Arkansas’s Nonpoint Source Pollution Program

NATURAL RESOURCES DIVISION

Tate Wentz
Water Quality Section Manager
ANRD-Water Quality Section

• Nonpoint Source Program
• Arkansas Unpaved Roads Program
• Arkansas Nutrient Reduction Strategy
• Wetland and Riparian Zone Tax Credit Program
Pollution Sources and Delegated Authority

Sources of Water Pollution

NPDES
MS4
Nonpoint Source
Water Quality and Agriculture

• From the USDA soil portal, the cost of soil erosion is estimated at $44.39 billion in the United States.
• This value includes lost productivity, along with sedimentation and eutrophication of water reservoirs.
• Lost farm income is estimated at $100 million per year as a result of soil erosion in the U.S.
ANRD-Water Quality Section

Arkansas Nonpoint Source Pollution (NPS) Management

• Annually funded at ~$3 million
• Subaward NPS projects
  • Watershed Management Plans
  • NPS Best Management Practices implementation
  • Bank Stabilization
  • Education & Outreach
  • Low impact development/green infrastructure
• Title 10 Cost Share Program with Conservation Districts
ANRD-Water Quality Section

Arkansas Nonpoint Source Pollution (NPS) Management

FY24 Request for Project Pre-Proposals

July 17-September 15


ANRC.Nonpoint@agriculture.arkansas.gov
Title X Cost Share Program

- Adopted February 16, 1994, by Arkansas State Legislature
- Voluntary program
- Producer/Landowner best management practice (BMP) implementation
- 319 grant facilitated through county conservation districts
- NRCS standards
- Decreasing nonpoint source pollution
- Not competing with NRCS programs

No-Till on Recently Planted Soybean Field
Two budgets in one project

Conservation District
- $75,000 BMP implementation
  - Not total project amount
- 60% Federal : 40% Match
- Match Sources
- Reporting
- Work with landowners

Landowner
- $15,00 per Landowner
  - Max for Federal $
- 40% Landowner : 60% Federal
- NRCS cost list
- Implement approved BMP’s
- Paid after final inspection

Arkansas Association of Conservation Districts Annual Meeting
July 12-13, 2023
BMP Total Allocated Funds by Practice Type (North Central Arkansas)

Legend

- Brush Management (acres)
- Critical Area Planting (acres)
- Fencing (feet)
- Forage & Biomass Planting (acres)
- Heavy Use Area
- Herbaceous Weed Management (acres)
- Nutrient Management (acres)
- Pasture Planting (acres)
- Pest Management (acres)
- Pipeline (feet)
- Pond (cubic yards)
- Prescribed Grazing (acres)

Pumping Plant
- Warm Season Grasses (acres)
- Watering Facility
- Water Well (feet)
- Weed Management (acres)

*Total Allocated for the North Central Area for 2009 - 2020: $1,092,567*
Nutrient Reduction Strategy

- Gulf of Mexico Hypoxia Taskforce
- First update since 2014
- IIJA funding for Gulf Hypoxia Program
- $4,174,999 available for AR
ANRD-Water Quality Section

Wetland and Riparian Zone Tax Credit Program
• Since 1996, nearly 250 applications & ~$5.7 million in tax credits

ATTN: Sue Fillet-Alimi - Arkansas Department of Agriculture - Arkansas Natural Resources Division
10421 West Markham Street, Little Rock, AR 72205 - Phone: (501) 682-1611 Fax: (501) 682-3991

Note: This application is for participation in the tax credit program for the creation and restoration of private wetland and riparian zones, and refers to Subtitle 11 of the rules governing the program. Applicant should check with the U.S. Army Corps of Engineers to find out if a Section 404 permit will be required for the project prior to completing this application. Use additional sheets as necessary.

1. APPLICANT INFORMATION
   Date ____________________
   Name ____________________ Fed E1 No. and/or S.S. No. ____________________
   Address ____________________ City ____________________ Zip Code __________
   State ____________________
   Telephone (Home) ____________________ (Work) ____________________ (Mobile) ____________________
   (FAX) ____________________ Email ____________________

2. OWNERSHIP INFORMATION
   2a. Type of Ownership (Individual, Corporation, Partnership, etc.) ____________________
   2b. Officers/Shareholders/Partners, and Their Percentages of Ownership ____________________
   2c. Address, Phone and Facsimile Numbers of Participating Taxpayers (Attach)
   2d. Contact Person (Name, Address, Phone, FAX) ____________________
   2e. Current and Historical Ownership Information (include whether adjacent land is owned by applicant) ____________________
W&RTC Successes

• Since 1996...
  • Nearly $5.7 million in tax credits approved
  • Over 250 applications
  • Over 30 miles of restoration
  • Last four years,
    • 19 (10 projects; 1,232 ft.)
    • 20 (10 projects; 2,189 ft.)
    • 21 (19 projects; 4,327 ft.)
    • 22 (17 projects; 2,170 ft.)

• Currently at $500,000 cap
• Approve ~$600,000-$900,000 annually
• Current claims ~$250,000, annually
Common NRCS Practices

- Cover Crop (340)
- Cross Fencing (382)
- Wildlife habitat Planting (420)
- Tree/Shrub Establishment (612)
- Forest Stand Improvement (666)
- Heavy Use Area Protection (561)
- Riparian Forest Buffer (391)
- Wetland Creation (658)

- Silvopasture (381)
- Watering Facility (648)
- Herbaceous Weed Treatment (315)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Wetland Wildlife Habitat Management (644)
Arkansas County, Arkansas

United States Department of Agriculture
Natural Resources Conservation Service

Practice: Riparian Forest Buffer

Scenario: Hardwood with Pasture Foregone Income

Scenario Description:
Establishes a buffer of hardwood trees into a suitably prepared pasture site to restore riparian plant communities and associated benefits. The buffer will be located adjacent to and upgradient from a watercourse or water body extending a minimum of 35 feet wide. The planting will consist of planted bare-root deciduous trees. Generally, planting spacing is at 3' x 5'; however, other spacing may be used depending on the objectives. Resource concerns to be addressed are soil erosion - excessive bank erosion; Water Quality - excess sediment and organics in surface waters and elevated temperature; Degraded Plant Condition - inadequate structure and composition; and inadequate habitat for fish and wildlife - habitat degradation.

Before Situations:
Typical sites include former riparian forests and habitat used for forage, cropland, speculation property, or other nonforested condition which contains undesirable amounts or types of vegetation. Active bank erosion is depositing sediment, nutrients and organics in the riparian zone. Water temperature is high due to lack of shade. Habitat is not desirable for wildlife.

After Situation:
A buffer of trees will be established along the riparian corridor which will provide stability, filtration, shade, and desirable habitat to address the above mentioned resource concerns.

Feature Measures:
- Area of planting

Scenario Unit: Acres

Scenario Typical Size: 5.00

Scenario Total Cost: $2,406.56

Scenario Cost/Unit: $481.31

Cost Details:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Unit</th>
<th>Cost</th>
<th>QTY</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment</td>
<td>includes equipment, power unit and labor costs.</td>
<td>Hours</td>
<td>$18.34</td>
<td>8</td>
<td>$146.72</td>
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<tr>
<td>Hand tools, tree planting</td>
<td>includes hard tools for digging holes and planting trees such as augers, dibble bars, planting shovel, hose drip. Equipment only. Labor not included.</td>
<td>Hours</td>
<td>$12.81</td>
<td>16</td>
<td>$204.96</td>
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<tr>
<td>Foregone Income</td>
<td>Grazing the Primary Land Use</td>
<td>Animal Unit Month</td>
<td>$20.02</td>
<td>10</td>
<td>$200.20</td>
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<tr>
<td>Labor</td>
<td>Labor performing basic tasks such as power tools, shovels, and other tasks that do not require extensive training. Includes setup, labor, concrete placement, materials, spreader, flagger, etc.</td>
<td>Hours</td>
<td>$23.10</td>
<td>16</td>
<td>$370.56</td>
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<tr>
<td>Labor</td>
<td>Labor involving supervision or management activities. Includes crew foreman, crew foreman and farm/ranch managers time required for adopting and maintaining technology, etc.</td>
<td>Hours</td>
<td>$47.30</td>
<td>8</td>
<td>$378.40</td>
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<td>Materials</td>
<td>Non-crop hardwood seedling 6 to 8 inches tall. Includes tropical coniferous seedlings of 8 cubic inches or smaller. Includes materials and shipping only.</td>
<td>Each</td>
<td>$0.07</td>
<td>1500</td>
<td>$105.00</td>
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</table>

Mobilization:

Mobilization Cost of materials for special cases where the distance from the supplier delivery point to the job site exceeds 50 miles. The cost for shipping by UPS or bulk freight shipping a location within 50 miles of the job site has already been included in this component price.

Dollars: $1.00 | 100 | $100.00
## EQIP Scenarios

<table>
<thead>
<tr>
<th>Practice No.</th>
<th>Name</th>
<th>Scenario No.</th>
<th>Description</th>
<th>Scenario Unit</th>
<th>Scenario Cost</th>
<th>Cost/Unit</th>
<th>Cost/Unit (Farm A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>644</td>
<td>Wetland Wildlife Habitat Management</td>
<td>6</td>
<td>Development of Deep Micro-Topographic Features w/ Heavy Equip.</td>
<td>20 ac</td>
<td>$2,171.08</td>
<td>$108.55</td>
<td>$6,169.98</td>
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<td>391</td>
<td>Riparian Forest Buffer</td>
<td>2</td>
<td>Hardwood with Row Crop Foregone Income</td>
<td>5 ac</td>
<td>$2,557.06</td>
<td>$711.41</td>
<td>$7,115.10</td>
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<tr>
<td>587</td>
<td>Structure for Water Control</td>
<td>3</td>
<td>Commercial Inline Flashboard Riser Reg.</td>
<td>1,000 diameter inch foot</td>
<td>$6,877.16</td>
<td>$6.88</td>
<td>$13,760</td>
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</tbody>
</table>

**TOTAL** $27,045.08

60%=$16,227  
40%=$10,818
Questions

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