**alliance practice worksheet**

ARKANSAS

Residue & tillage management no till (329)

*The conditions and specifications below are adapted from the Natural Resources Conservation Service. Producers who are installing these practices under the Alliance will use the conditions and implementation guides below but are exempt from NRCS verification and certification. Completing the Purposes and Practice Specifications on this document is sufficient to self-verify practice installation and completion.*

# Farm Info

|  |  |
| --- | --- |
| Producer Name |  |
| County (Farm Location) |  |
| FSA Farm Number |  |
| FSA Field Number(s) |  |
| FSA Tract Number(s) |  |
| Practice Status:*If a practice has not yet been implemented, select Planned**If a practice has been implemented, select Applied* | [ ]  Planned | [ ]  Applied |
| Planned Date of IMPLEMENTATION: | Date Practice was APPLIED: |

# PRACTICE: residue & tillage management no till (329)

**DEFINITION:** Limiting soil disturbance to manage the amount, orientation and distribution of crop and plant residue on the soil surface year around.

**MINIMUM REQUIREMENTS FOR RESIDUE & TILLAGE MANAGEMENT, NO TILL (329):**

[Conservation Practice Standard Residue and Tillage Management, No Till (Code 329) (usda.gov)](https://efotg.sc.egov.usda.gov/api/CPSFile/9796/329_AR_CPS_Residue_and_Tillage_Management-No_Till)

**AT A MINIMUM, PRODUCERS WILL PROVIDE A RECORD OF THE FOLLOWING:**

* Purpose for applying the practice.
* Planned crop(s).
* Amount of residue produced by each crop.
* All field operations or activities that affect
	+ Residue orientation including height (where applicable).
	+ Surface disturbance.
	+ The amount of residue (pounds/acre or percent surface cover) required to accomplish the purpose, and the time of year it must be present.
* Planned soil tillage intensity rating STIR value, soil condition index value, and erosion rate.
* Target species for wildlife, if applicable.
* Benchmark and planned fuel consumption, if applicable.

# GENERAL CRITERIA APPLICABLE TO ALL PURPOSES

Residue shall not be burned.

Distribute all residues uniformly over the entire field. Removing residue from directly within the seeding or transplanting area prior to or as part of the planting operation is acceptable.

This practice only involves an in-row soil disturbance operation during strip tillage, the planting operation, and a seed row/furrow closing device. There is no full-width soil disturbance performed from the time immediately following harvest or termination of one cash crop through 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 and termination of the previous cash crop and harvest or termination of the current cash crop (includes fallow periods). The crop interval STIR value shall be no greater than 20.

# Additional criteria to reduce sheet, rill and wind erosion, reduce excessive sediment in surface waters, and reduce tillage-induced particulate emissions.

Use the current approved water and wind erosion prediction technology to determine the if field operations planned provide the amount of randomly distributed surface residue needed, time of year 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.

# additional criteria to maintain or increase soil health and organic matter content.

Ensure the soil condition index (SCI) for the cropping system results in a positive rating.

# additional criteria to increase plant-available moisture.

Maintain a minimum of 60 percent residue cover on the soil surface throughout the year.

# additional criteria to reduce energy use.

Reduce the total energy consumption associated with field operations by at least 25 percent compared to the benchmark condition. Use the current approved NRCS tool for determining energy use to document energy use reductions.

# additional criteria to provide food and escape cover for wildlife.

Use an approved habitat evaluation procedure to determine when residue needs to be present, and the amount, orientation, and stubble height needed to provide adequate food and cover for target species.

# PRACTICE CERTIFICATION DOCUMENTATION

**Field Operations –** *The practice is certified complete at time of new planting based on the treatment of the residue and tillage practices associated with previous crop’s residue.*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Acres** | **Crop Planted** | **Date of Planting*****Month/Year*** | **Residue at Planting *(Prior crop)*** | **Amounts of residue *(lbs./ac or % surface cover)*** | **Residue Height *(inches)*** |
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| --- | --- | --- |
|  | **Yes** | **No** |
| **The crop residues on the identified fields were not burned.** |[ ] [ ]
| **There was no mechanical tillage completed in the identified fields and acres between the harvest of the prior crop and the planting of the current crop.** |[ ] [ ]
| **The Soil Intensity Rating (STIR) for the crop interval on each identified field was no greater than 20.** |[ ] [ ]

|  |
| --- |
| Notes:Click or tap here to enter text. |

# PRODUCER SELF-CERTIFICATION

By signing below, I certify that I have reviewed all required documentation and have implemented the practice and met all criteria and requirements as defined in the Natural Resources Conservation Service **RESIDUE & TILLAGE MANAGEMENT, NO TILL (329)** standard and specifications for the identified acres or animal units.

Further, I agree that:

[ ]  I have not received a payment for this conservation practice on these fields and acres from another USDA Conservation Program or another USDA Partnership for Climate-Smart Commodities grant partner.

[ ]  I will retain all practice documentation to support this certification for up to 12 months following practice adoption and will provide this documentation to the Alliance if selected for a spot check. *(Up to 10% of enrolled Alliance participants will be randomly selected for spot checks).*

|  |  |
| --- | --- |
| ***Participant Name:*** |  |

|  |  |
| --- | --- |
| ***Participant Signature:*** |  |

|  |  |
| --- | --- |
| ***Date:*** |  |