



Wildlife/Water Quality Enhancement Activity – Wildlife-Water Quality, Widen Buffers

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The loss of buffers in agricultural landscapes has resulted in the decline of many native wildlife species and increased the degradation of aquatic resources. Further the loss of stream-side vegetation has resulted in decreased filter capability to intercept and deposit sediment, agro-chemicals and nutrients both in solution and attached to soil particles.

Benefits

Widening *existing conservation buffers* (contour buffer strips, filter strips, riparian forest buffer, riparian herbaceous cover, vegetative barriers, grassed waterways, field borders) *that currently meet NRCS conservation practice standard criteria* can provide food and cover for native and game species as well as enhancing aquatic habitat by providing shade, input of wood or carbon to the stream, and stabilizing streambank conditions. Additionally, these extended buffers offer more surface area to filter out sediments and agro-chemicals.

Options

Level 1: Extending buffer 30 feet above the *existing buffer*

Level 2: Extending buffer at least 25 feet above Level 1

Criteria for Widening of Buffers:

The extended buffer width will be at least 30 feet wider than the *existing buffer* and be composed of at least 5 species of non-noxious, wildlife friendly grasses, perennial forbs, shrubs, and/or trees best suited to site conditions.

- All site preparation and plant establishment shall be accomplished according to the appropriate NRCS conservation practice standard criteria and specifications as provided by the field office job sheet for your site.
- Forested riparian buffers shall consist of a diversity of tree and shrub species suited to the site, of which the majority are capable of producing fruit or nuts and when mature, will achieve at least 60% canopy closure.
- Any use of the buffer must not compromise its intended purpose.
- To the extent possible the buffer areas and extended buffer areas will be vegetated to increase overland flow interception and increase water quality values of the stream or water body.

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Operation and Maintenance:

- Once established, buffers must not be mowed, disked, grazed, or otherwise disturbed, until after the primary wildlife ground nesting period has ended.
- Buffers will be regularly maintained for its intended purpose through the life of the contract. This includes any removal of vegetation, including grazing. Grazing is not permitted unless a grazing management plan is in effect.
- Buffers will have a wildlife management plan to maintain established plant communities through the life of the contract. The wildlife plan will maintain the plant community and its structural diversity, provide habitat for intended species, remove duff, and control woody vegetation.
- Grazing is not permitted unless a grazing management plan is in effect that maintains the buffer's intended purpose.

References:

Clark, W. R. and K. F. Reeder. 2007. Agricultural Buffers and Wildlife Conservation: A Summary About Linear Practices. In Haufler, J. B. editor. Fish and Wildlife Response to Farm Bill Conservation Practices. The Wildlife Society, Technical Review 07-1, 2007 pages.45-55

Burger, L. W., Barbour, P. J., Hamrick, R. and M. Smith. 2006. Conservation Buffers: Wildlife Benefits in Southeastern Agricultural Systems. In Brasher, K., editor, Research Advances. Mississippi State University, Vol. 9, Number 2. 2006

U.S. Department of Agriculture, Natural Resources Conservation Service. 2007. Early Successional Habitat. Natural Resources Conservation Service and Wildlife Habitat Council Fish and Wildlife Habitat Management Leaflet, Number. 41.

U.S. Department of Agriculture, Natural Resources Conservation Service. 2006. Native Warm Season Grasses and Legume Buffers for Wildlife Habitat Enhancement in Agricultural Landscapes. Natural Resources Conservation Service, Agricultural Wildlife Conservation Center, unnumbered leaflet

U.S. Department of Agriculture, Farm Services Agency. Conservation Reserve Program - CP 33: Habitat Buffers for Upland Birds