

CONSERVATION ENHANCEMENT ACTIVITY

CONSERVATION STEWARDSHIP PROGRAM

E345C

Reduced tillage to increase plant-available moisture

Conservation Practice 345: Residue and Tillage Management, Reduced Till

APPLICABLE LAND USE: Crop (Annual & Mixed)

RESOURCE CONCERN: Water

ENHANCEMENT LIFE SPAN: 1 year

Enhancement Description:

Establish a reduced 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 80. 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:

- Uniformly distribute residues over the entire field. Removing residue from the row area prior to or as part of the planting operation is acceptable.
- Do not burn crop residues.
- Field must have an annual soil loss at or below the soil tolerance (T) level for the crop rotation.
- The Soil Tillage Intensity Rating (STIR) value MUST include all field operations that are performed during the crop interval between harvest of the previous cash crop and harvest or termination of the current cash crop (includes fallow periods). The crop STIR value rating shall be no greater than 80, and no primary inversion tillage implements (e.g. moldboard plow) shall be used.
- Maintain a minimum 60% surface residue cover throughout the year.

E345C - Reduced tillage to increase plant-	July 2019	Page 1
available moisture		



Documentation and Implementation Requirements

NRCS.

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□ Pri		plementatio	on, provide NRCS with the and tillage operation(s) used for	STEWAI PROGRAM		
Field Acre				such crop.	Length of Crop Rotation (years)	
					· · ·	
Field		Crop	Field Operation		Timing of Field Operation (month/year)	
			n, notify NRCS of any planned cha e planned system meets the e <mark>nha</mark>			
□ Du	iring imp	lementation	n, no residue will be burned.			
Re	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 primary inversion tillage implements (e.g. moldboard plow) will be used.					
			n, maintain a minimum 60 percer	nt surf <mark>ace residue</mark>	cover throughout	

E345C - Reduced tillage to increase plant-	July 2019	Page 2
available moisture		

☐ 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



United States Department of Agriculture

NF	CS will: As needed, provide technical assistance criteria of the enhancement.	to meet the		RVATION ARDSHIP AM
	Prior to implementation, use information soil loss, Soil Tillage Intensity Rating value current NRCS wind and water erosion profield(s) will have an annual soil loss at or Intensity Rating value of no greater than the estimated surface residue cover. "T" =t/ac/year Soil erosion STIR values for each crop in the rotation.	ues, and estima rediction techn r below the soil n 80 for each cr on =t/ n =t/	ited surface residuled surface residules. Verify the language of the language	due cover using he enrolled vel, a Soil Tillage
	Estimated surface residue cover for each	ch crop in the r	otation =	
	During implementation, evaluate planne operations to verify the planned system	_	= =	
	After implementation, if the applied crothan the planned crops, crop rotation, of from the participant to calculate soil loss surface residue cover to document that Soil erosion =t/ac/year STIR values for each crop in the rotation Estimated surface residue cover for each	r field operations, Soil Tillage In the applied rote appl	ons, use informa ntensity Rating v tation met the e	ti <mark>on the prov</mark> ided <mark>alues, and e</mark> stimated
NRCS	Documentation Review:			
	reviewed all required participant docume plemented the enhancement and met al			the <mark>participant</mark>
Pa	rticipant Name	Co	ntract Number _	
То	tal Amount Applied	Fis	cal Year <mark>Comple</mark>	ted
NF	CS Technical Adequacy Signature	Date		
	ISC - Reduced tillage to increase plantilable moisture	July 2	019	Page 3