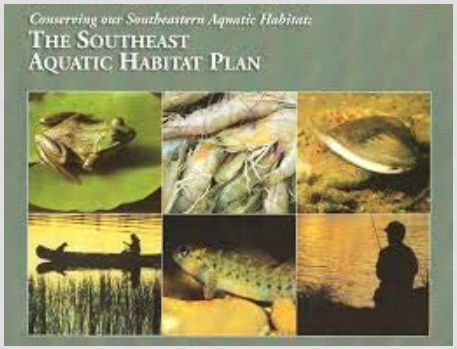
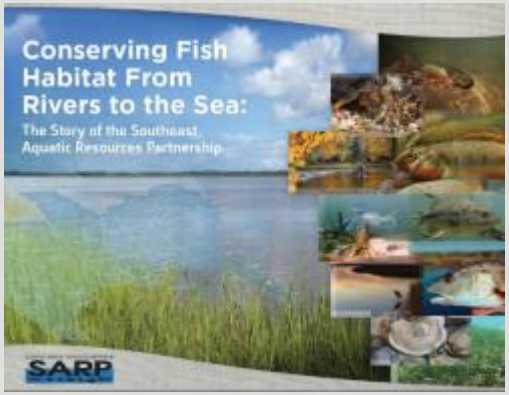
NFHP Board Meeting

October 17-18, 2017

Dr. Jessica Graham

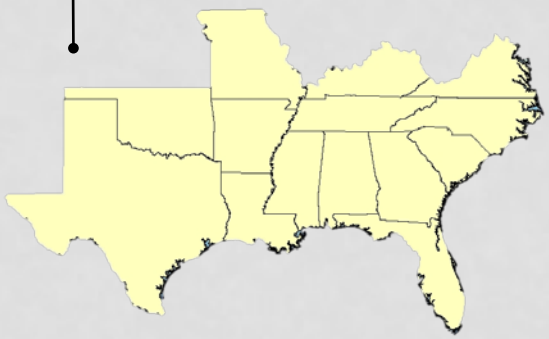


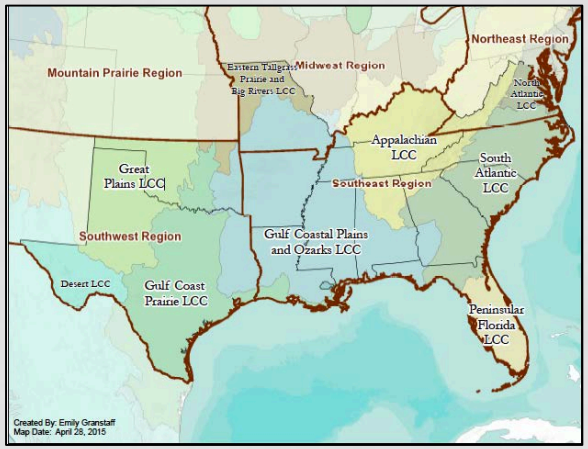


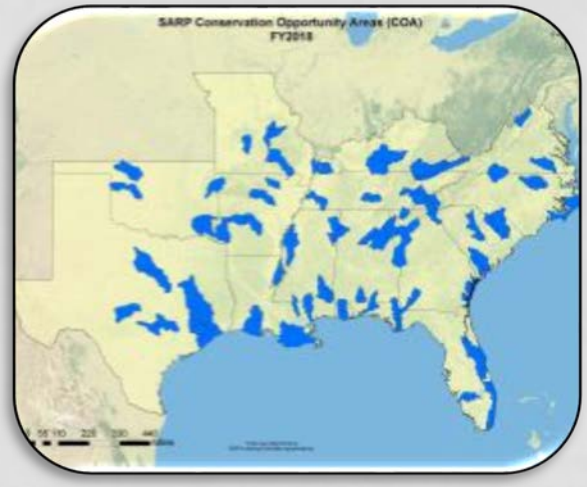
Objectives	# of projects
Riparian	31
Water quality	28
Connectivity	15
Hydrology	17
Sediment Flows	29
Physical Habitat	31
Invasives	6
Coastal and Marine	31

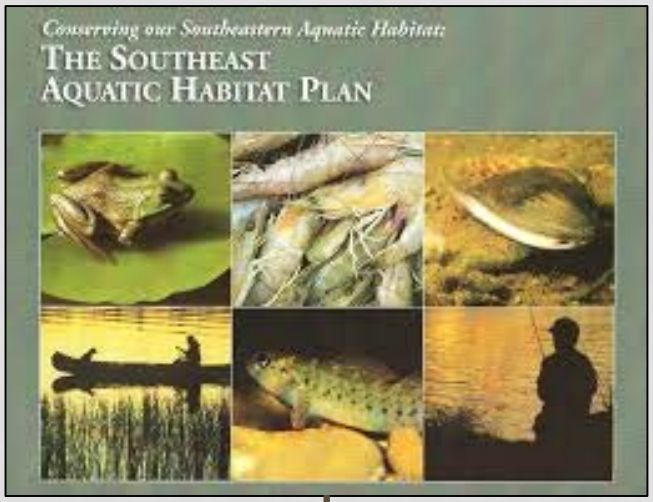
NATIONAL FISH HABITAT PARTNERSHIP
SOUTHEAST AQUATIC RESOURCES PARTNERSHIP
SARP

2004 2006 2008 2010 2012 2014 2016

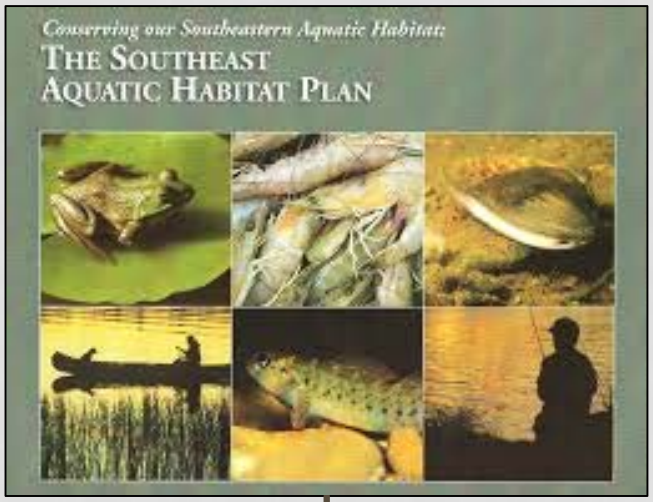








- Connectivity
- Coastal
- Native Black Bass Initiative
- In-stream Flow
- Riparian & Physical Habitat



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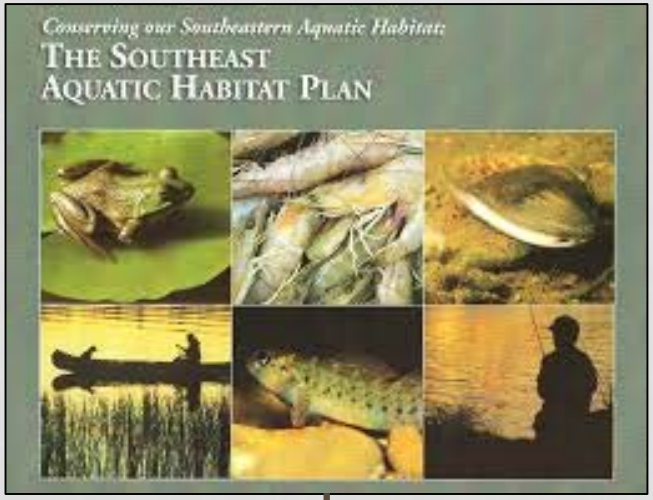

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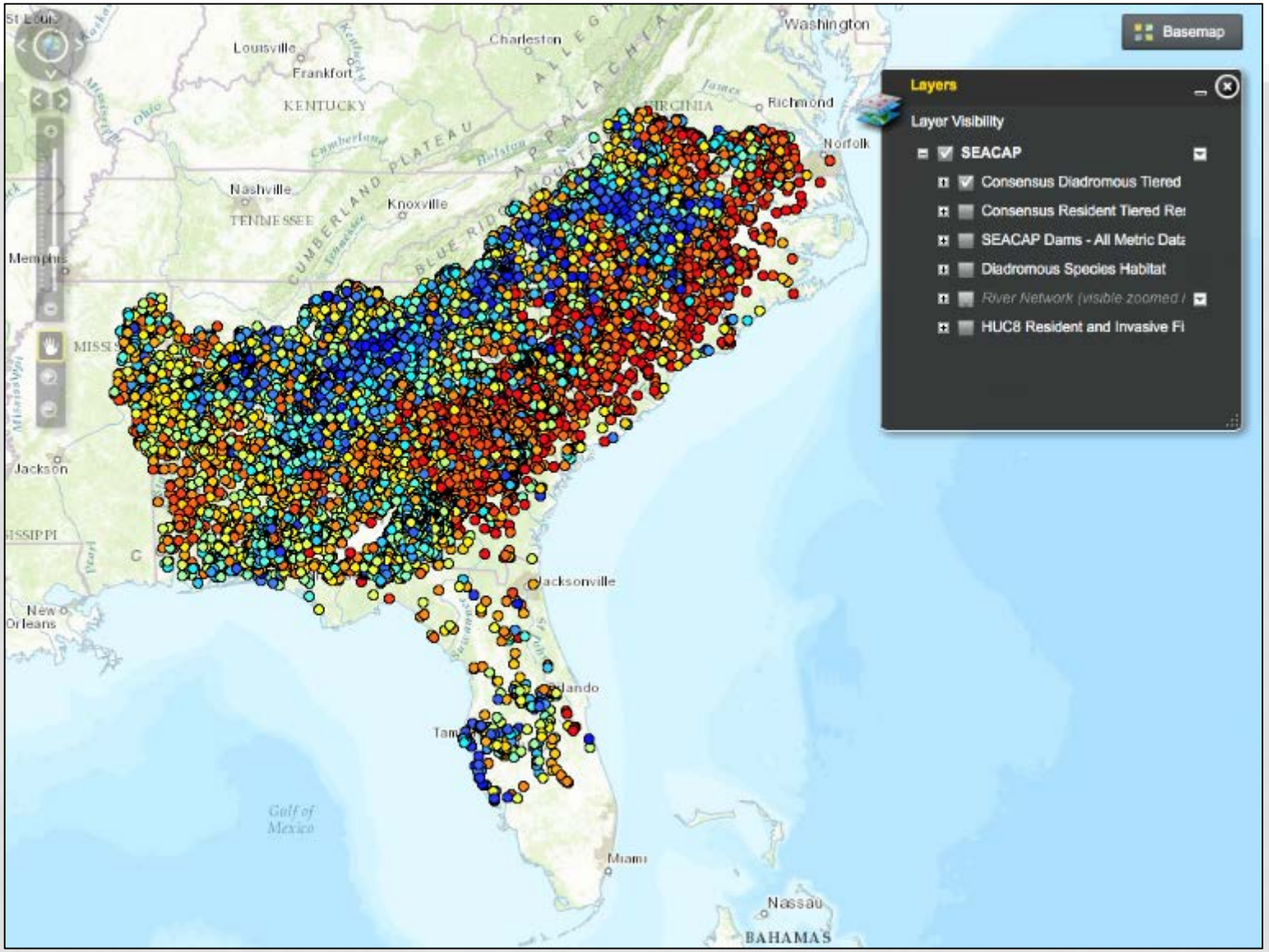
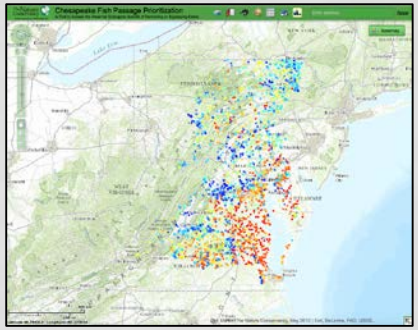
CONNECTIVITY PROGRAM



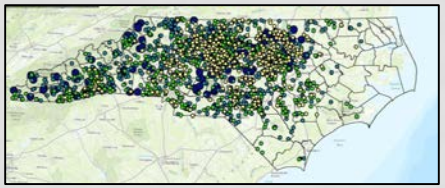
SOUTHEAST AQUATIC CONNECTIVITY PROGRAM

SEACAP (SALCC)

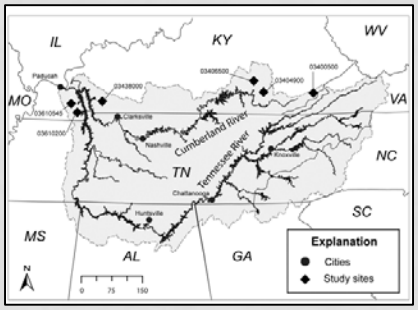
Chesapeake Fish Passage Prioritization



NC BPT



TN/CU Fish Barrier Inventory

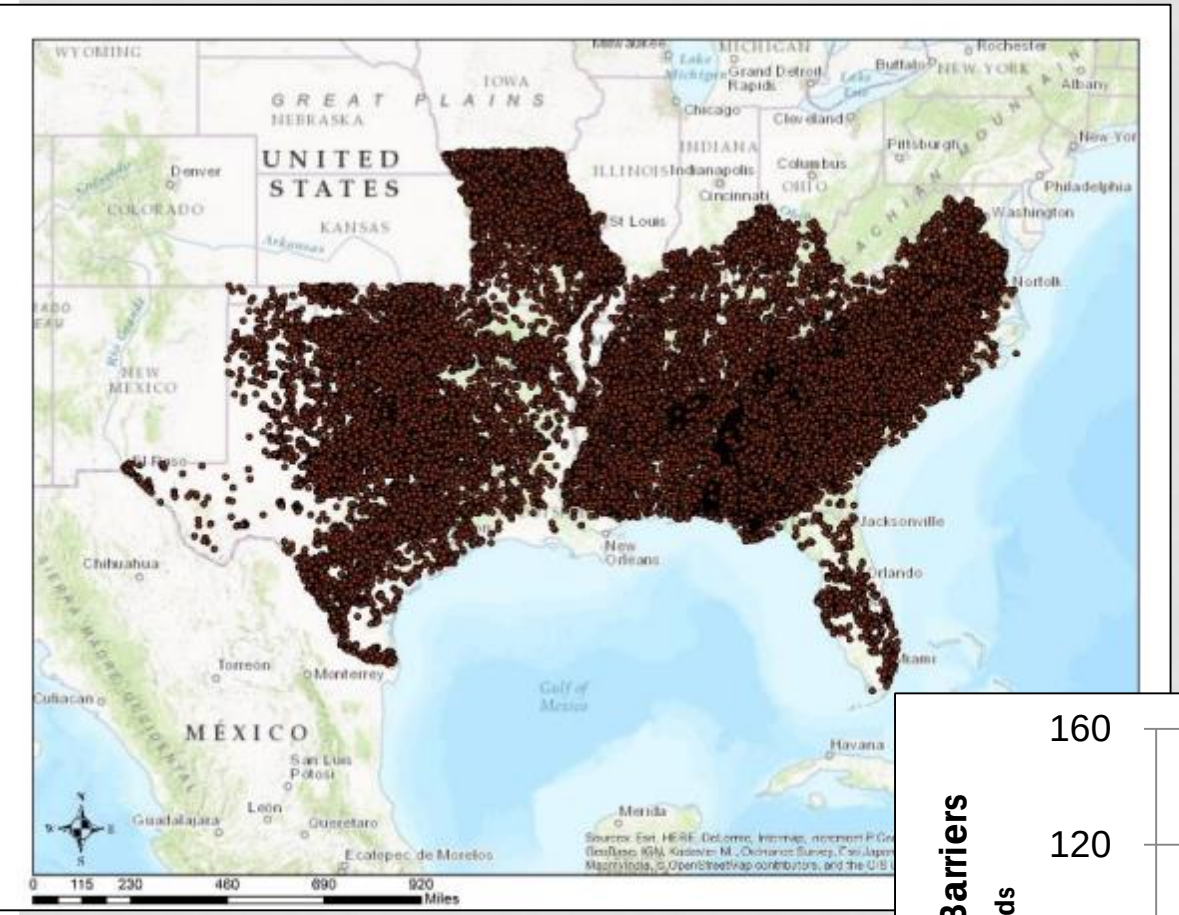


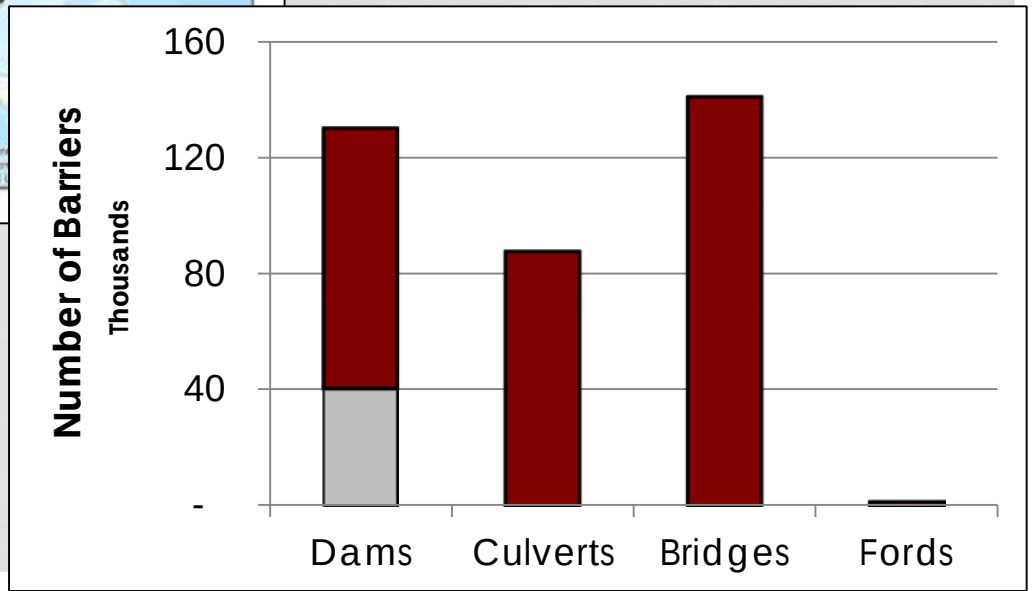
Comprehensive Barrier Database

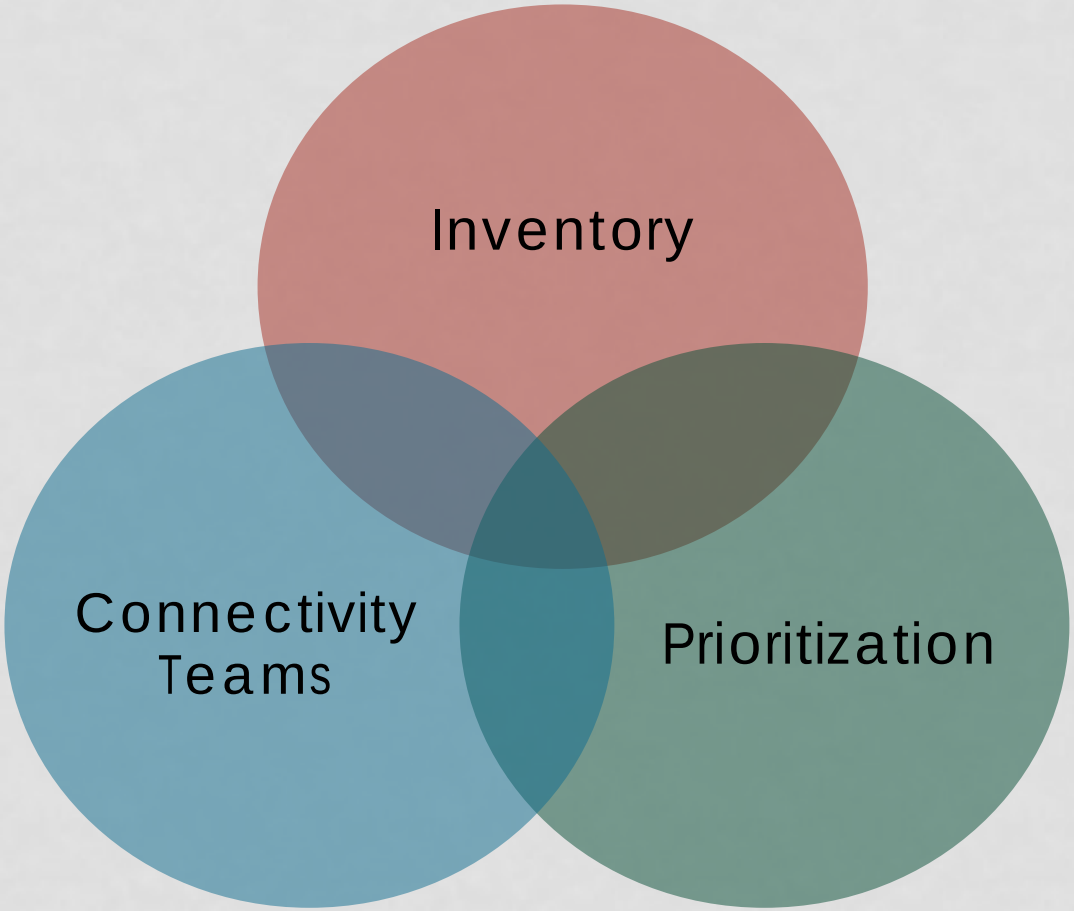
SOUTHEAST AQUATIC CONNECTIVITY PROGRAM

Comprehensive Barrier Database

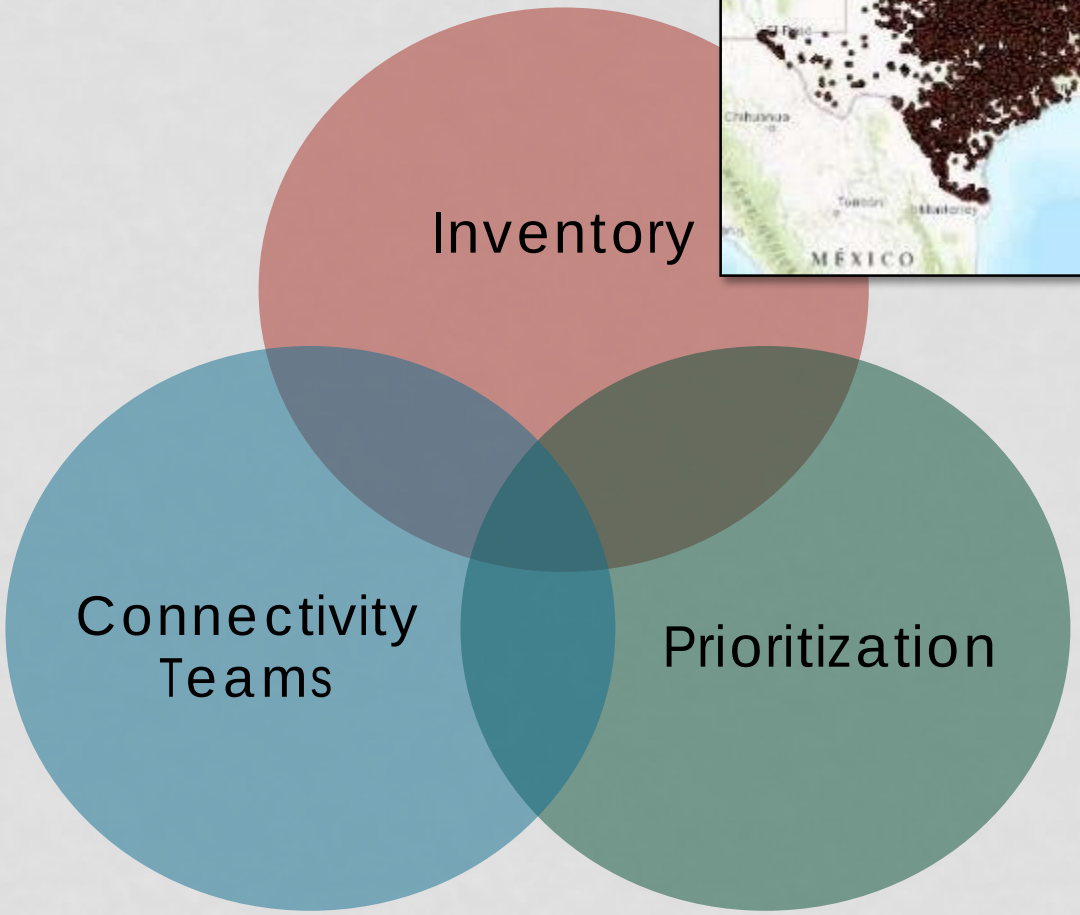
SOUTHEAST AQUATIC CONNECTIVITY PROGRAM

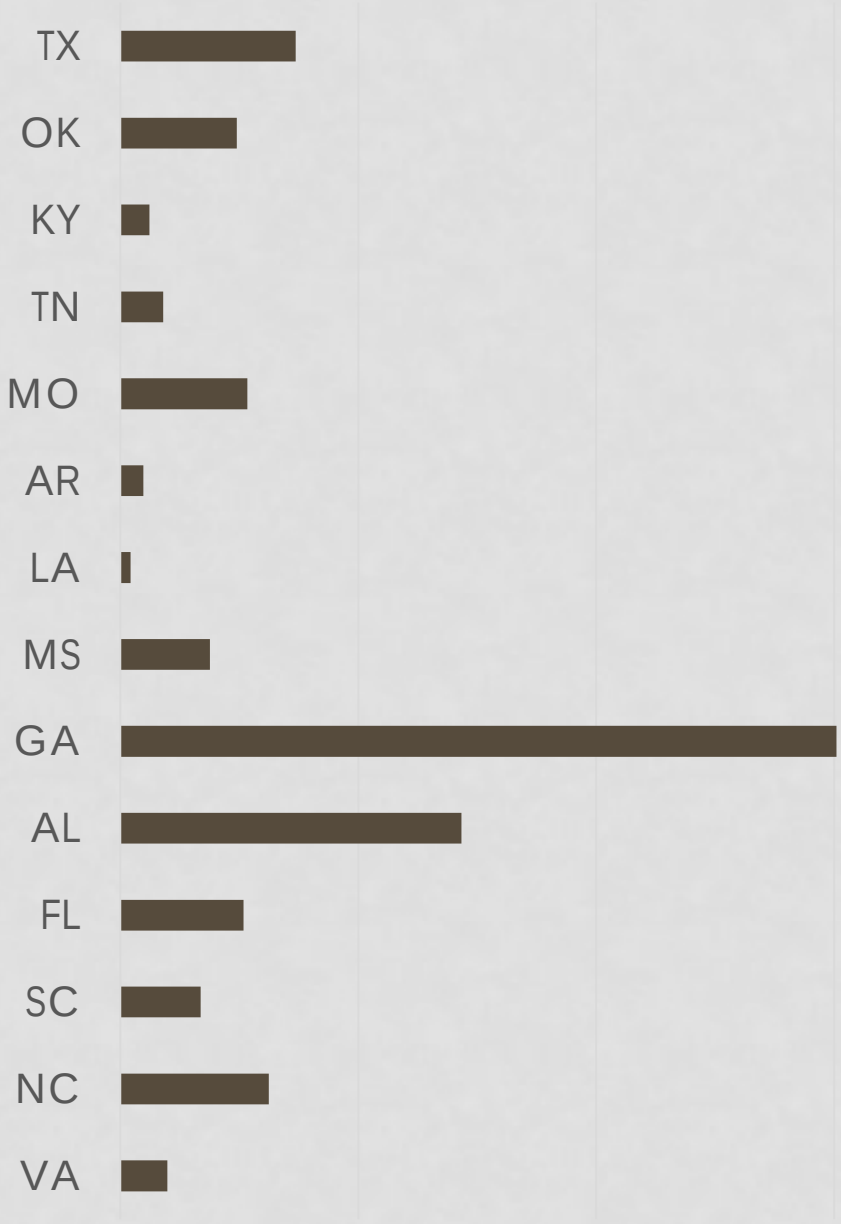





Inventory
Connectivity
Teams
Prioritization


UNITED
STATES
MÉXICO


Inventory
Connectivity
Teams
Prioritization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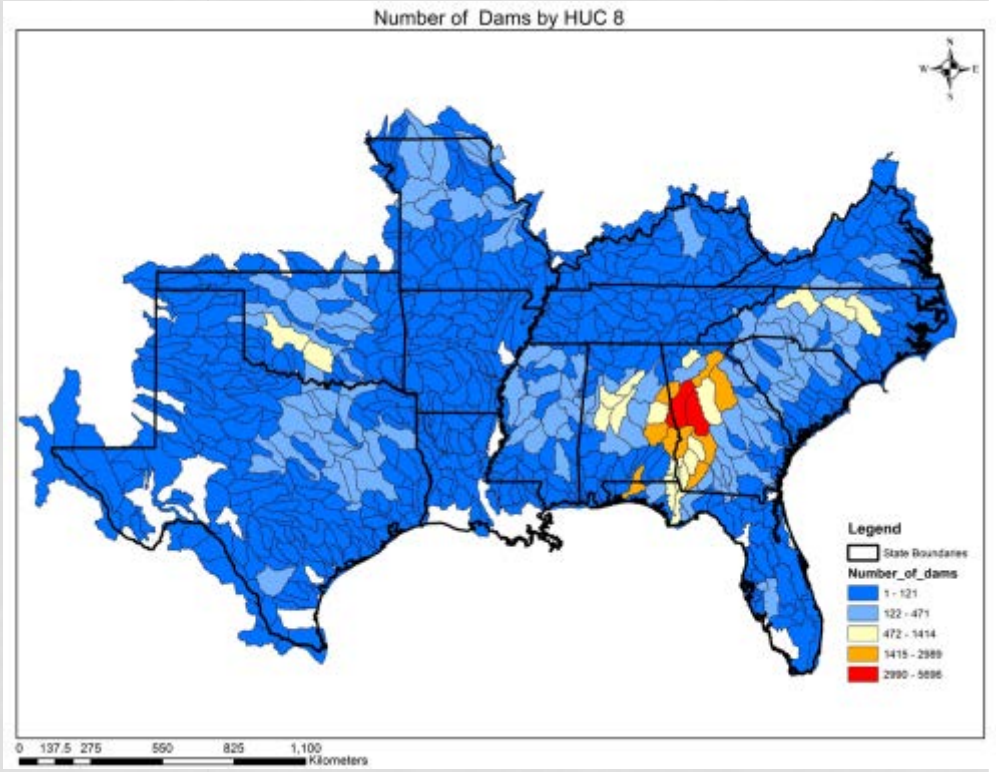
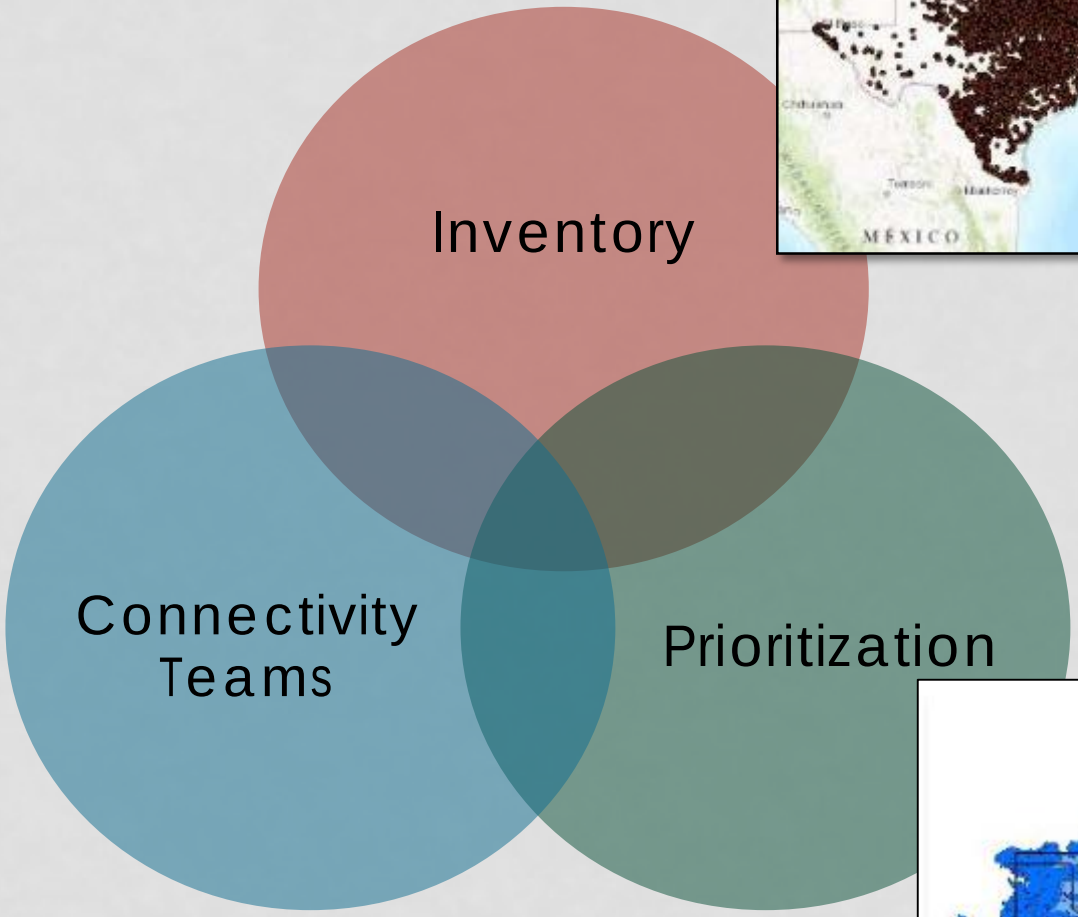
30000
40000


Number of Dams by HUC 8
Legend
State Boundaries
Number_of_dams
1 - 121
122 - 471
472 - 1414
1415 - 2989
2990 - 5696
0 137.5 275 550 825 1,100
Kilometers


GREAT PLAINS
UNITED STATES
MÉXICO


Inventory
Connectivity
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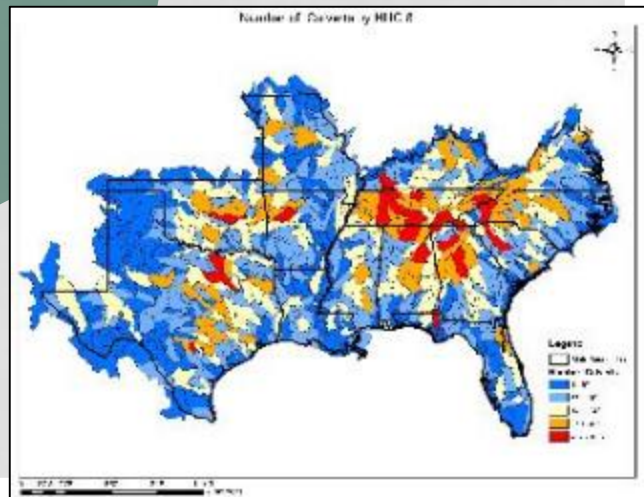
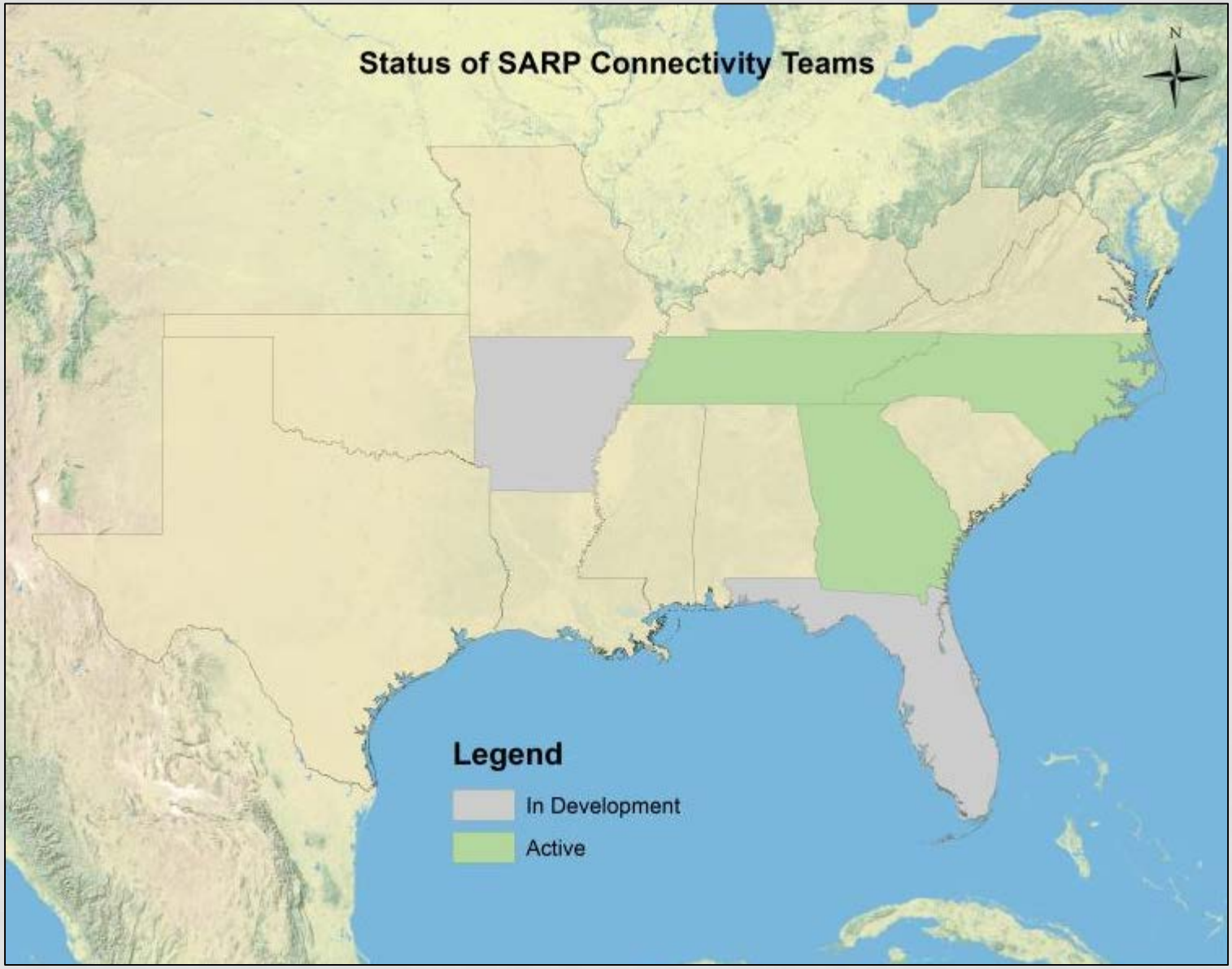
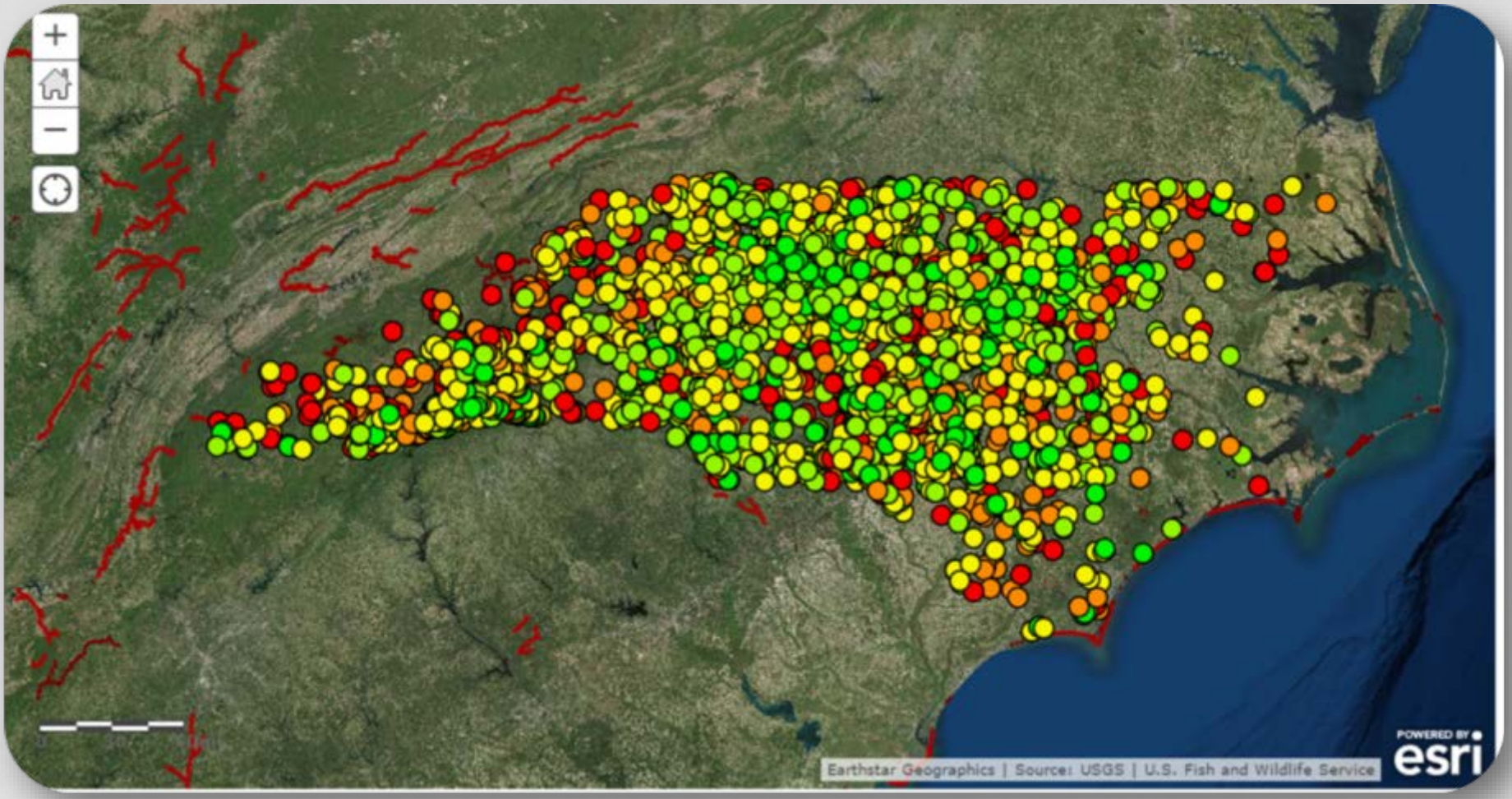
Prioritization

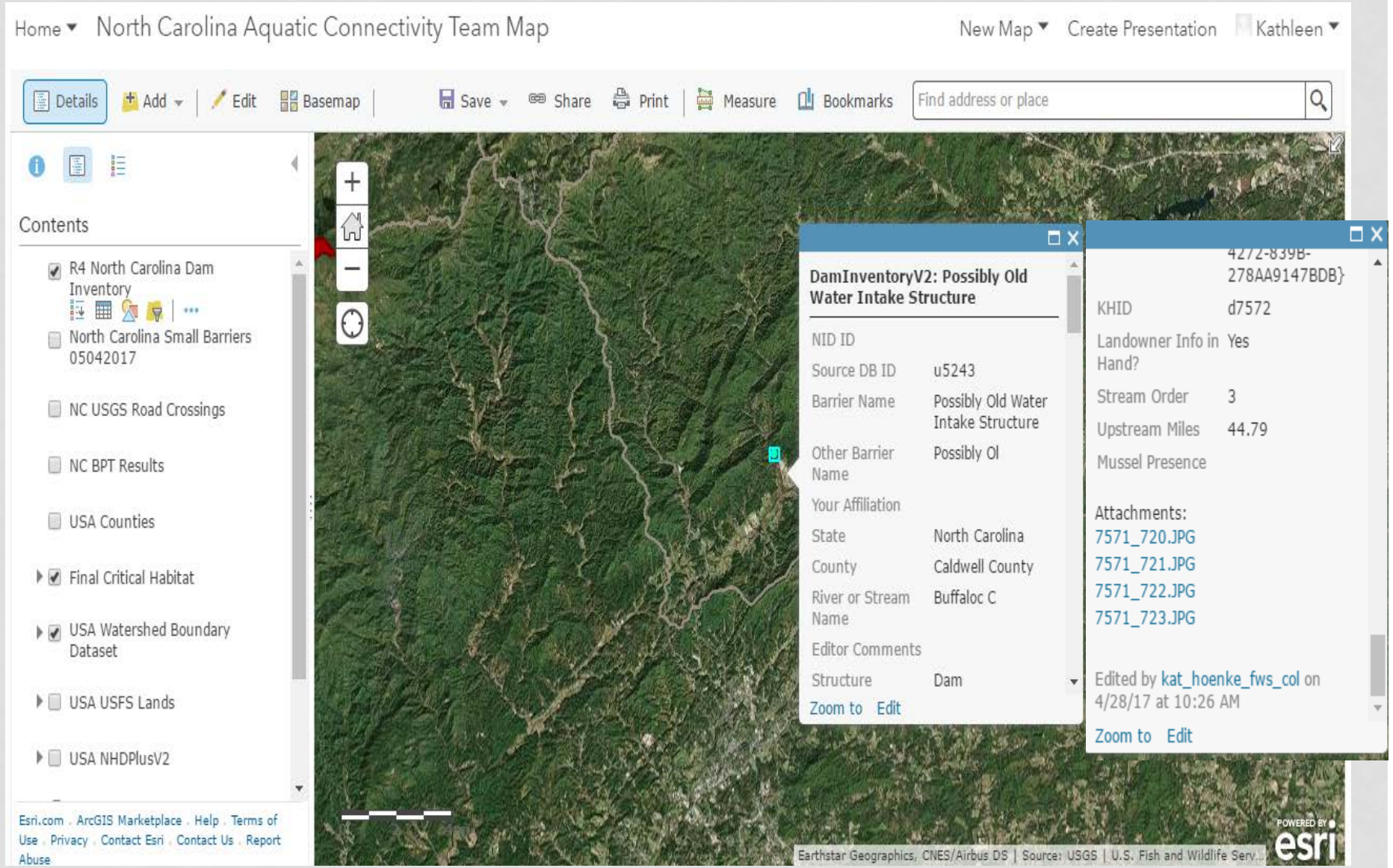


CONNECTIVITY TEAMS AND COLLABORATION



CONNECTIVITY TEAM SUPPORT

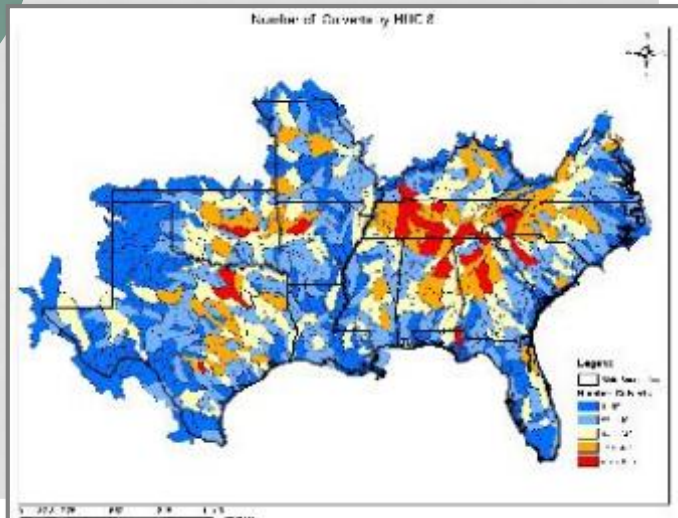



Home
North Carolina Aquatic Connectivity Team Map
New Map
Create Presentation
Kathleen
Details
Add
Edit
Basemap
Save
Share
Print
Measure
Bookmarks
Find address or place
Contents
R4 North Carolina Dam Inventory
North Carolina Small Barriers 05042017
NC USGS Road Crossings
NC BPT Results
USA Counties
Final Critical Habitat
USA Watershed Boundary Dataset
USA USFS Lands
USA NHDPlusV2
Esri.com . ArcGIS Marketplace . Help . Terms of Use . Privacy . Contact Esri . Contact Us . Report Abuse
DamInventoryV2: Possibly Old Water Intake Structure
NID ID
Source DB ID u5243
Barrier Name Possibly Old Water Intake Structure
Other Barrier Name Possibly Ol
Your Affiliation
State North Carolina
County Caldwell County
River or Stream Name Buffaloc C
Editor Comments
Structure Dam
Zoom to Edit
4272-839B-278AA9147BDB}
KHID d7572
Landowner Info in Hand? Yes
Stream Order 3
Upstream Miles 44.79
Mussel Presence
Attachments:
7571_720.JPG
7571_721.JPG
7571_722.JPG
7571_723.JPG
Edited by kat_hoenke_fws_col on 4/28/17 at 10:26 AM
Zoom to Edit
Earthstar Geographics, CNES/Airbus DS | Source: USGS | U.S. Fish and Wildlife Serv...
POWERED BY esri

Inventory

Connectivity Teams

Prioritization



Standardized Protocol

- Passability score
- Risk of failure
- Stream degradation

SOUTHEAST AQUATIC RESOURCES PARTNERSHIP
SARP

AQUATIC CONNECTIVITY
Stream Crossing Survey
DATA FORM

DATABASE ENTRY BY | ENTRY DATE
DATA ENTRY REVIEWED BY | REVIEW DATE

CROSSING DATA

Crossing Code | Local ID (Optional)
Date Observed (DD/MM/YYYY) | Lead Observer
Town/County | Stream
Road | Type: MULTILANE PAVED UNPAVED DRIVEWAY TRAIL RAILROAD
GPS Coordinates (Decimal degree) . °N Latitude — . °W Longitude
Location Description

Crossing Type: BRIDGE CULVERT MULTIPLE CULVERT FORD NO CROSSING REMOVED CROSSING BURIED STREAM INACCESSIBLE PARTIALLY INACCESSIBLE NO UPSTREAM CHANNEL BRIDGE ADEQUATE
Number of Culverts/ Bridge Cells
Photo IDs: INLET | OUTLET | UPSTREAM | DOWNSTREAM | OTHER
Flow Condition: NO FLOW TYPICAL-LOW MODERATE HIGH
Crossing Condition: OK POOR NEW UNKNOWN
Tidal Site: YES NO UNKNOWN
Alignment: FLOW-ALIGNED SKEWED (>45°)
Road Fill Height (Top of culvert to road surface; bridge = 0)
Bankfull Width (Optional) | Confidence: HIGH LOW/ESTIMATED
Constriction: SEVERE MODERATE SPANS ONLY BANKFULL/ ACTIVE CHANNEL SPANS FULL CHANNEL & BANKS
Tailwater Scour Pool: NONE SMALL LARGE
Inlet Scour Pool: NONE SMALL LARGE
Riparian Vegetation (Overstory / Understory / Ground level): % % %
Riparian Vegetation (Overstory / Understory / Ground level): % % %
Crossing Comments

STRUCTURE 1

Structure Material: METAL CONCRETE PLASTIC WOOD ROCK/STONE FIBERGLASS COMBINATION

OUTLET

Outlet Shape: 1 2 3 4 5 6 7 FORD UNKNOWN REMOVED
Outlet Armoring: NONE NOT EXTENSIVE EXTENSIVE
Outlet Grade (Pick one): AT STREAM GRADE FREE FALL CASCADE FREE FALL ONTO CASCADE CLOGGED/COLLAPSED/SUBMERGED UNKNOWN
Outlet Dimensions: A. Width | B. Height | C. Substrate/Water Width | D. Water Depth
Outlet Drop to Water Surface | Outlet Drop to Stream Bottom | E. Abutment Height (Type 7 bridges only)
L. Structure Length (Overall length from inlet to outlet)
Evidence of undermining: Y N

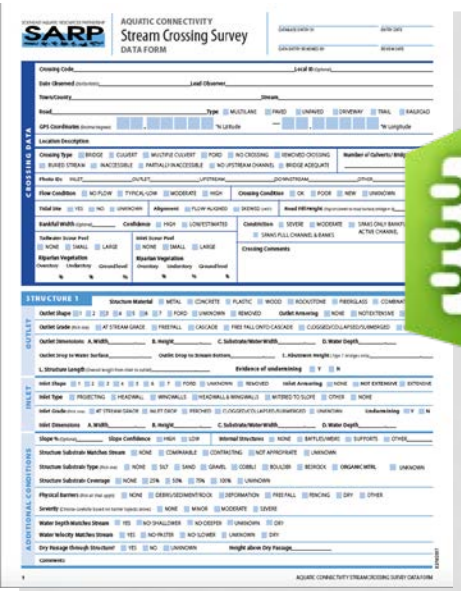
INLET

Inlet Shape: 1 2 3 4 5 6 7 FORD UNKNOWN REMOVED
Inlet Armoring: NONE NOT EXTENSIVE EXTENSIVE
Inlet Type: PROJECTING HEADWALL WINGWALLS HEADWALL & WINGWALLS MITERED TO SLOPE OTHER NONE
Inlet Grade (Pick one): AT STREAM GRADE INLET DROP PERCHED CLOGGED/COLLAPSED/SUBMERGED UNKNOWN
Undermining: Y N
Inlet Dimensions: A. Width | B. Height | C. Substrate/Water Width | D. Water Depth

ADDITIONAL CONDITIONS

Slope % (Optional) | Slope Confidence: HIGH LOW
Internal Structures: NONE BAFFLES/WEIRS SUPPORTS OTHER
Structure Substrate Matches Stream: NONE COMPARABLE CONTRASTING NOT APPROPRIATE UNKNOWN
Structure Substrate Type (Pick one): NONE SILT SAND GRAVEL COBBLE BOULDER BEDROCK ORGANIC MTRL UNKNOWN
Structure Substrate Coverage: NONE 25% 50% 75% 100% UNKNOWN
Physical Barriers (Pick all that apply): NONE DEBRIS/SEDIMENT/ROCK DEFORMATION FREE FALL FENCING DRY OTHER
Severity (Choose carefully based on barrier type(s) above): NONE MINOR MODERATE SEVERE
Water Depth Matches Stream: YES NO-SHALLOWER NO-DEEPER UNKNOWN DRY
Water Velocity Matches Stream: YES NO-FASTER NO-SLOWER UNKNOWN DRY
Dry Passage through Structure?: YES NO UNKNOWN
Height above Dry Passage
Comments

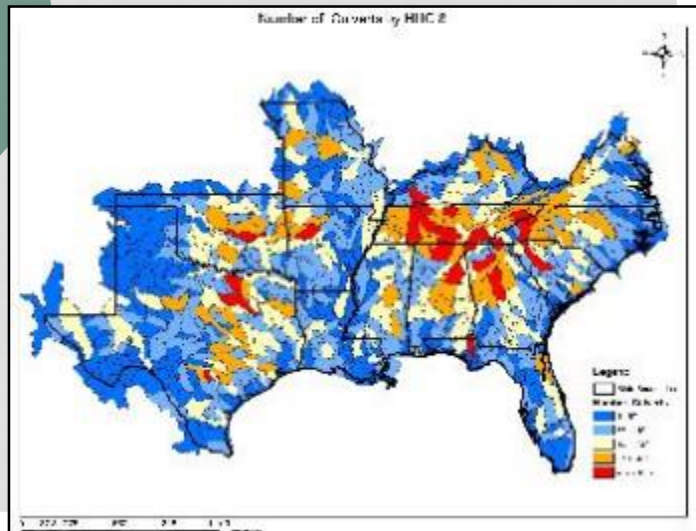
02/10/2017



Inventory

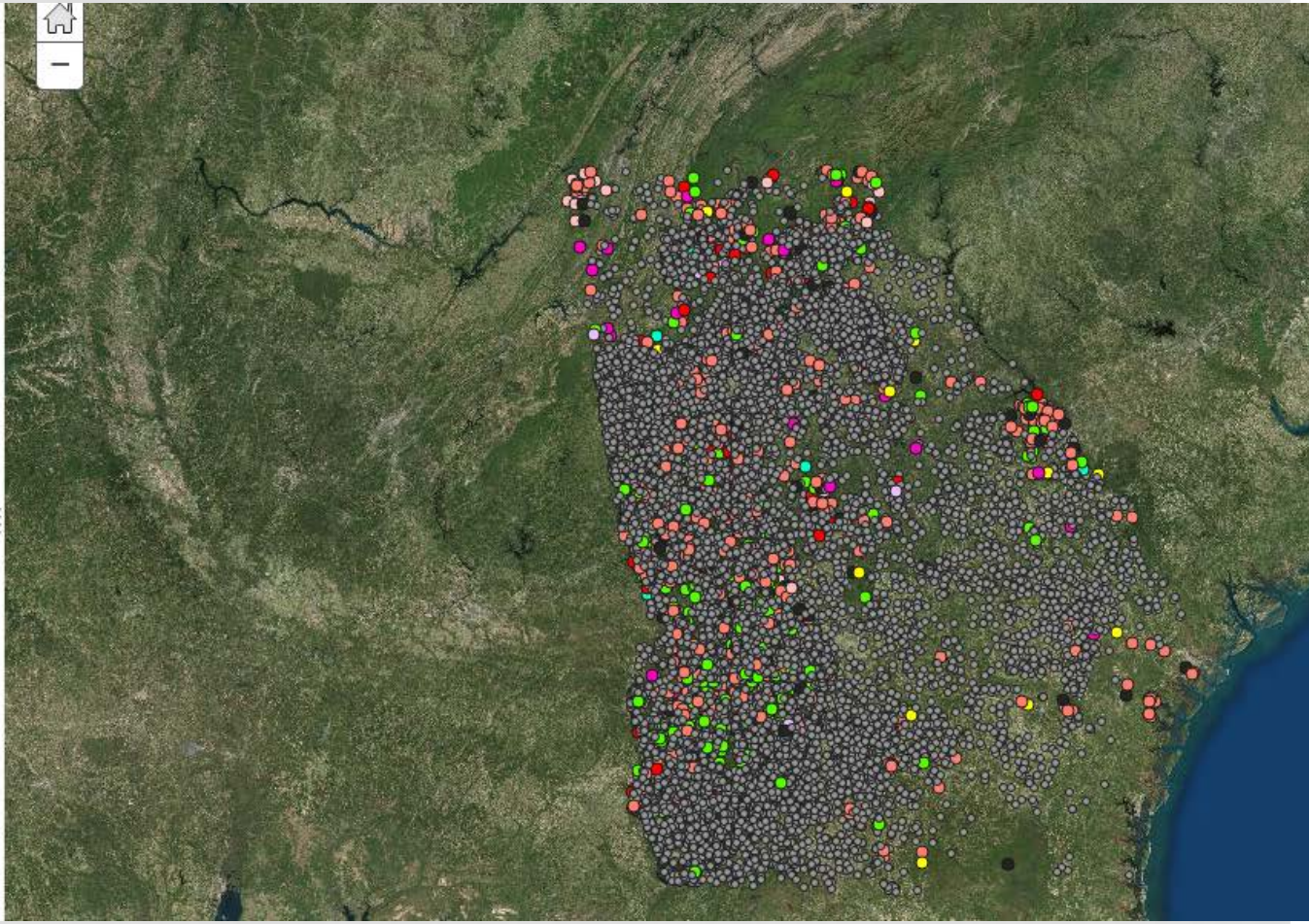
Connectivity Teams

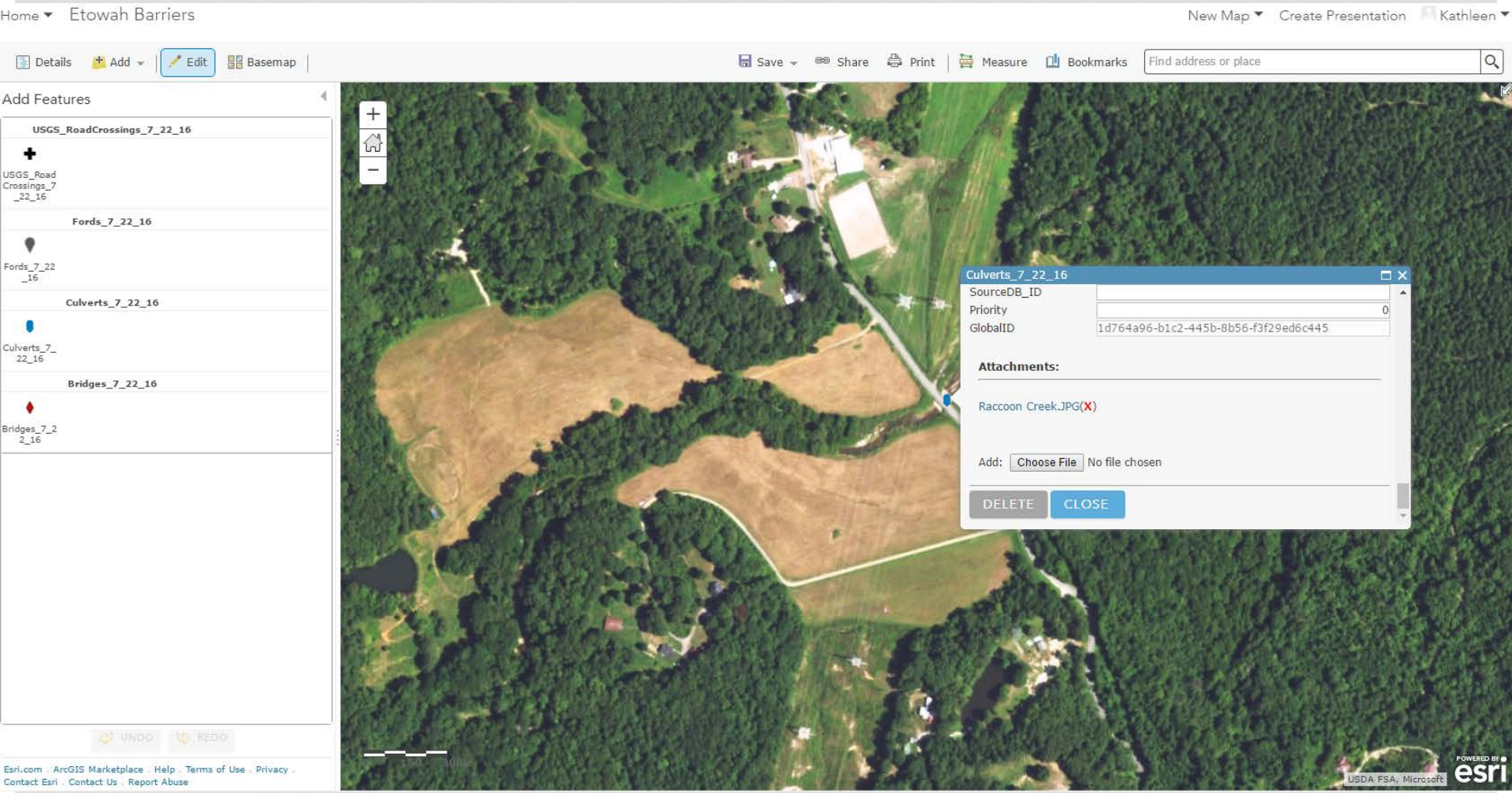
Prioritization



Contents

- R4 Georgia Dam Inventory
- GA SWAP Priority Watersheds
- USFWS Region 4 Fisheries Watershed Priorities 2013 - Watersheds with Scores 35
- USA Counties
- USA States (Generalized)
- U.S. Geological Survey - Watershed Boundaries
- SEACAP mapServ
- Final Critical Habitat
- USA NHDPlusV2
- Imagery
- MyMapService2 - MatchTable

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Etowah Barriers
New Map
Create Presentation
Kathleen
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Basemap
Save
Share
Print
Measure
Bookmarks
Find address or place
Add Features
USGS_RoadCrossings_7_22_16
USGS_Road Crossings_7_22_16
Fords_7_22_16
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REDO
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GlobalID
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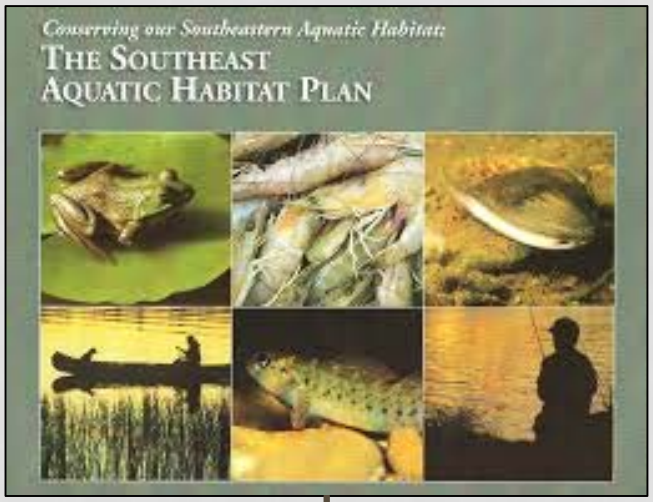

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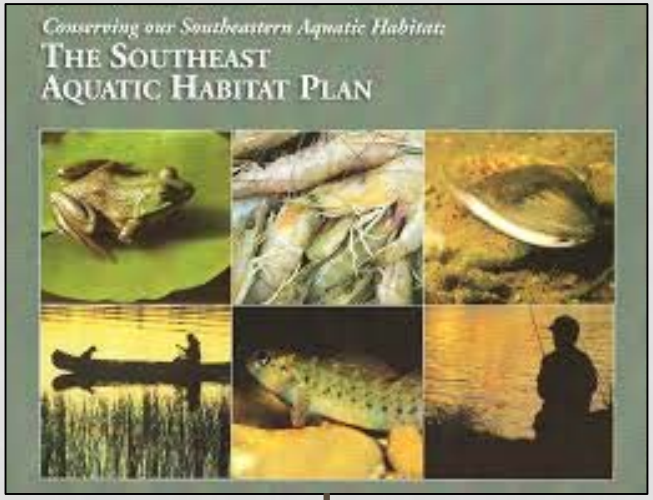

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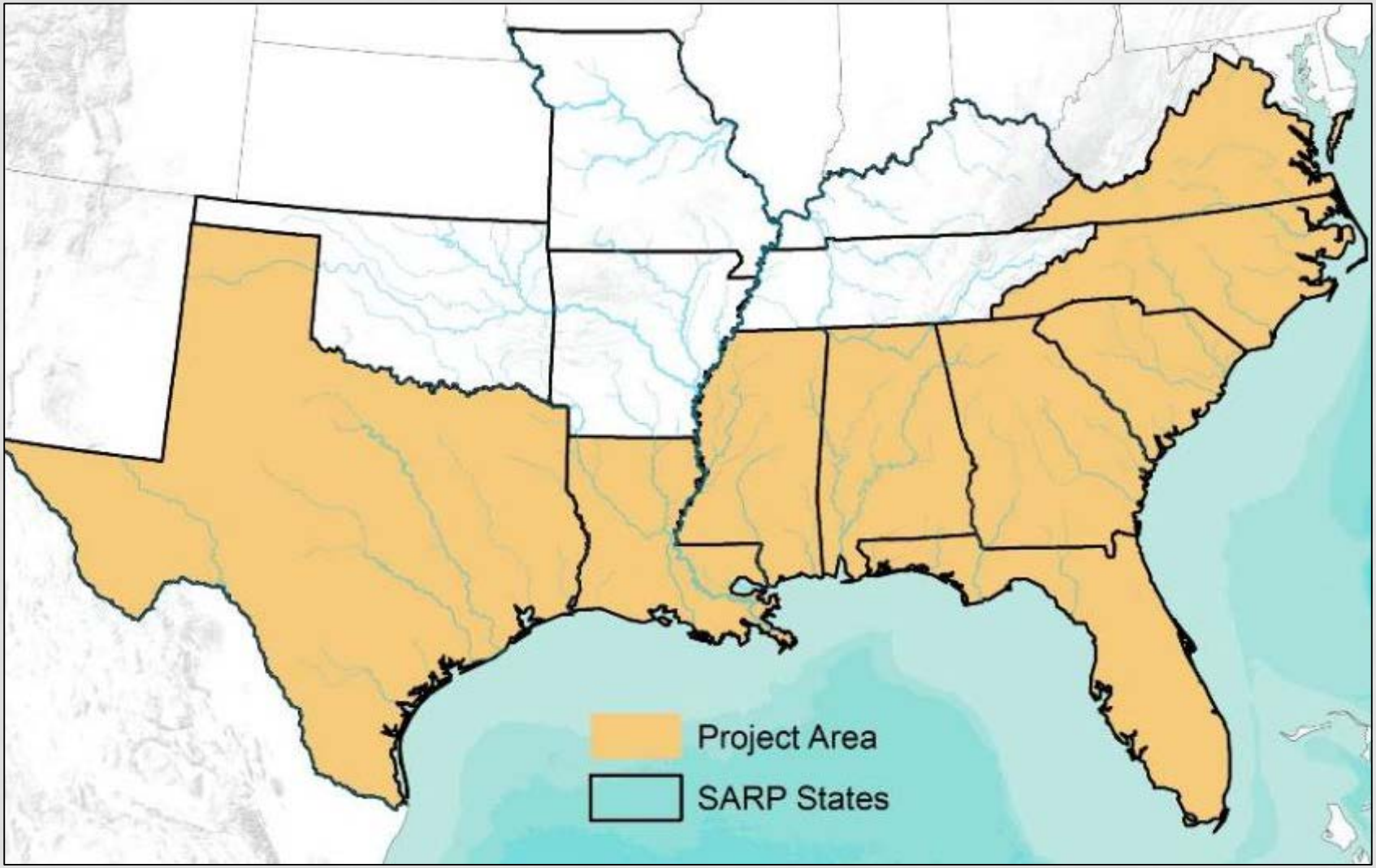
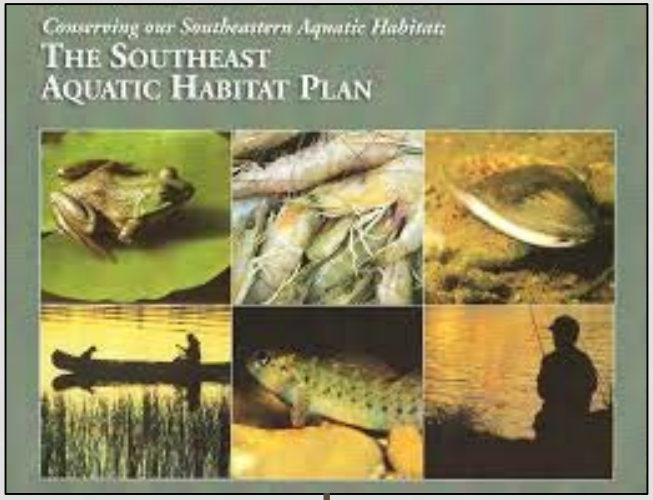
COASTAL PROGRAM



"Sustainable coastal habitats and associated fisheries."



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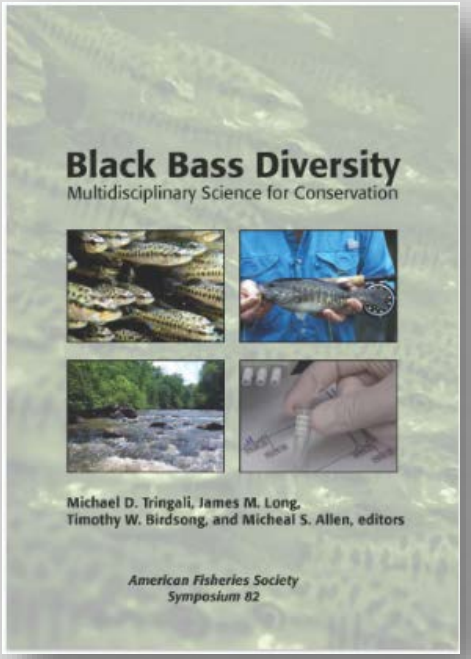
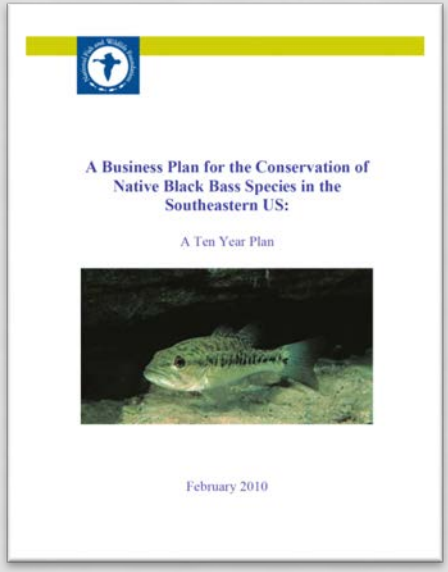
NATIVE BLACK BASS INITIATIVE

Redeye Bass

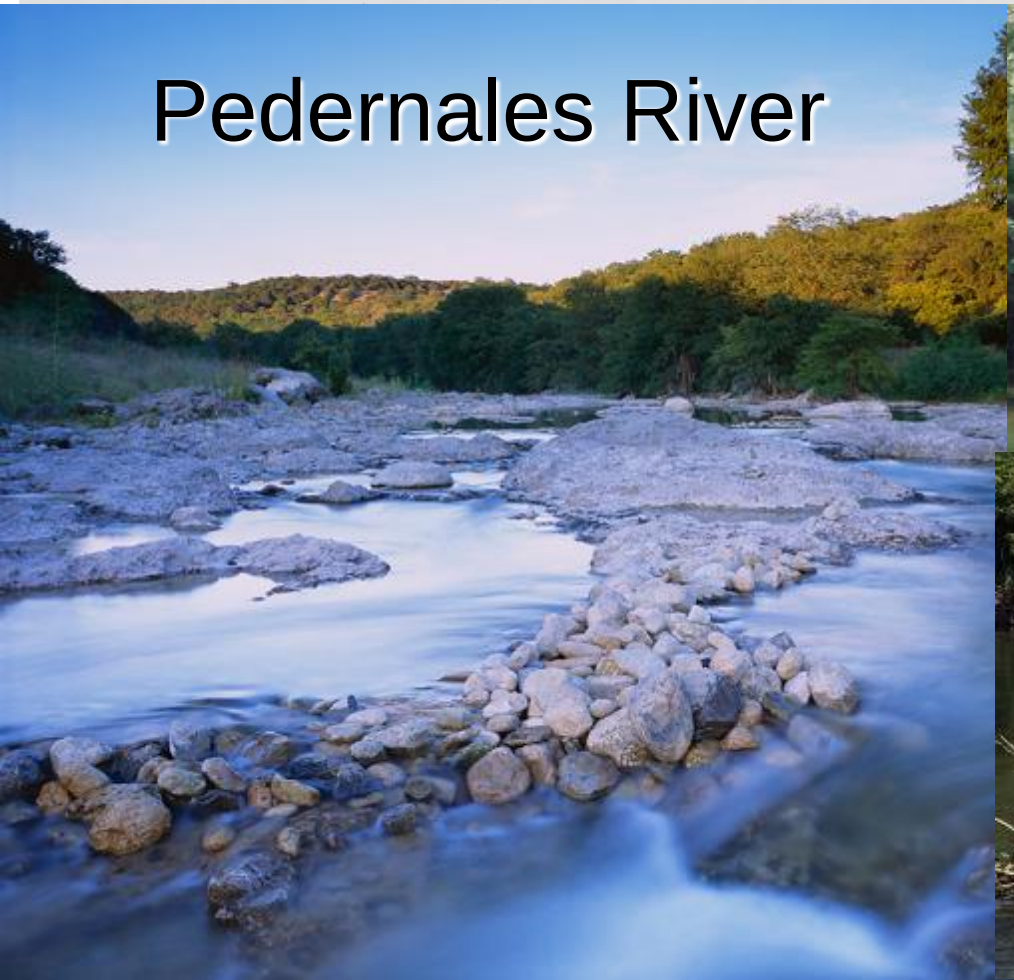
Guadalupe Bass

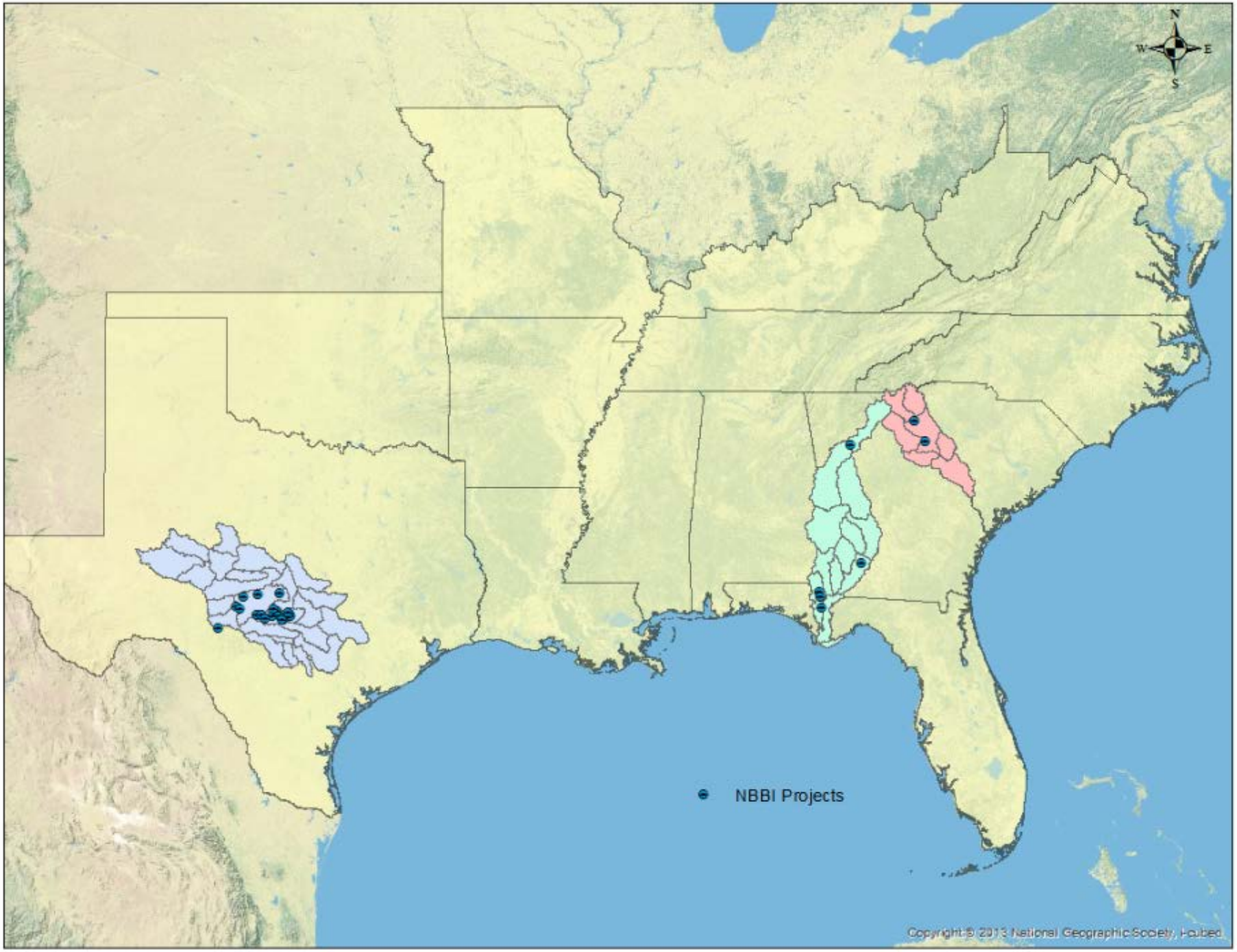




Shoal Bass

HABITAT RESTORATION




N
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NBBI Projects
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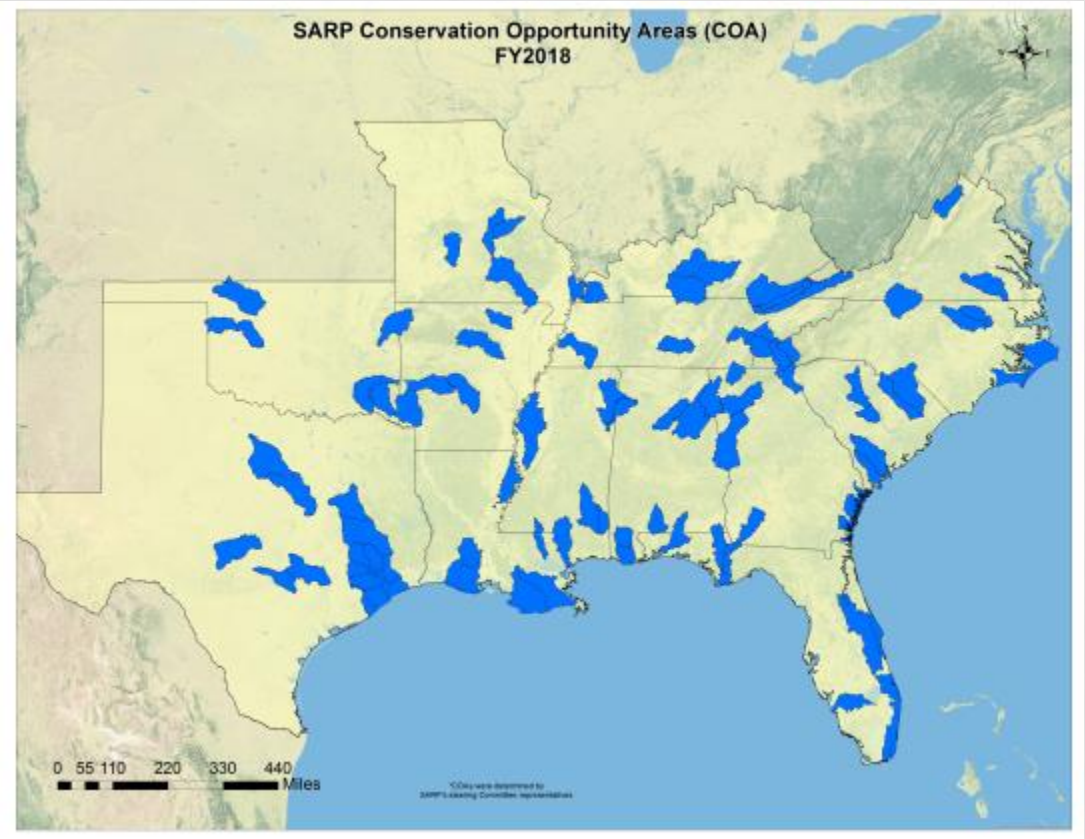
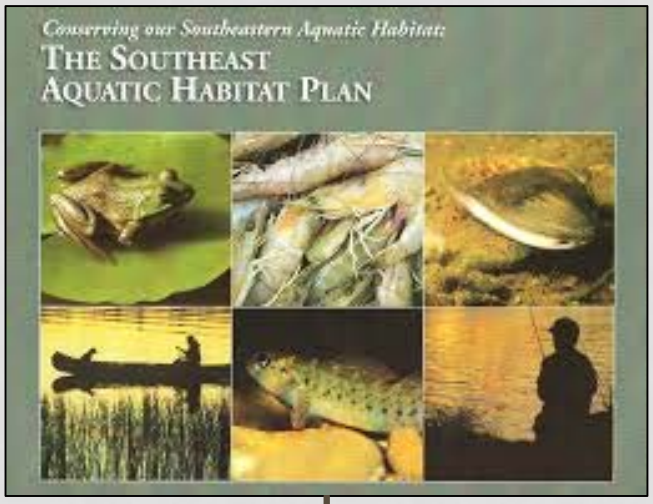
Matt Hanner

Watershed threats

Conservation Actions

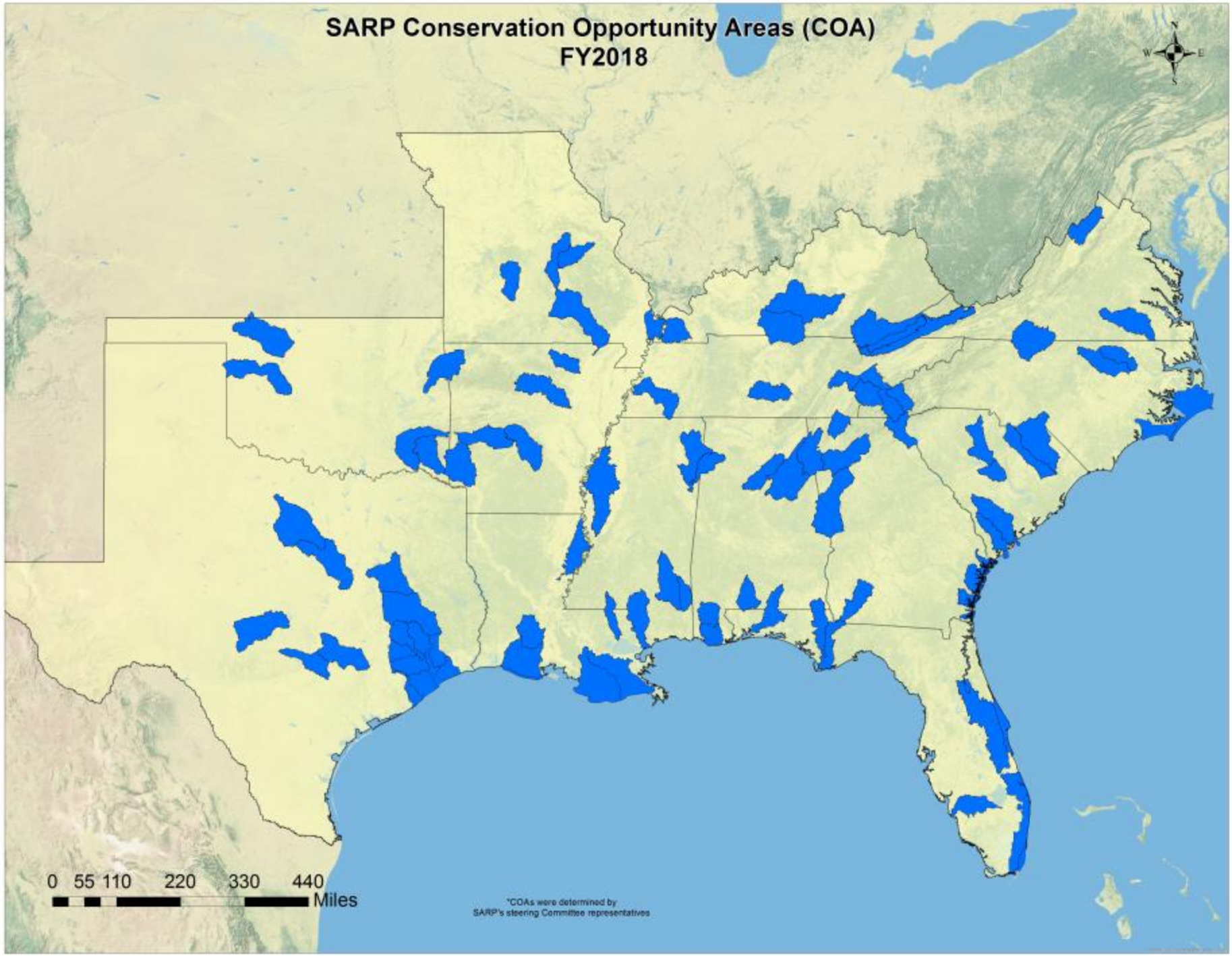
Delivery Network





"Conservation Planning"

- Connectivity
- Coastal
- Native Black Bass Initiative
- In-stream Flow
- Riparian & Physical Habitat


SARP Conservation Opportunity Areas (COA)
FY2018
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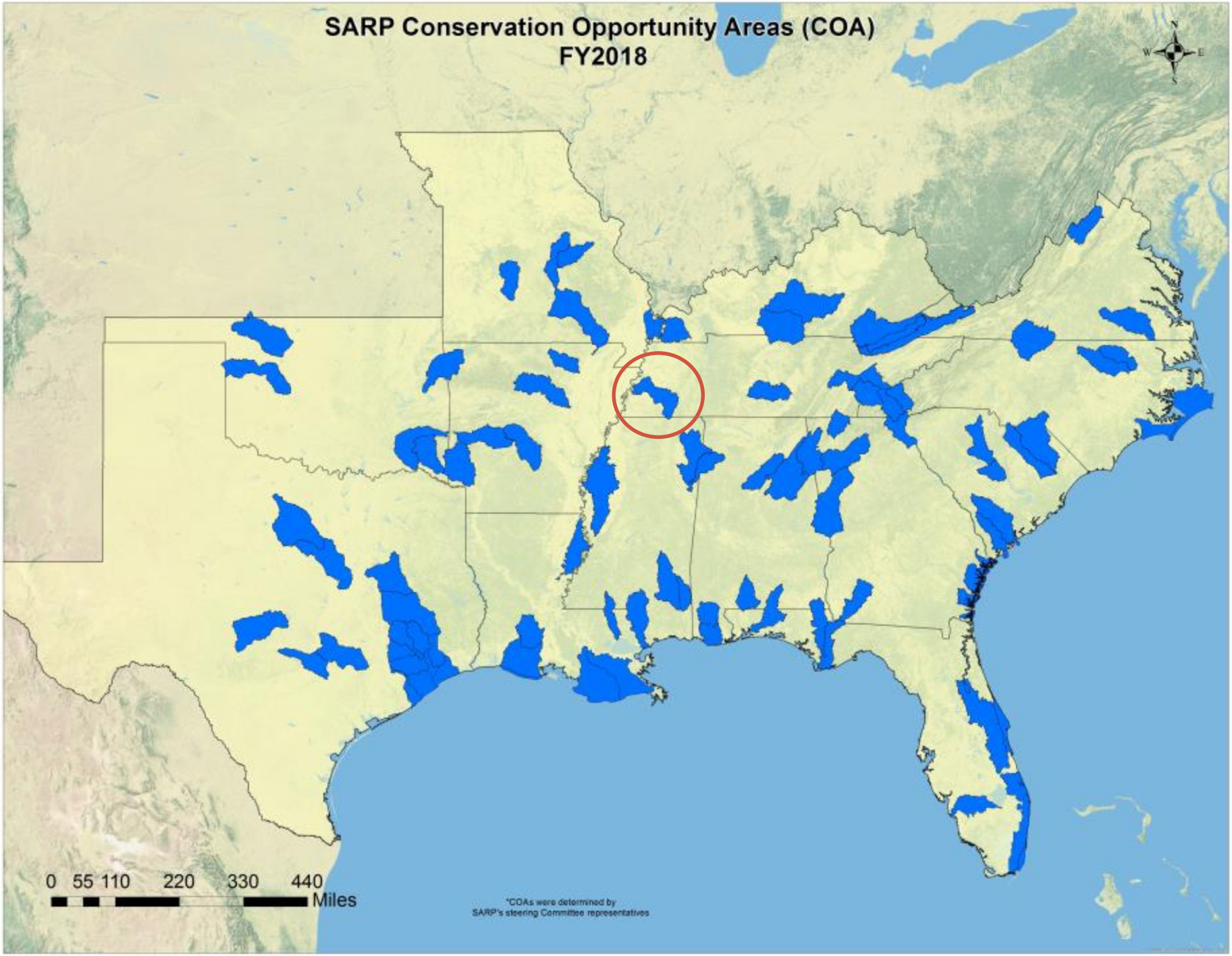
E
S
0 55 110 220 330 440
Miles
*COAs were determined by
SARP's steering Committee representatives


SARP Conservation Opportunity Areas (COA)
FY2018
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E
S
0 55 110 220 330 440
Miles
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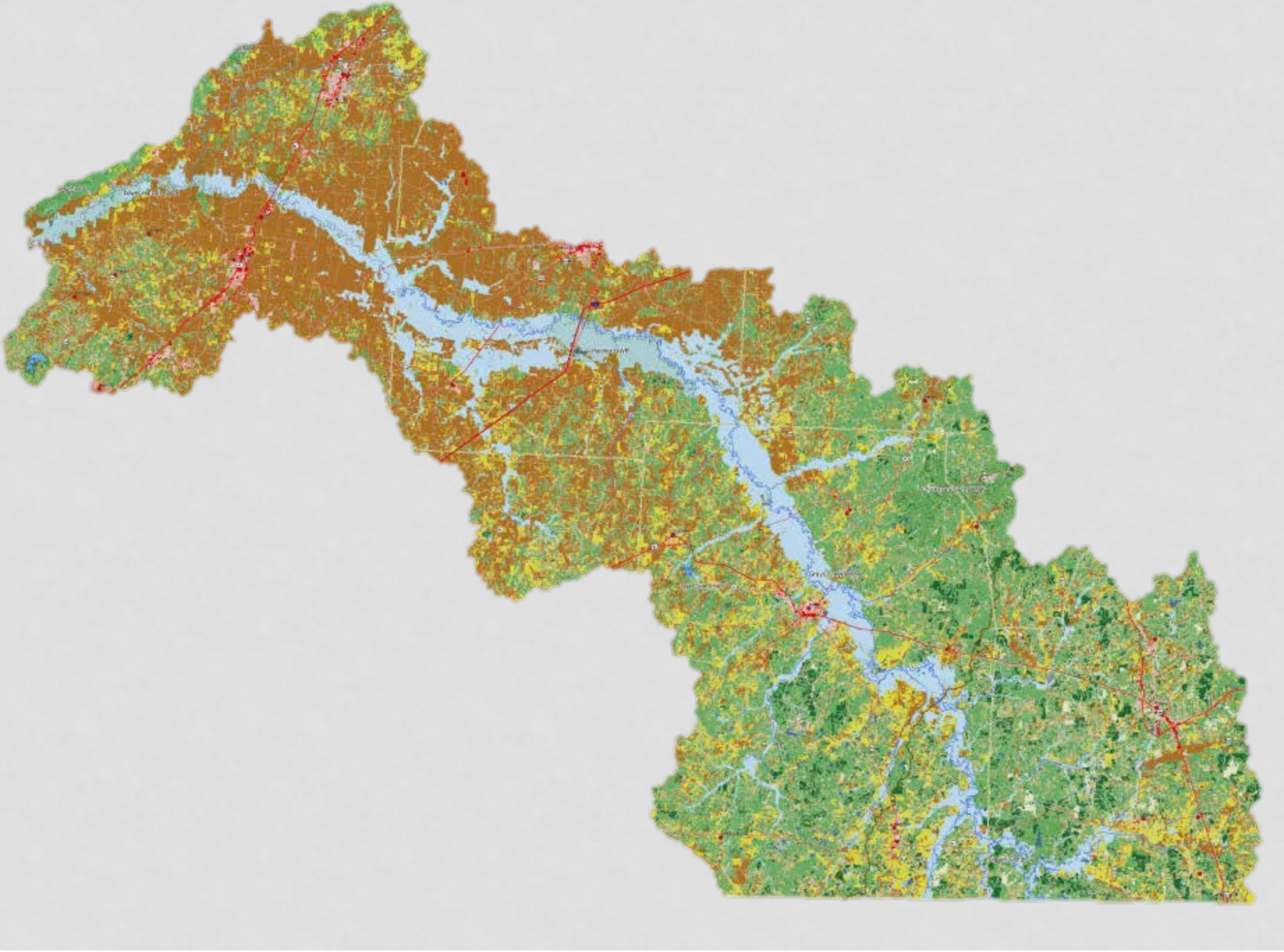

jessica@southeastaquatics.net

Lower Hatchie River Project Planning Form (Responses)-Conser...

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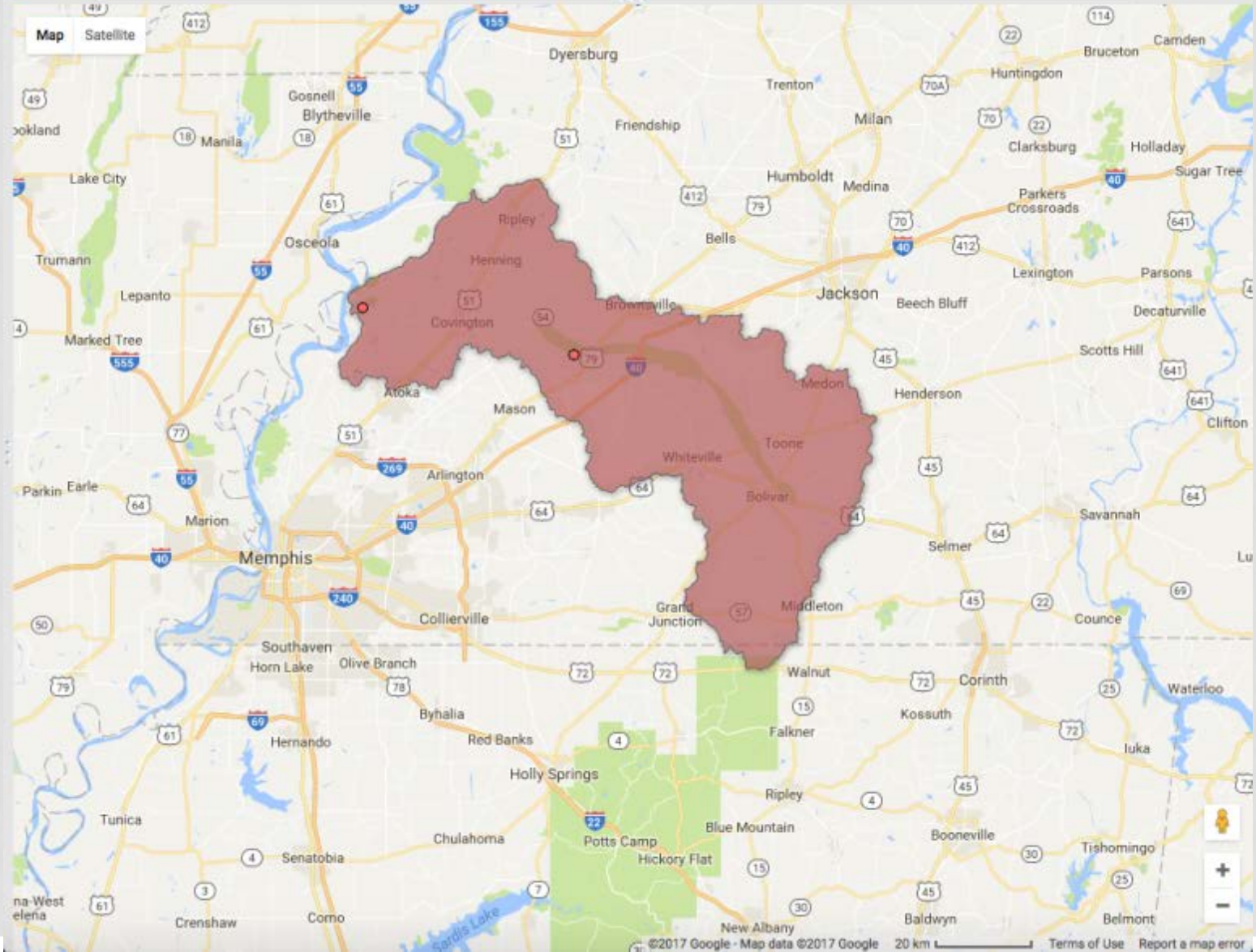
File Edit Tools Help | Rows 1 | Cards 1 | Map 1

Filter | No filters applied | Saved | 3 rows



Lower Hatchie River Project Planning Form

This form is used to capture project-level actions that were discussed at the March 15th, 2017 Lower Hatchie River Workshop (HUC 08010208) and ongoing as they continue to develop. It is meant to feed project planning and will help facilitate communication and collaboration beyond the workshop. We encourage you to continue project entry throughout the collaboration and use the resultant map to demonstrate the Lower Hatchie River Conservation Delivery Network's efforts across the watershed.

Additional information and the interactive map can be found on SARP's website found at southeastaquatics.net/??

Your name *

Short answer text

Project Description *

Provide a short 2-4 sentence description of your project, e.g. "Increase public access to water-based recreational activities" or "Conduct an inventory and characterization of low-head dams and road-related stream crossing."

Long answer text

Project Title *

Considering project description, provide a concise name.

jessica@southeastaquatics.net

Lower Hatchie River Project Planning Form (Responses)-Conser...

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Edited at 11:26

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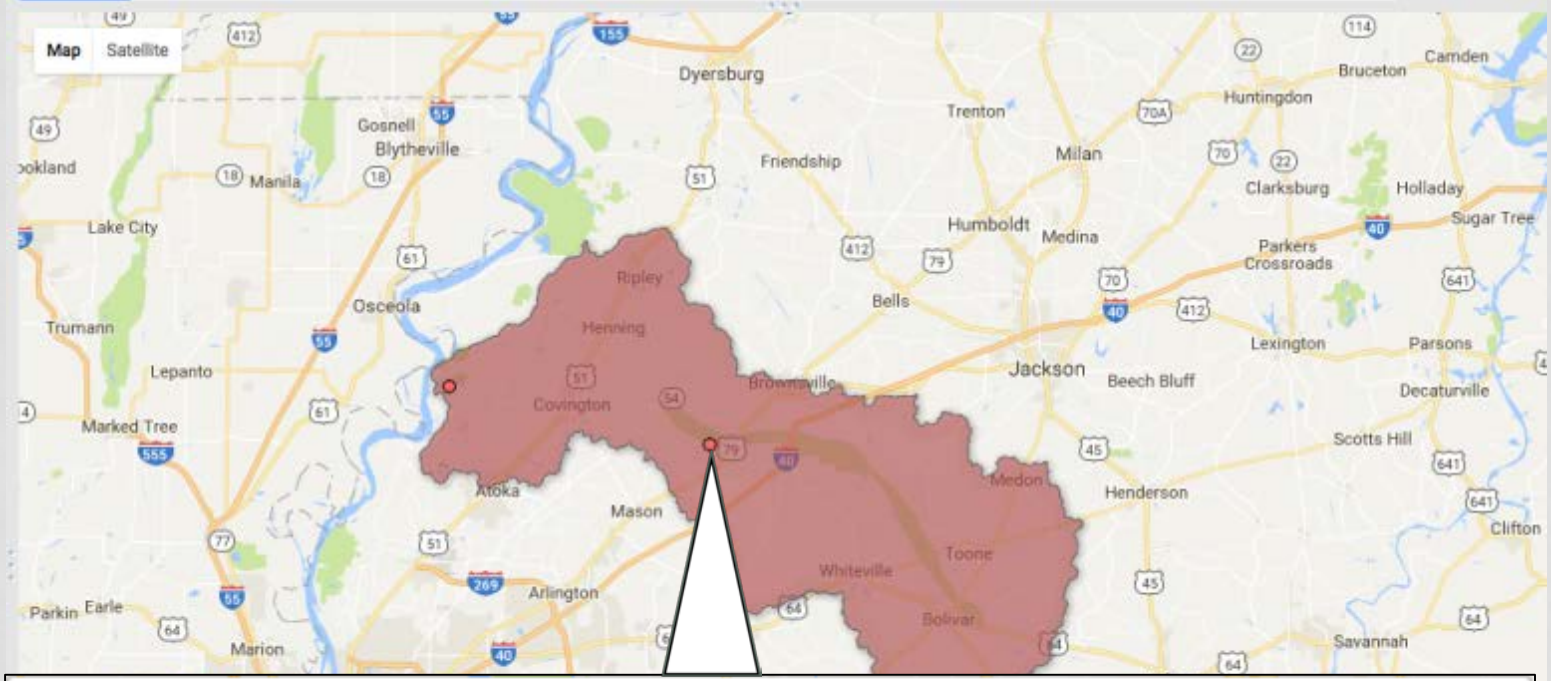
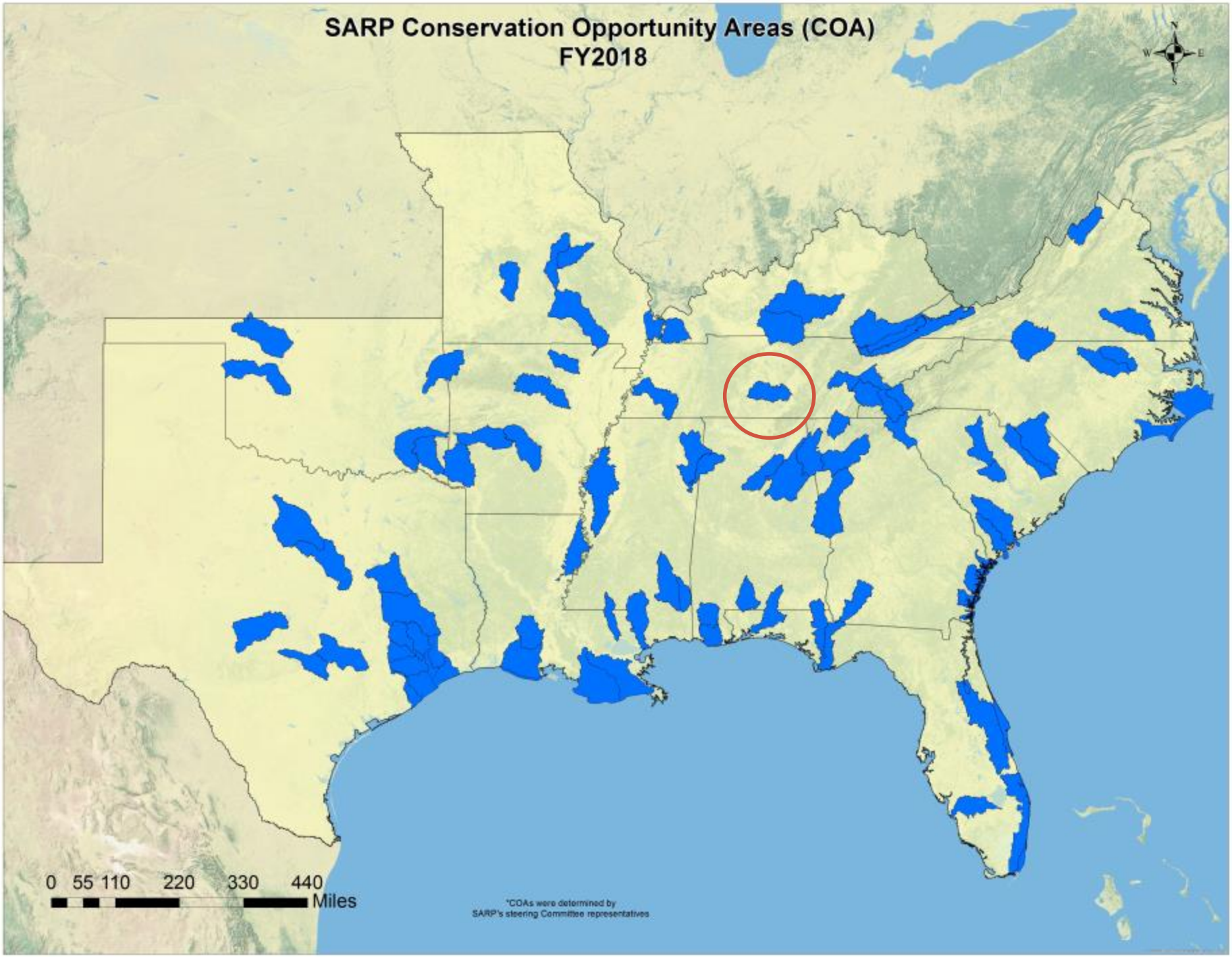
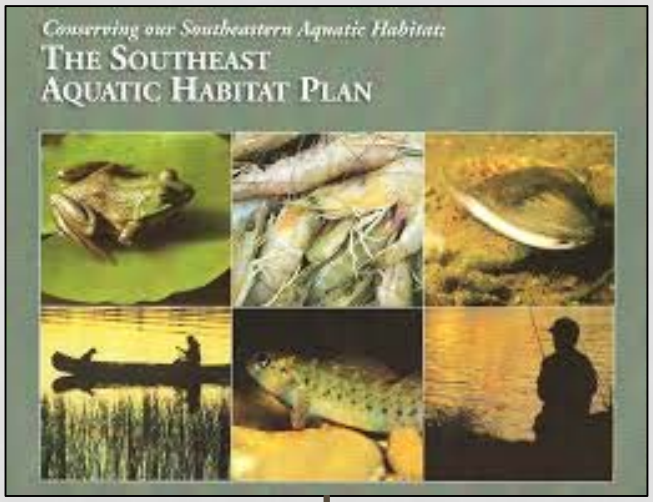


Project Description: 700 Acre Wetland Restoration Project currently underway
Project Title: Wetland Restoration-Haywood County
Project Status: Ongoing and/or Funded
Anticipated Timeline?: 1-3 years
Project Goal: Restoration
Project Objectives: Protect and maintain intact, healthy habitats, Restore impacted habitats
Project Location: Outside of Stanton, TN

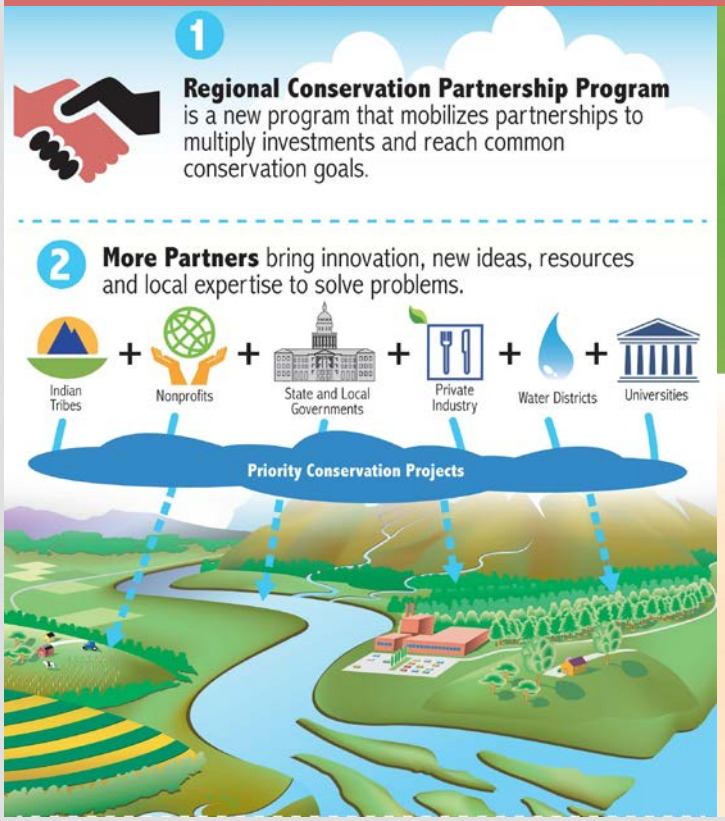

SARP Conservation Opportunity Areas (COA)
FY2018
N
W
E
S
0 55 110 220 330 440
Miles
*COAs were determined by
SARP's steering Committee representatives

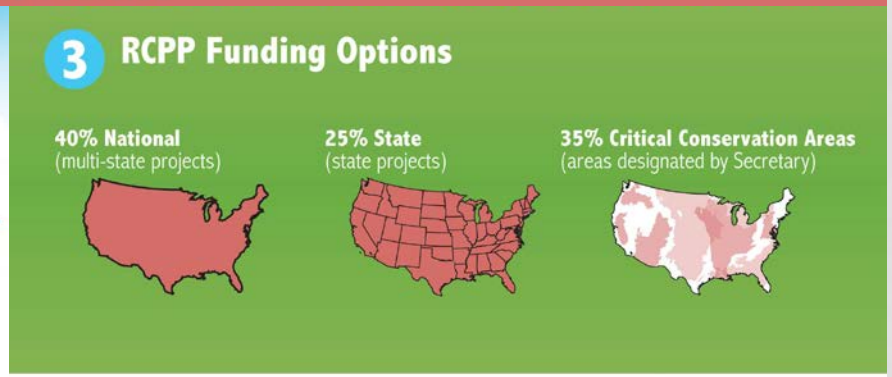


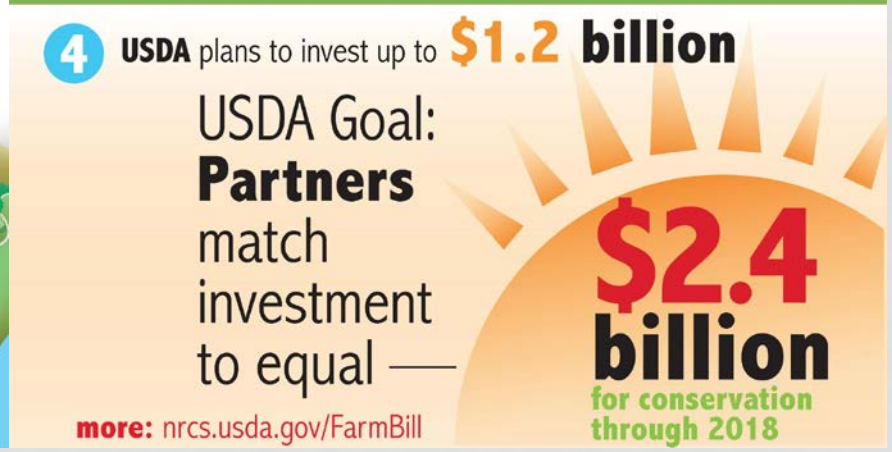
- Connectivity
- Coastal
- Native Black Bass Initiative
- In-stream Flow
- Riparian & Physical Habitat

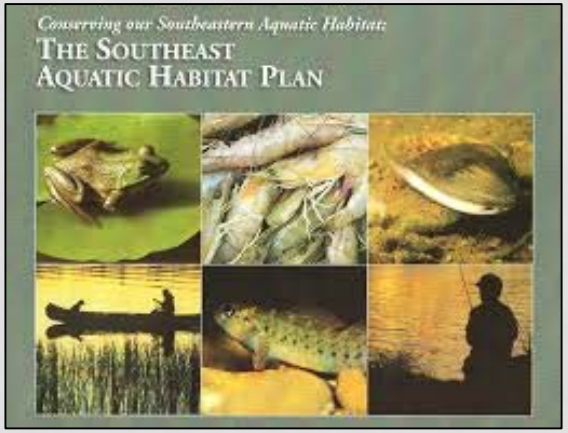
Coming Together for Conservation: New Approach, More Partners

USDA Natural Resources Conservation Service









>125 restoration projects

$381M/yr

In ecosystem services for riparian habitats alone


THANK YOU!