



**CONSERVATION ENHANCEMENT ACTIVITY**

**E329128Z**

**CONSERVATION STEWARDSHIP PROGRAM**

No till to reduce tillage induced particulate matter

**Conservation Practice 329: Residue and Tillage Management, No Till**

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

**RESOURCE CONCERN ADDRESSED: Air Quality Impacts**

**PRACTICE LIFE SPAN: 1 Year**

**Enhancement Description**

Establish no till 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 10 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**

- Residue shall not be burned.
- All residues shall be uniformly distributed over the entire field. Removing residue from the row area prior to or as part of the planting operation is acceptable.
- Field(s) must have an average annual soil loss at or below the soil tolerance (T) level for the crop rotation.
- No full-width tillage is performed from the time of harvest or termination of one cash crop to the time of harvest or termination of the next cash crop in the rotation regardless of the depth of the tillage operation. The Soil Tillage Intensity Rating (STIR) value shall include all field operations that are performed during the crop interval between harvest or termination of the previous cash crop and harvest or termination of the current cash crop (includes fallow periods). Each crop must have a STIR value of no greater than 10.



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- Use the current approved water and/or wind erosion prediction technology to determine the:
  - amount of randomly distributed surface residue needed;
  - time of year the residue needs to be present in the field, and
  - amount of surface soil disturbance allowed to reduce erosion to the desired level.
- Calculations shall account for the effects of other practices in the management system.

### **Documentation Requirements**

- Residue and Tillage Management, No till, 329, 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 value.