

CONSERVATION ENHANCEMENT ACTIVITY

E329C



No till to increase plant-available moisture

Conservation Practice 329: Residue & Tillage Management, No Till

APPLICABLE LAND USE: Crop (Annual & Mixed)

RESOURCE CONCERN: Water

ENHANCEMENT LIFE SPAN: 1 Year

Enhancement Description

Establish a no till system to increase plant-available moisture. Each crop in the crop rotation shall have a Soil Tillage Intensity Rating (STIR) of no greater than 20. The current NRCS wind and water erosion prediction technologies must be used to document STIR calculations. Maintain a minimum 60 percent surface residue cover throughout the year to reduce evaporation from the soil surface.

Criteria

- Residue shall not be burned.
- All residues shall be uniformly distributed over the entire field. Removing residue from the row area prior to or as part of the planting operation is acceptable.
- No full-width tillage is performed from the time of harvest or termination of one cash crop to the time of harvest or termination of the next cash crop in the rotation regardless of the depth of the tillage operation. The Soil Tillage Intensity Rating (STIR) value shall include all field operations that are performed during the crop interval between harvest or termination of the previous cash crop and harvest or termination of the current cash crop (includes fallow periods). The crop STIR value shall be no greater than 20.

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 Maintain a minimum 60 percent surface residue cover throughout the year to reduce evaporation from the soil surface.







Documentation and Implementation Requirements

CONSERVATION STEWARDSHIP PROGRAM

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IJ O P T I	cipant	NA/III
PALL	III)AIII	wii.

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

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Fi	eld	Acres		Planned Crops (in sequence)	Length of Crop Rotation (years)
	ı				
Fi	eld		Crop	Field Operation	Timing of Field Operation (month/year)
				n, notify NRCS of any planned <mark>changes in</mark> crops, <mark>cro</mark> e planned system meets the e <mark>nhancemen</mark> t crite <mark>ria</mark>	
	Dur	ring imp	lementation	, no residue will be burned.	
				, all residues will be uniformly <mark>distributed</mark> over the the row area prior to or as part <mark>of the plant</mark> ing or	
		eptable		ratio fow area prior to or as part of the planting of	octution is
	During implementation, no full-width tillage may be performed from the time of harvest or termination of one cash crop to the time of harvest or termination of the next cash crop in				
				of the depth of the tillage operation.	
	During implementation, maintain a minimum 60 percent surface residue cover throughout the year to reduce evaporation from the soil surface.				
		•			o tables shave to
	After implementation, if changes to the rotation were made, complete the tables above to				

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NR	RCS will:	CONSERVATION			
	As needed, provide technical assistance to criteria of the enhancement.				
	surface residue cover using the NRCS wind Verify the enrolled field(s) will have a Soil T	provided Fillage Intensity Rating values and estimated and water erosion prediction technologies. Tillage Intensity Rating value of no greater sion, and the estimated surface residue cover.			
	Estimated surface residue cover for each c	crop in the rotation =			
	During implementation, evaluate planned of operations to verify the planned system me				
	After implementation, if the applied crops, crop rotation, or field operations are different than the planned crops, crop rotation, or field operations, use information provided from the participant to the Soil Tillage Intensity Rating value, and estimated surface residue cove to document that the applied rotation met the enhancement criteria. STIR values for each crop in the rotation =				
	Estimated surface residue cover for each c	crop in the rotation =			
<u>NRCS</u>	Documentation Review:				
	reviewed all required participation documents				
has im	plemented the enhancement an et all cri	rit and requirements.			
Pa	rticipant Name	Contract Number			
To	tal Amount Applied	Fiscal Year Completed			

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Design Approvals & Acknowledgements:

Design Approval	Date	Job Approval Authority
Designed by:		
Approved by:		

Client's Acknowledgement Statement:

The client acknowledges:

- I have received a copy of the specification and understand the contents and requirements.
- It is my responsibility to obtain all necessary permits and/or rights and to comply with all ordinances and laws pertaining to the application of this practice.
- I will not begin installation of this practice until I have received appropriate approval to do so. I understand NRCS also has Federal and state laws to comply with that may take some time to address (e.g. cultural resources).

Client's Signature	Date

Certification Documentation:

Field Evaluation: Post-treatment inventory, measurements, notes, as-built, and supporting documentation (document completion in conservation plan), as required.
Map(s): Including field numbers, fields treated, and units treated (may document on conservation plan map), as required.
Photos or other supporting documentation (e.g., seed tags, soil tests, receipts, invoices, spray records, fertilizer records, etc.)
Brief Description of Work Accomplished (types of equipment used, date of application, extendand quantities installed, etc.)

Certification Statement:

The employee certifies the implementation of this conservation practice:

- Meets the purpose, general criteria, and any required additional criteria as documented in the conservation practice standard and/or enhancement sheet.
- Meets the specifications contained herein and is complete.
- Conforms to my existing Job Approval Authority controlling factors and levels.

Name	Date	Job Approval Authority

Field Level Certification – For multiple applications of this design.				
Land Unit/ Contract	Date	Unit(s)	Amount	Certifier
Item Number			Installed	

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