10 Years of **SHU Success:** A Promising Approach for Conserving Alabama's Water and Wildlife

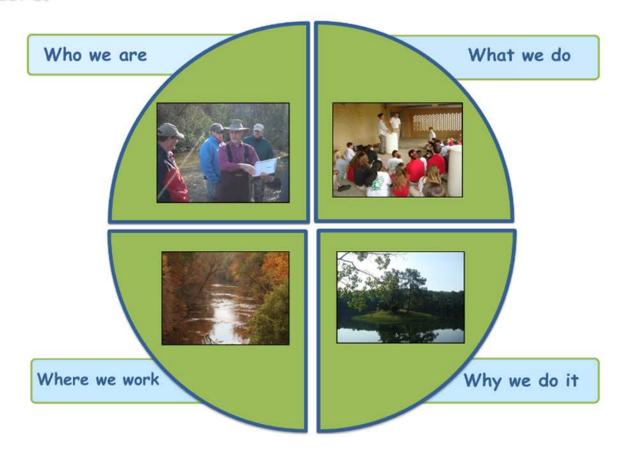


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Geological Survey of Alabama
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ALABAMA RIVERS AND STREAMS NETWORK

ABOUT US

CLEAN THE LOCAL STREET

















FOREST SERVICE

























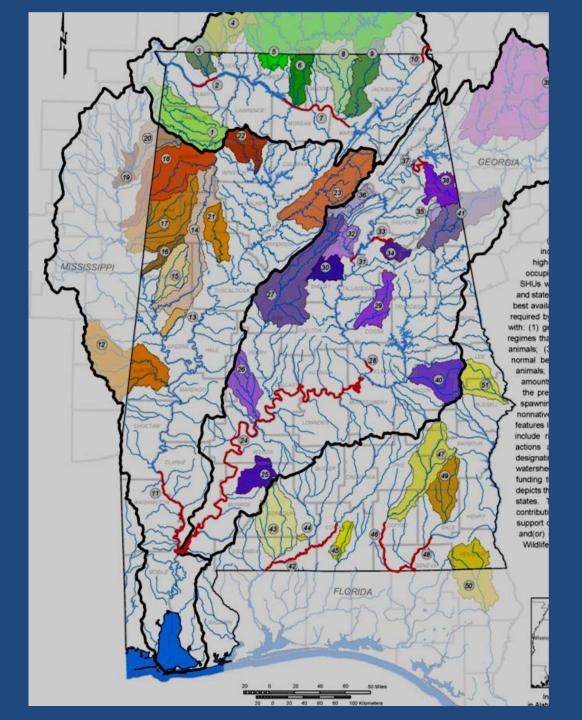


- Priority watersheds
- Guide recovery efforts
- Filter for workload
- Focuses efforts

GEOLOGICAL SURVEY OF ALABAMA Strategic Habitat Units and Strategic River Reach Units for Aquatic Species of Conservation Concern in Alabama E. Arms Wynn, Patrick E. O'Nell, and Stock M. McChegor - Gertrigtois Survey of Audiente, Judhay R. Posest, Jestifan M. Prichaet, and Ambroy D. Food - V. E. Fash and Hilliath Service and Paul C. Judinian - Nationan Department of Commensation and Statute Resources. main HLIC 4 autragions in Alabama (including enution potenties for managing remove Not-qually emants and reflect the versity of aquatic habitat copied by these spaces recoverly and presently GHUs were selected based in the presence of federally listed and state imperied species, designation of critical habital, and the quired by these aquatic species to oursize. This includes area regimes that support notines behaves, growth, sed surviver of the normal behavior growth, and viscolly of all the stages of the animals. (4) a discrete of channel substitute tipes, with notices amounts of this sediment and flamontous algae; (5) for huseasts, the preserves of Soli books with altequate being. Snapping, and routive species. The MRRUS were serected topsed on hotists notice ner reaches where species restotation and recover actions are planned or already underview. The purposes of segnating SYCs and SPRUs is to facilitate and coordinate nationing management and restoration efforts as well as to house unding to attitoss habital and water-quality reves. The map depote the location of 504 is and 5590 is in Radiama and adjaces states. The control subspare on the risk continuing restant and to the Britis. At of the Britis current support one or cruitiple federally and/or state protected apecies National Hydrologic Dataset Subregions (HUC 4) in Alabama

- 1. Assess
- 2. Restore
- 3. Recover
- 4. Monitor



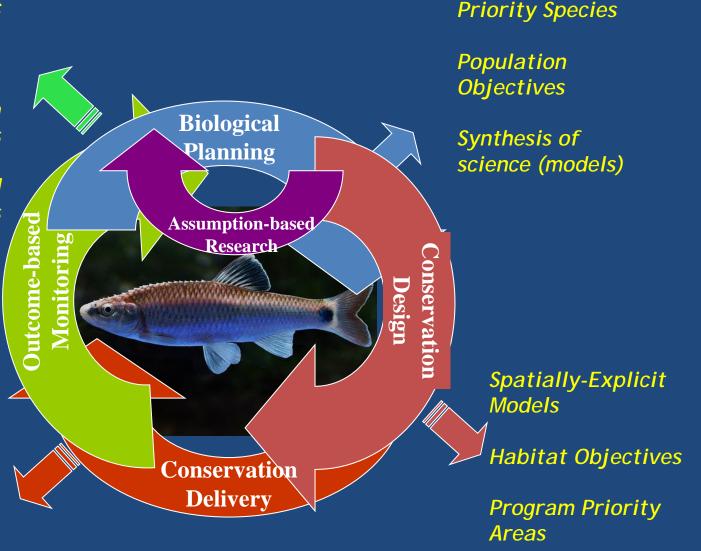


Strategic Habitat Conservation

Build the scientific foundation for Management

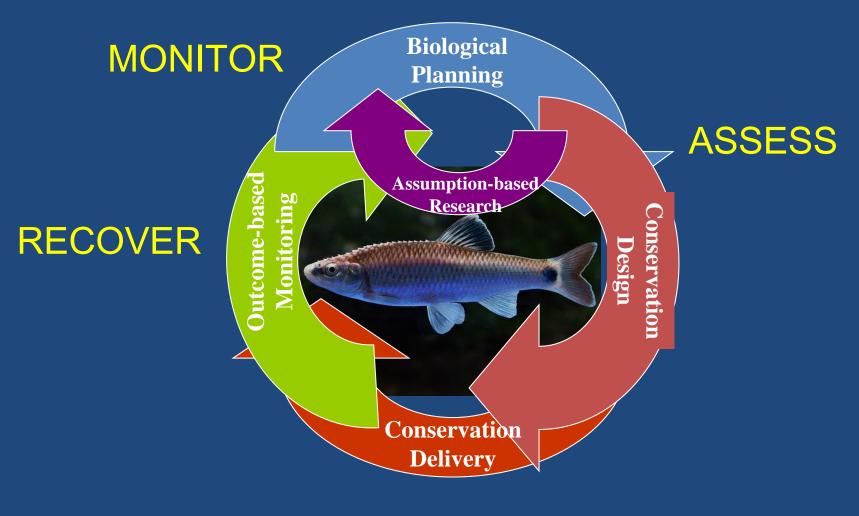
Program Accomplishments

Net progress toward Population objectives



Population Impacts

The SHC framework supports the SHU process



RESTORE

2,000 Stream Crossings

- Bear Creek = 625
- Big Canoe Creek = 550
- North River = 75
- Murder Creek = 50
- Choccolocco Creek = 700

291 Fish IBIs

- Bear Creek = 32
- Big Canoe Creek = 27
- Choc/Pea/Yellow Rivers = 30
- Murder Creek = 24
- Sipsey River = 26
- Buttahatchee/Lux Rivers = 96
- Terrapin Creek = 56

3 Dam Removals

- Big Canoe Creek = 1
- Locust Fork = 1
- Cahaba River = 1

Sediment Reduction in North River

445 tons

Key Accomplishments

Mollusk Reintroductions

Reintroductions of 18 species

Precluded the need to List

5 crayfish species

Down-listings

1 gastropod



AABC 2010 - 2015 Mollusk Reintroductions:

Tennessee Basin:



Alabama Lampmussel - E Paint Rock - lower - 3,197 Bear Creek - 4,572 **Elk River, TN - 4,462**

Sequatchie River, TN – 1,800

Cumberland Bean – E Paint Rock - 378

Pale Lilliput - E **Duck River, TN - 1,602 Paint Rock - 1,200**

Rabbitsfoot - T **Limestone Creek - 270**

Painted Creekshell Limestone Creek - 430

Oyster Mussel – E Paint Rock - 1,007

Cumberland Moccasinshell Bear Creek - 185

Coosa Basin:

Alabama Rainbow Choccolocco Creek - 7,362

Coosa River - 2,000 Little River - 2,000

Southern Rainbow Little River - 183

Fine-lined Pocketbook - T

Little River - 184

Interrupted Rocksnail - E Weiss Bypass - 2,034

Alabama Creekmussel Choccolocco Creek - 303 Coosa River – 250

Little River - 250

Cahaba Basin:



_ Southern Combshell - E Cahaba River - 287

> Coosa Moccasinshell - E Little Cahaba River - 59

Spotted Rocksnail

Cahaba River – 42,146

Oblong Rocksnail Little Cahaba River - 3,768

Alabama Basin:



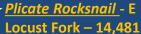
Orangenacre Mucket - T Tallatchee Creek - 330

Tombigbee Basin:



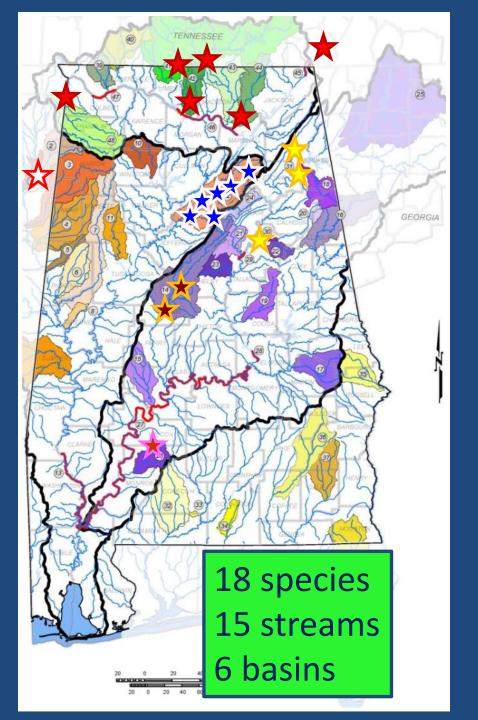
Southern Combshell - E **Bull Mountain Creek, MS - 205**

Warrior Basin:



Orangenacre Mucket - T Locust Fork - 2,062

Alabama Rainbow **Locust Fork - 15,100**



Success looks like this...



Restoring habitat



Precluding the need to list



Delisting / Downlisting species from the ESA









- In 2010 and 2012, the USFWS
 Alabama Field Office funded 2
 studies to assess the populations of
 6 crayfishes from the CBD megapetition list found in AL (MS FO)
 funded an assessment on 3 that occur in MS).
- Based on published reports and preliminary results from ongoing surveys, CBD has dropped 5 of the 6 crayfishes from further listing consideration.
- Combined, the 2 studies cost \$50,000.
- Tens of thousands of listing dollars are saved by this early action.
- Work accomplished through existing SHU partnerships

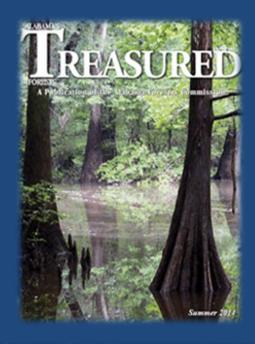






Outreach and Education









Current Surveys









Scheduled Dam Removals



Program Expansion



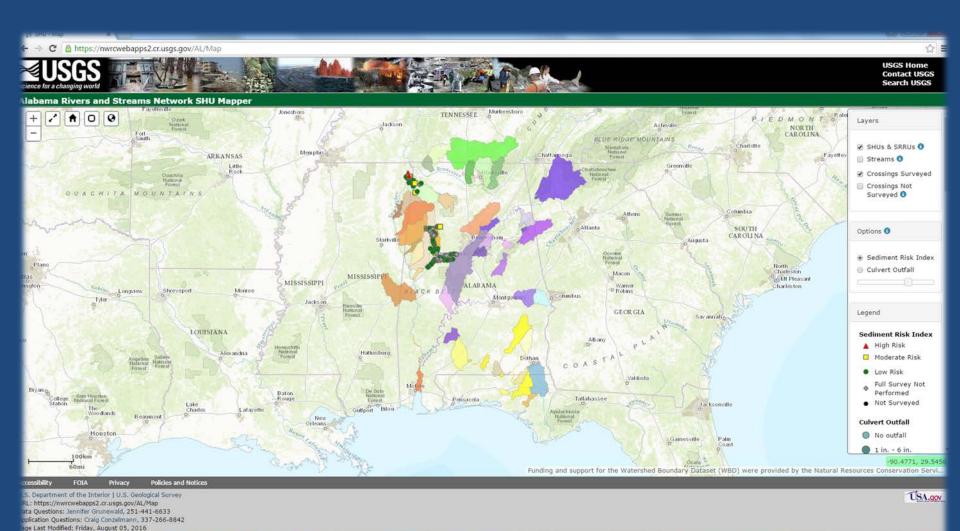
Landowner Assistance

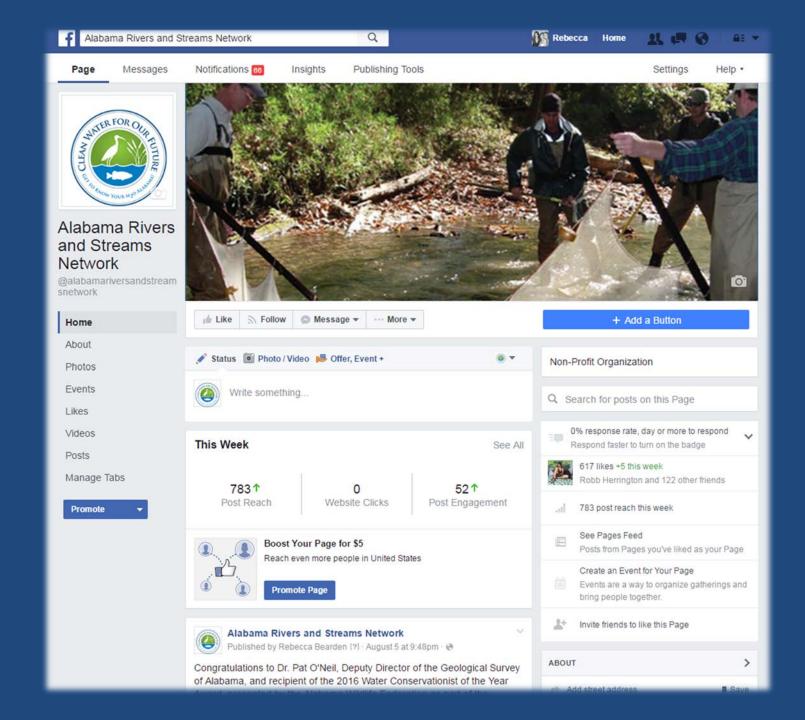






SHU Mapper





Questions?

