CONSERVATION ENHANCEMENT ACTIVITY

E329A



No till to reduce soil erosion

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 no till system to reduce sheet and rill and wind erosion soil loss. Field(s) must have a soil loss at or below the soil tolerance (T) level for water and wind erosion for the crop rotation and a Soil Tillage Intensity Rating (STIR) of no greater than 10 for each crop in the planned rotation. The current NRCS wind and water erosion prediction technologies must be used to calculate soil loss and STIR.

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.
- Field(s) must have a soil loss at or below the soil tolerance (T) level for water and wind erosion for the crop rotation (average annual soil loss).
- 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.
- The Soil Tillage Intensity Rating value must 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

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periods). Each crop must have a Soil Tillage Intensity Rating value of no greater than 10.



- Use the current approved water and wind erosion prediction technology to determine the:
 - o amount of randomly distributed surface residue needed;
 - o time of year the residue needs to be present in the field, and
 - amount of surface soil disturbance allowed to reduce erosion to the desired level.
- Calculations must account for the effects of other practices in the management system.





Documentation and Implementation Requirements

CONSERVATION STEWARDSHIP PROGRAM

Participant wil	

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

Fiel	d Acres	Planned Crops (in sequence)		Length of Crop Rotation (years)	
Fiel	d	Crop	Field Operation	Timing of Field Operation (month/year)	
			n, notify NRCS of any planned changes in crops, <mark>cro e planned system meets the enhancement criteria</mark>	•	
	ouring imp	olementation	n, no residue will be burned.		
F	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.				
t	erminatio	n of one cas	n, no full-width tillage may be pe <mark>rformed from</mark> the h crop to the time of harvest or te <mark>rmination of t</mark> he of the depth of the tillage operation.		
c	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.				
NRC	S will:				
		, provide tec	hnical assistance to meet the criteria of the enhar	ncement.	
S	Prior to implementation, use information provided from the participant to calculate the soil loss and the Soil Tillage Intensity Rating values using current NRCS wind and water erosion prediction technologies. Verify the enrolled field(s) will have a soil loss at or				



NRCS Technical Adequacy S

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	below the soil tolerance (T) level for water and wire erosion for the crop rotation and a Soil Tillage Intensity Rating value of no greater than 10 for each crop in the planned rotation. "T" =t/ac/year Soil erosion =t/	ch PF	TEW ROGRA		
	During implementation, evaluate planned changes operations to verify the planned system meets the	•	-		
	After implementation, if the applied crops, crop rodifferent than the planned crops, crop rotation, or provided from the participant to calculate soil loss values to document that the applied rotation met Soil erosion =t/ac/year and STIR values =	field ope and the S the enhar	rations, use Soil Tillage I ncement cr	e information Intensity Ra iteria.	
NRCS I	Documentation Review:				
	reviewed all required particly documentation are plemented the enhancement at the et all criteria			the p <mark>articip</mark>	ant
Par	rticipant Name	_ Contrac	t Number _	<u> </u>	
Tot	tal Amount Applied	Fiscal Ye	ear Compl <mark>e</mark>	ted	

Date

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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