



United States  
Department of  
Agriculture

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

**Producer:** \_\_\_\_\_

**Project or Contract:** \_\_\_\_\_

**Location:** \_\_\_\_\_

**County:** \_\_\_\_\_

**Farm Name:** \_\_\_\_\_

**Tract Number:** \_\_\_\_\_

Attach a copy of the conservation plan map from the official Natural Resource Conservation Service (NRCS) mapping software denoting field boundary, field number, land use, acres, and north arrow per National Planning Procedures Handbook, Section 600.31.

**Description of work:**

**Practice Purpose(s):** (check all that apply)

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

**Complete the following table** (or attach the wind or water erosion software printouts with the same information):

<b>Field(s):</b>			
<b>Planned crop(s)</b>	<b>Amount of residue produced by each crop (lbs/acre or % surface cover)</b>	<b>List ALL fields operations or activities that affect residue cover, residue orientation, or surface disturbance</b>	<b>Operation or activity timing (month)</b>

**Amount of residue and timing of residue cover required to accomplish the purpose(s):**

<b>Planned crop(s)</b>	<b>Amount of residue required (lbs/acre or % surface cover)</b>	<b>Time of year residue must be present (month)</b>

**Soil tillage intensity rating (STIR) value to accomplish purpose(s); must be < 80**

**Soil conditioning index (SCI) value to accomplish purpose(s)**

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

- Reducing evaporation from the soil surface.** Maintain a minimum 70 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 percent 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 achieved.
- Adjust management as needed to either plan a new residue amount or orientation, or adjust the planting, tillage, or harvesting equipment.
- If there are areas of heavy residue accumulation (because of movement by water or wind) in the field, spread the residue prior to planting so it does not interfere with planter operation.

**Attachments:**     Water Erosion Printouts and Wind Erosion Printouts

**Natural Resources Conservation Service (NRCS) representative or Technical Service Provider (TSP)**

Layout By: \_\_\_\_\_ Date \_\_\_\_\_

Designed By: \_\_\_\_\_ Date \_\_\_\_\_

Checked By: \_\_\_\_\_ Date \_\_\_\_\_

Approved By: \_\_\_\_\_ Date \_\_\_\_\_

**Producers Statement**

The design of this practice and operation and maintenance (O&M) have been discussed with me, and I concur with the design and agree to perform the necessary O&M for the life of the practice. **Changes are not allowed without approval of the NRCS representative or the TSP.**

\_\_\_\_\_  
**Producer**

\_\_\_\_\_  
**Date**

**Certification**

This applied practice meets Kansas standards and specifications.

\_\_\_\_\_  
**NRCS Representative or TSP**

\_\_\_\_\_  
**Date**

This practice has been applied as designed.

\_\_\_\_\_  
**Producer**

\_\_\_\_\_  
**Date**