

Introductions

What are you looking to get out of this event?

Thesis – Grad Student Undergrad Conservation knowledge How AL AM – how lab can contribute to LCC/Partners Geospatial ** Water Quality Meet coop Priorities of AppLCC – how FWS can integrate and contribute USDA - Farm Bill Funding How AppLCC can help with state species prioritization Ecosystem based conservation – learn from partners Watershed/Water Quality - Soil Con Similarities to TNC regional planning efforts Network/Learn ** What the AppLCC does How to be involved with AppLCC Help provide input to AppLCC FWS Partners Program – how program can engage with AppLCC

Workshop Objectives

- Gain knowledge of the landscape-level approach to conservation planning
- Identify how your efforts fit into this "bigger" picture
- Know how to access and use AppLCC resources
- See the utility of AppLCC resources for your conservation efforts
- Develop an understanding and identify the utility of Regional Conservation Designs
- Provide feedback to enhance AppLCC resources for end-users

Facilitated Group Discussion

Landscape Level Conservation

Q. Do you see a need to work at a landscape-level? – Are there examples (what, where, scope, priorities)?

Q. What barriers have you experienced or currently exist that influences your ability to work at a larger-scale? How have you been able to overcome those?

Q. Do you see a need to work at a landscape-level? – Are there examples (what, where, scope, priorities)?

- AL SHU
- Long-leaf Pine Initiative (USDA)
- Gopher T large scale
- There is a need all working for a common goal, setting priorities for collective action. Ground work at to "why the work should be done" is already there. Folks at the local level then need to make the decisions on what to act on.
- Barrier implementation
- Boots on the ground a suite of local level action that fit into landscape level priorities
- Feedback loop continuous

Q. What barriers have you experienced or currently exist that influences your ability to work at a larger-scale? How have you been able to overcome those?

- Communication breakdown feedback loop gets broken challenge due to scale, number of participants
- Communication how to communicate the importance of ecosystems instead of a species – in turn taking a larger scale approach to conservation planning
- Messaging challenge due to larger scale people express concern
- Capacity limited funding, funding can not work across state line
- People see \$\$ being taken away from local efforts and moved toward larger scale initiatives
- Policy can slow the process
- How to work across different agendas? how should the pie be distributed
- Lack of Standardization need guidelines that cover larger scales
- Improved Information-sharing*** control of data can creep in, where to go to find
 preexisting data sets Need central database!! how can this be done effectively
 with the diverse set of partners who have their own agenda capacity needed just to
 keep the database up to date agencies are restricted to use certain
 software/database
- Attrition loss of point person for data sets

A Forum for Landscape Conservation Collaboration & Action – Sharing Expertise, Innovation, Resources

- Session Objectives highlighting a key mission of the LCC, bringing diverse partners together to identify and work on key priorities to move landscape conservation forward.
- Resources to connect diverse partners and people on our Web Portal.
- Enhancing partner synergy in focal areas: Tennessee River Basin.

Discussion and how to get involved.



Resources to Connect: AppLCC Portal

www.applcc.org



Enhancing Landscape Conservation



Delivering the Science: Tools and Assessments



Coordinating Landscape Planning and Design



Networking for the Conservation Community



Sharing Maps and Data

OVERVIEW: Using AppLCC Science Investments



GET STARTED

Resources to Connect: Information Sharing

News

by admin - last modified Jan 23, 2015 08:26 AM - History



Appalachian Wildlife Center - Partnering for Wildlife and People in an Economically-Depressed Region

by Wildlife Management Institute - Feb 16, 2017 08:42 AM

Wildlife and People in an Economically-

Appalachian Wildlife Center - Partnering for hip between the Appalachian Wildlife Foundation, the Kentucky Ife Resources, and others is working to establish wildlife-related

num region or nemocky and the surrounding states by building a state-of-the-art wildlife education facility designed to share with visitors the incredible natural resources of the region.

Read More...

NFWF Monarch Butterfly Conservation Fund 2017 Funding Opportunity

by National Fish and Wildlife Foundation - Feb 09, 2017 01:37 PM

The NFWF Monarch Butterfly Conservation Fund is now accepting applications for competitive funding.

Read More...



A Conservation Action Map for the TRB Network

by Matthew Cimitile - Feb 06, 2017 08:45 AM

During the Tennessee River Basin Network's 2016 annual meeting, members participated in exercises that helped produce a Conservation Action Map, showcasing the who, what, and where of conservation activities and projects in the Basin.

Read More...



Biennial Spotlight on National Park Resources

by Matthew Cimitile - Feb 06, 2017 08:41 AM

A new area on our Web Portal is dedicated to a collection of talks and posters that celebrate the National Park Service Centennial and highlight the many accomplishments in natural and cultural resource management and stewardship.

Read More...



AppLCC Events CALENDAR GRID

ADD EVENTS



UPCOMING EVENTS

PAST EVENTS

Recent Events

- The Southeast Aquatic Conservation Strategy
- What is Ecological Drought? Exploring its impacts on natural and cultural resources
 - ... More
- Responding to Drought and Water Challenges

... More

View All

RSS Feeds

- Our Work
- News
- Research
- Projects

Manage portlets

- News/Events
- Partner Projects
- Partner Newsletters





ued monthly by the

Outdoor Ballot Initiatives Win Big on Election Day Voters across the country gave

for conservation related initiatives during the 2012 election. This year, 46 of the 57 conservation funding ballots passed, an approval rate of 81 percent. There were three statewide initiatives on the ballot in 2012 as well as a number of municipal and county initiatives that nitiatives will direct more than \$2 billion towards rvation to support parks, open spaces, working farms and ranches, and to improve water quality; of tha \$767 million is new funding. In addition, four states supported ballot initiatives that amend the state's constitution to guarantee citizens' rights to hunt and fish, reports the Wildlife Management Institute.

California's Strategic Vision for Fish and

AFISHEL

Resources to Connect: Expertise Database

Search Our Members Expertise Database

Check the expertise categories below or simply type in a Members Name, Organization, and/or State. To see all members in the directory, just click the **SEARCH button with no categories or fields** selected. Hit RESET to start a new search.



Not a Member of the AppLCC and the **Expertise Database?**

JOIN NOW!



Already a Member and want to edit your member profile?

ADD YOUR EXPERTISE!



Need help using the **Expertise Search? READ OUR GUIDES**













Taxa / Group

Aquatics: Fish

- Recreational/Game fisheries
- Non-Game/Native fish conservation
- Commercial fisheries
- Diadromous fish

Aquatics: Invertebrates

- Crayfish
- Snail
- Mussel

Habitat / System Leve Management

Aquatic: Freshwat

- River/stream ecology
- Cave/karst ecology
- Wetland ecology
- Hydrology and geomor
- Reservoirs and Lakes

Aquatic: Coastal/N

- Wetland/Marsh/Estuari
- Intertidal

Dwight Cooley Project Leader

Fish and Wildlife

Biologist

Lee Holt

U.S. Fish and Wildlife Service

Interior Plateau

Southwestern Appalachians

Alabama

Forest/natural cover

Non-Game/Native fish conservation

Wetland ecology Early successional forest

Lowland/mesic forests

communities (e.g., firedependent forests, etc.)

Terrestrial systems/resources

(incl. geochemical, nutrients) Rivers/Streams - Instream Habitat

Upland/mixed forest

Grassland/shrub Disturbance-dependent

Rivers/Streams -Streambank/Riparian

Commercial fisheries

River/stream ecology

Reservoirs and Lakes

Aquatic systems/resources (incl.

Geospatial (GIS) Aquatic

Aquatic Invasive animal

Watershed and water delivery management (dams, reservoirs) (incl. dam removal/fish passage)

management, restoration Recreational/Game fisheries

management, restoration

Open grassland and

shrub/natural cover

Benthic Macroinvertebrates

Cave/karst ecology

instream flow)

Interior Plateau

Ridge and Valley

Southwestern Appalachians

Alabama

Connecting Groups through Collaborative Work Space

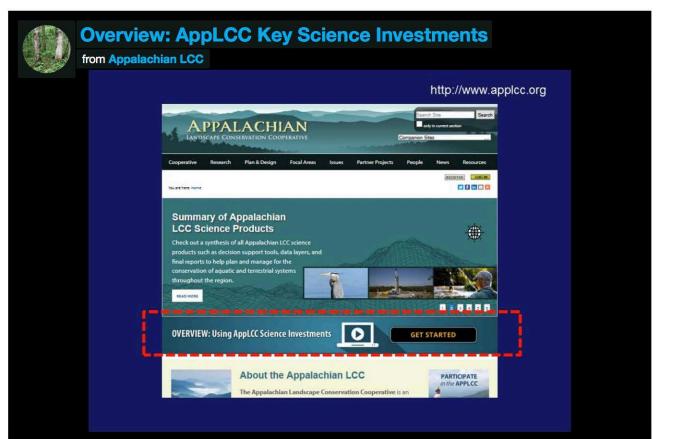


You can join a community of practice, request to create a new group, and browse through our help section below.

Video Overview: Key LCC Investments

Overview: AppLCC Key Science Investments

How can Appalachian LCC science investments work for you? This section delivers a set of short video presentations to help you learn about our many Science Investments, such as Research Products, Tools, and Data; Delivering Science; Building Capacity; and Networking Communities.





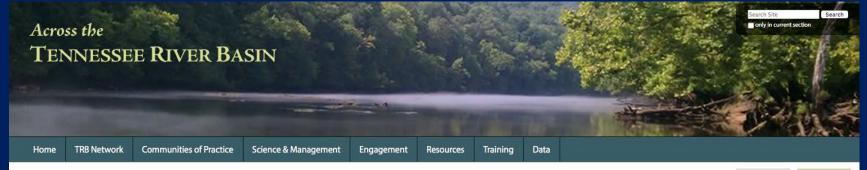


Enhancing Partner Synergy: Tennessee River Basin

Networking and information sharing

Incorporating AppLCC science-based resources into collaborative conservation efforts





REGISTER

LOG IN

y f in ≥ +

You are here: Home

Home

Across the Tennessee River Basin is a collaboration within the Appalachian LCC bringing together multiple agencies and stakeholders in a joint effort to plan and deliver landscape conservation actions to protect one of the most diverse areas for aquatic species in North America.

The mainstem Tennessee River winds its way for roughly 650 miles through Tennessee, Alabama, Mississippi, back into Tennessee, and finally into Kentucky, where it empties into the Ohio River. Streams from these states, but also North Carolina and Georgia, feed the river along its course. Indeed, the entire basin encompasses over 40,000 square miles. Five major physiographic provinces are represented within the basin: the Blue Ridge, the Valley and Ridge, the Appalachian Plateau, the Interior Low Plateaus and the Coastal Plain. The extent of the river basin's reach and the breadth of changes in the geography and geology help to explain why the area harbors one of the most diverse freshwater ecosystems in the world. This extraordinary diversity is one of the primary factors that led the United Nations Educational, Scientific and Cultural Organization to designate the Southern Appalachians as a Man and the Biosphere Reserve in 1988. Furthermore, The Nature Conservancy identifies the region as one of the most significant biodiversity hotspots in the United States.



Identifying Who is doing What, Where

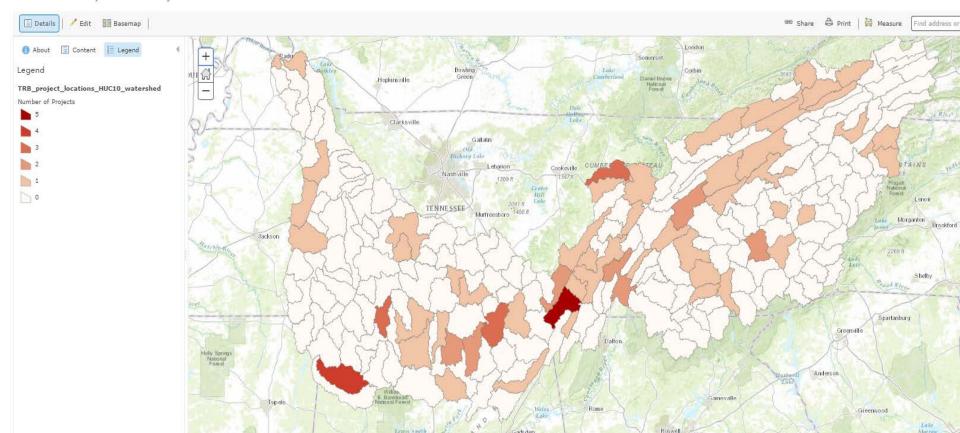
Across the

TENNESSEE RIVER BASIN

Home TRB Network Communities of Practice Science & Management Engagement Resources Partners Training Data

You are here: Home > TRB Network > Conservation Action Map

Home ▼ TRB Project Locations by Watershed



Enhancing Partner Synergy: Sharing Key Resources

Videos

Management Activity Guidance

Funding

Data

Strategic Plans

Education Materials

Videos Around the Basin

Through this collection of over 35 videos about the ecology, threats, conservation efforts, and pride within the Tennessee River Basin, we hope to increase awareness of the conservation and natural resource management taking place in the region. This inventory can give partners a better understanding of who is doing what, where in the Basin and be utilized to engage with the broader public to communicate on the many values of nature the River Basin provides human communities and wildlife.





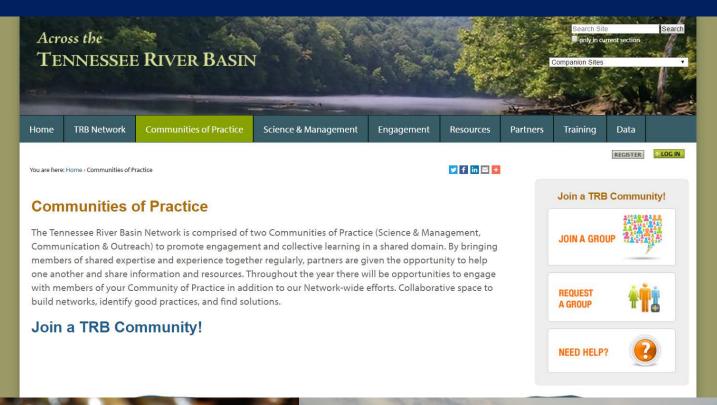


Threats Conservation Efforts

Pride of Place

TRB Ecology 101

How to Get Involved





AppLCC science-based resources to support the planning and action of the conservation community

Session Outline

- Objectives of this session
- RSVP survey results
- AppLCC Portal
- AppLCC Product Categories
- Conservation Planning Atlas
- Stream Classification System
- Ecosystem Services

AppLCC science-based resources to support the planning and action of the conservation community

Session Objectives

- Familiarize yourself with several AppLCC resources
- Know WHICH resources can be used for WHAT
- Know HOW TO ACCESS resources
- Know how to receive additional information or TRAINING on resources when needed
- See the UTILITY of APPLICATION in your local and regional conservation planning efforts

Workshop Participant Feedback

Management Questions

	1 -	2 ~	3 -	4	Total 💌	Score •
→ How can I make decisions to protect resources and biodiversity if their status or location is unknown or inadequately surveyed? → How can I make the	39.29% 11	28.57% 8	21.43% 6	10.71% 3	28	2.96
Given our limited resources, how can I make the best investment now, to protect resources into the future?	39.29% 11	25.00% 7	17.86% 5	17.86% 5	28	2.86
prioritize conservation action based on future industry or land-use change projections?	14.29% 4	32.14% 9	32.14 % 9	21.43% 6	28	2.39
Do I have consistent info across the range to help in my planning?	7.14% 2	14.29 % 4	28.57% 8	50.00% 14	28	1.79

Workshop Participant Feedback

AppLCC Resources

,-		1 -	2 -	3 -	4 -	5 -	Total -	Score -
~	Ecosystem Benefits & Risks	25.00% 7	39.29 % 11	17.86% 5	14.29 % 4	3.57% 1	28	3.68
	A Stream Classification System for the Appalachian Landscape Conservation Cooperative	32.14 % 9	21.43 % 6	17.86% 5	10.71% 3	17.86% 5	28	3.39
	Classification and Mapping of Cave and Karst Resources	25.00% 7	7.14% 2	28.57% 8	17.86% 5	21.43% 6	28	2.96
~	Climate Change Vulnerability in the Appalachians	10.71% 3	17.86% 5	17.86% 5	39.29% 11	14.29% 4	28	2.71
~	Assessing Future Energy Development	7.14 % 2	14.29 % 4	17.86% 5	17.86% 5	42.86 % 12	28	2.25



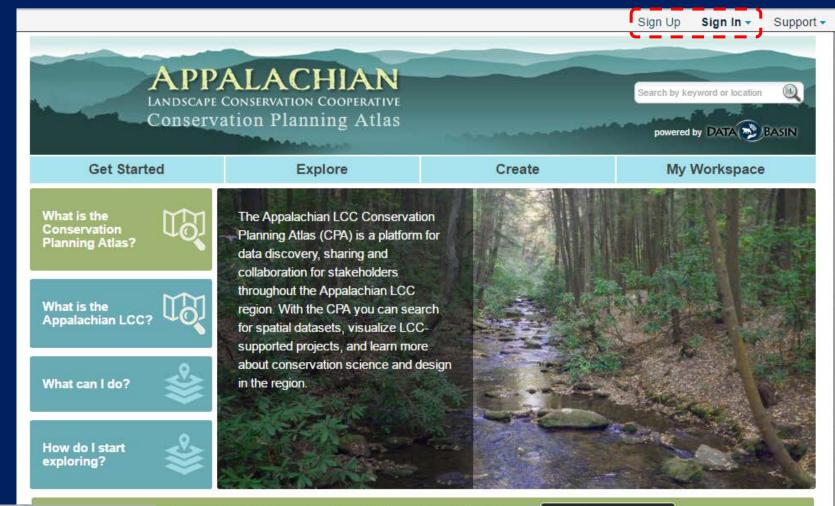
Resources - Product Categories

	AppLCC Funded Research	Science Information/Data	Decision Support Info/Tool	Inventory/Trends Analysis	Predictive/Risk Assessment
\bigstar	A Stream Classification System for the AppLCC	*			
	Assessing Future Energy Development			*	*
\bigstar	Classification & Mapping of Cave and Karst Resources	*			
	Climate Change Vulnerability				*
	Riparian Prioritization for Climate Change Resiliency		*		
×	Landscape Conservation Design				*
*	Ecosystem Benefits & Risks	*		*	

Know WHICH resources can be used for WHAT

Conservation Planning Atlas

https://applcc.databasin.org/





Get started quickly with the Appalachian LCC CPA

Start Tour

Conservation Planning Atlas

Navigate Resources





Galleries - 12 Maps - 17 Datasets - 356



Temperature Normal (2031-2060)

Conservation Planning Atlas

Modeling in the

Predicted

Appalachian LCC

Modeling in the

Predicted.

Appalachian LCC

Modeling in the

Perdicted.

Appalachian LCC

Modeling in the

Perdicted

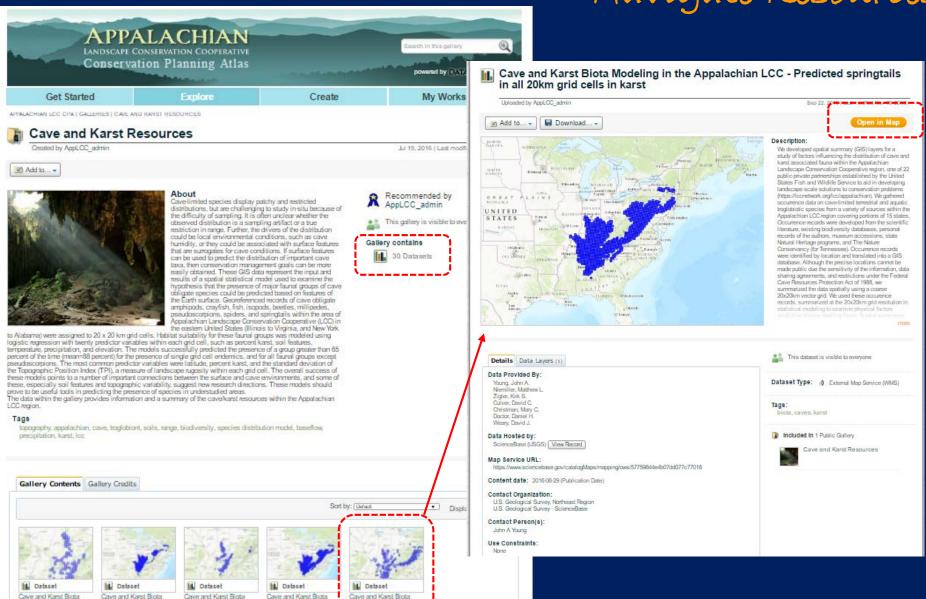
Appalachian LCC

Modeling in the

Predicted

Appalachian LCC

Navigate Resources



Create your own map specific to your needs

Add polygon, points, lines
Add additional datasets
Save map to your Data Basin Workspace
Export map (PDF, PPT)

Download Data



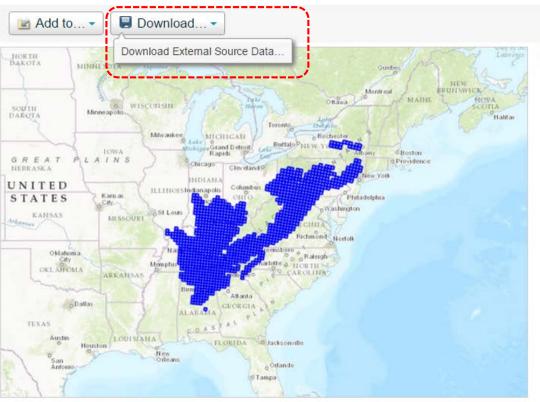
Cave and Karst Biota Modeling in the Appalachian LCC - Predicted springtails in all 20km grid cells in karst

Uploaded by AppLCC admin

Sep 22, 2016 (Last modified Nov 19, 2016)

We developed spatial summary (GIS) layers for a study of factors influencing the distribution of cave

Open in Map



Description:

and karst associated fauna within the Appalachian Landscape Conservation Cooperative region, one of 22 public-private partnerships established by the United States Fish and Wildlife Service to aid in developing landscape scale solutions to conservation problems (https://lccnetwork.org/lcc/appalachian). We gathered occurrence data on cave-limited terrestrial and aquatic troglobiotic species from a variety of sources within the Appalachian LCC region covering portions of 15 states. Occurrence records were developed from the scientific literature. existing biodiversity databases, personal records of the authors, museum accessions, state Natural Heritage programs, and The Nature Conservancy (for Tennessee). Occurrence records were identified by location and translated into a GIS database. Although the precise locations cannot be made public due the sensitivity of the information, data sharing agreements, and restrictions under the Federal Cave Resources Protection Act of 1988, we summarized the data spatially using a coarse 20x20km vector grid. We used these occurence records, summarized at the 20x20km grid resolution in statistical modeling to examine physical factors predictive of cave dwelling fauna. Spatial summaries were developed for all cave dwelling species in our database where we had location coordinates for nine faunal groups (five terrestrial and four aquatic) that are common components of terrestrial and aquatic cave communities: ground beetles (Carabidae), millipedes, pseudoscorpions, spiders, and springtails for terrestrial species groups, and amphipods (Crangonyctidae and Gammaridae), isopods (Asellidae), crayfishes (Cambaridae), and fishes (Amblyopsidae) for aquatic species groups.

CPA – How to exercise



Appalachian LCC Web Portal

www.applcc.org



Do I have consistent information across the range to help in my planning?





Stream Classification
System for the AppLCC



A Stream Classification System for the AppLCC

Standardized aquatic habitat classification & dataset

Represents region's natural flowing aquatic habitats

Aquatic biodiversity patterns

Primary attributes:

- Size
- Gradient
- Temperature
- Hydrology
- Buffering Capacity
- Confinement



Read More...



New climate change vulnerability assessments for 41 species and 3 habitats in the Appalachians are now available. The conservation community can view and search each of these assessments by vulnerability scores, conservation status ranks, state and subregion of assessment, and higher taxonomy. In addition, principle investigators are the surface of the results of 700 species assessments previously completed by other researchers as well as assessments on



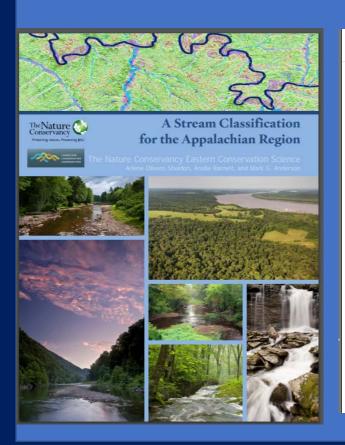
re as well as risks to their sustainability will otection and investments in these 'orest Service on cutting edge research that orm natural resource planning and a comprehensive resource to partners at a ervices conservation science.



A Stream Classification System for the AppLCC

Science Information/Data

Report



Interactive Story Map

A story map

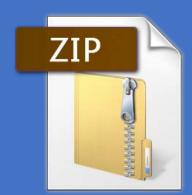




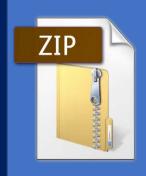
A Stream Classification for the Appalachian Region

This study developed a mapped classification system for stream and river systems in the AppLCC region to inform conservation planning for aquatic biodiversity. Stream habitats were classified using six primary attributes: size, gradient, temperature, hydrology, buffering capacity, and confinement. Information on each variable was based on extensive data compiled, or modeled, for each mapped reach. Variable classes were combined to yield a regional taxonomy. Headwaters and small rivers were classified on gradient, temperature, and hydrology and medium to great rivers, on confinement, temperature, and hydrology, identifying 62 stream types within the study area.

GIS Data Set



Geospatial Data



Attributes

- Size
- Gradient
- Temperature
- Hydrology
- Buffering Capacity
- Confinement

Regional Stream Types

- Simplified taxonomy
- Integration of classification variables to examine patterns and distribution
- 73 types

Geospatial Data - Attribute: Gradient

Influences aquatic communities due to its impact on:

- stream bed morphology
- flow velocity
- sediment transport
- substrate
- grain size

Characterized patterns of species abundance:

- Very low gradient
- Low gradient
- Moderate-low gradient
- Moderate-high gradient
- Very high gradient

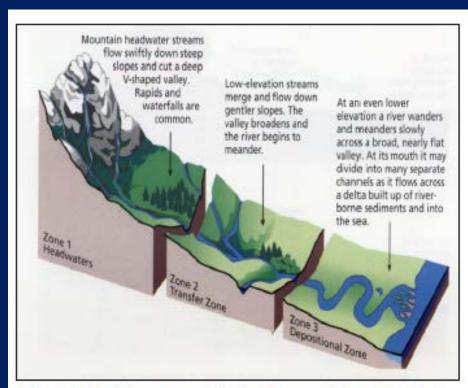
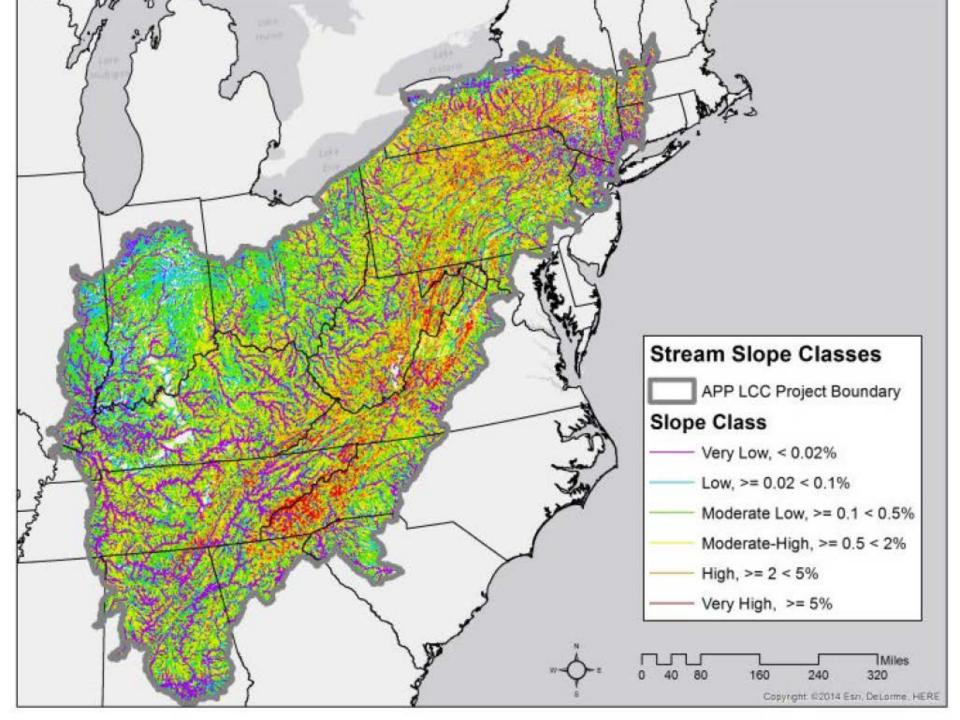
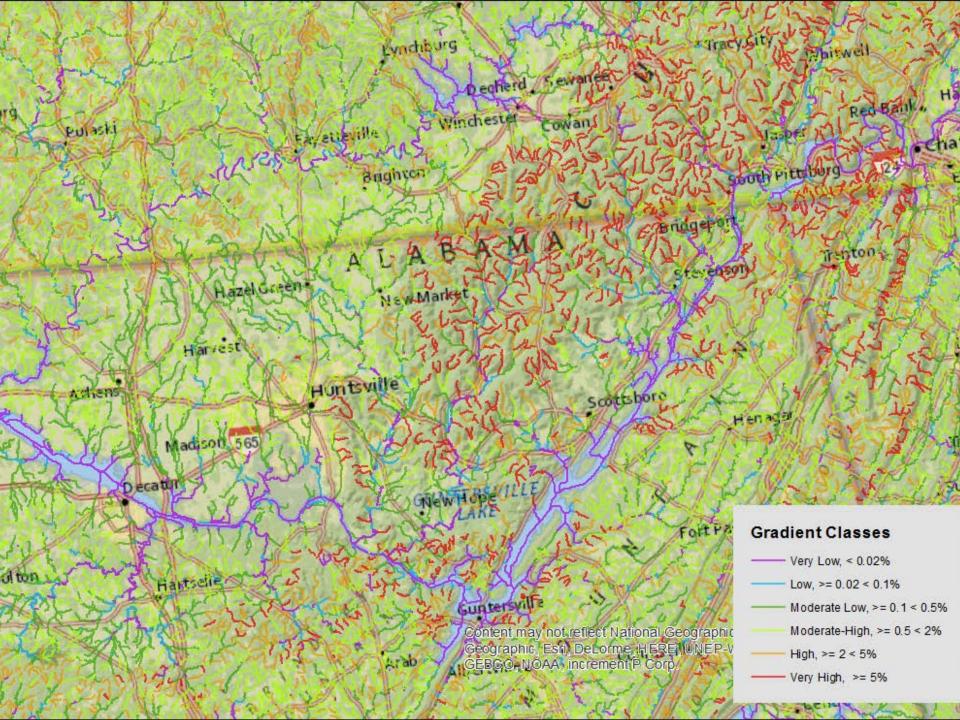
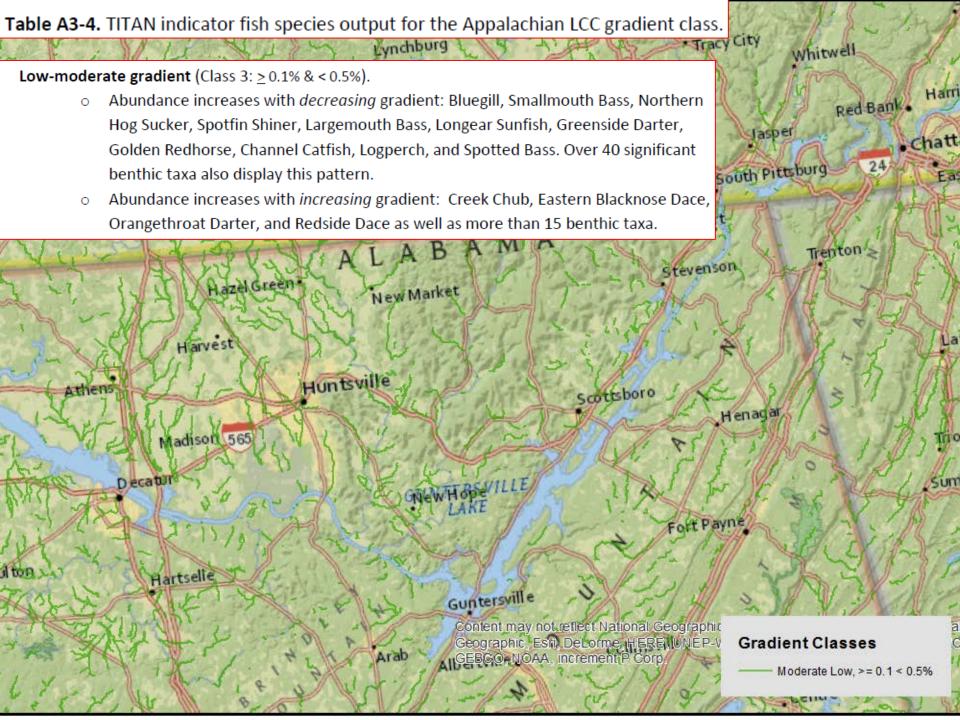


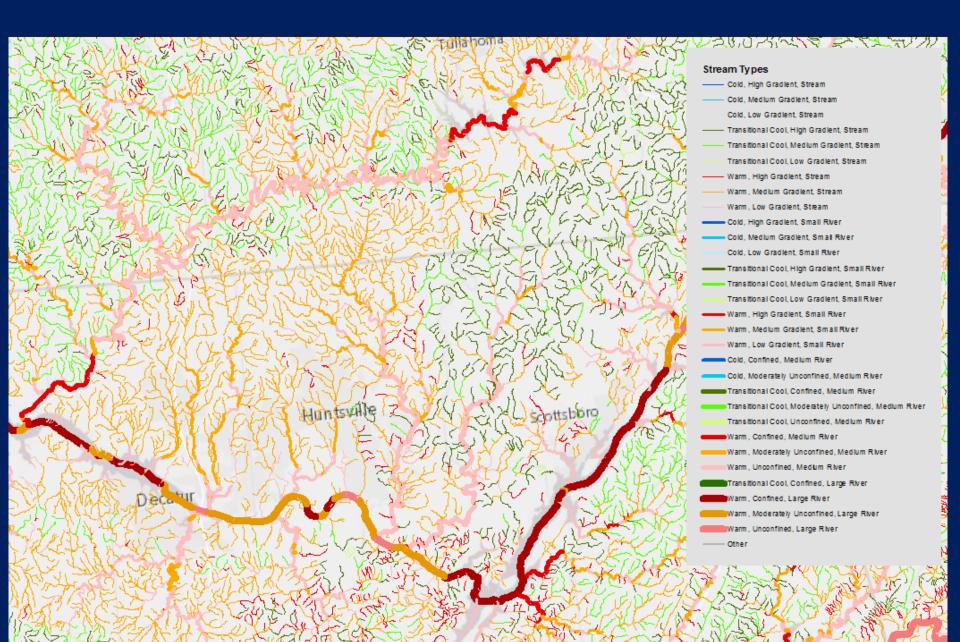
Figure 5-1. Stream gradient diagram (Vanotte et al. 1980).



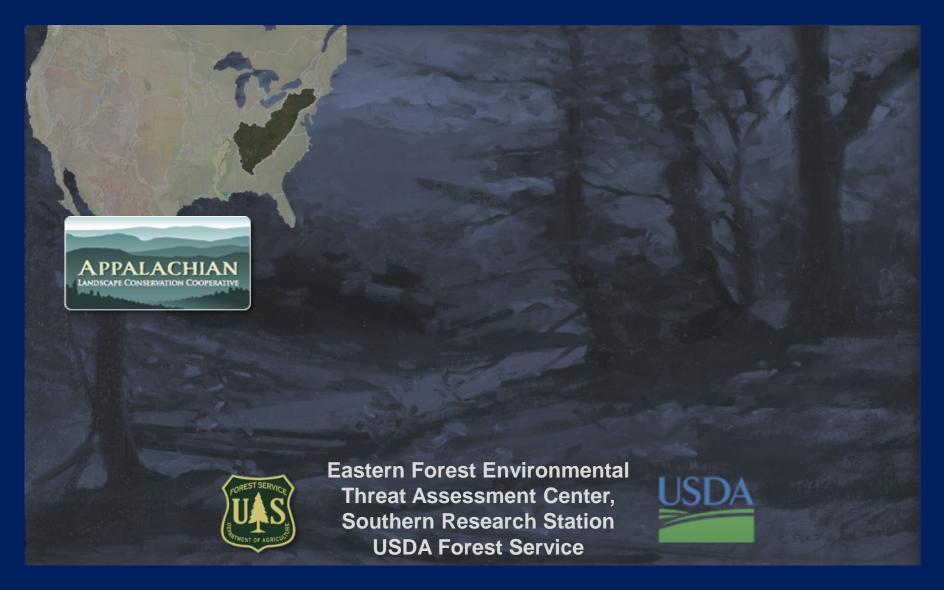




Geospatial Data: Regional Stream Types



Ecosystem Services across the Appalachian LCC





www.applcc.org

APPALACHIAN



Cooperative

Research

Plan & Design

Ecosystem Benefits & Risks

Delivery

People

News

Resources

ECOSYSTEM BENEFITS AND RISKS

Guide



Atlas & Data

- Clearinghouse for Appalachian ecosystem services knowledge and data,
 - providing users with key information they need to make informed resource management decisions
 - that support healthy ecosystems and
 - sustain the benefits to people

http://applcc.org/conservation-design/ecosystem-risks-benefits/

The type of information you can access



Benefits

Forest Carbon

Harvested Species

Landscape Values and Sense of Place

Water and Soils



Risks

Climate Change

Energy Development

Invasive Species and Forest Pathogens

Urbanization

Wildland Fire



The Human Landscape

Demographics

Economics

Land Use

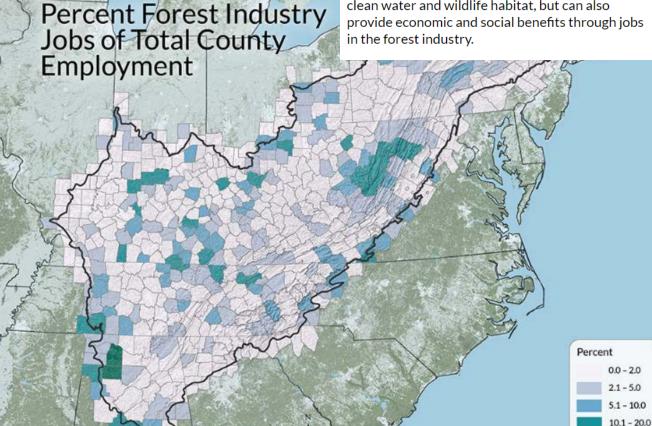


Data Atlas

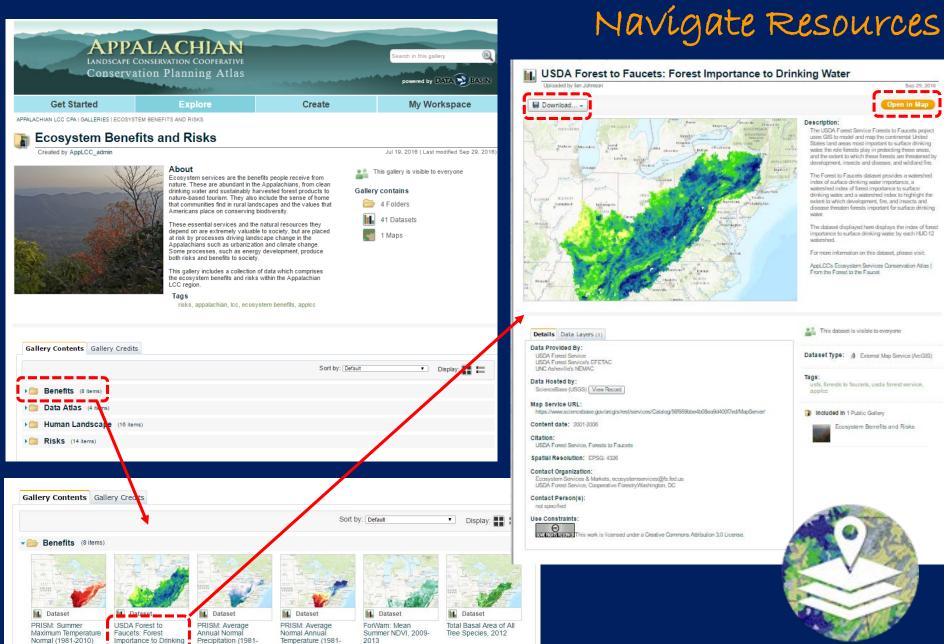
Forest Industry

Economic and social factors have an important relationship to the production of timber and nontimber products in the Appalachian region. Areas with strong timber markets and working forests not only support ecosystem services such as clean water and wildlife habitat, but can also provide economic and social benefits through jobs in the forest industry.

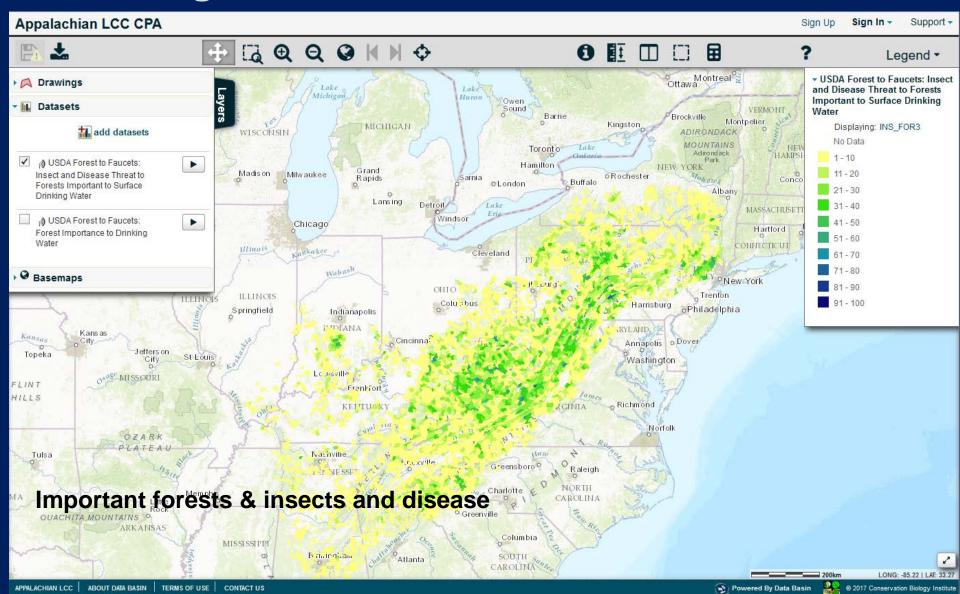
20.1 - 36.0



The type of information you can access

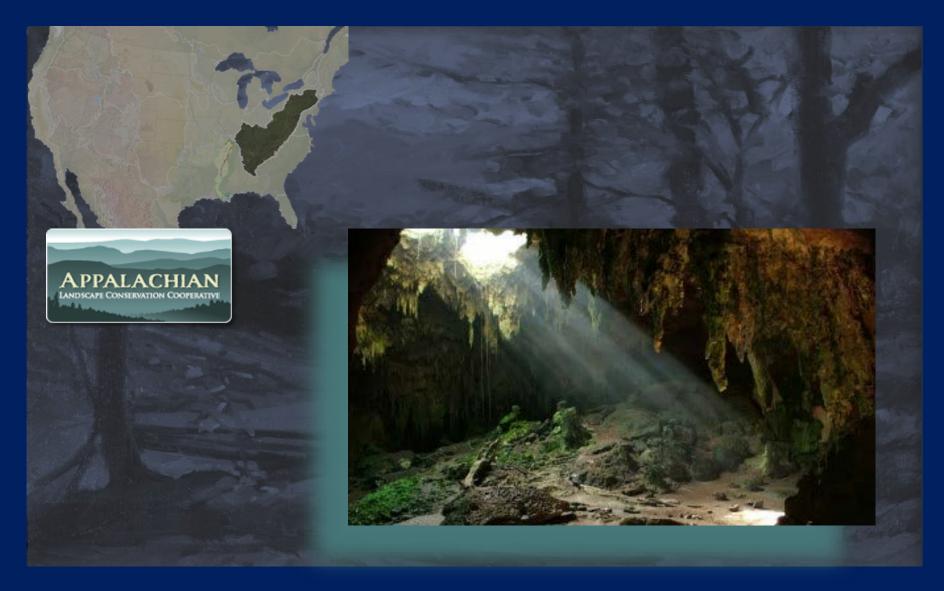


How might insects and disease affect drinking water?



Questions

Cave and Karst Resources across the Appalachian LCC





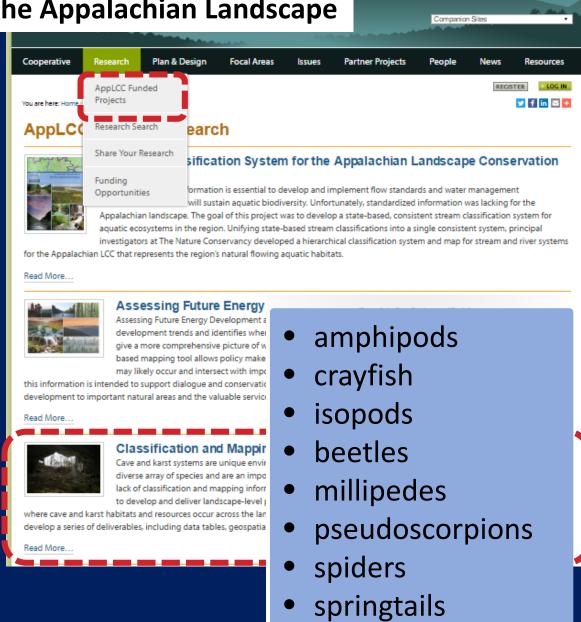
Classification and Mapping of Cave and Karst Resources across the Appalachian Landscape

Search Site Search
only in current section

Companion Sites

- Mapped cave locations region wide
- Developed classification system for cave biodiversity
- Modeled probable level of biodiversity in areas not yet surveyed

Science Information / Data



Available Resources – Guide to Cave/Karst Resources across the Appalachian LCC

Quicklinks Classification and Mapping of Cave and Karst Resources Cave/Karst Resources Across the Appalachian LCC: A Visual Gallery: Cave and Karst Maps Cave and Karst Data Access Review of Subterranean Cave/Karst Resources Across the Appalachian LCC A Visual Guide to Results Faunal Studies of the Appalachians and Models of David C. Culver (P.I.) American University Subterranean Species Mary C. Christman (Co-P.I.) Richness University of Florida & MCC Associates Daniel H. Doctor (Co-P.I.) U.S. Geological Survey **Background Materials:** Matthew L. Niemiller (Co-P.I.) Classification and Mapping of University of Illinois Cave and Karst Resources David J. Weary (Co-P.I.) U.S. Geological Survey Project John A. Young (Co-P.I.) U.S. Geological Survey Kirk S. Zigler (Co-P.I.)

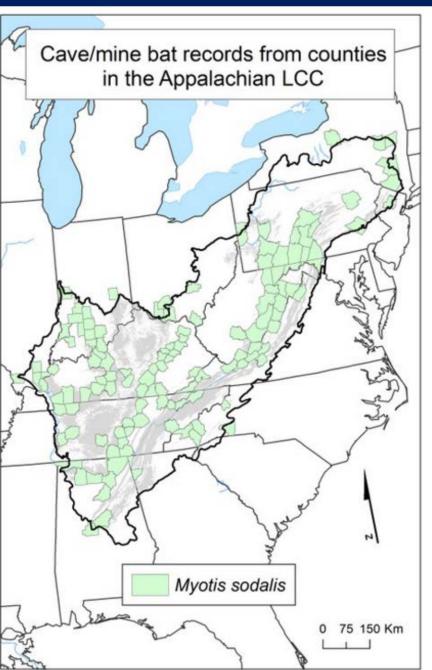
Science

Information / Data

University of the South

- Distribution of know caves and karst within the region
- Taxonomic distribution of obligate cavedwelling fauna
- Geographic patterns of species richness and ranges of major faunal groups
- Landscape and physical features that are potential predictors of species richness
- Predictions of the presence of nine major ecological groups
- Geography of risk to the subterranean fauna
- Geographic patterns of bat utilization of caves

Available Resources – Cave and Karst Map Gallery

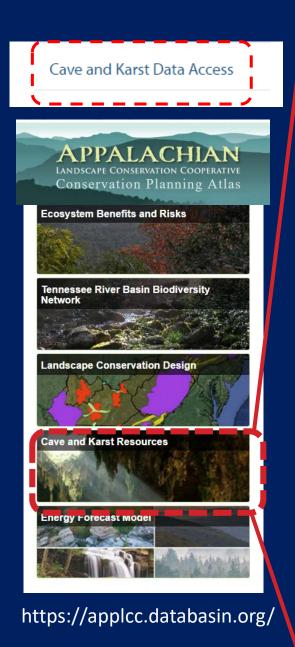


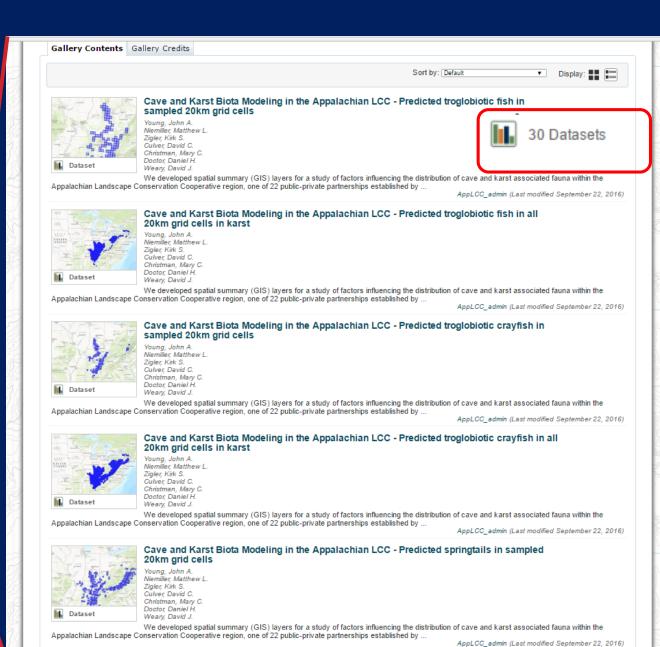
Maps of:

- Foundational datasets
- Land-use and potential risks
- Modeling inputs
- Probability of presence of species groups
- Bat Records by county

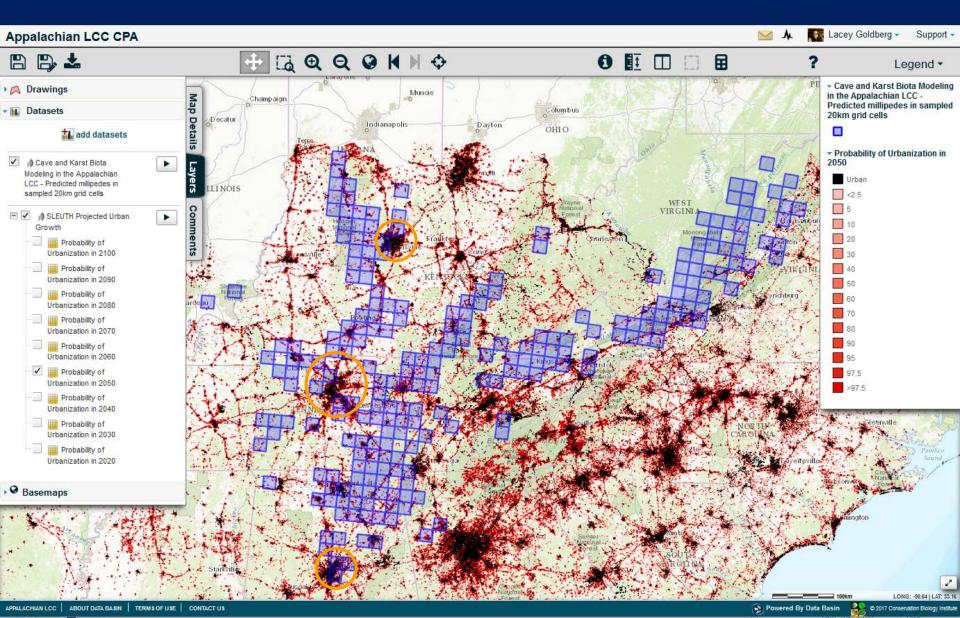
* To obtain specific datasets inquire American University

Available Resources – Predictive Models of Cave Organisms

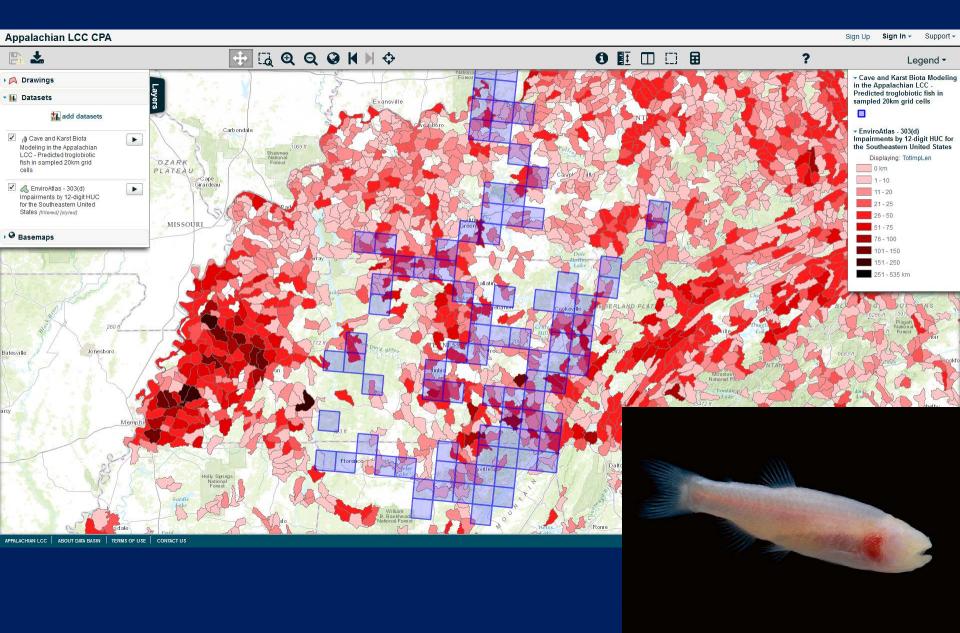




Risk to cave-obligate millipede habitat due to projected urban growth

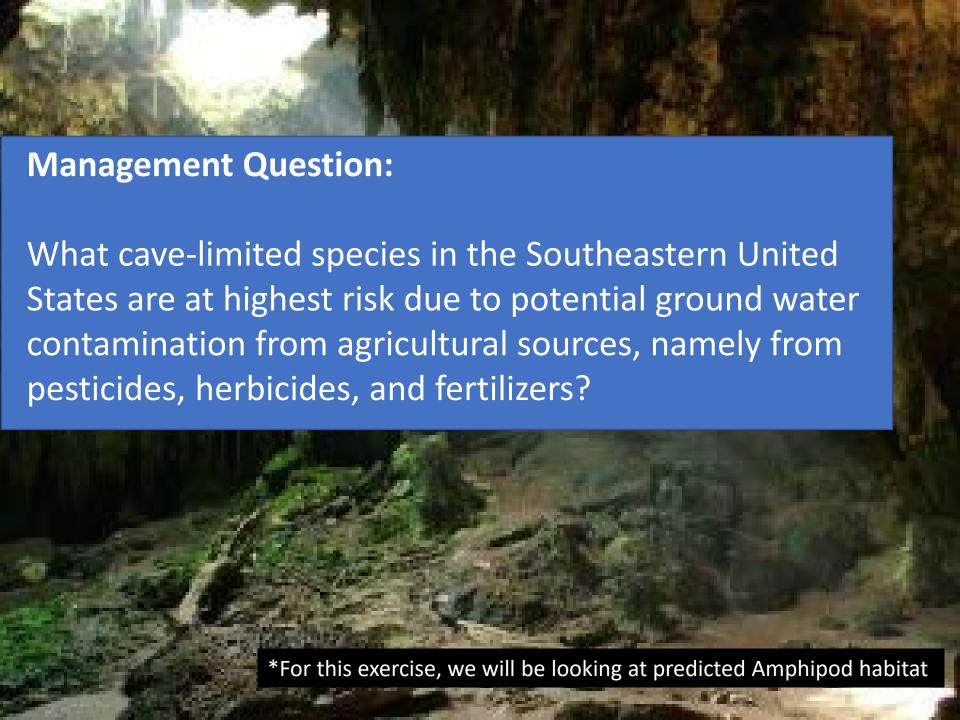


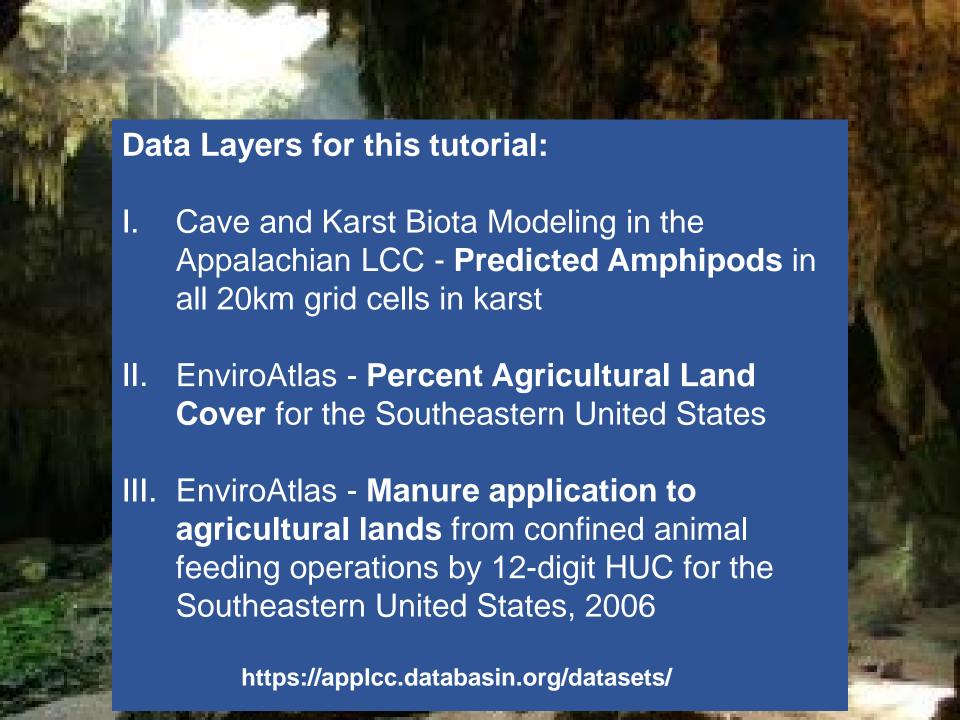
Potential risk to troglobiotic fish due to impaired streams



Case Scenario







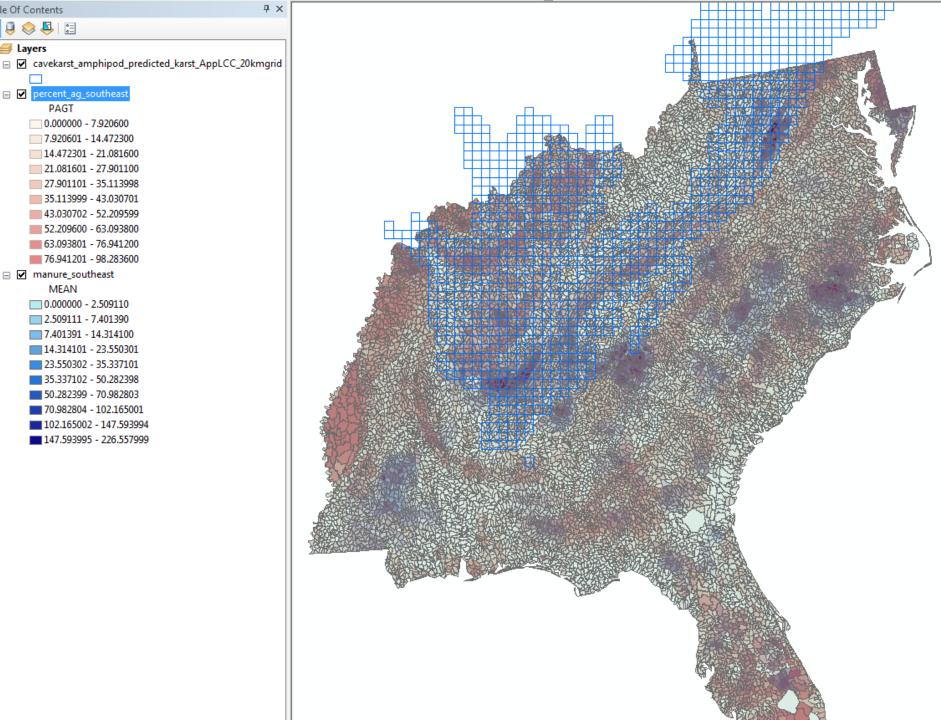
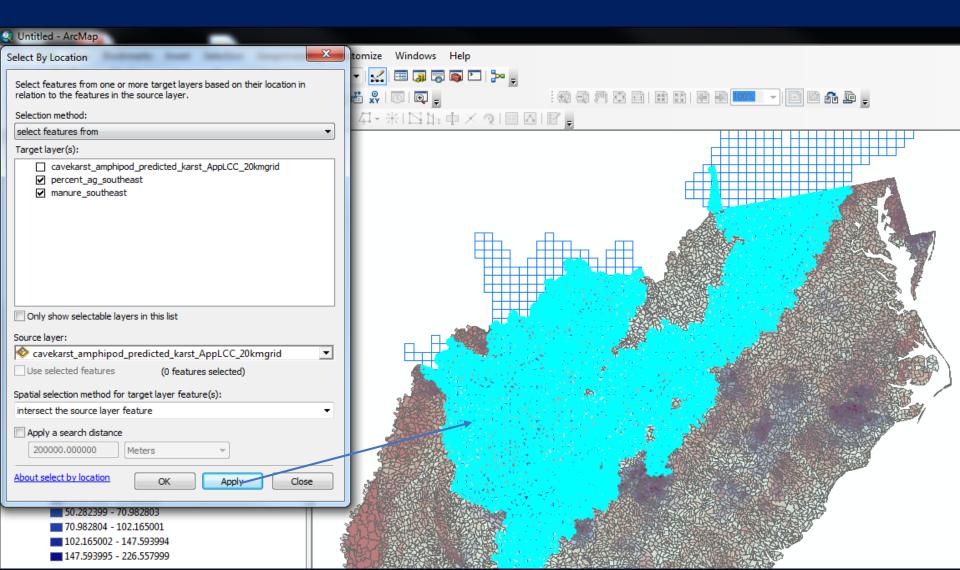


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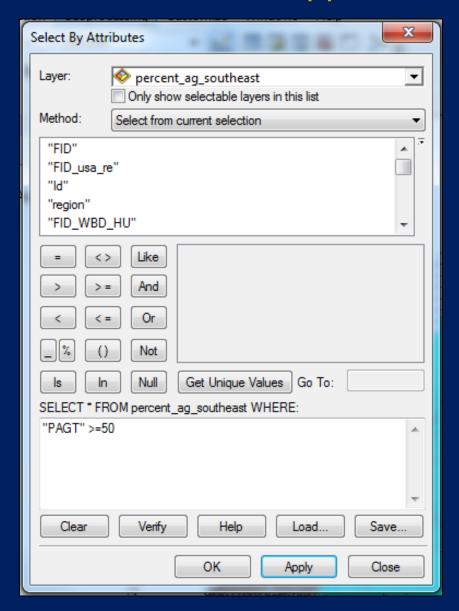
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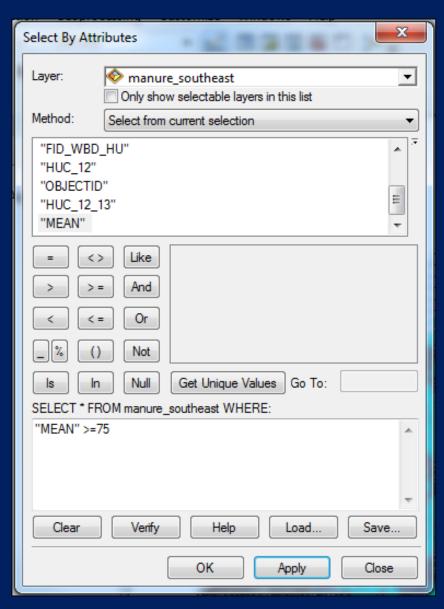
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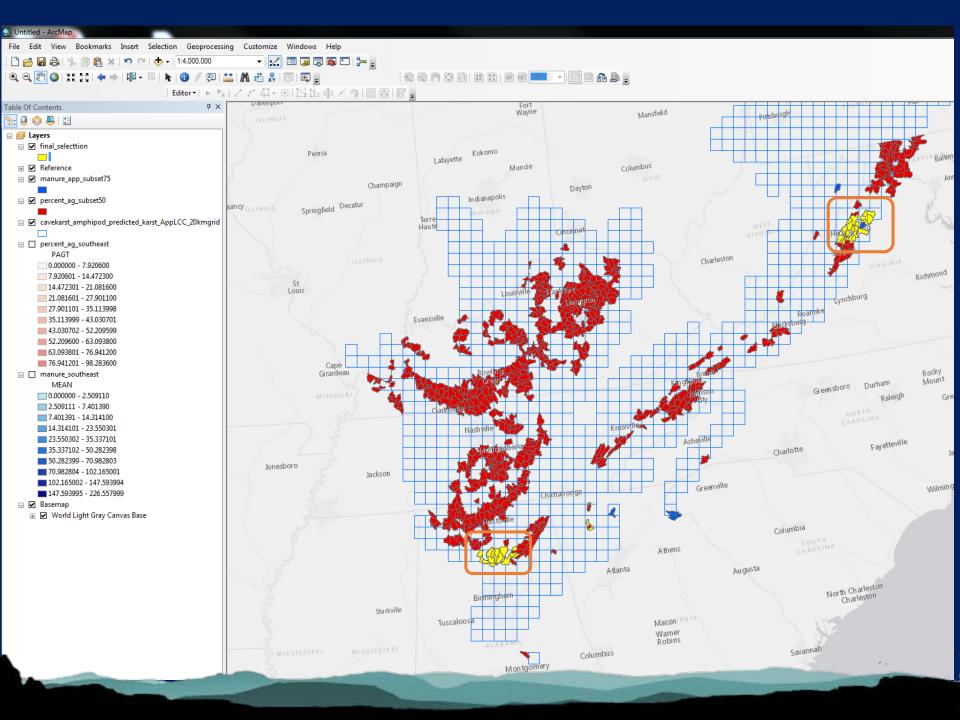
Refine Prioritization: Create subset of areas where amphipod presence intersect with PALC and Manure Application



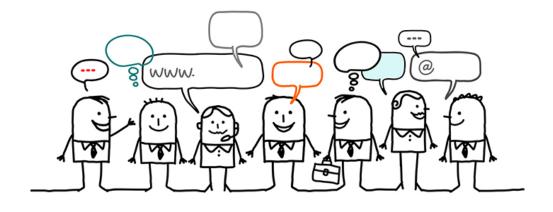
Refine Prioritization: Create subset of areas with high PALC and Manure Application







Team Break-Out Session



Ways YOU might apply AppLCC Cave and Karst resources

Team Break-out session – Report Out

FWS – help better monitor species is caves
Able to know what is in a certain area – help with outreach with landowners
Key Cave – species present
What layers are available to overlay with AppLCC resources– recharge, sinks,
surface ownership Threat Layers – non-point vs. point source, 303d, ag contaminants, sinkholes Help with prioritization of local projects
Support in funding proposals/solicitation of funds
Use in conversations with decision-makers, messaging
Where should we put our limited resources? Who owns or manages land?
Areas with high biodiversity could be mapped and utilized in conversations with partners (land protection conversations)
Justification for management activities – indicate areas where we should survey site because initial data is showing us a high level of diversity – aid in ground

truthing

Training Opportunities

Pre-recorded Webinar

View a video presentation that provides a detailed overview of how to use the Energy Forecast Mapping Tool

| Separate | Part |

Self-paced On-line Classes



The Science Applications Online Learning Management System's self-paced tutorials and classes highlight the intended uses of decision-support tools and other products by giving a step-by-step demonstration of how to apply tools to specific natural resource issues. Once completing the course, users can work with LCC staff directly to discuss how to incorporate these LCC products in their own work.

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http://www.scienceapplications.org



Energy Forecast Modeling

Introduction

Module 1 - The Science behind Energy Forecast Model

Module 2 - How to Use Energy Forecast Model

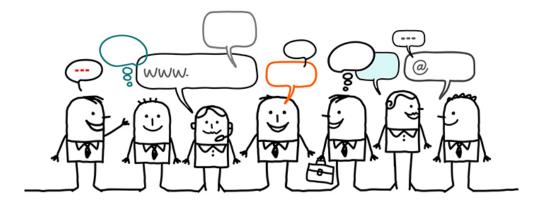
Module 3 - Decision Support Tool Using Case Study Examples

Module 4 - Case Study Activity

Module 5 - Assessment Quiz

Module 6 - Participant Feedback

Team Break-Out Session



Team Break-out Session

How AppLCC resources can enhance workshop participants' work and how participants may apply these resources in their own conservation planning efforts.

Q. Do you think these resources can make the work in supporting the Refuge more effective and sustainable?

Q. Are there opportunities to utilized these resources to knock down barriers identified by the community?

Q. How might these resources serve as guidance or be applied in the work plans to support the Wheeler Refuge and broader Refuge System?

Team Break-out Session – Report Out

How AppLCC resources can enhance workshop participants' work and how participants may apply these resources in their own conservation planning efforts.

AppLCC resources available will help planning and collaborative efforts

Information is public-facing and FREE – good source of info

LCD – can this identify land ownership (for GAP 1 & GAP 2 conserved lands)

Resources can help with communication/networking – you know who to go to

Knowledge of connectivity / geography

Work with planning department s (county, city) – inform them of these resources which promote information sharing. Where they can access data sets to then use as guidance for development.

Use resources to work with industry and decision-makers

Can be a good tool IF utilized

Creditable resources – helps to sell mission

Education of the public – outreach efforts – help to educate as to why LCD is here and why it is important

Cast a broader net due to LCC members

Wrap-up

- Revisit introduction notes and first facilitated group discussion notes
 - Were your objectives for this event met?
 - Were there resources presented to help barriers?
 - Are there barriers that AppLCC can enhance support for?
- Feedback online survey & Meeting Sphere event
- Use us! we are here to help
- Thank YOU and Wheeler Refuge Staff!!!!