



345 Residue and Tillage Management, Reduced Till Implementation Requirements

Producer:

Project or Contract:

Location:

County:

Farm Name:

Tract Number:



This practice applies to all cropland. This practice includes tillage methods commonly referred to as mulch tillage or conservation tillage where the entire soil surface is disturbed by tillage operations such as chisel plowing, field cultivating, tandem disking, or vertical tillage. It also includes tillage/planting systems with few tillage operations (e.g. ridge till) but which do not meet the STIR criteria for Residue and Tillage Management - No Till (code 329).

Gopher State One Call Utility Service 651-454-0002 or 800-252-1166

Practice Purpose (check all that apply)

- Reduce sheet, rill, and wind erosion.
- Reduce tillage-induced particulate emissions.
- Maintain or increase soil quality and organic matter.
- Reduce energy use.
- Increase plant-available moisture.

Description of Work

**345 – Residue and Tillage Management, Reduced Tillage  
Implementation Requirements**

**Attach a RUSLE2 Profile printout or a WEPS printout that displays:**

1. Planned crop(s).
2. Specific equipment operations for each crop.
3. The planned residue amounts: (1) after harvest of the prior crop and (2) for planned residue cover after seeding the planned crop.
4. The Soil Tillage Intensity Rating (STIR) and Soil Condition Index (SCI).

**Additional Specifications to Increase Plant-Available Moisture (check all that are appropriate)**

**Reducing Evaporation from the Soil Surface.** Maintain a minimum 60 percent surface residue cover throughout the year.

**Trapping Snow.** Fall tillage operation shall leave the crop stubble in an upright position. Maintain a crop stubble height during the time significant snowfall is expected to occur to:

- At least 10 inches for crops with a row spacing of less than 15 inches;
- At least 15 inches for crops with a row spacing of 15 inches or greater.

Maintain these heights over at least 50% of the field.

Conduct fall tillage operations as close as possible to perpendicular to the direction of prevailing winds during the time that significant snowfall is expected to occur.

**Operation and Maintenance**

Evaluate/measure the crop residues cover and orientation for each crop to ensure the planned amounts and orientation are being achieved. Adjust management as needed to either plan a new residue amount or orientation; or adjust the planting, tillage, or harvesting equipment.

**Attachments**

**RUSLE2 and/or WEPS Printouts**

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**Practice Specifications Approval and Completion Certification**

**Provided Practice Cost information**

Site-specific cost estimate, or specifications for the producer to develop a cost estimate or obtain the bid themselves.

**Design Installation and Layout Approval**

Designed by: \_\_\_\_\_ Date: \_\_\_\_\_ Job Approval Authority: \_\_\_\_\_

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Job Approval Authority: \_\_\_\_\_

**Record of Completion and Check Out Certification**

Treated Acres	Date Completed by Client	Date Certified	Approver's Initials

Additional documentation to support practice certification is located in the Case File.

**Certification Statement**

I certify that implementation of this conservation practice is complete, meets criteria for the stated purpose(s), and meets the NRCS conservation practice standard and specifications.

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_ Job Approval Authority: \_\_\_\_\_

Signature: \_\_\_\_\_

Notes: \_\_\_\_\_