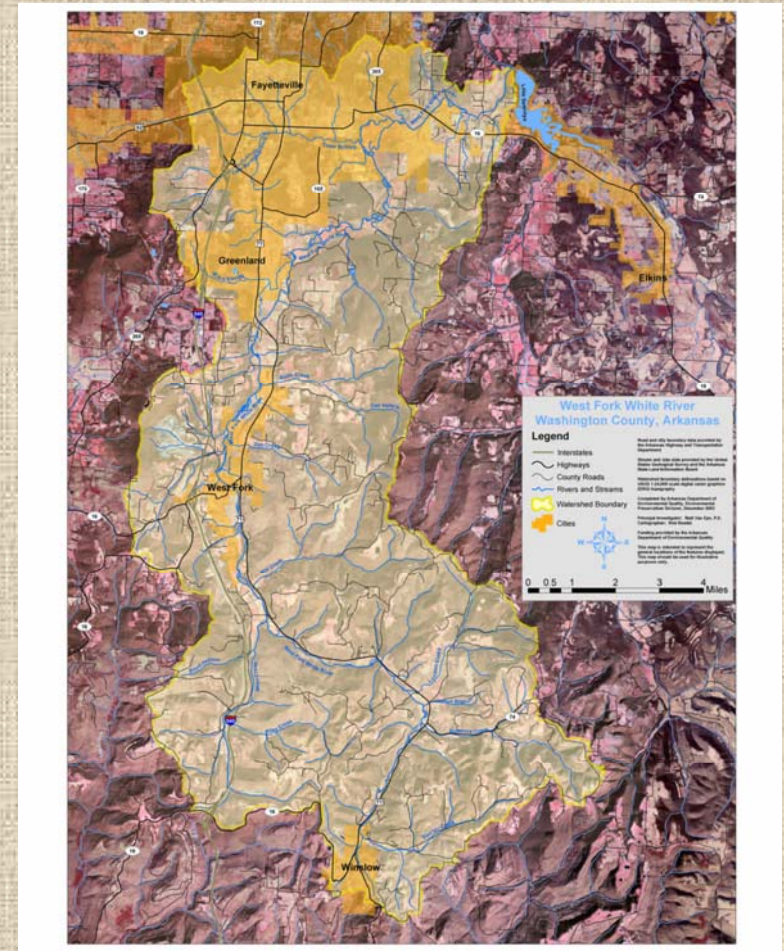


**Implementing Best
Management Practices on the
West Fork of the White River
Project 07-500**

Carla Spencer and Casey Dunigan
Washington County Conservation District

West Fork of the White River

- 33.4 miles long
- Watershed
 - HUC: 1101000104
 - 124 mi²
 - Forest (59%)
 - Agriculture (29%)
 - Urban (12%)



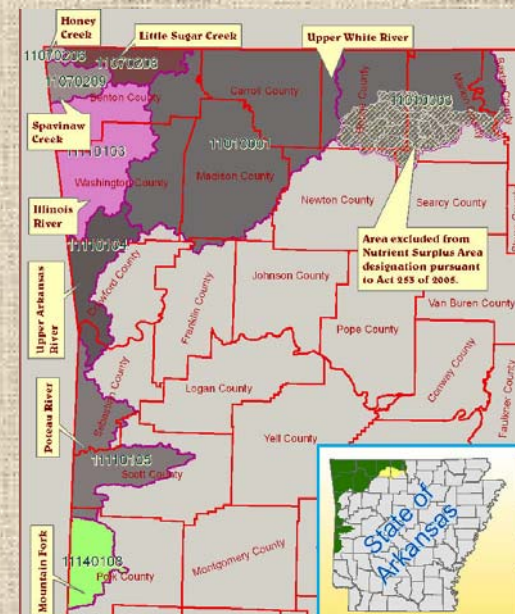
West Fork of the White River

- Tributary of Beaver Lake
- Designated use:
 - support aquatic life
 - primary and secondary contact recreation
 - domestic, agricultural and industrial water supplies



West Fork of the White River

- Placed on the State of Arkansas' 303(d) list of impaired streams in 1998
- Located in the state's Nutrient Surplus Area
 - Targeted for N and P NPS pollution reductions
 - Mandatory Nutrient Management



Our Goals

- To reduce nutrient and sediment impact by:
 - Preparing Nutrient Management Plans
 - Use litter and commercial fertilizer efficiently while minimizing risks of NPS pollution
 - Sharing the cost of installing BMPs
 - Promote/maintain vegetation
 - Prevent movement of nutrients into water bodies



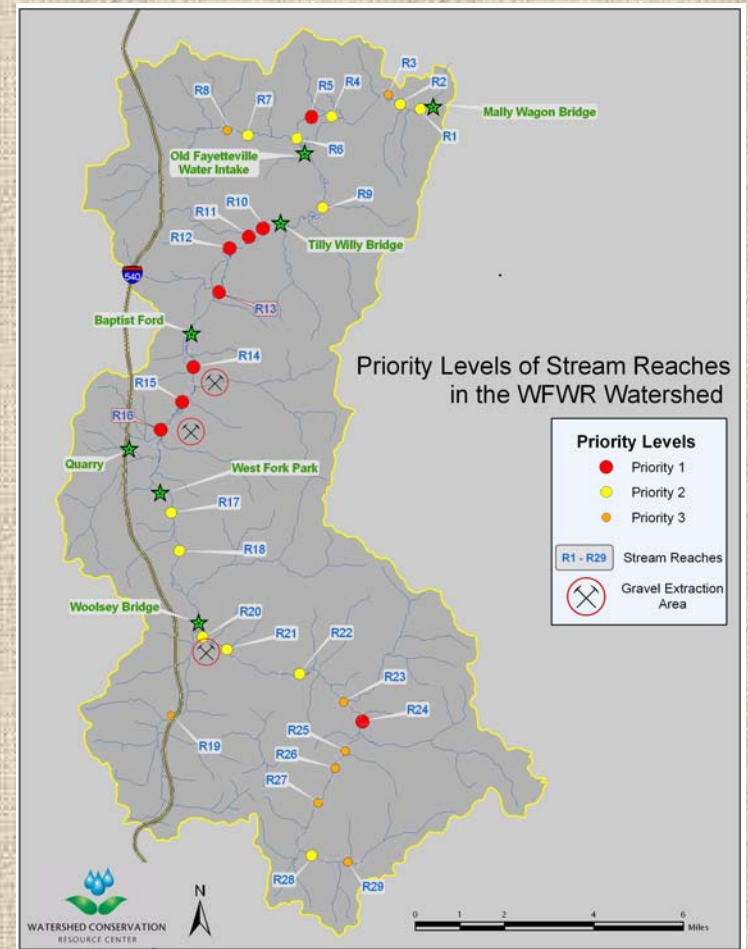
Education

- Demonstration Site
 - 75% cost share from ANRC
 - Alternative watering systems and fencing
 - Field Days
- Newspaper articles and information sheets



Priority Sites

- Determined by the Watershed Conservation Resource Center
- Priority 1 (red dots)
- R24, R13, and R16 for Cost Share



Budget

	<u>Federal</u>	<u>Match</u>	<u>Total</u>
Education	\$2,958	\$3,958	\$6,916
Technical Assistance	\$13,750	\$5,912	\$19,662
Cost Share	\$24,000	\$36,000	\$60,000
Demonstration Site	\$6,500	\$1,895	\$8,395
<u>Reporting</u>	<u>\$5,000</u>	<u>\$2,195</u>	<u>\$8,395</u>
Totals	\$52,208	\$49,915	\$102,123

Accomplishments to Date

- Contacted every landowner in the priority areas
- Wrote 6 NMPs/In progress on 2
 - 30% of our goal
 - 4 in R24, R13, and R16



Accomplishments to Date

- Education
 - 75% complete
 - Information poster developed and displayed
 - Local, county, and regional events
 - Webpage developed on our website
 - www.washingtonccd.org
 - Fact sheet developed and available at county events
 - Youth Education

Implementing Best Management Practices (BMPs) in the West Fork of the White River
Carla Spencer and Casey Durigan, Washington County Conservation District

Introduction
The Washington County Conservation District (WCCD) has partnered with the Watershed Conservation Resource Center and the Arkansas Natural Resources Commission to improve water quality of the West Fork of the White River (WFWR). The WCCD will work with landowners in priority sites of the WFWR to educate them of cost share for BMPs that reduce soil erosion and provide wildlife habitat. Additionally, landowners implementing BMPs will receive nutrient and conservation planning and technical assistance.

Nutrient Management Plans (NMPs)
The WCCD provides NMP's to promote water quality improvement by enabling landowners to make informed land management decisions.

The NMP contains poultry litter and commercial fertilizer application recommendations that are based on the Arkansas Phosphorus Index (an assessment of the vulnerability of the land to lose phosphorus in runoff), aerial maps, buffer maps, soil maps, topographic maps, and other recommendations.

Cost Sharing BMPs
This conservation program shares 60 % of the landowner's cost of implementing BMPs with a maximum payment of \$7,500.

Cost share management practices may include:

- Fencing
- Watering Facilities
- Pasture and Hayland Planting
- Prescribed Grazing

A demonstration site will be set up with some of these practices on the property of a willing landowner.

Benefits of BMPs

Fencing
• electric - standard
• Barrier to livestock, wildlife, or people
• May be used with other BMPs

Watering Facilities
• Protect vegetation through proper distribution of grazing
• Barrier to livestock, wildlife, or people
• Provide erosion control through better grassland management
• Protect water sources by providing alternative access to water

Pasture and Hayland Planting
• Provide forage for grazing animals
• Reduce soil erosion

Prescribed Grazing
• Maximize plant health and vigor
• Control the grazing period for more efficient grazing

More Benefits of BMPs

Filter Strips, Riparian Herbaceous Buffers and Riparian Forest Buffers

- Create shade and wildlife habitat
- Reduce sediments, nutrients, and organics in surface runoff
- Stabilize channel bed and streambank
- Attenuate flooding and dissipate its energy

Grassed Waterways
• Convey runoff without causing erosion or flooding
• Stabilize gully erosion

Critical Area Planting
• Stabilize highly erodible areas with vegetation

Contact Information

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Address: 2090 Post Circle #0
Fayetteville, AR 72704
Website: www.washingtonccd.org
E-mail: Carla.Spencer@ar.nacdnr.net or Casey.Durigan@ar.nacdnr.net



Problems/Concerns

- Not all of our landowners need a plan
 - Break Down of sites:
 - 26 landowners
 - 19 individuals
 - 7 cities/businesses/cemetery
 - 21 cleared areas
 - 5 wooded
- 3 landowners are not interested
- 13 no responses



Reach 16

What We Have Learned

- Limited amount of farmed land in priority areas
- Problems with mailing materials
- Persistence is key

I would like more information on the West Fork 319 Project

- Nutrient Management Plan
 Cost Share on Best Management Practices
 I am interested in having a demonstration site on my property.
 I am not interested in obtaining information on this project.

(Please check all that apply.)

Name: _____

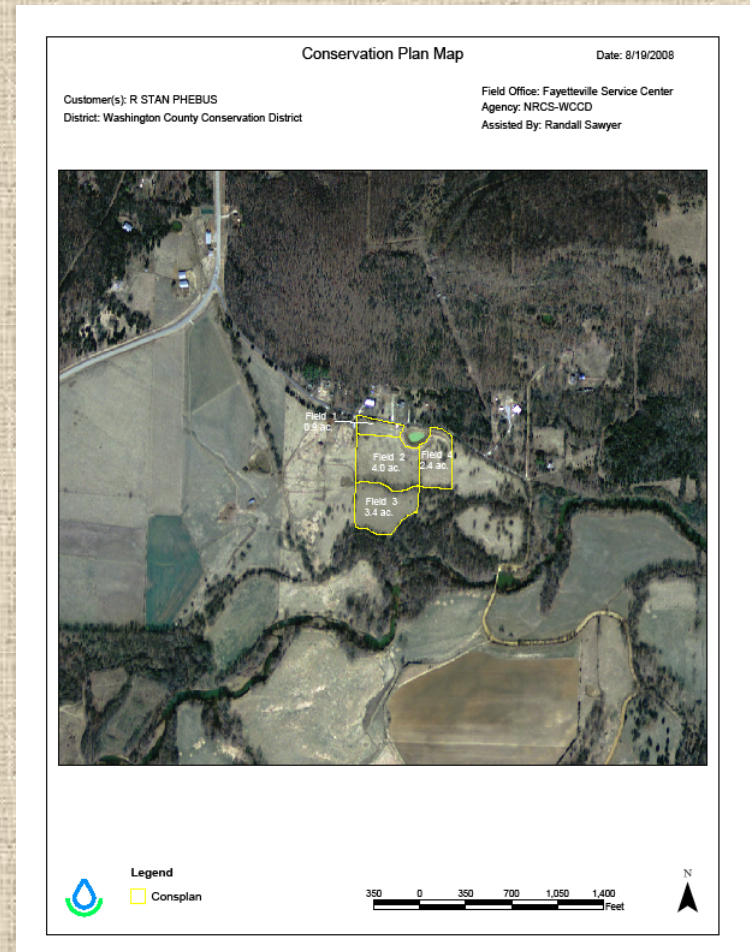
Address: _____

Phone: _____

(Please make any necessary changes to the contact information.)

Next Steps

- Complete NMPs
- Install district owned demonstration site and hold field days
- Continue working with landowners



Any Questions?

Washington County Conservation District

www.washingtonccd.org

479-442-4160 x 3