

## **CONSERVATION ENHANCEMENT ACTIVITY**

## CONSERVATION STEWARDSHIP PROGRAM

#### E386C

# Enhanced field borders to decrease particulate emissions along the edge(s) of a field

**Conservation Practice 386: Field Border** 

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

**RESOURCE CONCERN: Air** 

**ENHANCEMENT LIFE SPAN: 10 years** 

#### **Enhancement Description:**

Enhance existing field borders to a width of at least 40 feet and establish a mixture of species that decrease the particulate emissions along the edge(s) of the field.

#### Criteria:

- Field borders shall be established along selected field edges at a width of at least 40 feet.
- Locate borders to eliminate sloping end rows, headlands, and other areas where concentrated water flows will enter or exit the field.
- Plants selected for field borders will have the physical characteristics to optimize the
  interception and adhesion of airborne particles (species with a mature height of at
  least 2 feet). No plant listed by the state as a noxious or invasive species shall be
  established in the field border.
- Seedbed preparation, seeding rates, dates, depths, fertility requirements, and planting methods will be consistent with approved local criteria and site conditions.

E386C - Enhanced field borders to decrease	July 2019	Page   1
particulate emissions along the edge(s) of a		
field		



 Ephemeral gullies and rills present in the planned border area will be eliminated as part of seedbed preparation. If present, ephemeral gullies and rills located immediately upslope from the planned border area need to be treated to ensure more of

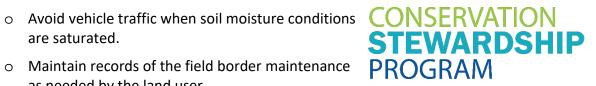


- border area need to be treated to ensure more of a sheet flow into the planned border area.
- Do not burn the field border.
- Operation and maintenance requirements.
  - o Repair storm damage.
  - Remove sediment from above, within and along the leading edge of the field border when accumulated sediment either alters the function of the field border or threatens the degradation of the planted species.
  - Shut off sprayers and raise tillage equipment to avoid damage to field borders.
  - Shape and reseed border areas damaged by animals, chemicals, tillage, or equipment traffic.
  - Do not use the field border as a hay yard or machinery parking lot for any extended period of time, especially if doing so will damage or impair the function of the border.
  - Schedule mowing, harvest, weed control, and other management activities within the field border to accommodate the plants ability to intercept particulate emissions.
     Vehicle traffic should be avoided in the field border area.
  - Maintain desired vegetative communities and plant vigor by liming, fertilizing, mowing, disking, or burning and controlling noxious and invasive weeds to sustain effectiveness of the border.
  - Repair and reseed ephemeral gullies and rills that develop in the border.
  - When managing for wildlife, maintenance activities that result in disturbance of vegetation should not be conducted during the primary nesting, fawning and calving seasons. Activities should be timed to allow for regrowth before the growing season ends whenever possible.
  - Periodic removal of some products such as medicinal herbs, nuts, and fruits is permitted provided the conservation purpose is not compromised by the loss of vegetation or harvesting disturbance.

E386C - Enhanced field borders to decrease	July 2019	Page   2
particulate emissions along the edge(s) of a		
field		



- as needed by the land user.







## **Documentation and Implementation Requirements:**

D	ocumentation and	Implementation Requiremen			
D:	articipant will:		STEWA	RDSHIP	
г <b>(</b>	<del>-</del>	ntation, prepare the planned	PROGRA	M	
		tablishment. Refer to NRCS C	10103		
	-				
	Border (Code 386). (NRCS will provide technical assistance, as needed.) Total planned amount of field border extension = feet				
	Prior to implemen	ntation, select adapted specie	s of permanent grass, for	bs and/or	
	shrubs that accon	nplish the design objective ar	d are best suited to site co	onditions. (NR <mark>CS</mark>	
_		nical assistance, as needed.)			
	Species	Seeding Rate	Note specific species c	haracteristic(s)	
F		(lb/ac pure live seed)			
F					
	technique and tin technical assistan	ntation, determine liming and ning appropriate for the site and the si			
	Planting Date				
	Planting Technique				
	Lime and Fertilizer Requirements				
	<ul> <li>During implementation, install and maintain erosion control measures as needed for the</li> </ul>				
	site. (NRCS will pr	rovide technical assistance, as	needed.)		
	<ul> <li>During implementation, notify NRCS of any planned changes to verify changes meet</li> <li>NRCS enhancement criteria.</li> </ul>				
	During implementation, protect the planting from plant and animal pests and fire.				
	After implementa and fire.	ation, maintain and protect th	e planting from plant and	animal pests	

E386C - Enhanced field borders to decrease	July 2019	Page   4
particulate emissions along the edge(s) of a		
field		



	borde	mplementation, verify the total amount of field implemented. Total implemented amount of order extension =feet CONSERVATION STEWARDSHIP PROGRAM			
NR	CS will:				
	Prior to bound	o implementation, verify the enhancement is planned within the field(s) or farm ary.			
		o implementation, provide and explain NRCS Conservation Practice Field Border 386) as it relates to implementing this enhancement.			
	Prior to implementation, verify the enhancement is planned for acres that have been appropriately prepared for vegetation establishment. Total planned amount of field border extension =feet				
	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:				
	0	Planning site preparation meeting NRCS Conservation Practice Standard Field Border (Code 386).			
	0	Selecting the adapted species of permanent grass, forbs and/or shrubs that accomplish the design objective and are best suited to site conditions.			
	0	Selecting planting techniques and timing appropriate for the site and soil conditions.			
	0	Planning the use of additional erosion control, as needed for the site.			
	0	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.			
	_	implementation, evaluate any planned changes to verify they meet the cement criteria.			

E386C - Enhanced field borders to decrease	July 2019	Page   5
particulate emissions along the edge(s) of a		
field		



	After implementation, verify the vegetation was established to specifications developed for the s		CONSERVATION STEWARDSHIP			
	After implementation, verify the planting is prot from pests and fire.	ected	PROGRAM			
	☐ After implementation, verify all erosion control needed for the site is functioning and is maintained to specifications developed for the site.					
	☐ After implementation, verify the total amount of field border implemented. Total implemented amount of field border extension =feet					
NRCS	NRCS Documentation Review:					
	reviewed all required participant documentation plemented the enhancement and met all criteria					
Pa	rticipant Name	_ Co	ontract Number			
То	tal Amount Applied	Fi	scal Year Completed			
NR	RCS Technical Adequacy Signature	Date				

E386C - Enhanced field borders to decrease	July 2019	Page   6
particulate emissions along the edge(s) of a		
field		



## **OREGON SUPPLEMENT TO**

#### **CONSERVATION ENHANCEMENT**



#### **ACTIVITY E386C**

#### **Additional Documentation Requirements and Information for Oregon**

- If the base practice (386) is being contracted and paid for along with the
  enhancement, complete an Oregon 386 IR for the project, indicating species
  and quantities to be seeded/planted. If the base practice has been completed
  or the site has been inventoried and found to meet or lack specifications, the
  planner should document this information (such as an IR from a previous
  contract, wind or water tools used and values, such as RUSL2 or WEPS, or
  some other form of documentation/inventory).
- Field(s) should have an existing field strip that meets or will meet the 386
   Standard upon enhancement completion. Field border(s) will be documented on a plan map with the existing and planned field border width.

#### **Plant Guidance**

Plant selection can include grasses, grass/legumes or forbs, particularly with upright, stiff structure to trap water/wind- borne soil particles.

Plant species seeded or planted at the site should be suitable to the MLRA (ecoregion), habitat location (e.g. wet/dry, sun/shade, etc.) and this purpose.

Refer to the following documents to help select suitable plants to seed or plant. Other species not contained in the these documents may be appropriate for use. For further recommendations in plant species selection for enhancements, please contact Oregon State Plant Materials Specialist, at Kathy.Pendergrass@usda.gov.

- Oregon-Washington Seeding Guide: https://efotg.sc.egov.usda.gov/references/ public/OR/OR-WA-seeding-guide.pdf
- Intermountain Seeding Guide: https://efotg.sc.egov.usda.gov/references/public/ OR/Intermountain\_Planting\_Guide.pdf

E386C — Oregon State Supplement	February 2023	Page   1

### Plant Guidance con't

 Pullman PMC Vegetative Solutions to Conservation Problems: https:// efotg.sc.egov.usda.gov/references/public/OR/Pullman\_PMC\_Plant\_List.pdf

#### Seed and Plant Vendors - places to find plants

Oregon Plant Material Technical Note No. 9 – "Plant and Seed Vendors for Oregon, Washington, Idaho, and Northwest California" https://efotg.sc.egov.usda.gov/references/public/OR/PMC09.pdf

To be released Summer, 2023 - Oregon Flora Project Website – Gardening Portal – Nurseries that supply native plants: https://oregonflora.org/garden/