

CONSERVATION ENHANCEMENT ACTIVITY

E340H



Cover crops to suppress excessive weed pressures and break pest cycles

Conservation Practice 340: Cover Crop

APPLICABLE LAND USE: Crop (Annual & Mixed); Crop (Perennial)

RESOURCE CONCERN: Plants

ENHANCEMENT LIFE SPAN: 1 Year

Enhancement Description

Establish a cover crop mix to suppress excessive weed pressures and break pest cycles. Select cover crop species for their life cycles, growth habits, and other biological, chemical and/or physical characteristics. Select cover crop species that do not harbor pests or diseases of subsequent crops in the rotation. Cover crop shall not be harvested, grazed, or burned.

Criteria

- Plant species, seedbed preparation, seeding rates, seeding dates, seeding depths, fertility requirements, and planting methods will be consistent with applicable local criteria and soil/site conditions (REFER TO STATE SPECIFIC LISTS).
- Determine method and timing of cover crop termination to meet grower's objective and current NRCS Cover Crop Termination Guidelines.
- Select species that are compatible with other components of the cropping system.
- Ensure herbicides used with crops are compatible with cover crop selections.

E340H - Cover crops to suppress excessive	April 2021	Page 1
weed pressures and break pest cycles		



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 Cover crops may be established between successive production crops, or companionplanted or relay-planted into production crops.
 Select species and planting dates that will not compete with production crop yield or harvest.



- Do not burn cover crop residue.
- Do not harvest or graze cover crop.
- If specific rhizobium bacteria for selected legumes are not present in the soil, treat seed
 with appropriate inoculum at time of planting.
- Select cover crop species that do not harbor pests or diseases of subsequent crops in the rotation. Select cover crop species for their life cycles, growth habits, and other biological, chemical and or physical characteristics to provide one or more of the following:
 - o To suppress weeds or compete with weeds.
 - Break pest life cycles or suppress of plant pests or pathogens.
 - o Provide food or habitat for natural enemies of pests.
 - Release compounds such as glucosinolates that suppress soil borne pathogens or pests.

ND Sideboards:

The identified pest(s) of concern will be documented in the case file.

The cover crop will be composed of the needed crop types to address the identified pest management resource concern(s).

Refer to the ND CPA-340 Cover Crop worksheet for county average first frost dates (28° F) for the county. Plan cover crop seeding to allow at least 4 weeks growth prior to the average first frost date (28° F).

Broadcast application of cover crops, including; aerial, ground spreader (air or mechanical) application without incorporation of the cover crop into the soil is not allowed.

Producer will supply a map of where the cover crop was planted and a picture of growth.

E340H - Cover crops to suppress excessive	April 2021	Page 2
weed pressures and break pest cycles		



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<u>Documentation and Implementation Requirements</u> Participant will:

☐ Prior to implementation, provide NRCS with the current and planned crop rotation and field operation(s) used for each crop.

CONSERVATION STEWARDSHIP PROGRAM

Planned Management Rotation Including Cover Crop

Field	Planned Crops/Cover Crop (in sequence)	Planting Date	Harvest/Termination Date

Cover Crop Mix and Seeding Rate

Species	Variety	Seed Size	Typical Seeding Depth	Seeding Rate (PLS lbs/acre)	Percent of Mix (%)

Establishment and Management Considerations:

		1.00		
Task	Provide ir	nformation an	<mark>d</mark> details	
Seedbed Preparation		V		
Seeding Date				
Seeding Depth				
Seeding Method				
Fertilizer, as needed				
Weed Management, as needed			1	
Termination Date (window)				
Termination Method				

☐ Prior to implementation, read and follow current <u>NRCS Cover Crop Termination Guidelines</u>.

E340H - Cover crops to suppress excessive	April 2021	Page 3
weed pressures and break pest cycles		



United States Department of Agriculture

□ During implementation, notify NRCS of any planned changes in crops, crop rotation, or unharvested areas to verify the planned system meets the enhancement criteria. □ After implementation, if changes to the cover crop and crop rotation were made, complete the tables above to document the applied Cover Crop for the contract period and provide to NRCS. NRCS will: □ As needed, provide technical assistance in selecting cover crop mixes for the crop rotations or substitute species that would meet the criteria of the enhancement. □ As needed, provide additional assistance to the participant as requested. □ Prior to implementation, provide and explain the current NRCS Cover Crop Termination Guidelines. □ During implementation, evaluate planned adjustments in cover crop selected, timing in crop rotation, management, or field operations to verify the new system meets the enhancement criteria. □ After implementation, evaluate the applied crop rotation or management using information provided from the participant, if any variation to planned evaluation, document that the applied rotation met the enhancement criteria. NRCS Documentation Review: I have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements. Participant Name Contract Number Total Amount Applied Fiscal Year Completed			VATION RDSHIP
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E340H - Cover crops to suppress excessive	April 2021	Page 4
weed pressures and break pest cycles		