Practice: E329101Z - No till to reduce water erosion

Scenario: #1 - No till to reduce water erosion

Scenario Description: Establish no till system to reduce sheet and rill erosion soil loss. Field(s) must have a soil loss at or below the soil tolerance (T) level for water erosion for the crop rotation and a Soil Tillage Intensity Rating (STIR) of no greater than 10 for each crop in the planned rotation. RUSLE2 must be used to calculate soil loss and STIR.

Before Situation: Resources are protected at the minimum level of the Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

After Situation: The adoption of this enhancement will provide resource protection above the minimum level as described in Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

Scenario Feature Measure: Acre

Scenario Unit: Acre

Scenario Typical Size: 100

Total Scenario Cost: $298.05

Scenario Cost/Unit: $2.98

Cost Details

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Id</th>
<th>Description</th>
<th>Unit</th>
<th>Cost</th>
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<td>235</td>
<td>Labor requiring a specialized skill set: Includes Agronomists, Foresters, Biologists, etc. to provide additional technical information during the planning and implementation of the practice. Does not include NRCS or TSP services.</td>
<td>Hour</td>
<td>$99.35</td>
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<td>$298.05</td>
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Practice: E329106Z - No till system to increase soil health and soil organic matter content

Scenario: #1 - No till system to increase SH and SOM

Scenario Description: Establish a reduced till system to increase soil health and soil organic matter content. Each crop in the crop rotation shall have a Soil Tillage Intensity Rating (STIR) of no greater than 20. The crop rotation must achieve a soil conditioning index (SCI) of zero or higher and produce a positive trend in the Organic Matter (OM) subfactor over the life of the crop rotation. RUSLE2 or WEPS must be used to document STIR and SCI calculations. Residue shall not be burned, grazed, or harvested.

Before Situation: Resources are protected at the minimum level of the Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

After Situation: The adoption of this enhancement will provide resource protection above the minimum level as described in Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

Scenario Feature Measure: Acre

Scenario Unit: Acre

Scenario Typical Size: 100

Total Scenario Cost: $397.40

Scenario Cost/Unit: $3.97

Cost Details

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<thead>
<tr>
<th>Component Name</th>
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<td>Hour</td>
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**Practice**: E329114Z - No till to increase plant-available moisture: irrigation water

**Scenario**: #1 - No till for IWM

**Scenario Description**: Establish a no till system to increase plant-available moisture. Each crop in the crop rotation shall have a Soil Tillage Intensity Rating (STIR) of no greater than 20. RUSLE2 or WEPS must be used to document STIR calculations. Maintain a minimum 60 percent surface residue cover throughout the year to reduce evaporation from the soil surface.

**Before Situation**: Resources are protected at the minimum level of the Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

**After Situation**: The adoption of this enhancement will provide resource protection above the minimum level as described in Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

**Scenario Feature Measure**: Acre

**Scenario Unit**: Acre

**Scenario Typical Size**: 100

**Total Scenario Cost**: $298.05

**Scenario Cost/Unit**: $2.98

**Cost Details**

<table>
<thead>
<tr>
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<td>Hour</td>
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<td>$298.05</td>
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</table>
**Practice:** E329115Z - No till to increase plant-available moisture: moisture mgmt

**Scenario:** #1 - No till for moisture mgmt

**Scenario Description:** Establish a no till system to increase plant-available moisture. Each crop in the crop rotation shall have a Soil Tillage Intensity Rating (STIR) of no greater than 20. RUSLE2 or WEPS must be used to document STIR calculations. Maintain a minimum 60 percent surface residue cover throughout the year to reduce evaporation from the soil surface.

**Before Situation:** Resources are protected at the minimum level of the Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

**After Situation:** The adoption of this enhancement will provide resource protection above the minimum level as described in Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

**Scenario Feature Measure:** Acre

**Scenario Unit:** Acre

**Scenario Typical Size:** 100

**Total Scenario Cost:** $298.05

**Scenario Cost/Unit:** $2.98

**Cost Details**

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Practice: E329128Z - No till to reduce tillage induced particulate matter

Scenario: #1 - No till to reduce PM

Scenario 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. RUSLE2 or WEPS must be used to document soil loss and STIR calculations.

Before Situation: Resources are protected at the minimum level of the Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

After Situation: The adoption of this enhancement will provide resource protection above the minimum level as described in Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

Scenario Feature Measure: Acre

Scenario Unit: Acre

Scenario Typical Size: 100

Total Scenario Cost: $298.05

Scenario Cost/Unit: $2.98

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<td>Biologists, etc. to provide additional technical information during the</td>
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Practice: E329144Z - No till to reduce energy

Scenario: #1 - No till to reduce energy

Scenario Description: Establish a no till system which reduces total energy consumption associated with field operations by at least 25% compared to current tillage system (benchmark). Each crop in the crop rotation shall have a Soil Tillage Intensity Rating (STIR) of no greater than 20. The current NRCS wind and water erosion prediction technologies must be used to document STIR calculations and energy consumption.

Before Situation: Resources are protected at the minimum level of the Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

After Situation: The adoption of this enhancement will provide resource protection above the minimum level as described in Conservation Practice Standard (CPS) 329 - Residue and Tillage Management - No-Till/ Strip Till/ Direct Seed

Scenario Feature Measure: Acre

Scenario Unit: Acre

Scenario Typical Size: 100

Total Scenario Cost: $397.40

Scenario Cost/Unit: $3.97

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