

Plant Enhancement Activity – PLT06 – Renovation of a windbreak, shelterbelt or hedgerow for wildlife habitat



Enhancement Description

This enhancement is for the renovation of existing sites that are declining in vigor, need additional woody plants (trees or shrubs) or otherwise no longer provide wildlife habitat benefits. Existing rows of woody plants may be thinned, removed or replaced with new plantings. Existing woody plants may be pruned, either branches or roots or both, to improve windbreak function, health and vigor.

Land Use Applicability

Cropland, Pastureland, Rangeland

Benefits

Renovation restores the function of existing windbreaks, shelterbelts or hedgerows to provide wildlife habitat benefits as well as other benefits such as reduced wind erosion, including dust bearing pathogens, reduced pesticide drift, mitigation of odor and noise, and controlled snow deposition. Species composition may be upgraded by adding trees or shrubs that produce wildlife food and shelter as well as wood products and visual quality, such as spring blossoms or fall colors. Woody species threatened by pests such as emerald ash borer can be replaced with more resilient species that provide wildlife habitat benefits.

Conditions Where Enhancement Applies

This enhancement applies only to the acres of existing windbreaks or shelterbelts in the crop or pasture land use.

Criteria

1. Identify wildlife species to be benefited by the renovation,
2. Develop a plan for new trees and/or shrubs that will provide the desired habitat and windbreak or shelter belt functions,
3. Remove dead or dying trees that do not provide the desired habitat unless habitat for cavity nesting wildlife is desired,
4. Remove other trees or invasives that do not provide the desired habitat,
5. Replace removed trees by planting new trees or shrubs that will provide the desired habitat while serving the required windbreak or shelter belt function, and
6. Prune or thin less desirable trees to encourage the growth of trees that will provide wildlife habitat and windbreak or shelter belt functions.

Adoption Requirements

This enhancement is considered adopted when all six criteria above have been implemented.



United States Department of Agriculture
 Natural Resources Conservation Service

2016 – 1
 2017 – 1 Renewal

Documentation Requirements

1. Brief written description of the tasks completed with dates and any receipts for planting stock, herbicides, etc.,
2. Delineations on a map or aerial photo of renovated windbreak, and
3. Photos of before and after renovation.

References

Abd-Elall, A. M. M., M. E. M. Mohamed, and M. A. I. Awadallah. 2009. Potential airborne microbial hazards for workers on dairy and beef cattle farms in Egypt. *Veterinaria Italiana*. Vol 45, Issue 2. pp. 275-285.

Burley, H. K., A. Adrizal, P. H. Patterson, R. M. Hulet, H. Lu, R. M. Bates, G. P. Martin, C. A. B. Myers, and H. M. Atkins. 2011. The potential of vegetative buffers to reduce dust and respiratory virus transmission from commercial poultry farms. *Journal of Applied Poultry Research* 20(2): 210-222.

Holt, P.S., B.W. Mitchell, and R.K. Gast. 1998. Airborne horizontal transmission of *Salmonella enteritidis* in molted laying chickens. *Avian Diseases* 42:45-52.

Malone, B. 2004. Using trees to reduce dust and odour emissions from poultry farms. *Proceedings 2004 Poultry Information Exchange*. Surfers Paradise, Qld, AU. April 19, 2004. pp. 33-38.

USDA-NRCS and Xerces Society. 2008. Using Farm Bill Programs for Pollinator Conservation. Technical Note No. 78. Washington, D.C. <http://directives.nrcs.usda.gov/OpenNonWebContent.aspx?content=24993.wba>

Utah State Supplement 2015 for PLT06

Notes: This enhancement can only be used on an existing windbreak

Enhancement Name	Enhancement Code	Potential Duplicative Practices (code)	Incompatible Enhancements
Renovate a windbreak, shelter belt or hedgerow for wildlife habitat	PLT06	650 - Windbreak/shelterbelt Renovation 612 - Tree and Shrub Establishment 422 - Hedgerow Planting 660 - Tree and Shrub Pruning	ANM12 ANM33 PLT15



United States Department of Agriculture
Natural Resources Conservation Service

2016 – 1
2017 – 1 Renewal

Operations & Maintenance, Conservation Measures, and Client Acknowledgement

Operation and Maintenance	
Operation:	
Maintenance:	
Conservation Measures	
Actions that must be implemented by the landowner/manager during practice implementation:	
Client's Acknowledgement Statement	
The Client acknowledges that:	
a. They have received a copy of the enhancement and understand the contents and requirements.	
b. It shall be the responsibility of the client to obtain all necessary permits and/or rights, and to comply with all ordinances and laws pertaining to the application of this practice.	
Cooperator:	Date: _____

Planner:	Date:
