



## CROSS WIND TRAP STRIPS (589C)

### CROSS WIND TRAP STRIPS

Herbaceous cover established in one or more strips typically perpendicular to the most erosive wind events.

### PURPOSE

This practice supports one or more of the following purposes:

- Reduce soil erosion from wind and wind-borne sediment deposition.
- Induce snow deposition to improve soil moisture management.
- Improve plant health by protecting the growing crops from damage by wind-borne soil particles.
- Improve air quality by reducing the generation of airborne particulate matter.



based on the practice purpose and estimated soil erosion rates.

### CONDITIONS WHERE PRACTICE APPLIES

This practice applies to cropland or other land susceptible to wind erosion during the critical erosion period.

### PLANNING REQUIREMENTS

Cross wind trap strips are most effective when used in combination with other practices in a conservation management system to reduce wind erosion.

Trap strips are located upwind from the areas protected.

Orientation of trap strips during critical erosion periods should be located perpendicular to prevailing erosive wind direction.

Trap strips vegetation may consist of perennial or annual species. The location, width, number of trap strips and minimum height of vegetation is determined

### PLANS AND SPECIFICATIONS

The following plans and specifications for establishment and maintenance of this practice shall be prepared for each field or treatment unit:

- Purpose(s) of the trap strips.
- Location and orientation of trap strips.
- Width of the trap strip(s).
- Width of the crop interval or distance between trap strips.
- Seedbed preparation, timing, and seeding method.
- Liming and fertilizer applications, where applicable shall include form, rates, timing and method of application of soil amendments
- Species selected and seeding rates based on pure live seeds.

Height of vegetation to be maintained during the critical crop stage periods.

## **OPERATION AND MAINTENANCE**

After establishment, perennial trap strips shall be fertilized as needed to maintain plant vigor.

Noxious weeds shall be controlled.

Mowing or grazing of trap strips shall be managed to allow re-growth to the planned height before periods when wind erosion or crop damage is expected to occur.

Wind-borne sediment accumulated in trap strips shall be removed and distributed over the surface of the field as determined appropriate and trap strips shall be re-established if necessary.

Trap strips shall be re-established or relocated as needed to maintain plant density, width, and height.

Periodically evaluate the trap strip effectiveness to meet the planned purpose(s).

## CROSS WIND TRAP STRIPS DOCUMENTATION WORKSHEET

Client Name: \_\_\_\_\_

Farm Number: \_\_\_\_\_

Tracts: \_\_\_\_\_

**Practice Purpose(s):** (check all that apply)

- Reduce soil erosion from wind and wind-borne sediment deposition.
- Induce snow deposition to improve soil moisture management.
- Improve plant health by protecting the growing crops from damage by wind-borne soil particles.
- Improve air quality by reducing the generation of airborne particulate matter.

**Design Soil Map Unit:** \_\_\_\_\_ **Texture:** \_\_\_\_\_ **Field Width (ft.):** \_\_\_\_\_

**Prevailing Wind Direction (degrees):** \_\_\_\_\_ **Design Critical Erosion Period (mo):** \_\_\_\_\_

<b>Field Number:</b>			
<b>Design Factors</b>	<b>Strip 1</b>	<b>Strip 2</b>	<b>Strip 3</b>
1. Contributing area (acres) upslope of trap strip			
2. Wind erosion (T/A/Y)			
3. Trap strip width (ft.)			
4. Vegetative height (ft.)			

<b>Field Number:</b>			
<b>Seeding Plan</b>			
<b>Species</b>	<b>Seeding rate PLS (lb. / ac.)</b>	<b>Seeding date</b>	<b>Recommended fertilizer (N-P-K lbs. / ac.)</b>
1.			
2.			
3.			
Method of seeding/planting			
Other comments:			

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## COST SHARE DOCUMENTATION FOR CASE FILE

Before payment is made, the following information is required to be in the case file:

- Plan or location map, or photograph of the field and documentation of practice layout according to plans and specifications is present in the client case file and include the following:
- Field verification is documented and a certified planner verified "as installed" this practice meets NRCS standards and specifications.

Planned acres: \_\_\_\_\_

Applied acres: \_\_\_\_\_

### Practice Certification (NRCS USE ONLY)

I certify that the practice as installed is complete and meets the applicable Wisconsin NRCS Conservation Practice Standard and all applicable practice specifications. Any changes to the original practice design have been approved and are documented on the original practice design "as installed."

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Certified Planner (print)

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Certified Planner (sign)

Date