

# No Business Creek Watershed Project

Clean Water Act Section 319(h) Nonpoint Source  
Implementation Grant – FY2011

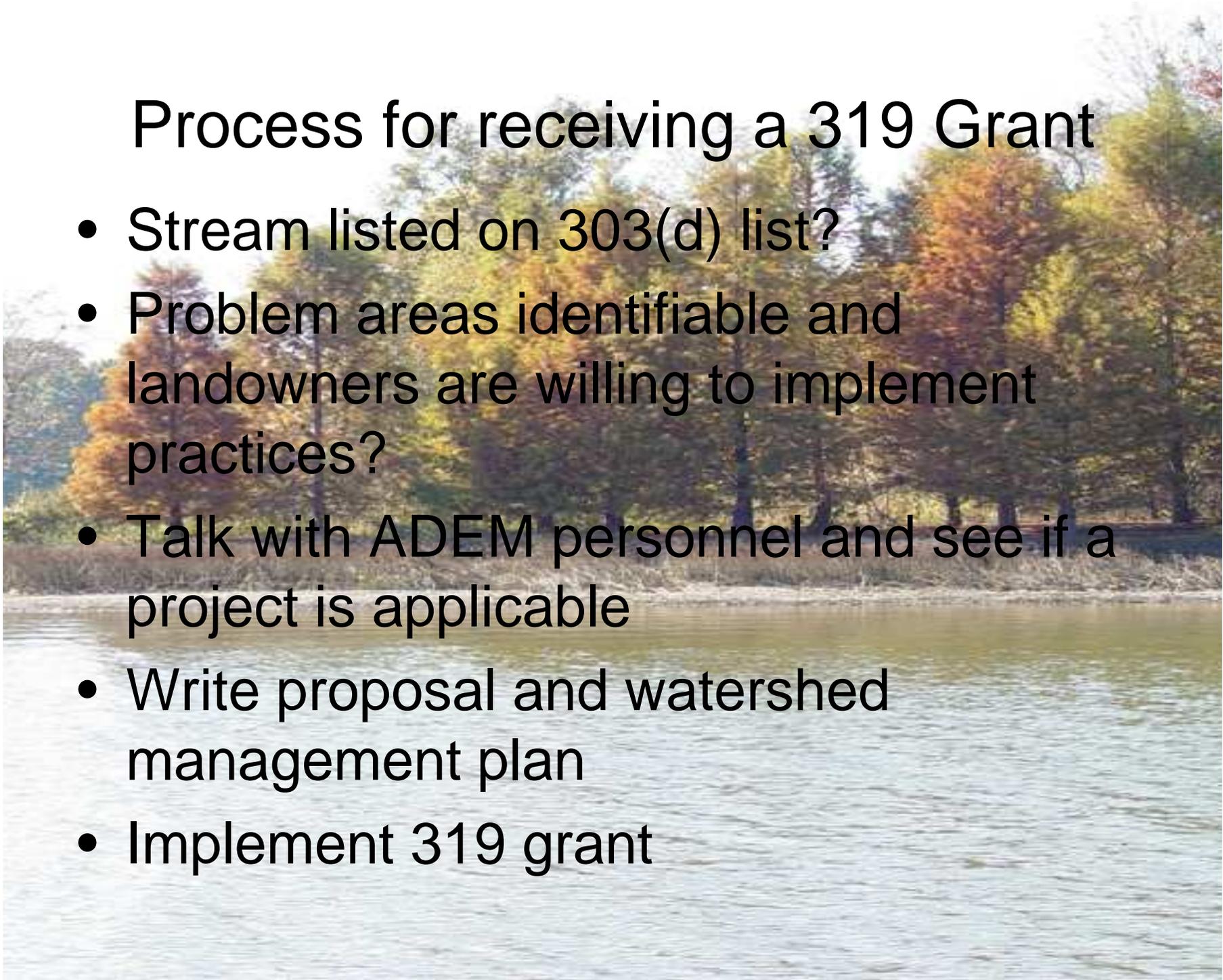
Alabama Nonpoint Source Management Program

Performed by the Flint Creek Watershed Conservancy  
District

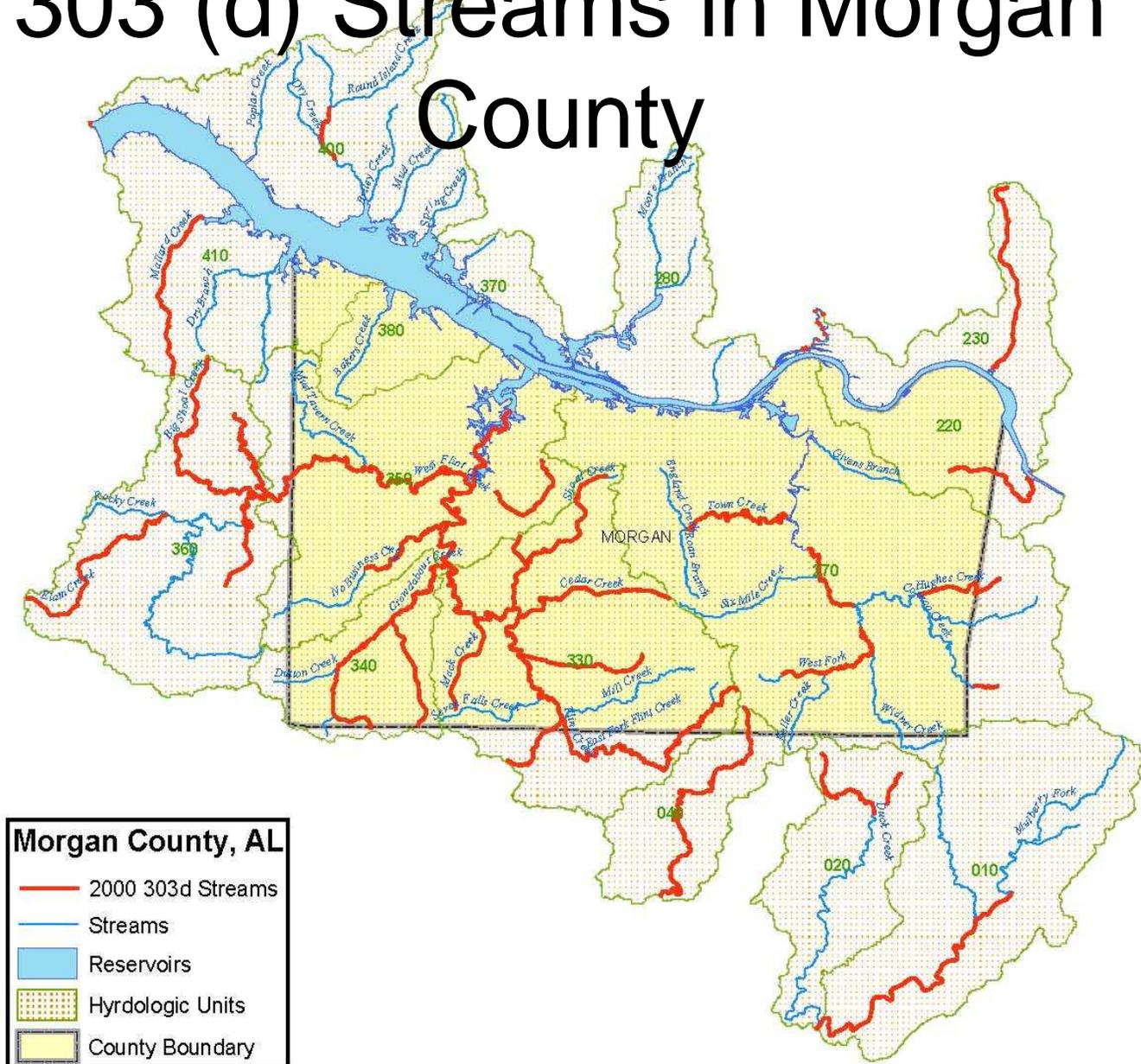
Contract Period - January 2012 to December 2014

## Process for receiving a 319 Grant

- Stream listed on 303(d) list?
- Problem areas identifiable and landowners are willing to implement practices?
- Talk with ADEM personnel and see if a project is applicable
- Write proposal and watershed management plan
- Implement 319 grant



# 303 (d) Streams in Morgan County



|   |  |
|---|--|
| Clean Vessel                                  | <h2 style="color: green;">Nonpoint Source Program</h2> <p>The Nonpoint Source Program uses a voluntary approach to address nonpoint source pollution in Alabama. The program relies on best management practices, education and outreach, technology transfer, monitoring assessments, and resource assistance using a balanced statewide and watershed focused restoration approach. Local partnerships and citizen input are primary implementation components.</p> <p><a href="#">Alabama NPS Management Program</a><br/> <a href="#">Groundwater Festivals</a><br/> <a href="#">319 Grant Guidance</a><br/> <a href="#">NPS Publications</a><br/> <a href="#">Resource Materials</a></p> <p><a href="#">Take Action for Clean Water</a></p> <p><b>Annual Reports</b><br/> <a href="#">2008</a><br/> <a href="#">2009</a><br/> <a href="#">2010</a><br/> <a href="#">2011</a><br/> <a href="#">2012</a></p> <p><b>Federal Links</b><br/> <a href="#">EPA Region 4 NPS Program</a><br/> <a href="#">Natural Resource Conservation Service</a></p> <p><b>State Links</b><br/> <a href="#">AL Department of Public Health</a><br/> <a href="#">AL Soil and Water Conservation Committee</a><br/> <a href="#">AL Department of Conservation and Natural Resources</a><br/> <a href="#">AL Forestry Commission</a><br/> <a href="#">AL Department of Industrial Relations - Surface Mining Commission</a><br/> <a href="#">AL Department of Agriculture and Industries</a><br/> <a href="#">AL Department of Economic and Community Affairs - Office of Water Resources</a><br/> <a href="#">Geological Survey of Alabama</a><br/> <a href="#">U. S. Geological Survey</a></p> <p><b>Other Links</b><br/> <a href="#">Alabama Cooperative Extension System</a></p> |
| Construction Stormwater                       |  |
| Drinking Water                                |  |
| Forestry BMP Program                          |  |
| Groundwater                                   |  |
| Guidance                                      |  |
| Industrial                                    |  |
| Mining  |  |
| Municipal                                     |  |
| <b>NPS Program</b>                            |  |
| Operator Certification                        |  |
| Permitting                                    |  |
| Pesticides                                    |  |
| State Revolving Fund (SRF)                    |  |
| State Revolving Fund (SRF) Applicant Guidance |  |
| Water Forms                                   |  |
| Water Quality                                 |  |

your email address  
up for ADEM  
notifications!

Submit

the ADEM Website:

Search

The following resources were funded or partially funded using Clean Water Act Section 319 grant funds.

- [Alabama's Best Management Practices for Forestry](#)
- [Guide for Producing Nursery Crops](#)
- [Protecting Water Quality on Alabama's Farms](#)
- [Recommended Practices Manual - Unpaved Roads](#)
- [Nutrient Management Planning with Animal Feeding Operations](#)

### Education and Outreach

- [Nonpoint Source Education for Municipal Officials \(NEMO\)](#)
- ["How to" Guide for Stormwater and Urban Watershed Management](#)
- [Prevention and Reduction of Polluted Runoff in Alabama](#)
- [Citizens Working Together to Protect and Restore Water Quality](#)
- [Storm Drain Stenciling](#)
- [Stormwater Management and Your Community](#)
- [Stream Walk](#)

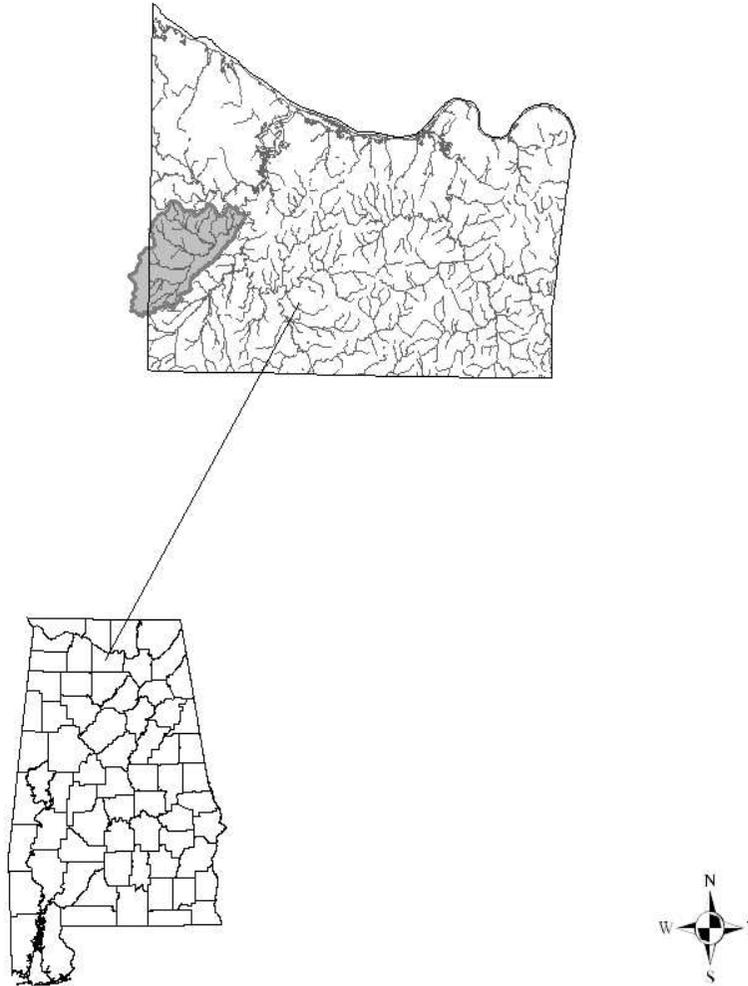
### Watershed Planning and Protection

- [Watershed Restoration Action Strategy Guidance Supplement: Useful Things to Know](#)
- [Section 303\(d\) List of Impaired Waters](#)
- [Section 305\(b\) Water Quality Report\(s\) to Congress](#)
- [Water Quality Criteria - Regulations \(Chapter 10, Division 6, Volume I\)](#)
- [Water Use Classifications - Regulations \(Chapter 11, Division 6, Volume I\)](#)
- [Maps of Alabama's Surface Water Classifications](#)

### Watershed Management Plans

- [Alabama](#)
- [Black Warrior](#)
- [Cahaba](#)
- [Chattahoochee - Chipola](#)
- [Choctawhatchee - Pea - Yellow](#)
- [Coastal](#)
- [Conecuh - Sepulga](#)
- [Coosa](#)
  - [Lower Coosa](#)
  - [Middle Coosa](#)
  - [Upper Coosa](#)
- [Tallahatchee](#)

# No Business Creek Watershed within Morgan County

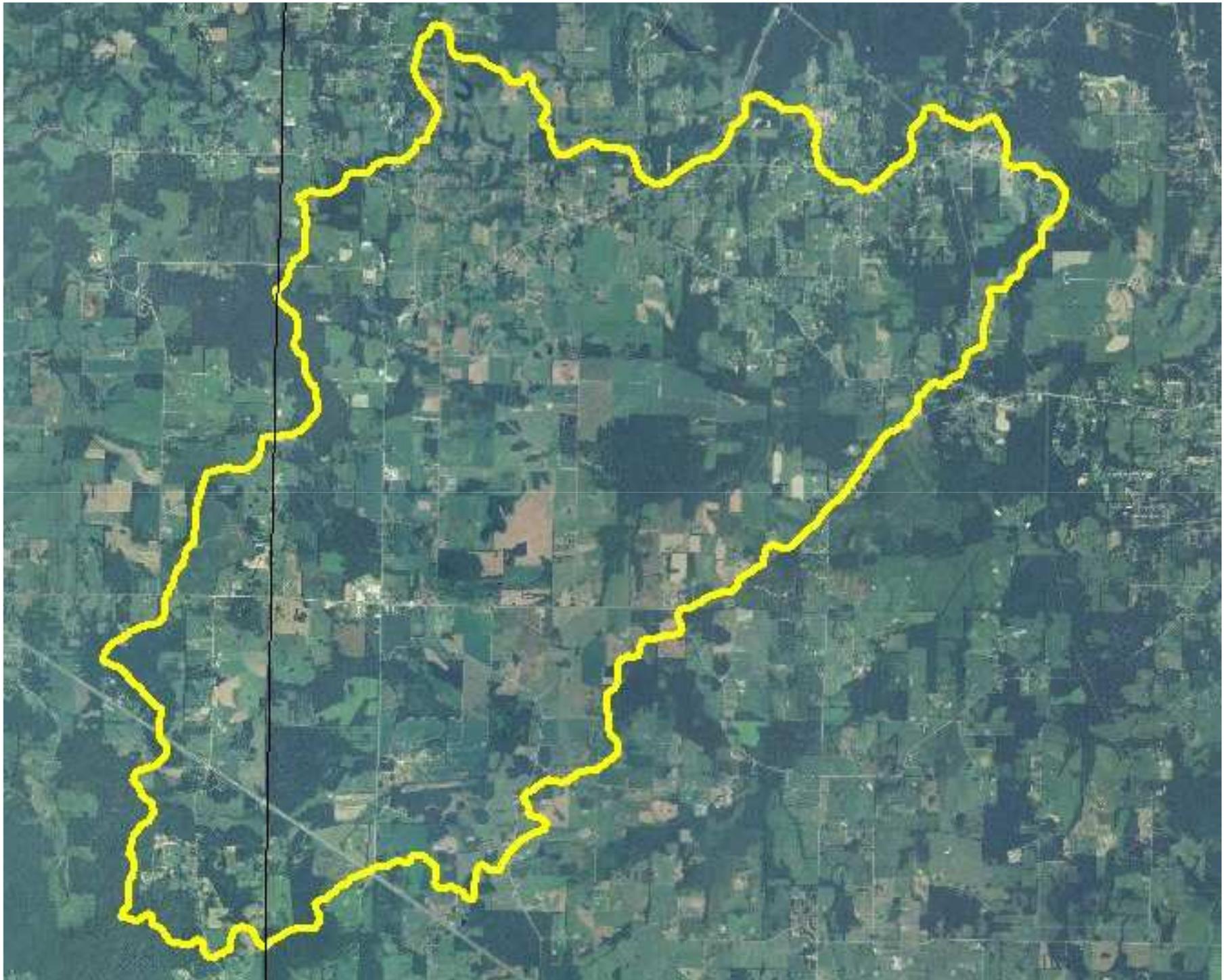




Burchell Tractor

## Description

- 22,724 Acres
- No Business Creek is 11.3 miles long
- 6.3 miles listed on 303(d) list
- Flows into Flint Creek, then into the Tennessee River
- 70% of land use is agriculture
- One point source in watershed – Danville High School



# Why Project Was Needed

- No Business Creek is listed on the 303(d) list for: Pathogens, organic enrichment and dissolved oxygen from non-irrigated crop production and pasture grazing.





# History of No Business Creek

**1950's Channelization Project**



# Goals of the No Business Creek Watershed Project

**Develop and implement a watershed based plan to specifically target nonpoint source pollutants such as nutrient, sediment and pathogen loadings**

**Enhance and protect water quality in the watershed**

**Remove No Business Creek from the Section 303(d) list of impaired waters**

# CAT FOUND!!!



BLACK + TAN WITH GREY

- MALE
- NO COLLAR
- NOT VERY FRIENDLY, I THINK HE MIGHT BE SCARED.
- NOT HOUSE BROKEN EITHER 😞
- FOUND ON SUNSET BLVD
- IF HE IS YOURS PLEASE CALL

I D E N T I F Y  
P R O B L E M S

# Improper Animal Waste Storage



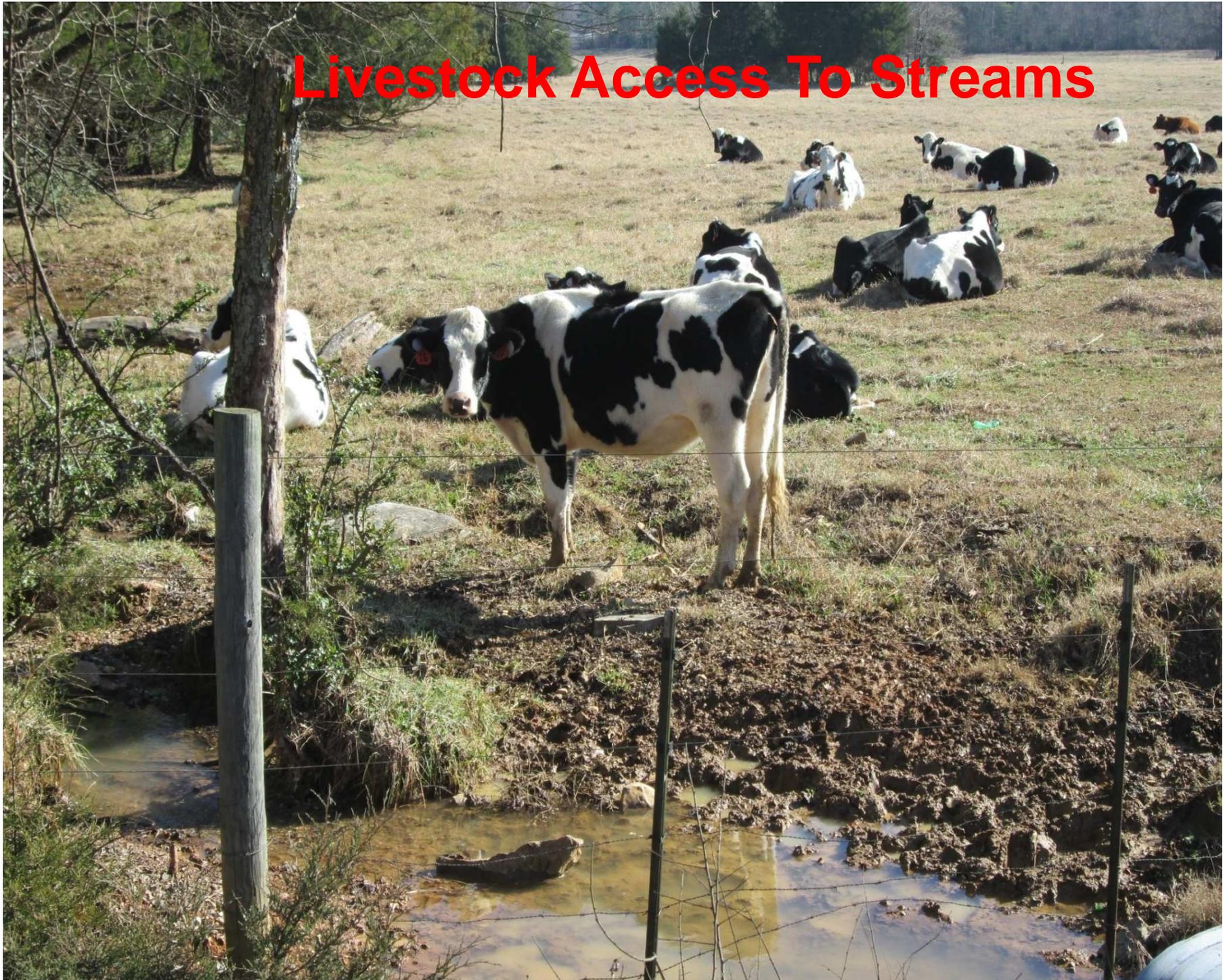
# Tillage and Cover Crops





Limited vegetation along  
stream

# Livestock Access To Streams



LOWER YOUR TAIL  
AND BACK AWAY  
FROM THE STREAM!



# County gets \$241k for creek

Cliff Knight  
Hartselle Enquirer

The Flint Creek Watershed Conservancy has received a \$241,200 grant from the Alabama Department of Environmental Management (ADEM) to improve water quality in No Business Creek, which flows through a portion of Morgan County.

The grant was presented Tuesday morning to officers of the Morgan County Water and Conservation District, Flint Creek Watershed District and other stakeholders at a meeting at the Morgan County Agricultural Service Center. The presentation was made by ADEM Director Lance LeFleur.

The grant will be matched with local money bringing the total to \$402,000. It will be used to help finance best management practices on the part of cooperating landowners whose property lies within the No Business Creek Watershed area,

See Creek, A-7



Enquirer Photo: Cliff Knight

ADEM Director Lance LeFleur, second from left, presents a watershed restoration grant to Morgan County District 1 Commissioner Jeff Clark, Brad Bole, Morgan County District 3 Commissioner Don Stisher and State Sen. Arthur Orr, from left.

## CREEK

CONTINUED FROM PAGE A-1

the objective being to reduce pollutant loadings and restore the creek to a more natural ecological condition.

Brad Bole, director of the Flint Creek Watershed Conservancy District, will oversee the project. He said practices qualifying for cost-share assistance over a three-year period would include fencing, pasture improvements in heavy use areas and stream bank forestation.

No Business Creek Watershed is located primarily in southwest Morgan County where agriculture and forestland practices dominate. The stream is 6.3 miles in length and is on ADEM's list of impaired waters as not supporting state water quality standards. A watershed management plan was developed a year ago.

Bole said implementation of the project would be a

voluntary effort.

"We'll explain the project to land owners and it will be up to them to decide if they want to participate as a cost-share cooperator, he said. "In the past, we've had good participation from landowners and that is the main reason why we've been successful in promoting conservation measures."

"This grant is a testimony to the leadership we have in Morgan County," said State

Sen. Arthur Orr, R-Decatur.

Other stakeholders in the project are: Morgan County Natural Resources Conservation Service, Morgan County Soil and Water Conservation District, Morgan County Department of Health, Morgan County Cooperative Extension System, Tennessee Valley Clean Water Partnership and Morgan County Commission.

CONTINUED FROM PAGE A-5

Work  
Individually  
With  
Landowners





Identify partners you can  
have success with



**What type practices are being implemented to improve and protect water quality?**

**AGRICULTURE**

**Riparian Forest Buffers, Pasture Planting, Cross Fencing and Fencing of Streams, Stream Crossings**

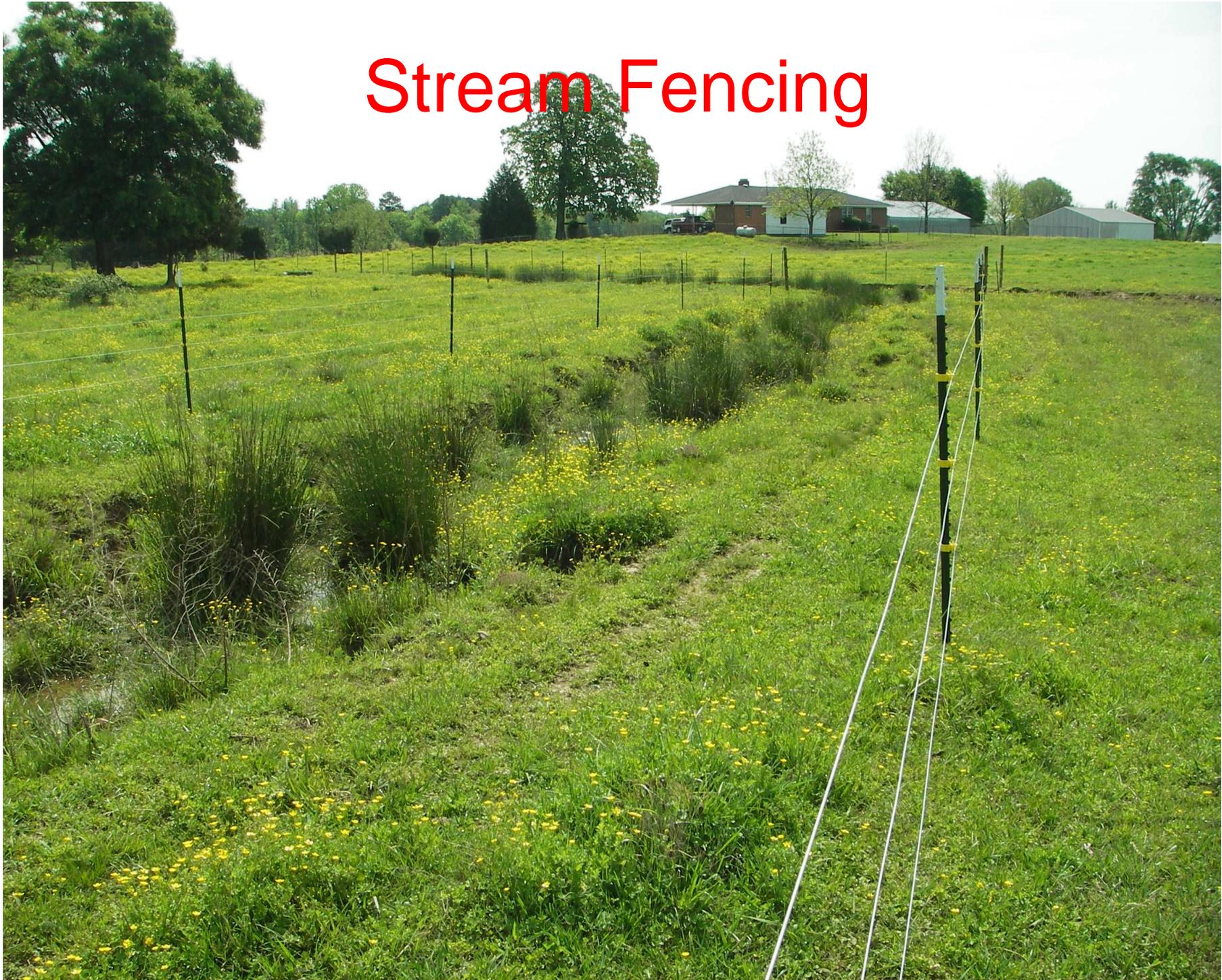
**Residents**

**Work with residents on issues regarding erosion, septic tanks, fertilizer, chemicals, etc.**

# Cross Fencing



# Stream Fencing



# Wetland Fencing





Stream Crossing

# Pasture Planting



Before



After

# Pasture Planting



Before



After

# Pasture Planting



Before



After

# Heavy Use Area – Gate Crossing



Before



After

# Road Crossing - Erosion



Before



After

# Tree Planting Riparian Forest Buffer



# Cover Crop



# Cover Crop



# Watering Facility





Has Water Quality  
Improved?

How To Remove From  
303(d) List?

# Water Quality Data – ADEM NOBM-345

Upper Wheeler Lake

| Visit Date | DO – mg/l | E Coli |
|------------|-----------|--------|
| 11-13-2012 | 15.39     | 285.1  |
| 10-9-2012  | 15.28     | 65.7   |
| 9-25-2012  | 18.74     | 113.7  |
| 8-14-2012  | 9.63      | 2419.6 |
| 7-18-2012  | 12.93     | 579.4  |
| 5-1-2012   | 14.75     | 547.5  |
| 4-10-2012  | 14.97     | 198.9  |

Wheeler Lake

ek

# Pollution Reduction Estimates

| Nitrogen<br>lbs/yr | Phosphorus<br>lbs/yr | BOD<br>lbs/yr | Sediment<br>tons/yr |
|--------------------|----------------------|---------------|---------------------|
| 44,869             | 6,680                | 20,170        | 1,960               |

Load reduction estimates calculated by Spreadsheet Tool for  
the Estimation of Pollutant Load (STEPL)



## Funding

FY 2011 Clean Water Act 319 Grant  
\$241,200 Federal - \$161,633 Matching

A photograph of two young children, a girl on the left and a boy on the right, standing with their backs to the camera and holding hands. They are looking out over a vast, hazy landscape. The girl is wearing a light-colored patterned shirt and shorts, and the boy is wearing a plaid shirt and shorts. The background is a soft, out-of-focus expanse of land and sky.

# Partners

Alabama Department of Environmental  
Management

Flint Creek Watershed Conservancy District

Natural Resource Conservation Service

Morgan County Soil and Water Conservation  
District

Tennessee Valley Authority

Farm Service Agency

Alabama Cooperative Extension System

Morgan County Commission

Environmental Protection Agency

Alabama Mountains, Rivers and Valleys RC&D

Tennessee Valley Basin Clean Water Partnership

Alabama Soil and Water Conservation Committee

An aerial photograph of a rural landscape. A paved road runs diagonally from the top left towards the bottom right. To the right of the road, there is a large, light-colored rectangular building with a flat roof, possibly a warehouse or industrial facility. The surrounding area is mostly green, indicating fields or pastures, with some scattered trees and patches of brown earth. The text 'Producers' is overlaid in yellow at the top center.

# Producers

Ashley Alexander

McCord Compton

Frank Ellis

Gilmer Ellis

Fred Evans

Carlos Haraway

George Lawton

Mike McKelvey

A photograph of two water buffaloes in a green field. The buffalo in the foreground is facing the camera, while the one behind it is slightly to the right. The text 'The End' and 'Questions?' is overlaid in red on the image.

# The End

# Questions?

Brad Bole – Project Coordinator  
Flint Creek Watershed Project  
3120 Hwy 36 West  
Hartselle, Alabama 35640  
256-773-6543 Ext. 107  
256-345-3363 cp