

### **CONSERVATION ENHANCEMENT ACTIVITY**

## CONSERVATION STEWARDSHIP PROGRAM

#### E390A

# <u>Increase riparian herbaceous cover width for sediment and nutrient reduction</u>

**Conservation Practice 390: Riparian Herbaceous Cover** 

APPLICABLE LAND USE: Crop (Annual & Mixed); Crop (Perennial)

**RESOURCE CONCERN: Water** 

**ENHANCEMENT LIFE SPAN: 5 Years** 

#### **Enhancement Description**

Where an existing herbaceous riparian buffer is located along a river, stream, pond, lake, or other waterbody, increase the width of the buffer in order to allow a greater percentage of sediment and nutrient removal from surface and subsurface flows.

#### <u>Criteria</u>

- Existing buffer width shall be at least 35 feet or (if applicable) the minimum State buffer-width requirement, whichever is greater. Maximum enhancement buffer width may be increased up to the greater of 100 feet or the State-allowed maximum width.
- To the extent possible, the buffer area and extended buffer will be shaped and vegetated to increase overland flow interception.
- Concentrated flow erosion or mass soil movement shall be controlled in the up-gradient area prior to establishment of the riparian herbaceous cover.
- Existing underground functional drains that pass through these areas shall be replaced
  with rigid, non-perforated pipe through the buffer or equipped with a management
  regulating structure to allow control of overflow.

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Species selected shall have stiff stems and high stem density near the ground surface to reduce water velocities and facilitate infiltration into the floodplain. Only viable, high quality and siteadapted planting stock will be used. Selection of native plants is recommended.



- In areas where native seeds and propagules are present, natural regeneration can be used in lieu of planting. Planting is required if no native seed bank is present.
- Selected plant species must be adapted to the projected duration of saturation and inundation of the site.
- Where available, use Ecological Site Description to guide restoration to appropriate vegetative community phase and include appropriate vegetative functional groups.
- Necessary site preparation and planting shall be done at a time and manner to insure survival and growth of selected species.
- Management systems applied will be designed to maintain or improve the vigor and reproduction of the desired plant community.
- Harmful pests present on the site will be controlled or eliminated as necessary to achieve and maintain the intended purpose. Pest management will be conducted in a manner that mitigates impacts to pollinators.
- Protect riparian vegetation by reducing or excluding having and grazing until the desired plant community is well established, with grazing deferred for a minimum of two years.
- Design the expanded buffer enhancement for an expected life of at least 5 years.

#### North Dakota Sideboards:

150 ft. max. width

"A" list native species to aid in establishment which is on the Pollinator fact sheet located in FOTG section 1 - Fact Sheet Folder - Pollinators Fact Sheet

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## **Documentation and Implementation Requirements**

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Pa	articipant will: Prior to implemen	itation, prepare the plai	nned buffe	DDO		AMDS AM	ПІР
	area for vegetation establishment. Refer to NRCS Conservation Practice Standard Riparian Herbaceous Cover (Code 390). (NRCS will provide technical assistance, as needed.)						
	existing native see	ntation, in areas that are ed in the soil work close pecific site. (NRCS will p	ly with NR	CS to select p	olant s	pecies that	t are
	Sp	ecies	-	cies type egume, forb)		Rate (Lbs/	Ac) PLS
			(8 /				
							- V
	•	ntation, select planting t s. (NRCS will provide te	•				e site
	Planting Date						/
	Planting Technique						
	Seeding Depth						
☐ During implementation, grade the site, as needed, to eliminate concentrated flow through the buffer including that from uphill from the buffer.					N		
	During implement	tation, replace any unde	erground fu	inctional tile	drain	s that pass	
		r with rigid, non-perfora	-			V	
	During implement	ration, conduct planting	of selecte	d species acc	cordin	g to dates.	
	During implementation, conduct planting of selected species according to dates, techniques, depth, and other requirements listed in the plan.						
	During implementation, install and maintain erosion control measures as needed, such as silt fencing and mulching.						
	= -	ation, notify NRCS of ar		changes to	allow I	NRCS to ve	rify that

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	After implementation, control harmful pests at the site, as necessary, and in a manner that mitigates mpacts to pollinators.  CONSERVATION STEWARDSHIP PROGRAM	)				
	After implementation, protect the area by reducing haying and excluding grazing until the plant community is established, deferring grazing for a minimum of two years.					
NR	Swill.					
	RCS will:  Prior to implementation, provide and explain NRCS Conservation Practice Standard Riparian Herbaceous Cover (Code 390) to show how it relates to this enhancement.					
	Prior to implementation, verify the enhancement is planned for cropland.					
	Prior to implementation, verify the enhancement is planned for acres that have been appropriately prepared for riparian herbaceous cover.					
	Prior to implementation, verify no plants on the Federal or state noxious weeds list are included.					
	As needed, prior to implementation, NRCS will provide technical assistance:					
	<ul> <li>Preparing a site plan that meets NRCS Conservation Practice Standard Riparian Herbaceous Cover (CPS 390).</li> </ul>					
	<ul> <li>Selecting the stiff-stemmed species of grasses and/or perennial forbs best suited to site saturation and inundation conditions.</li> </ul>					
	<ul> <li>Selecting planting techniques and timing appropriate for the site and soil conditions.</li> </ul>					
	<ul> <li>Planning the use of additional erosion control, as needed for the site.</li> </ul>					
	<ul> <li>Preparing specifications for applying this enhancement for each site using approved state implementation requirements, national technical notes,</li> </ul>					
	appropriate state technical notes, and narrative statements in the conservation plan, or other acceptable documentation.					
	During implementation, evaluate any planned changes to verify they meet the					
	enhancement criteria.					
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	During implementation, verify all erosion connected for the site is functioning and is maspecifications developed for the site.		CONSERVAT to STEWARD PROGRAM		
	After implementation, verify the vegetation established to specifications developed for				
	After implementation, verify the planting is protected from pests, has had limited haying, and that grazing is being excluded, if established less than two years.				
NRCS	Documentation Review:				
	reviewed all required participant documenta aplemented the enhancement and met all cri		-	ticip <mark>ant</mark>	
Pa	rticipant Name	Contract Number			
Total Amount Applied		Fiscal Year Completed			
NR	RCS Technical Adequacy Signature	 Date			