

CONSERVATION ENHANCEMENT ACTIVITY

E329D



No till system to increase soil health and soil organic matter content

Conservation Practice 329: Residue & Tillage Management, No Till

APPLICABLE LAND USE: Crop (Annual & Mixed)

RESOURCE CONCERN: Soil

ENHANCEMENT LIFE SPAN: 1 Year

Enhancement Description

Establish a no till system to increase soil health and soil organic matter content. Each crop in the crop rotation shall have a Soil Tillage Intensity Rating (STIR) of no greater than 20. The crop rotation must achieve a soil conditioning index (SCI) of zero or higher. The current NRCS wind and water erosion prediction technologies must be used to document STIR and SCI calculations. Residue shall not be burned, grazed, or harvested.

Criteria

- All residues must be uniformly distributed over the entire field. Removing residue from the row area prior to or as part of the planting operation is acceptable.
- Residue must not be burned, grazed, or harvested.
- 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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Evaluation of the cropping system (management)
using the current approved soil conditioning index
(SCI) procedure results in zero or higher <u>and</u> results
in a positive trend in the Organic Matter (OM)
subfactor value over the life of the rotation.

CONSERVATION STEWARDSHIP PROGRAM





Documentation and Implementation Requirements



Do	articipant will:								
	Pric	or to im	plementatio	n, provide NRCS with	n the plan	ned crop ro	tation ar	nd tillage	
Fi	eld	Acres Planned Crops (in sequence)			_	n of Crop on (year <mark>s)</mark>			
Fi	eld		Crop	Fie	eld Operati	on		Ope	g of Field ration th/year)
								//	
				n, notify NRCS of any e planned system me	•	_		Ţ	n, or field
	Dur	ing imp	lementation	n, no residue will be l	ourned, g	raze <mark>d, or h</mark> a	rvested.		
☐ During implementation, all residues will be uniformly distributed over the entire field. Removing residue from the row area prior to or as part of the planting operation is									
	acceptable.								
	□ 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 the rotation regardless of the depth of the tillage operation.								
	Afte	er imple	ementation,	if changes to the rot	ation wer	e made, co	mplete th	ne tables	above to
	doc	ument	the applied	crop rotation for the	contract	period and	provide t	to NRCS.	

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	NR	CS will: As needed, provide technical assistance t criteria of the enhancement.	o meet the	CONSERVATION STEWARDS PROGRAM			
		Prior to implementation, use information approved soil conditioning index (SCI) proresults in a positive trend in the Organic I rotation. SCI value = and OM su	ocedure to ver Matter (OM) s	ify the SCI is zero or highe ubfactor value over the lif	A STATE OF THE STA		
		During implementation, evaluate planned operations to verify the planned system in			d		
		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 calculate the Soil Tillage Intensity Rating values to document that the applied rotation met the enhancement criteria. STIR values for each crop =					
		After implementation, if the applied crop different than the planned crops, crop ro provided from the participant to calculate Matter (OM) subfactor values to docume enhancement criteria. SCI value =	tation, or fie <mark>ld</mark> e soil condition Int that the ap	l operations, use <mark>informat</mark> ning index (SCI) and Orgar plied rotation met the			
		Documentation Review:					
				ave de <mark>termined the</mark> partici quireme <mark>nts.</mark>	pant		
	Par	rticipant Name	Cor	ntract Number			
	Tot	tal Amount Applied	Fisc	cal Year Completed			
-	NR	CS Technical Adequacy Sign	Date				
	F22	OD. No till quetom to increase soil	Aug.:=± 20:	10	Doga I 4		
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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.					
Date	Unit(s)	Amount	Certifier		
		Installed			
			Date Unit(s) Amount		

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