

NATURAL RESOURCES CONSERVATION SERVICE
MONTANA CONSERVATION PRACTICE JOBSHEET

**RESIDUE AND TILLAGE MANAGEMENT
NO TILL/STRIP TILL/DIRECT SEED (ACRE)**

CODE 329

Landowner _____ Field/Management Unit _____ Date _____

Legal Description _____ Contract Item Number _____ Area (Acres) _____ Job Class _____

PURPOSE OF ESTABLISHMENT (CHECK ALL THAT APPLY)

- Reduce water erosion
- Reduce wind erosion
- Reduce CO₂ losses from soil
- Reduce soil particulate emissions
- Increase plant-available moisture
- Improve soil organic matter content
- Provide food and escape cover for wildlife

TABLE 1. DESIGN (AND APPLICATION RECORD)

TRACT/ FIELD	CROP TO BE PLANTED	PREVIOUS CROP RESIDUE	ORIENTATION, STANDING OR FLAT	HEIGHT (INCHES)	CRITICAL SEASON(S)	POUNDS OF RESIDUE		PERCENT OF RESIDUE	
						PLANNED	APPLIED	PLANNED	APPLIED

NOTES: If residue is managed for wildlife benefits, describe planned wildlife provisions. Also use this space to describe row direction, grade restrictions, or other site-specific requirements.

Soil Conditioning Index (SCI) _____ **Calculated SCI Value:** _____

SCI provides an indication of the soil condition trend based on planned management. Positive values indicate an upward trend. Negative values indicate a downward trend. The values are based on how crops and management affect soil organic matter content.

Soil Tillage Intensity Rating (STIR)	Calculated STIR Value: _____
<p>STIR provides an indication of soil quality based on the cropping system used. Excessive tillage breaks down soil quality requiring increases in fertilizer to maintain yields and soil health. A lower number represents a healthier soil trend where a higher number means soil health is being compromised.</p>	

TABLE 2. DESIGN WORKSHEET FOR ESTIMATING CROP RESIDUE PRODUCED (FOR PLANNED ROTATION)						
COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7
CROP	HARVEST UNITS	YIELD	LBS. RESIDUE/ UNIT YIELD	EST. LBS. RESIDUE/ACRE	EST. % GROUND COVER	INSTRUCTIONS TO ESTIMATE VALUES FOR COLUMNS 5 AND 6
						Multiply Column 3 x Column 4 to estimate total Pounds of Residue available after harvest. FOTG, Section I, Erosion Prediction, Page 42, can be used to convert Pounds of Residue/Acre (Column 5) to Percent Ground Cover (Column 6).
NOTES:						
Information in Column 7 is used in TABLE 3 as an estimate of beginning ground cover for each crop in the rotation.						

