



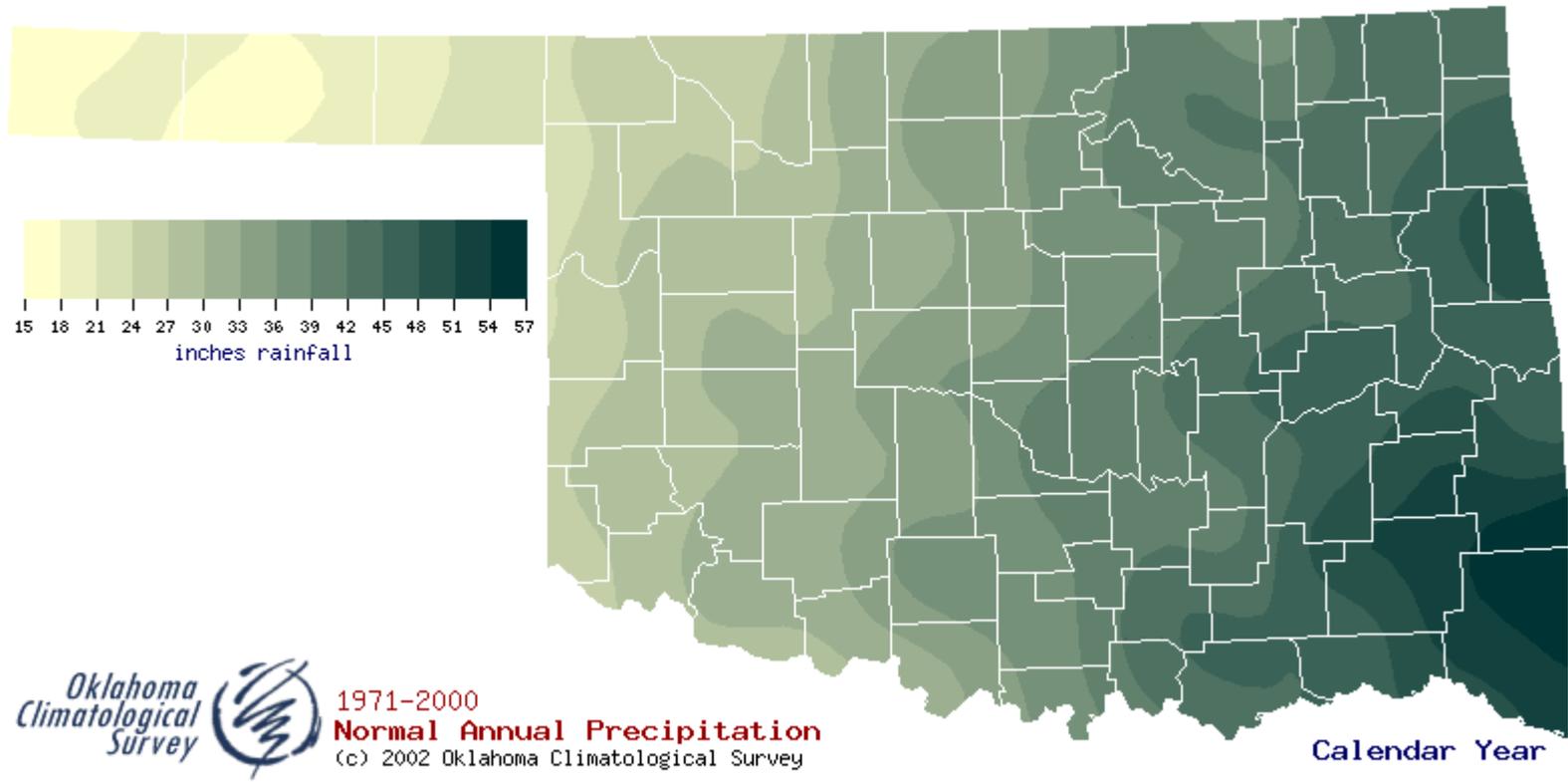
SPAVINAW CREEK 319 PROJECT DEMONSTRATION FARM

Jamie Mundy

Producer Education Coordinator

OSU Delaware County

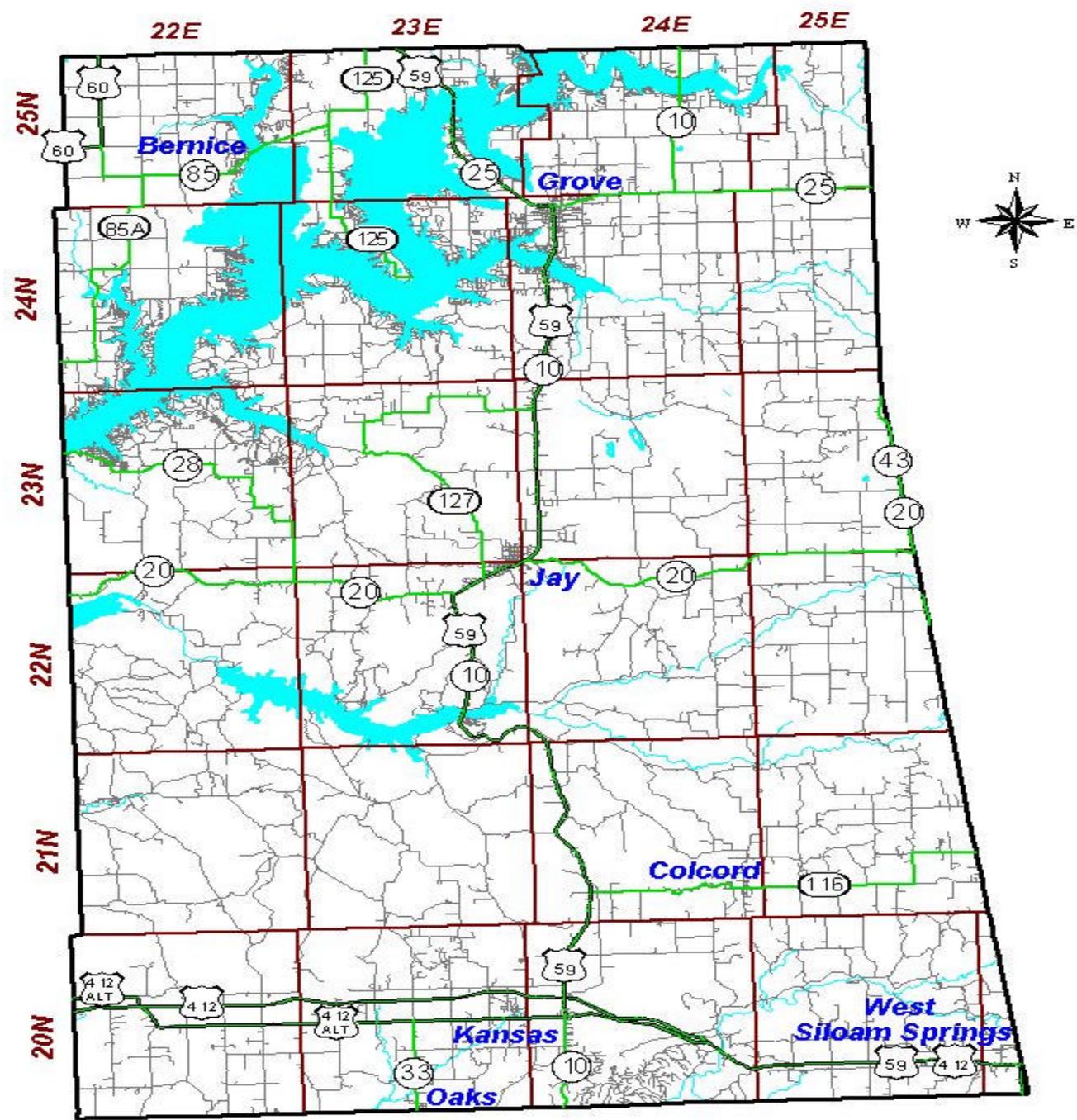
- Climatic Variation of Oklahoma



OKLAHOMA FACTS

- Oklahoma has more man made lakes than any other state with over 1 million surface acres of water.
- Oklahoma has 2000 more miles of shoreline than the Atlantic & Gulf Coasts combined.

Delaware County



DELAWARE COUNTY FACTS

- Delaware County is composed of 741 square miles with 52 square miles of which is water (6.52%).
- The most current census (2000) has the population of Delaware County at 37, 077 people.
- Delaware County revenues: 1) poultry; 2) beef cattle; 3) dairy cattle.
- Largest employer in the county is the poultry processing plant in Jay.

EARLY PICTURES OF THE FARM

- Riparian area
- Wooded area/ wildlife habitat
- Poor soils and rough terrain
- In need of improvements



Brush Creek



Natural Spring



Wooded Area

Riparian Area
Full Exclusion



A landscape photograph showing a pasture with tall, dry grasses in the foreground and middle ground. Several large, mature trees with green foliage are scattered across the scene, casting shadows on the ground. The background shows a line of trees and a slight rise in the land. The overall scene is a natural, rural setting.

Hillside Pasture



Early on

IMPROVEMENTS

- Entrance sign and kiosk
- Prescribed burn
- Midland 99 Bermuda grass established
- Feeding facility
- Riparian exclusion
- Alternative water sources
- Cross-fencing/rotational grazing

• Spavinaw Creek Watershed
Demonstration Farm •

"Best Management Practices At Work"

Cody Bill Smith, Farm Owner

Participating Agencies:

Delaware County Conservation District Oklahoma Conservation Commission
Delaware County Conservation Extension NR Conservation Extension Service

For a site tour, contact:

• Joe Schneider (918)253-8550 or Jamie Mundy (918)253-4332 •

Farm entrance



Sign by highway

WATER QUALITY BMP DEMONSTRATION

Presented by the Spavinaw Creek Watershed Implementation Project Partners* and



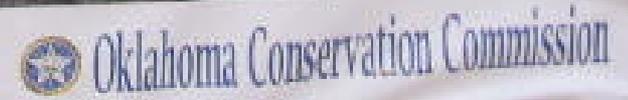
This 196-acre farm is demonstrating Best Management Practices (BMPs) for water quality protection. These practices are designed to reduce agricultural runoff and protect water quality. The BMPs include:

- Livestock Feeding
- Riparian Protection
- Rotational Grazing
- Alternative Waterways
- Nutrient Management
- Woodland Management
- Wildlife Management

The Demonstration Farm is a Nonpoint Source Education Watershed Implementation Project.

For a guided tour of the farm, contact the Education Coordinator Joe Schneider at 580-342-1234.

Map of farm



*Project partners include Delaware County Commissioners, Delaware County Conservation District, Delaware County Cooperative Extension Service, Oklahoma Conservation Commission, OSU Agricultural Experiment Station, OSU Cooperative Extension Service, and OSU Environmental Science Center.



Prescribed burn



Midland 99 Bermuda grass

One month later





Feeding facility

Local producer





Riparian area



Well drilling

Alternative water





Cross fencing

2005 YOUTH CAMP

- OSU stream trailer
- Stream walk with Mitch
- A lot of swimming
- Lunch
- Games & Learning

OSU Stream Trailer



Stream walk



Free time





Lunch time

Games and learning



FORESTRY WORKSHOP

- September 8, 2005
- OSU and ODAF

Stream crossing



At the farm



In the classroom



PRODUCER FIELD DAY

- November 1, 2005
- Arkansas and Oklahoma Speakers
- All outdoor at the farm
- 65 in attendance
- Success measured by using a pre and post test

AGENDA

-
- **Spavinaw Creek Watershed Demonstration Farm Tour**
- **November 1, 2005, 10:00 am – 2:00 pm**
- **Cody Bill Smith Farm**
- **¼ mile east of Jay, OK, on south side of Hwy 20 – look for signs**
- ***Participants will tour several locations on-farm to view demonstrations of soil & water quality Best Management Practices at work.***
- ***PROGRAM***
- ***(Three (3) hours of poultry education credit available.)***
- **10:00-10:30 INTRODUCTION**
 - Welcome: Jamie Mundy, OCES
 - Review of cost share programs: Eric Daniels, NRCS; Joe Schneider, OCC
- **10:30-12:00 SESSION 1: MATCHING FORAGES TO FIELDS**
 - Bermuda grass variety selection and establishment: Robert Seay, Benton Co. AR Ext. Agent
 - Managing pastures for legumes: Bob Woods, OCES
 - Fertilizing, litter vs. commercial: Jamie Mundy, OCES
- **12:00-12:30 LUNCH SERVED ON THE FARM.**
- **12:30-2:00 SESSION 2: PASTURE DESIGN**
 - Riparian area management and alternative water sources: Mitch Fram, OCES
 - “Graze What You Got”: Dr. Ron Morrow, AR NRCS State Grazing Lands Specialist
 - Forage budgets and stocking rates: Jason Hollenback, OCES
 - Supplemental feeding: Jamie Mundy, OCES; Joe Schneider, OCC
- ***For more information, contact:***
- **Jason Hollenback or Jamie Mundy with Delaware Co. Ext. at (918)253-4332, or**
- **Joe Schneider with the Delaware Co. Conservation District, (918) 453-8850.**
- **Oklahoma State University, U.S. Department of Agriculture, State and Local Governments cooperating. Oklahoma Cooperative Extension Service offers its programs to all eligible persons regardless of race, color, national origin, religion, sex, age or disability and is an Equal Opportunity Employer.**

Introductions



The tour



Dr. Ron Morrow



Test plots



Lunch by the creek



DEMONSTRATION, DATA, AND SERVICES

- Three run-off water mini-watersheds
- Poultry litter vs. commercial fertilizer on Bermuda grass test plots
- Full farm plan and record keeping
- Grazing plans for local producers

Run-off water plots



Collection site



First cutting

i
r



Field day



FUTURE PLANS

- Continue annual youth camps, forestry workshops, and semi-annual producer field days
- Establish cost effective stream crossing
- Over-seed hillside pastures with clovers
- Continue current data collection
- Soil sampling variability study
- Rainfall simulator demonstration
- Producer grazing plans