**alliance practice worksheet**

MINNESOTA

CONSERVATION CROP ROTATION (328)

*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

|  |  |
| --- | --- |
| Name | Click or tap here to enter text. |
| County | Click or tap here to enter text. |
| Alliance Contract Number | Click or tap here to enter text. |
| Field Number(s) | Click or tap here to enter text. |
| Tract Number(s) | Click or tap here to enter text. |
| Practice Area | Click or tap here to enter text. |

# PRACTICE: CONSERVATION CROP ROTATION (328)

**DEFINITION:**A planned sequence of crops grown on the same ground over a period of time (i.e. the rotation cycle).

**CONDITIONS WHERE PRACTICE APPLIES:** This practice applies to all cropland where at least one annually-planted crop is included in the crop rotation.

See [*https://efotg.sc.egov.usda.gov/#/state/MN/documents/section=4&folder=-43*](https://efotg.sc.egov.usda.gov/#/state/MN/documents/section=4&folder=-43)to access the NRCS Conservation Practice Standard.

**NOTE:** *Producers are eligible to enroll this practice in the Alliance pilot for new implementation or enhancement of the existing crop rotation through the addition of a different conservation crop with planting of the selected high residue crop during the Alliance contract year. The crop on the field being paid must be a high residue-producing crop; the crops listed in Table 2 (see end of worksheet) are considered conservation crops for this practice.*

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

* Field number and acres
* The sequence of crops to be grown,
* The crop types to be grown,
* Tillage type and times,
* The length of time each crop/crop type will be grown in the rotation, and
* Total length of rotation
* Soil conditioning index (SCI) value of implementation year

# GENERAL CRITERIA APPLICABLE TO ALL PURPOSES

* Crops shall be grown in a planned sequence as outlined in Plans and Specifications. The crop rotation shall include a minimum of three different crops. The addition of the third crop to an existing two crop rotation must include a “high residue” producing crop from Table 2, below. For purposes of these criteria a cover crop is considered a different crop.
* Where applicable, plan suitable crop substitutions when the planned crop cannot be planted due to weather, soil conditions, or other local situations.
* Crop planted on the contracted field(s) during the contract year shall be a high residue crop as listed in Table 2.
* Grow crops that will produce a positive trend in the Organic Matter (OM) subfactor value of the year the high residue crop is utilized in the rotation, as determined by the Soil Conditioning Index. Make appropriate adjustments for additions to or subtractions from biomass.

# Current Management: Crop rotation

Example: C-C-Sb, C-Sb, Hay x4-C-Sb

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Acres | Planned Crops (In Sequence | Length of Each Crop in the Rotation (years) | Crop Type – Warm Grass, Cool Grass, Warm Broadleaf, Cool Broadleaf | Total Length of Rotation in Years |
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# Current Management: field operations

Field operations include herbicide, fertilizer, termination, harvest, etc.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Acres | Type of Tillage | Time of Tillage (month/year) | Crop |
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# Planned Management – Crop Rotation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Acres | Planned Crop | Substitute Crop | Additional Criteria |
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# Planned Management – Field Operations

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| --- | --- | --- | --- | --- |
| Field | Acres | Type of Tillage | Time of Tillage (month/year) | Crop |
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# Operation and Maintenance

* Rotations shall provide for acceptable substitute crops in case of crop failure or shift in planting intentions for weather related or economic reasons. Acceptable substitutes are crops having similar properties that will accomplish the purpose of the original crop.
* Evaluate the rotation and the crop sequence to determine if the planned system is meeting the planned purposes.

# Planned crop substitutions

|  |  |  |  |
| --- | --- | --- | --- |
| **Field(s)** | **Planned crop** | **Substitute crop** | **Additional criteria (e.g., may need a cover crop)** |
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\*RUSLE2 reports can be utilized and attached to practice worksheet in lieu of completing the above tables.

Soil conditioning index (SCI) value of implementation year: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| *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 **CONSERVATION CROP ROTATION (328)** standard and specifications for the identified acres or animal units.

Further, I agree that:

[ ]  I am not currently receiving a payment for this conservation practice on these fields and acres from another USDA Conservation Program, another USDA Partnership for Climate-Smart Commodities grant partner, or a state cost-share program.

[ ]  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:*** | Click or tap here to enter text. |

|  |  |
| --- | --- |
| ***Participant Signature:*** | Click or tap here to enter text. |

|  |  |
| --- | --- |
| ***Date:*** | Click or tap to enter a date. |

**Table 2: High Residue Producing Annual Crops**

The following are high residue-producing crops:

|  |  |
| --- | --- |
| * Barley
 | * Oats
 |
| * Buckwheat
 | * Popcorn
 |
| * Cereal Rye
 | * Sorghum
 |
| * Corn (grain)
 | * Sorghum/Sudangrass
 |
| * Flax
 | * Spring Wheat
 |
| * Millet
 | * Triticale
 |

 All other annual crops are low-residue crops