

Animal Enhancement Activity – ANM07- Extending existing field borders for water quality protection and wildlife habitat



Enhancement Description

Where existing field borders are utilized, extend them to gain more efficiency in intercepting overland flow and reducing the transport of nutrients, pesticides and agro-chemicals, and for wildlife habitat.

Land Use Applicability

Cropland, Pastureland

Benefits

Widening existing field borders can provide food and cover for native and game species as well as enhancing wildlife habitat. Extended field borders offer more surface area to filter out sediments and agro-chemicals. Field borders can also offer buffers to mitigate pesticide drift during pesticide applications and pollen drift where the mixing of plant varieties is not desired.

Wildlife species utilize transition zones between agricultural fields because they provide a unique combination of cover and often provide important travel corridors. Often times field borders are adjacent to riparian areas and are important for contributing clean water, and habitat areas nearby. Extending existing field borders not only enhances wildlife habitat but it increases the effectiveness of water quality protection if the border is next to a stream.

Conditions Where Enhancement Applies

This enhancement only applies to acres of existing field borders on crop or pasture land uses.

Criteria

1. Extend the existing field border for a total of 60 feet or more to enhance habitat and water quality functions.
2. The extended field borders must be composed of at least 5 species of non-noxious, wildlife friendly grasses, perennial forbs and /or shrubs best suited to site conditions. Include species that provide pollinator food and habitat where possible.
3. All site preparation and plant establishment shall be accomplished according to the appropriate NRCS conservation practice standard criteria and specifications.
4. Any use of the field border must not compromise its intended purpose. Vegetation from field borders can be harvested for bio-energy as long as the harvesting is done in accordance with a plan that does not compromise the water quality and wildlife benefits of the extended filter strip.
5. To the extent possible the field border areas and extended field border areas will be vegetated to increase overland flow interception and increase water quality values if they also border a stream or water body.



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6. The extension of field borders can incorporate other buffer types (filter strips, riparian herbaceous and riparian forest) where applicable to meet specific operator management goals.

Adoption Requirements

This enhancement is considered adopted when the field border has a total width of 60 feet or more for the selected land use.

Documentation Requirements

1. A map showing the location and size of enhanced field borders.
2. Documentation of the type and rates of vegetation planted in the new field borders.

References

Clark, W.R. and K.F. Reeder. 2005. Continuous Conservation Reserve Program: Factors Influencing the Value of Agricultural Buffers to Wildlife Conservation. Pages 93-113 *in* Fish and wildlife benefits of Farm Bill conservation programs: 2000-2005 update. Haufler, J. B., editor. The Wildlife Society Technical Review 05-2.
http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs143_012882.pdf

USDA-NRCS. 2010. Grassland Bird Population Responses to Upland Habitat Buffer Establishment by L. Wes Burger, Jr., Philip J. Barbour, and Mark D. Smith. Wildlife Insight No. 86. Washington, DC.
<http://www.fwrc.msstate.edu/pubs/NRCSWildlifeInsight86.pdf>

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Reference:

- **327 – Conservation Cover**
 - ***Biology Jobsheet 9 – Establishment of Native Grasses and Forbs***
- **643 – Restoration and Management of Declining Habitats**
 - ***Biology Jobsheet 12 – Tall Grass Prairie***
- **386 – Field Border**
 - ***Agronomy Jobsheet 386 – Field Border***

The extended field borders must be composed of at least 5 species of non-toxic, wildlife friendly grasses and/or perennial forbs best suited to site conditions.

NATIVE GRASSES, FORBS AND LEGUMES

Native grass seed origin shall be within a 200 mile radius of the project site, unless otherwise identified as an acceptable cultivar.

The following are native grasses that are considered wildlife friendly:

Big Bluestem	Western Wheatgrass
Indiangrass	Blue Grama
Green Needlegrass	Switchgrass
Little Bluestem	Canada Bluejoint
Sideoats Grama	Prairie Cordgrass
Prairie Sandreed	Virginia Wildrye
Canada Wildrye	Kalms Brome
Slender Wheatgrass	

FORBS AND LEGUMES

Forbs and legumes with origins native to Minnesota are preferred. When local Minnesota seed sources are not available, native forbs and legume seed shall originate from Wisconsin, northern Nebraska, North Dakota, South Dakota, northern Iowa, and the Canadian provinces of southern Manitoba and Ontario. If the true origin of the seed can be certified as one of the accepted states or provinces, then there would be no restriction on where the seed is grown. Certification must be provided by the grower, and responsibility for obtaining certification rests with the producer.

The following list identifies native forbs and wildflowers beneficial to upland wildlife and native habitat restoration. The list is not inclusive, and identifies those species, which are readily available through private vendor seed supplies.

DRY	MESIC to WET	DRY to WET
Bush Clover	Canada Tick Trefoil	Black-eyed Susan
Dotted Blazingstar	Common Ox-eye	Illinois Bundleflower
Purple Coneflower	Giant Sunflower	Purple Prairie Clover
Showy Penstemon	Golden Alexanders	Maximillian Sunflower
Silky Aster	Partridge Pea	Stiff Goldenrod
DRY to MESIC	Rattlesnake Master	Yarrow
Butterfly Weed	Tall Blazingstar	
Compass Plant	Wild Bergamot	
Hoary Vervain	Yellow Coneflower	
Leadplant	WET	
Prairie Smoke	Blue Vervain	
Rough Blazingstar	Boneset	
Showy Goldenrod	Joe-pye Weed	
Smooth Aster	New England Aster	
Stiff Tickseed	Panicled Aster	
	Swamp Milkweed	

The field will be protected from grazing and disturbance during the primary nesting and fawning season, which is **May 1 to July 15**.