# *N391 Riparian Forest Buffer*

**Purpose**

1. Reduce excess amounts of sediment, organic material, nutrients and pesticides in surface runoff, and reduce excess nutrients and other chemicals in shallow ground water flow with a secondary benefit of stream bank stabilization.
2. Reduce pesticide drift entering the water body.

**Applicability**

Applies to areas adjacent to permanent or intermittent streams, public drinking water reservoirs and natural wetlands. Assistance for excluding ponds is not applicable.

**Erosion Requirements**

Practice has no erosion requirements.

**Specifications**

The completed practice must meet the NRCS Standards and Specifications for Fence (382), Riparian Forest Buffer (391), Access Control (472), Tree/Shrub Site Preparation (490), Stream Crossing (578), Tree/Shrub Establishment (612), Watering Facility (614), and Water Well (642) contained in the Field Office Technical Guide.

**Policies**

1. Maximum width for incentive is 180 feet. In the Missouri and Mississippi Floodplain the maximum width for incentive is 300 feet.
2. Tree plantation is required.
3. ***Cost-share is authorized for:***
   a. Water Source
   Development of a watering source(s) for livestock when the stream is fenced to exclude livestock. More than one watering source may be developed on farms where pipeline and trenching costs would exceed $3,500, or when crossing roads or streams with pipeline is not recommended. Development of watering sources may not exceed $3,500 each for a pond, or well. Designated stream crossings for livestock are authorized. All water supplies should be a minimum of 25 feet from the exclusion fence and a minimum of 100 feet from the high bank of the stream.
      1) Pond(s). This may include placement of a water line through an impoundment dam of an existing pond or reconstruction of ponds that no longer provide adequate livestock water.
      2) Well(s). The following are procedures and guidelines that must be followed if a well(s) is to be constructed:
         a) The components that will be allowed under each well construction are limited to $3,500, which include the well drilling, casing, grout, liner, electrical lines from

the pump control box to the pump, and miscellaneous well components. Miscellaneous well components include the well cap, drive shoe, inverted bell, cement, fittings, and seals for the well itself.

b) All wells must be constructed and registered according to state requirements. Any type of state certification fee is not eligible for cost-share.

c) Tanks are limited to the fields adjacent to the stream.

b. Limited access. If it is the least cost alternative, limited access may be authorized to allow controlled access to a stream or pond.

c. Exclusion fence.

d. Pasture seeding component. Fertility must be applied according to soil test.

4. ***Cost-share is not authorized for:***

a. Spring development. Spring development must be completed under the N574 Spring Development practice.

**Maximum State Cost-Share**

1. Assistance for components is limited to 75% of the county average cost, not to exceed the state average cost.
2. A one time out of production incentive can not exceed $1,200 per acre.

**Map Requirements**

1. A CMT Map Number must be submitted for contract approval. The map must show the following information that pertains to the contract:
   - Farm Perimeter
   - Existing Fence
   - Planned Pipeline
   - Planned Fence
   - Location of Power Source
   - Planned Water Tanks and Hydrants
   - Planned Water Supply
   - Any other feature that may affect the practice
2. A map that displays the completed practice must be scanned and attached as a "Map Document" in MoSWIMS prior to contract payment submission.

**Technical Responsibilities**

Technical staff has the responsibility for determining the need for the practice, for design of the practice based upon the minimum extent necessary, and to certify that the completed practice meets NRCS standards and specifications within commission policy.

**Acres Served**

Acreage of tree plantation.

**Extent Installed**

Acres.

**Maintenance Life**
10 years.