CONSERVATION ENHANCEMENT ACTIVITY

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 three-year 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 List of
 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 List 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 small grain grown in combination with a legume, forbs or any grass-forbs mixture that is used as a green manure, whether inter-seeded or planted after small grain harvest. Neither the small grain residue nor the cover crop shall be harvested or grazed.

Documentation and Implementation Requirements

Participant will:

Parti	cipant wil Prior to im	l: plementatio	ntation Requirements STEWA PROGRA and tillage operation(s) used for each crop.	RDSHIP
Field	d Acres	Planned Crops (in sequence)		Length of Crop Rotation (years)
Field	d	Crop	Field Operation	Timing of Field Operation (month/year)
	perations	to verify the ementation,	n, notify NRCS of any planned changes in crops, cree planned system meets the enhancement criteria if changes to the rotation were made, complete to Conservation Crop Rotation for the contract period	he tables above to
NRCS will:				
☐ As needed, provide technical assistance in selecting crop rotations or substitute crops that would meet the criteria of the enhancement.				
would meet the chteria of the emiancement.				
		=	n, verify that the crop rotation includes at least to ree-year crop rotation.	wo different
_ P	Prior to implementation, verify the crop rotation includes at least one resource			
	conserving cron (refer to State Specific List of Resource Conserving Crons)			

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	Prior to implementation, use the information provided from the participant to calculate the management Soil Conditioning Index (SCI) value using current NRCS wind and water erosion prediction technologies. Crop rotation must produce a positive tr subfactor value. Management SCI Value =C	_	SHIF		
	During implementation, evaluate planned changes in coperations to verify the planned system meets the enhanced system.	• • • • •	eld		
	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 I	Documentation Review:				
	reviewed all required participant documentation and hopemented the enhancement and met all criteria and re	///	cipant		
Pai	rticipant Name Co	ntract Number			
Tot	tal Amount Applied Fis	cal Year Completed			
NR	CS Technical Adequacy Signature Date				

WYOMING SUPPLEMENT TO CONSERVATION ENHANCEMENT ACTIVITY



E328A

Additional Criteria for Wyoming

In addition to the criteria specified in the National job Sheet E327B the following addition criteria apply to Wyoming:

Wyoming Resource Conserving Crops

- 1. Perennial alfalfa (grown for forage or seed)
- 2. Clovers
- 3. Perennial grass or combination grass/legume or grass/forb mixture
- 4. Legumes grown as a green manure crop (e.g., Austrian winter peas)
- 5. Small grains ONLY when grown in combination with a green manure (grass, legume, forb, or mixture) crop

For Option 5 above, the small grain residue shall not be harvested or grazed, nor will the cover crop be harvested or grazed.

For any existing RCCR where the producer chooses to further improve on their rotation must choose from one of the "improved" RCCR enhancements and not this one.

Any change to the crop rotation in an effort to adopt an RCCR;

- 1) may NOT reduce the existing conservation level, and
- 2) must address another resource concern or further enhance the objectives of the RCCR. For example, substituting spring wheat for spring barley provides no conservation benefit, while adding spring barley to a rotation with fall-seeded small grains helps to break insect and weed cycles. A justification must be provided as to how the added crop meets the two criteria above.

Implementation of this enhancement must meet all "general criteria" and "additional criteria related to the applicable practice purpose" listed in the NRCS conservation practice standard for the conservation crop rotation (328) practice.

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