USDA Michigan CONSERVATION RESERVE PROGRAM CRP – CP16A

Natural Resources Conservation Service (NRCS)

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Photo courtesy of USDA NRCS

WHAT IS A SHELTERBELT?

Shelterbelts are linear plantings of multiple rows of trees or shrubs established for environmental purposes such as protecting farmsteads and livestock areas, saving energy, and to enhance wildlife habitat. Wildlife habitat is enhanced by providing travel corridors, nesting sites, food, and escape cover for many wildlife species.

ELIGIBILITY

To be eligible for this practice for the Conservation Reserve Program (CRP), the land must have a cropping history (4 out of 6 years from 1996 - 2001), and buildings or livestock areas need protection from wind.

If wildlife habitat is the only resource concern, the site is not eligible for a CRP Shelterbelt. However, the site may be eligible for a Field Windbreak (CP5A) through the Continuous Conservation Reserve Program, or it may be eligible for other USDA cost-share programs.

If the purpose of the shelterbelt is to protect growing plants, minimize wind erosion, or manage snow, the site <u>is not</u> eligible for a CRP CP16A. However, the site may be eligible for a Field Windbreak (CP5A) or a Living Snow Fence (CP17A) through CRP, or it may be eligible for other USDA cost-share programs.

CRP POLICY

Shelterbelts will be installed according to the Windbreak/Shelterbelt Establishment Standard (380) in the local Field Office Technical Guide (FOTG).

For the Conservation Reserve Program, the maximum width of shelterbelts will be the minimum needed to protect farmsteads and livestock areas, according to the FOTG, regardless of the purpose of the shelterbelt (windbreak density of at least 65%). If requested by the producer, the shelterbelt may be applied up to 2 times the minimum design standard for protecting farmsteads or livestock areas for CRP.

The shelterbelt will be oriented perpendicular to the troublesome winds. The interval between new and existing shelterbelts, and the spacing between and within the rows will be determined based on the Design and Mature height of the species in the shelterbelt according to FOTG. The shelterbelt will be located at least 75 feet from the area to be protected, and will extend at least 85 feet beyond the area to be protected to avoid snow accumulation and drifting.

INSTALLATION

It is very important to prepare a weed-free and firm seedbed before planting the trees and shrubs, and cost-share is authorized for this component. It may be necessary to prepare the site the fall before planting the trees in the spring using tillage, herbicides, etc. Contact your local Michigan State University Extension Office for specific herbicide recommendations. All herbicides will be applied according to the label.

Plantings using bare-rooted stock and non-rooted cuttings should be completed in the spring after the ground thaws, but no later than June 1; or planted in the fall after October 1 until the ground freezes when soil moisture is adequate. Containerized and balled and burlap stock may be planted between October 1 and June 1 as local soil moisture and weather conditions permit.

Weed Control is also important to ensure survival and maximum growth of the trees <u>after</u> they are planted. Cost-share is authorized for one weed control application within 24 months after the trees are planted. A 3-foot radius around each tree should remain weed-free to maximize tree growth. Fabric weed barriers are very effective at minimizing weed competition, but are not eligible for CRP cost-share. **Mowing is not allowed for weed control for trees**.

A weed control method **between** rows is to plant noncompetitive grasses. **However, the 3-foot weed and grass-free radius around each tree will still need to be maintained to maximize tree growth**. Eligible grasses are found in the Conservation Cover Standard (327) in the FOTG. **Mowing of these grasses is not authorized**.

Livestock will be excluded without cost-share from all CRP shelterbelts.

CONSIDERATIONS

To assure proper alignment of rows and spacing, the shelterbelt will be staked or laid out prior to planting.

For optimum wildlife winter habitat, plant dense evergreen tree species such as spruce and select shrub species that retain their fruits through the winter such as highbush cranberry.

Following is a list of trees and shrubs referenced in the 380 Standard in the FOTG that are considered Good to Excellent for both Wildlife & Windbreak Suitability.

Consult the local FOTG for more information and other species that may be used.

Tree Species	Mature Height (ft)	Windbreak Suitability	Wildlife Suitability
Cedar, Eastern Red*	48	E	G
Cedar, Northern White*	48	E	G
Crab, 'Roselow' Sargent	20	G	E
Cranberry, Highbush*	13	G	E
Dogwood, Gray*	13	G	G
Dogwood Red-Osier*	9	G	G
Hawthorn*	20	G	E
Hazelnut, American*	12	G	E
Plum, American*	8	G	E
Spruce, Norway	81	E	G
Spruce, White*	80	E	G
Sumac, Smooth*	20	G	G
Viburnum, Mapleleaf*	7	G	G

E-Excellent, G-Good;

OPERATION AND MAINTENANCE

Noxious weeds and other undesirable plants, insects, and pests need to be controlled, including such maintenance as necessary to avoid detrimental effects to the surrounding land. Prior to receiving the Final Status Review, weed control and maintenance should occur as needed.

After the Final Status Review, maintain the planting according to your CRP conservation plan. Maintenance activities are allowed only on a spot basis and only if necessary to maintain stand health, maintain stand diversity, or control pests that will damage the CRP cover or adjacent lands. **MOWING** is only authorized between Aug 1st and Aug 20th to protect ground-nesting wildlife and to allow re-growth for winter cover. Other maintenance activities or Mid-Contract Management will only be allowed outside the designated dates to protect ground-nesting wildlife.

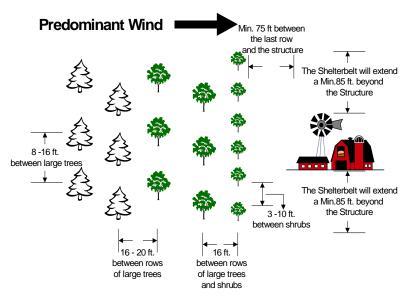
Designated dates are from May 1st to August 1st. If management or maintenance activities are needed within these dates, the FSA County Committee <u>must</u> approve the management activity <u>prior to</u> the activity occurring.

Consult the Windbreak/ Shelterbelt Renovation (650) standard in the FOTG for other maintenance information.

Maintain central stems on trees by pruning to eliminate forks and multiple leaders.

The shelterbelt should be inspected on a seasonal basis and following major storm and runoff events. Any damages or sediment accumulation that would adversely impair the function of the shelterbelt must be corrected immediately, at the landowner's expense.

Replacement of dead trees and shrubs will be needed so that at least 90% of all trees & shrubs are living, and no 2 plants missing together within a row -per the



Tree/Shrub Establishment (612) standard in the FOTG. The landowner is responsible for replacement costs.

Above is a typical layout and design of a CRP Shelterbelt. Note: other designs may also be eligible for CRP.

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^{*}Denotes Species Native to Michigan

	DESIGN WORKSHEET	
SHELLERKELLU	IFSIGN WORKSHEEL	\mathbf{U} \mathbf{R} \mathbf{P} \mathbf{U} \mathbf{P} =16A

Field(s):

Landowner:

Farm:

Tract:

Length / Width:

Date:

County:

REQUIREMENTS FOR SHELTERBELT #										
DESIGN CONSIDERATIONS:										
(Soils information is based on the FOTG, Section		ervation Tree/Shrub Suita terbelt Suitability Group:	ability G	roups)					
Predominant Soil Type(s):										
20 – Year Height of the Tallest Species in the Shelterbelt (= H) ft.		= Distance Sheltered by th Shelterbelt (= 10 x H			ft.					
RECOMMENDED TREES	TOTAL # NEEDED	RECOMMENDED SPACING								
Row #'s: =		Within Row #'s	:	ft						
Row #'s: =		Between Row #'s	:		ft					
Row #'s: =		Within Row #'s	:	ft						
Row #'s: =		Between Row #'s	:		ft					
Row #'s: =		Within Row #'s	:	ft						
Row #'s: =		Between Row #'s	:		ft					
Row #'s: =		Within Row #'s	:	ft						
Row #'s: =		Between Row #'s	:		ft					
BEFORE PLANTING:										
Herbicide ₁ (per label):	Dates =									
Herbicide ₂ (per label):	Dates =									
Tillage:	Dates =									
_ Grass	Dates =									
(between rows only):	2 0.100									
Temporary Seeding:										
Other:										
PLANTING METH	OD in Ye	ear								
Tree Planting Method:										
(If unforeseen circumstances prohibit the planting of the trees/sh	rubs bv this d	ate. please contact our office	as soon a	as poss	sible)					
Other:	,			•	,					
POST-PLANTING MAINTENANCE for Pest Control										
\Box Maintain a 3-ft. weed & grass-free radius for up to 3 years around each tree for optimal growth*										
Herbicide (per label):* Date =										
Other:*										

**NOTE: after the Final Status Review has been issued, other maintenance activities will be conducted outside the primary nesting season (May 1st – August 1st), and weeds will be treated on a "spot" basis only, unless prior approval is granted by the County Committee.

LOCATION AND LAYOUT SKETCH & ADDITIONAL INFORMATION

ADDITIONAL INFORMATION: