

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.

E390A- Increase riparian herbaceous cover	July 2019	Page 1
width for sediment and nutrient reduction		



United States Department of Agriculture

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



Documentation and Implementation Requirements

CONSERVATION STEWARDSHIP PROGRAM

Pa	articipant will: Prior to implemen	itation, prepare the plai	nned buffe	DDO		ANDS AM	ПІР
	area for vegetatio	n establishment. Refer ous Cover (Code 390). (N	to NRCS C	onservation			
	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
			(0 111)	-877			
							V
	•	ntation, select planting t s. (NRCS will provide te	•				e site
	Planting Date						7
	Planting Technique						
	Seeding Depth						
	• .	r including that from up			concei	ntrated flow	W
	During implement	tation, replace any unde	erground fu	unctional tile	drain	s that pass	
		r with rigid, non-perfora	_			V .	
	During implement	tation, conduct planting	of selected	d species acc	ordin	g to dates	
		, and other requiremen		•		B to dates,	
	During implement as silt fencing and	cation, install and maint mulching.	ain erosior	n control me	asures	s as needed	l, such
	= :	cation, notify NRCS of ar NRCS enhancement cri		changes to	allow	NRCS to ve	rify that

E390A- Increase riparian herbaceous cover	July 2019	Page 3
width for sediment and nutrient reduction		



width for sediment and nutrient reduction

United States Department of Agriculture

	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 naying and excluding grazing until the plant community is established, deferring grazing for a minimum of two years.	
NR	S 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 not	
	As needed, prior to implementation, NRCS will provide technical assistance:	
	 Preparing a site plan that meets NRCS Conservation Practice Standard Riparian Herbaceous Cover (CPS 390). 	
	 Selecting the stiff-stemmed species of grasses and/or perennial forbs best suited to site saturation and inundation conditions. 	
	 Selecting planting techniques and timing appropriate for the site and soil conditions. 	
	 Planning the use of additional erosion control, as needed for the site. 	
	 Preparing specifications for applying this enhancement for each site using approved state implementation requirements, national technical notes, 	
	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.	
30	A- Increase rinarian herhaceous cover July 2019 Page 4	



United States Department of Agriculture

	Sintod States Department of	Agriculta	.0		
	During implementation, verify all erosion connected for the site is functioning and is maspecifications developed for the site.		CONSERV to STEWAI PROGRAM	RDSHI	
	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			e particip <mark>ant</mark>	
Participant Name Contract Number					
Total Amount Applied		Fiscal Year Completed			
NR	RCS Technical Adequacy Signature	Date			