clearcutting to shelterwood, that negatively impacts one or more targets (active: ongoing forestry practices; historic: the altered structure and composition caused by forestry practices are still present)

- Clearcutting
- Extensive Soil Disturbance
- Forestry Roads
- High Grading
- Other (list)

AGRICULTURE

Agriculture/Pasture Conversion -- the elimination of native vegetation for agricultural crops or pasture (active: ongoing conversion; historic: past conversion that needs restoration)

- Agriculture: List primary crops
- Pasture: List primary pasture animals
- Other (list)

Incompatible Agricultural Practices -- any agricultural practices, nutrients, toxins, sedimentation, that negatively impacts one or more targets (active: ongoing agricultural practices; historic: the impacts from past practices are still present in the soil)

- Nutrients
- Sedimentation
- Toxins
- Other (list)

Incompatible Grazing Practices -- any grazing practices, sedimentation, nutrients, in-stream watering that negatively impacts one or more targets (active: ongoing grazing practices; historic: the impacts from past practices are still present)

- In-stream Watering
- Nutrients
- Sedimentation
- Other (list)

Animal Production Practices -- high-density livestock, fowl or other production facilities that impact one or more targets through sedimentation, nutrients, or toxins (active: ongoing feedlots/practices; historic: site of past feedlots/practices that needs restoration)

- Feedlot
- Fowl Production
- Hog Production
- Other (list)

MINERAL RESOURCE EXTRACTION

Incompatible Resource Extraction Practices -- current or proposed mineral, oil, gas or any ground disturbing mining that impacts targets through habitat destruction and disturbance, secondary impacts of sedimentation or toxins and the cumulative impacts on infrastructural needs -- (Current practices may be scored as either active: ongoing resource extraction; or historic: past resource extraction that still impacts targets and requires restoration-- while Proposed practices are scored only as active)

- Mining
- Instream Mining
- Oil and Gas Drilling
- Wind Farms
- Other (list)

DEVELOPMENT

Urban/Suburban Development -- presence of urban and suburban development, including commercial and industrial development, including the expansion of development and the stresses caused by development

impacting targets through habitat destruction and disturbance, nutrients, sedimentation, toxins, and air-borne pollutants (score only as active)

- Urban Housing
- Suburban Housing
- Second Home
- Resort/Vacation
- Other (list)

Industrial Development -- presence of industrial development impacting targets through habitat destruction and disturbance, toxins, and air-borne pollutants (active: ongoing industrial activity; historic: site of past industrial development with impacts from past activity still impacting targets)

- Other (list)

Development of Roads/Utilities -- current or proposed development of roads and utility right-of-ways impacting targets through habitat destruction and disturbance, fragmentation, and invasives (score only as active)

- Interstate Highway
- State Highway
- Railroads
- Power Lines
- Gas Lines
- Other (list)

HYDROLOGIC AND WATER QUALITY

Operations/Presence of Dams/Impoundments -- current operations that affect hydrologic regime and fragment aquatic habitat, ranging from agricultural ponds to reservoirs and large dams (score only as active)-- or proposed construction of dams, impoundments, reservoirs that will impact, alone or cumulatively, the hydrologic regime and fragment aquatic habitat (score only as active)

- FERC Relicensing
- FERC Relicensing
- Public Reservoir
- Private Agricultural
- Private Recreational
- Other (list)

Water Withdrawal -- current or proposed water withdrawal that is/will impact(ing) targets dependent on the hydrologic regime (score only as active)

- Agriculture
- Industrial
- Water Supply
- Other (list)

Excessive Groundwater Withdrawal -- removal of groundwater resulting in a lowered water table and local aquifer discharges (score only as active)

- Agriculture
- Industrial
- Water Supply
- Other (list)

Channel Modification -- includes channelization, ditching, dikes, and diversions that impact targets dependent on natural stream/river morphology and hydrologic regimes (score only as active)

- Channelization
- Ditching
- Dredging
- Headcutting
- Levee and Dikes
- Other (list)

COASTAL

Shoreline Stabilization --any stabilization of shorelines that disrupts natural coastal processes (score only as active)

- Jetties
- Sea Walls
- Other (list)

Sea Level Rise -- an active threat only to targets that occur in terrestrial sites at sea level without a landscape context that allows migration to higher elevations (score only as active)

- Other (list)

Global Climate Change --

- Other (list)

OTHER

Invasive Species -- the presence or the potential of introduction of invasive species that alter ecological processes or directly threaten one or more targets (only active threat)

- Accidental/Historical Animals
- Accidental/Historical Plants
- Agricultural Plants
- Game Animals
- Horticultural Plants
- Other (list)

Parasites and Pathogens -- native or non-native parasites or pathogens that impacts the mortality or demographics of populations (score only as active)

- Describe parasite or pathogen

Altered Fire Regime -- includes inappropriate fire management, from no fire to too much fire that impacts targets (score only as active)

- Fire Suppression
- Inappropriate Fire Practices
- Management Policy
- Other (list)

Incompatible Fire Policy -- includes fire suppression and smoke management guidelines (score only as active)

- Other (list)

Recreation -- includes all recreational activities: vehicles, trampling, development of recreational sites that directly impact targets through habitat destruction and disturbance or indirectly through sedimentation, etc. (active: ongoing recreation; historic: past recreation impacts that need restoration)

- ATVs
- Biking
- Boating
- Hiking
- Jet Skis
- Skiing
- Other (list)

Gravel Roads -- dirt or gravel roads that are a source of sediment and allows access and establishment of non-natives (active: roads are currently being built and used; historic: roads are not used but still are a source of stress)

- Other (list)

Military Mission -- includes military activities that cause one or more stresses to targets (active and historic)

- Other (list)

Dumping of Trash/Toxins -- includes all types of dumping but with an emphasis on dumping of toxins (constituents that move beyond the actual site of dumping) and location that facilitate the movement of toxins throughout the site (dumping in sinkholes) (score as active or historic)

- Physical Destruction
- Pollution
- Other (list)

Overexploitation of Species -- poaching, hunting, and collection that directly impacts the demographics of populations (active: ongoing overexploitation; historic: past overexploitation that requires restoration/reintroduction to make the population viable)

- Over Collection of Plants (list which species)
- Over Collection of Animals (list which species)
- Overfishing (list which species)
- Other (list)

Absence/Overabundance of Biotic Elements -- includes the absence of grazers (bison), browsers (elk), and wetland engineers (beavers) or overabundance of the same

- List biotic elements missing from system
- List biotic element(s) that are overabundant in system

Air-borne Pollutants/Nutrients -- air-borne pollutants or nutrients that impact targets (active: ongoing; historic: past pollutants or nutrients that are still present in the system)

- Acid Rain
- Nutrients
- Ozone
- Other (list)

Scientific Research

- Other (list)