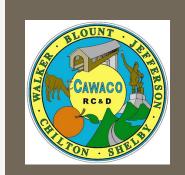
Strategic Habitat Internships



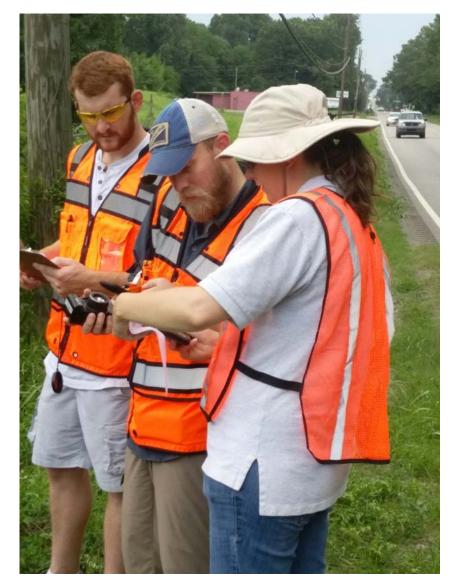






THE UNIVERSITY OF





Daniel West Project Manager

Sediment Risk Index Internship Recap

Sedimentation Risk Index (SRI) Manual

for Stream Crossing Assessment

Modification of the

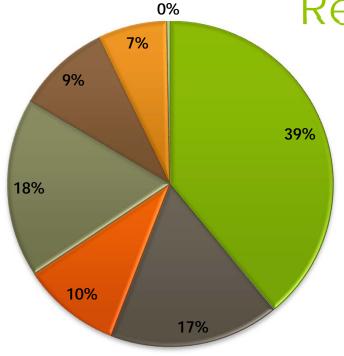
THREE RIVERS RESOURCE CONSERVATION & DEVELOPMENT COUNCIL'S SRI Manual for Stream Crossing Assessment



ALABAMA RIVER AND STREAMS NETWORK

- Evaluate the integrity of crossing structure
- Evaluate road condition
- Evaluate stream and flow condition
- Assess bank stability
- Identify fish barriers
- Identify other ecosystem hazards

Sediment Risk Index Internship



SRI Total Evaluations

- Full Evaluations
 Ephemeral Stream
 No Access
 Other
- Does Not Exist
- Private Property
- Safety

• Total Sites = 2023

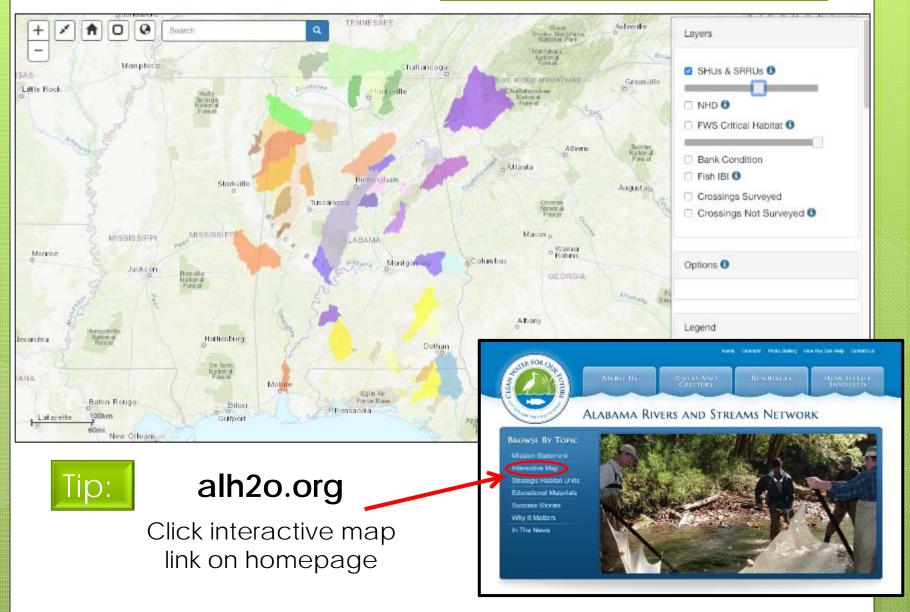
- Full Evaluations = 804
- Partial Evaluations = 910

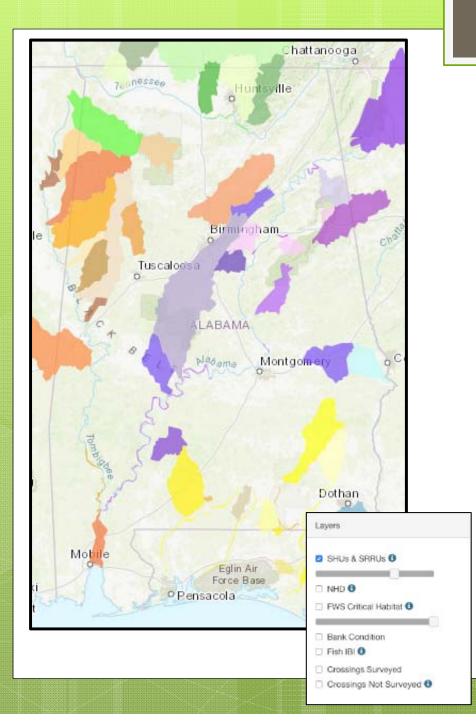
• Reasons:

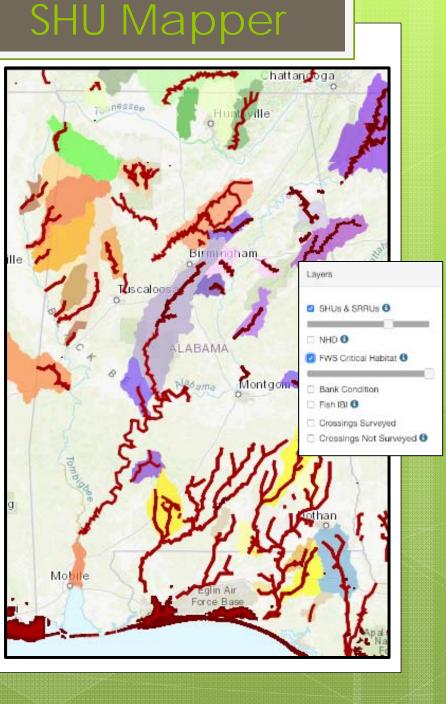
- Does Not Exist = 348
- Ephemeral Stream = 202
- Private Property = 368
- No Access = 192
- Safety = 142
- Other = 6

SHU Mapper

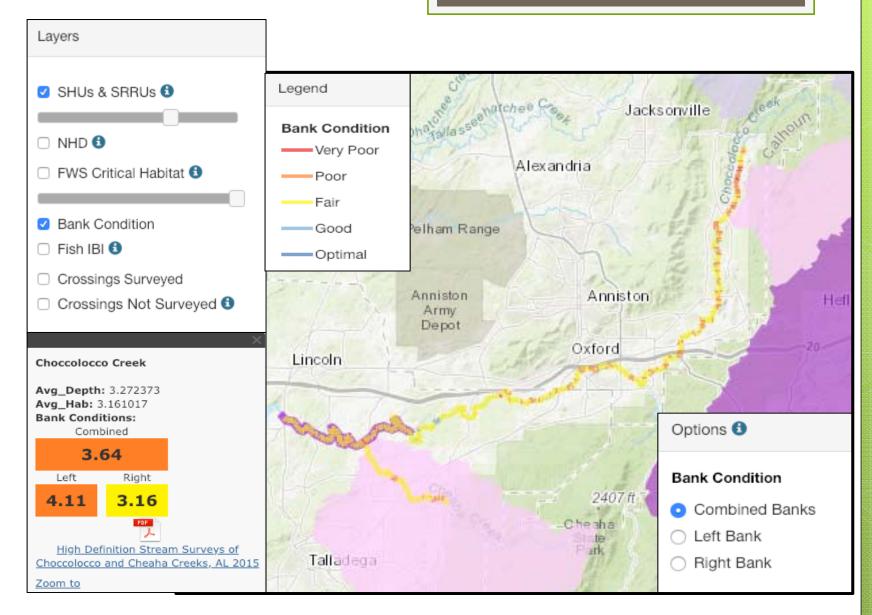
https://warcapps.usgs.gov/SHU/Map

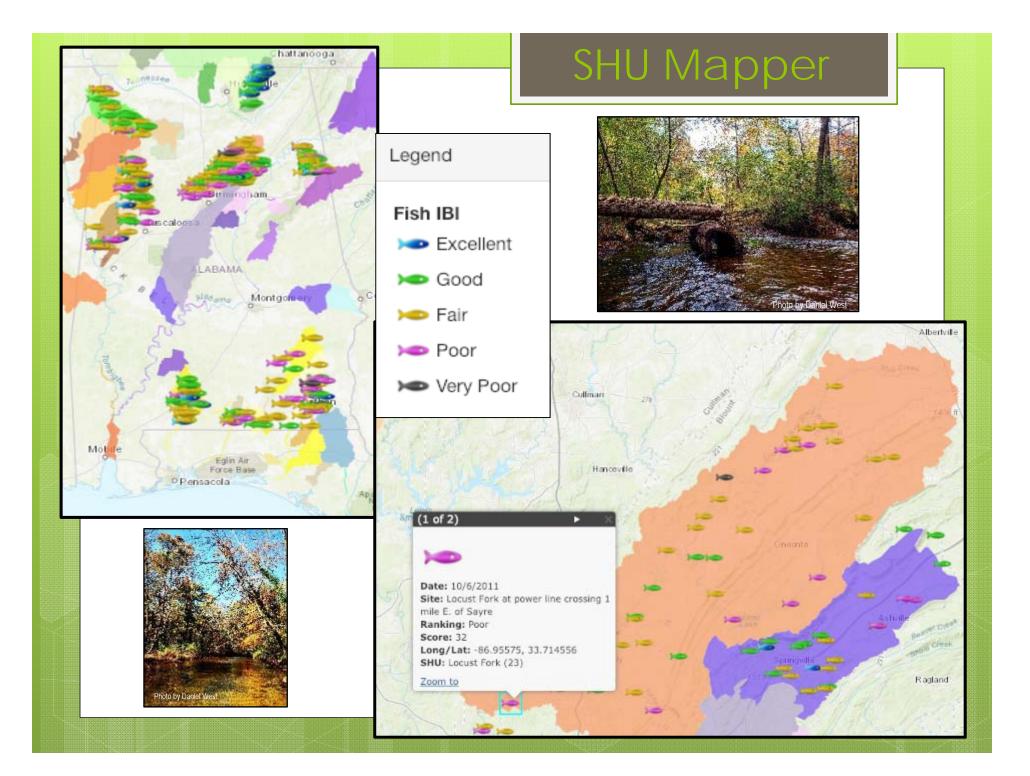


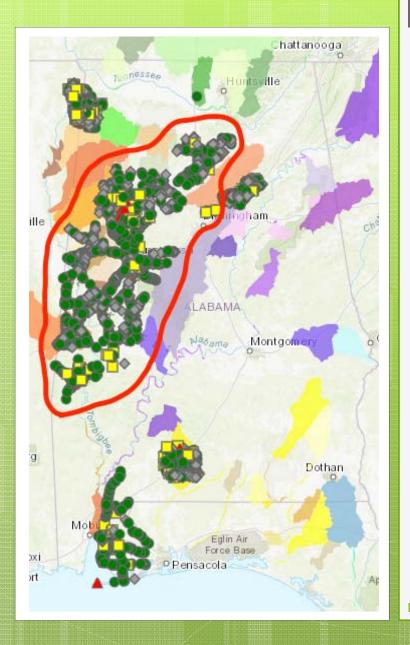




SHU Mapper



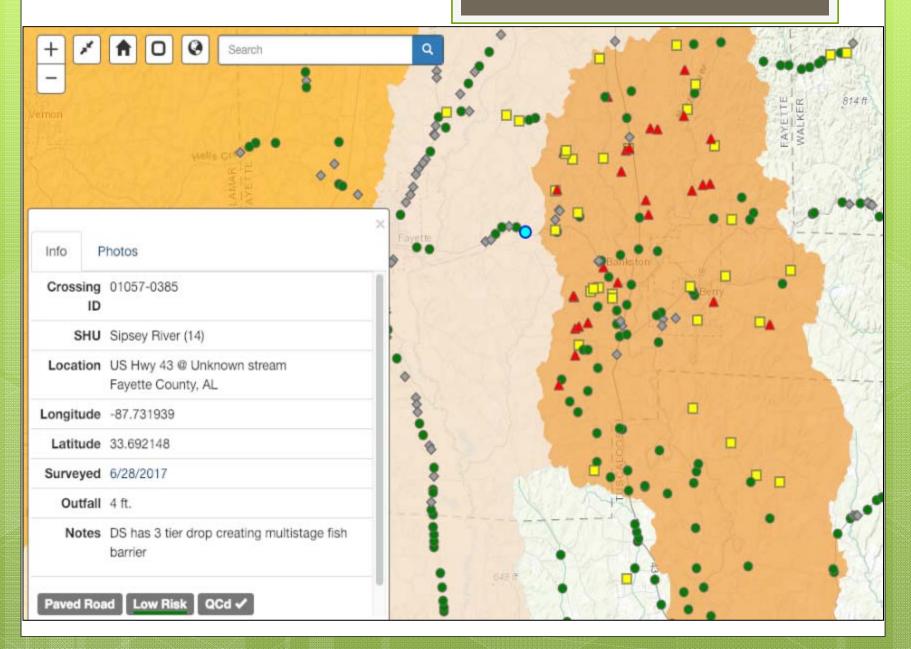




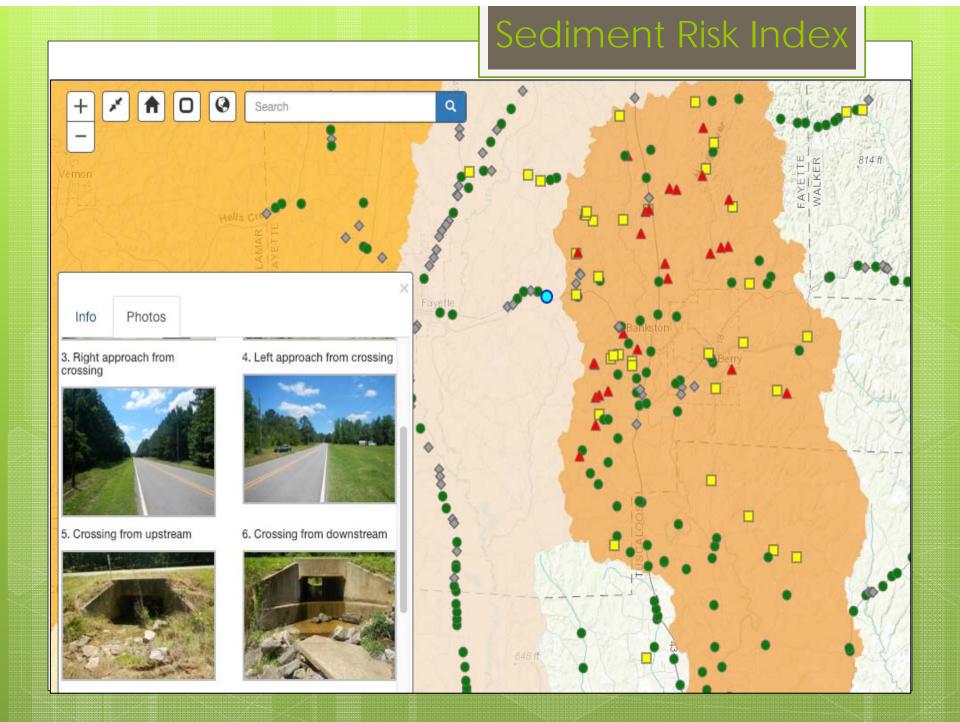
Surveys Completed to Date

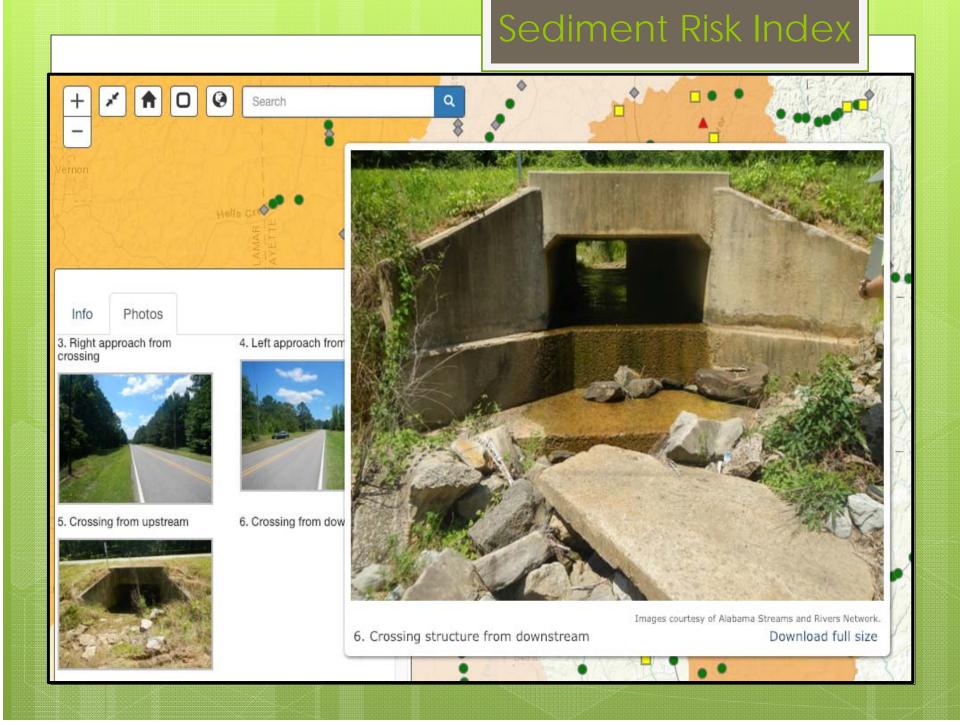
- =
 - = Low Sediment Risk (Good)
 - = Moderate Sediment Risk (Okay)
 - = High Sediment Risk (Bad)
 - Partial Evaluation
 (Needs Re-evaluating)

*Available for Public Viewing as of Nov. 30th, 2018

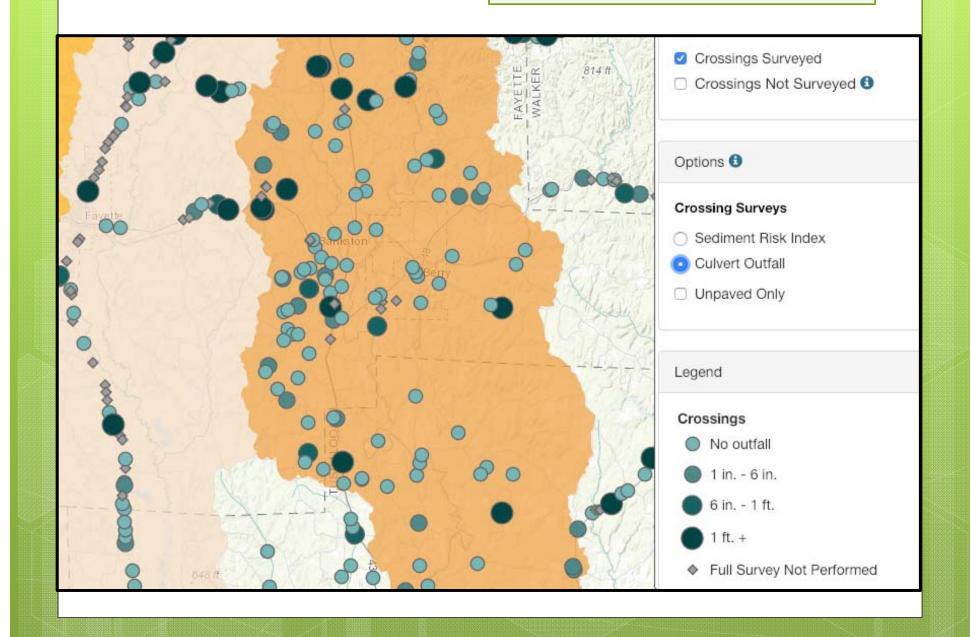


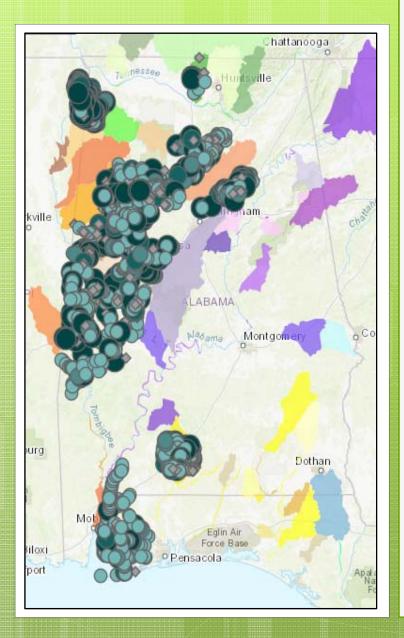
+ 1	TOSearch	Q SHU Name: Sipsey River SHU #: 14 Visible Threats
		Crossing ID: 01057-0385 BIN: Uvestock access
-	and set is a set of the second set of the second	Read: US Hwy 43 Stream: Finding banks
		Date: 6/28/2017 Time: Start 1427 End 1436 Rish barriers
Sec. Sec.		Surveyor(s): D.West N.Forland Lowland Read material in stream
mon		State: AL County: Fayette Owner of GPS: M.Forland ATV Access
		Latitude (DD): 33.692148 Camera: M.Forland No riparian cover
	장애에 가지 않는 것이 같이 많은 것이 잘 많이 많이 많이 많다.	Longtude (DD): +87.731939 Netetaker: D.West Others:
		Road Type: Pawed Public Qualitative Sed Risk Level: Low Full Survey Performed? Yes Restoration Project Possibility: Maybe
	Helin Cr	Full Survey Performed? Yes Restoration Project Possibility: Maybe Other Comments:
		Stream Crossing Assessment
	Sitt 🔹 🖌	WATERWAY Source
		AB,CE,Wetland S
1-1-2-2	214	2. Downstream channel morphology D,F,G,Ponded 1
		3. Downstream channel/bank alteration Minor or Partial 3
	×	CROSSING STRUCTURE Crossing type: Culvert Number of culverts: 1 Bat Signs Present:
		Faystie Cuivert type: Trough box Other:
Info P	hotos	Structure Naterials: Reinforced Other:
1110	10103	Dimensions Length/Span (ft): 6.00 Diameter/Width (ft): 45.00 Culvert outfall drop (ft): 4.00
		4. Upstream colvert skew angle (worst) < 5° 5
Crossing	01057-0385	S. Crossing fill condition (dominant) Good-Vegetated S
orossing	01037-0303	5. Crossing inlet/eutlet condition Scouring 3
ID		Comments:
		ROAD APPROACHES I Right = right road approach when facing downstream
	Discourse Discourse (1.4)	Dimensions (right) Langth (mi): Width (h): Road prism (ill (in): Slope (N):
SHU	Sipsey River (14)	Potential emded volume (right): Length x Width x Road prism fill x 16.3 =
		Dimensions (left) Langth (mi): Width (it): Read prism (iii (in): Stope (%):
Location	US Hwy 43 @ Unknown stream	Patiential enoded volume (left): Length x Width x Road prism fill x 16.3 =
		2. Potential ended volume (mean)
	Fayette County, AL	B. Sal type: K-factor:
		9. Road approach slope (mean %)
opaitudo	-87.731939	10. Road approach surface material
Longitude	-01.131939	ROAD APPROACHES II Kight = right read approach when facing downstream
		DOWNSTREAM
Latitude	33.692148	Left outliet Vegetated 1 Left ditch Vegetated 1
		Right cutlet Vegetated 1 Right ditch Vegetated 1 UPSTREAM
· · · · · /	6/00/0017	UPSTREAM Left outlet Vegetated 1 Left dlich Vegetated 1
Surveyed	0/20/2017	Right cutlet Vegetated 1 Right ditch Vegetated 1
100		Kight climet Vegetatea 1 Kight climet Vegetatea 1 11. Outlet Total 5 12. Ditch Tatal 5
		SEDIMENTATION RISK INDEX (SRI) TOTAL SRI SCORE
Outfall	4 ft	Nerrative Risk Rank Low risk Moderate risk High risk Low
Outfall	4 ft.	and the second s
		SRI Score 46 - 60 37 - 45 12 - 36 52
	4 ft. DS has 3 tier drop creating multistage fish	SRI Score 46 - 60 37 - 45 12 - 36 52 NOTES DS has 3 tier drop creating multistage fish barrier
	DS has 3 tier drop creating multistage fish	
	DS has 3 tier drop creating multistage fish	
	DS has 3 tier drop creating multistage fish	
Notes	DS has 3 tier drop creating multistage fish barrier	
Notes	DS has 3 tier drop creating multistage fish	



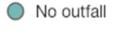




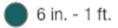




Crossings



🔵 1 in. - 6 in.



- 🔵 1 ft. +
- Full Survey Not Performed



*Available for Public Viewing as of Nov. 30th, 2018

Sediment Risk Index Internship

Strategic Habitat Unit Evaluations = 969

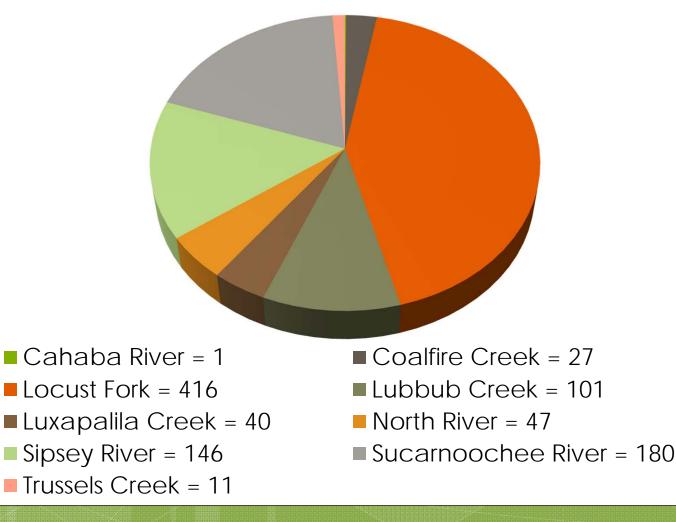




Photo by Mark Bailey, Conservation Southeast

The Black Warrior waterdog (*Necturus alabamensis*), a candidate species for listing under the Endangered Species Act, is endemic to the Black Warrior basin above the Fall Line.



Photo by Nelson Brooke, Black Warrior Riverkeeper

The Flattened Musk Turtle (*Sternotherus depressus*), a federally threatened species, is endemic to the Black Warrior basin above the Fall Line.



Photo by Mark Bailey, Conservation Southeast

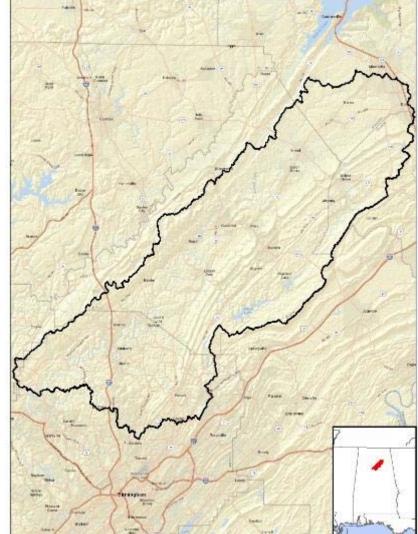
The watercress darter (*Etheostoma nuchale*), another federally endangered species, lives in five springs in Jefferson County, Alabama, and nowhere else in the world.

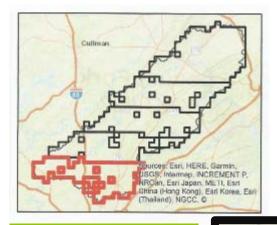
The vermilion darter (*Etheostoma chermock*), a federally endangered species, lives in Turkey Creek in Jefferson County, Alabama, and nowhere else in the world.



Photo by Nelson Brooke, Black Warrior Riverkeeper







Locust Fork SHU

Locust Fork

Strategic Habitat Unit #23 Map Section 1 Map Book Grids 1 - 100

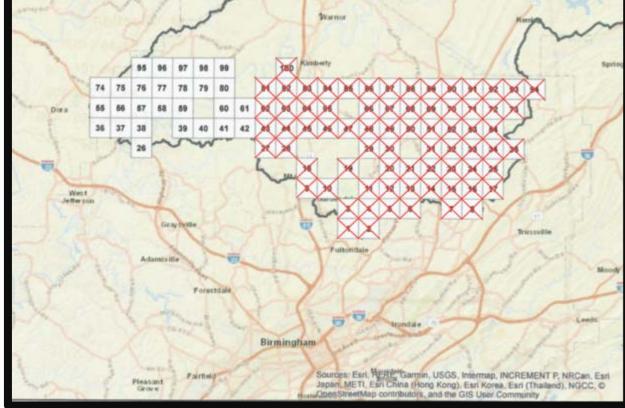
Total Crossings: 547

Total Surveyed: 413

Total Grids: 100

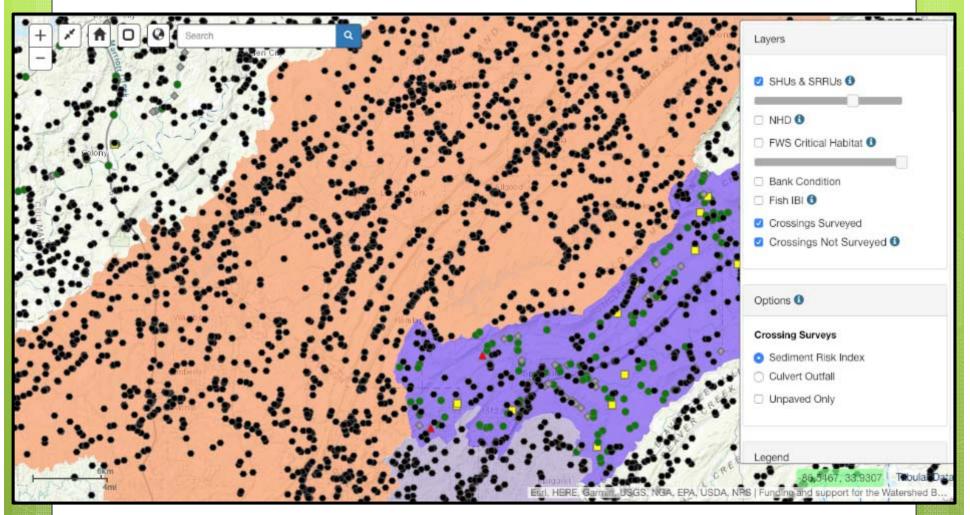
Total Surveyed: 73

*total surveyed as of Nov. 30^{th} , 2018

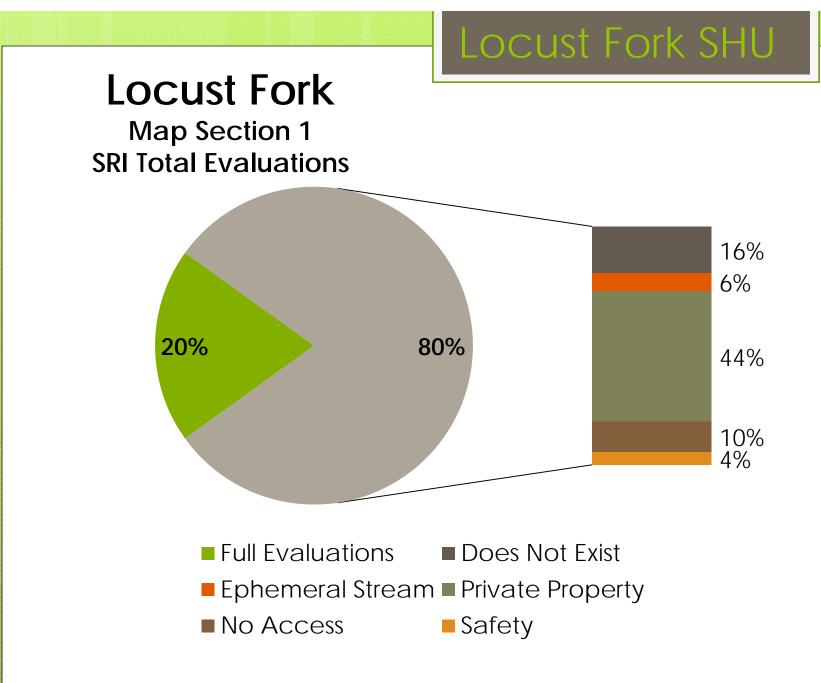


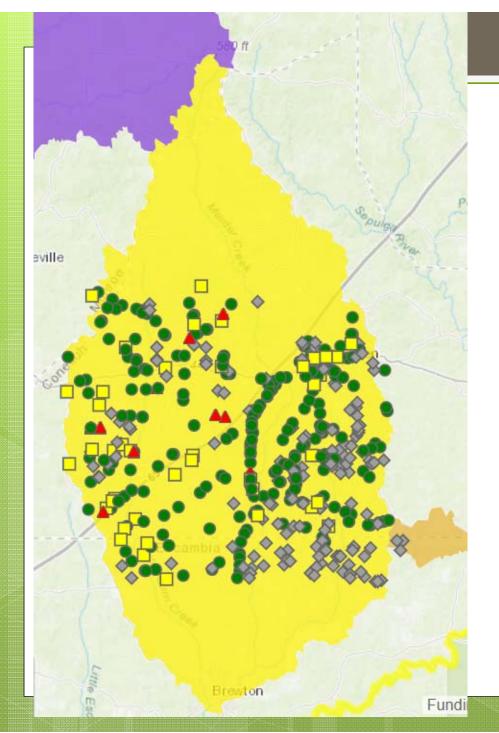
Locust Fork SHU

Oh the places we shall go...



Crossings listed





Murder Creek

Nurder Creek Crossing Assessment

	Murder Creek Crossing Assessment										
	Crossing ID	County	Crossing Type	Public Road	Threat/Impairment Type						
n					Livestock Access	Eroding Stream Banks	Barrier to Fish Movement	Road Material in Stream	ATV Access	Lack Ripariar	
	01035-0619	Conecuh	Culvert	Yes	No	No	No	Yes	No	No	D
	01035-0629	Conecuh	Culvert	No	No	Yes	No	Yes	No	No	D
	01035-0648	Conecuh	Bridge	Yes	No	Yes	No	Yes	No	No	C
	01035-0649	Conecuh	Culvert	Yes	No	Yes	No	Yes	No	No	C
	01035-0954	Conecuh	Bridge	Yes	No	Yes	No	Yes	No	No	D
	01035-0061	Conecuh	Culvert	Yes	No	No	No	Yes	No	No	C
	01035-0660	Conecuh	Culvert	Yes	No	No	Yes	Yes	No	No	D
	01035-1087	Conecuh	Culvert	Yes	No	Yes	No	No	No	No	D
	01035-0211	Conecuh	Culvert	Yes	Yes	No	No	No	No	Ye	S
	01035-1063	Conecuh	Bridge	Yes	No	No	No	No	No	No	C
	01035-0631	Conecuh	Bridge	Yes	No	No	No	Yes	No	No	D
	01035-0943	Conecuh	Culvert	Yes	No	No	No	Yes	No	No	C
	01035-0759	Conecuh	Culvert	Yes	No	No	Yes	Yes	No	No	DC
	01053-0500	Escambia	Bridge	Yes	No	No	No	Yes	No	No	0
	01035-1088	Conecuh	Culvert	Yes	No	No	Yes	No	No	No	2
	01035-0416	Conecuh	Bridge	Yes	No	Yes	No	No	No	No	2
	01035-0303	Conecuh	Culvert	Yes	No	Yes	No	Yes	No	No	5





Alabama Stream Impairment Report Form

Help us identify problem areas that impact Alabama's water quality.

our Info*		
irst	Last	
none*	Email*	
	Depit worray we went share you	

Don't worry- we won't spam you

pecial Statement

his form exists only to assist with our efforts to improve, through cooperative action, Alabama water quality and to imrove wildlife habitat. *In no instance will information provided through the Stream Impairment Form be used to assist ny party in litigation against any other party.* Please do not trespass on private property. Cawaco RC&D reserves the row share information with project partners, and by filling out this form you consent to allowing access to this infor-



THANK YOU

