

CONSERVATION ENHANCEMENT ACTIVITY

CONSERVATION STEWARDSHIP **PROGRAM** E328A

Resource conserving crop rotation

Conservation Practice 328: Conservation Crop Rotation

APPLICABLE LAND USE: Crop (Annual & Mixed)

RESOURCE CONCERNS: Soil; Plants

ENHANCEMENT LIFE SPAN: 1 year

Enhancement Description

Establish a Resource Conserving Crop Rotation. Rotation must include AT LEAST one resource conserving crop as determined by the State Conservationist in a minimum threeyear crop rotation. The crop rotation will reduce soil erosion (water and wind), improve soil health, improve soil moisture efficiency, and reduce plant pest pressures.

<u>Criteria</u>

- Crops shall be grown in a planned sequence. The crop rotation shall include a minimum of two different crops in a minimum three-year crop rotation. Rotation must include AT LEAST one resource conserving crop (refer to State Specific Guidance on Resource Conserving Crops). For purposes of these criteria a cover crop is considered a different crop.
- Crop rotation must produce a positive trend in the Organic Matter (OM) subfactor value, as determined by the Soil Conditioning Index (SCI) calculated using current NRCS wind and water erosion prediction technologies. (management SCI value)
- Design the crop sequence to provide sufficient diversity in plant family and species as well as timing and type of field operations to suppress the pest(s) of concern, which may include weeds, insects, and pathogens. Use land grant university or industry standards to determine a suitable crop sequence.



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 Select crops, varieties of crops, and the sequences of crops based on local climate patterns, soil conditions, irrigation water availability, and an approved water balance procedure.



- Where applicable, plan suitable crop substitutions when the planned crop cannot be planted due to weather, soil conditions, or other local situations.
- The crop rotation shall include at least one of the following types of resource conserving crops (refer to State Specific Guidance of Resource Conserving Crops):
 - With at least one other crop in the rotation, include a perennial grass grown at least 2 years from time of planting;
 - With at least one other crop in the rotation, include a legume that is grown at least 2 years from time of planting;
 - With at least one other crop in the rotation, include a legume-grass mixture that is grown at least 2 years from time of planting;
 - With at least one other crop in the rotation, include a grass-forbs or legumegrass-forbs mixture, in which at least the grass component of the mixture is grown at least 2 years from time of planting, or
 - With at least two other crops in the rotation, include a non-fragile residue or high residue crop or a crop that efficiently uses soil moisture, reduces irrigation water needs or is considered drought tolerant.

Documentation and Implementation Requirements

E328A - Resource conserving crop rotation

Participant will:

Acres

Field

Prior to implementation, provide NRCS with the planned crop rotation and tillage operation(s) used for each crop.

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Length of Crop Rotation (years)

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	Timin a of Field						
Field	Crop	Field Operation	Timing of Field Operation (month/year)				
 During implementation, notify NRCS of any planned changes in crops, crop rotation, or field operations to verify the planned system meets the enhancement criteria. After implementation, if changes to the rotation were made, complete the tables above to document the applied Conservation Crop Rotation for the contract period and provide to NRCS. NRCS will: 							
_	* *	nnical assistance in selecting crop rot <mark>ations or su</mark> of the enhancement.	bstitute crops that				
	•	on model reports that document crop rotation, so r both baseline and planned operations.	oil erosion				
Prior to implementation, verify that the crop rotation includes at least two different crops in a minimum three-year crop rotation.							
☐ Prio	or to implementation	n, verify the crop rotation includes at least one re	esource				
con	serving crop (refer to	o State Specific List of Resource Conserving Crop	os).				

January 2022 Colorado

Planned Crops (in sequence)



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	Prior to implementation, use the information provided from the participant to calculate management Soil Conditioning Index (SCI) current NRCS wind and water erosion predicted technologies. Crop rotation must produce subfactor value. Management SCI Value =	the value using liction a positive tre	_	ARDS AM nic Matter (HIF (OM)				
	During implementation, evaluate planned of operations to verify the planned system more	_			ı				
After implementation, if the applied crop rotation is different than the planned crop rotation, use the information provided from the participant to calculate SCI value to document that the applied rotation met the enhancement criteria. Management SCI Value =OM subfactor value =									
NRCS [Documentation Review:								
have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements. Participant Name Contract Number									
				tod					
101	tal Amount Applied	FISC	cal Year Comple	iteu					
NR	CS Technical Adequacy Signature	Date							