



**CONSERVATION ENHANCEMENT ACTIVITY**

**E345128Z**

**CONSERVATION STEWARDSHIP PROGRAM**

Reduced tillage to reduce tillage induced particulate matter

**Conservation Practice 345: Residue and Tillage Management, Reduced Till**

**APPLICABLE LAND USE: Crop (Annual & Mixed)**

**RESOURCE CONCERN ADDRESSED: Air Quality Impacts**

**PRACTICE LIFE SPAN: 1 year**

**Enhancement Description:**

Establish a reduced tillage system to reduce tillage induced particulate matter. Field(s) must have a soil loss at or below the soil tolerance (T) level for the crop rotation and a Soil Tillage Intensity Rating (STIR) of no greater than 40 for each crop in the planned rotation. The current NRCS wind and water erosion prediction technologies must be used to document soil loss and STIR calculations.

**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.
- The Soil Tillage Intensity Rating (STIR) value shall 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 40, and no primary inversion tillage implements (e.g. moldboard plow) shall be used.
- Reduce or modify tillage operations that create dust, especially during critical air quality periods.
- Adopt tillage practices that reduce particulate emissions.



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### Documentation Requirements

- Residue and Tillage Management, Reduced till, 345, Implementation Requirements document must be completed per the Plans and Specifications for the planned purpose.
- The current NRCS wind and water erosion prediction technologies must be used to calculate soil loss and STIR.