

Plant Enhancement Activity - PLT18 – Increasing on-farm food production with edible woody buffer landscapes



Enhancement Description

This enhancement is for the enhancing of windbreaks, alley cropping, silvopasture, or riparian forest buffer systems with trees and shrubs that produce edible products for human or wildlife consumption.

Land Use Applicability

Cropland, Pastureland, Forestland

Benefits

An edible landscape is special in that it is planted with trees and shrubs that produce foods that we can eat/sell or that are beneficial

for wildlife. Trees and shrubs can be used to provide shade, to improve microenvironments or to protect crops, or to mitigate challenging environmental issues. In an edible landscape they provide more than just a protective structure, they become sources of food that produce home grown and nutritious fruits and nuts, increase household food security, and create sites that provide critical habitat for pollinators and wildlife.

Conditions Where Enhancement Applies

This enhancement applies to all crop, pasture or forest land use acres.

Criteria

1. Follow appropriate standard for basic agroforestry practice design.
2. For longleaf pine forests, thin and prescribe burn to improve wildlife habitat.
3. Plant tree, shrub and bramble species that produce food and/or culinary items to create an edible landscape. Lists of suitable woody plants will be available at your local NRCS field office.
4. Maximize planting space by creating vertical structure with varying plant heights and plant sizes.
5. Use all of the following methods to improve edible food production:
 - a. Add at least one edible food producing row to existing agroforestry practices or incorporate at least one edible food producing row into new planting designs.
 - b. Adding planting masses in scattered clusters is encouraged.
 - c. Plant a variety of tree, shrub and bramble species (3 or more; use native species whenever possible) with varying flowering times to favor pollinator species and to add a longer harvest time frame. Choosing several fruit bearing cultivars can provide an extended period of seasonal production.



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- d. Minimize herbicide use. Use spot weed treatments and avoid spraying when flowers are present.

Adoption Requirements

This enhancement is considered adopted when each selected acre has been planted to the desired tree, shrub and bramble species that produce food or culinary item. Or in the case of a longleaf pine forest, the stand is thinned to an appropriate density and prescribed burned to enhance and improve wildlife habitat.

Documentation requirements

1. List of edible food producing trees, shrubs and brambles.
2. Brief written description of the activities (criteria) completed with dates of application and receipts for planting stock, herbicides, etc.
3. Acreage of the enhancement activity.
4. Delineations on a map or aerial photo of landscape layout and placement.

References

Dana, M.N. 2001. Fruits and Nuts for Edible Landscaping. Purdue University Cooperative Extension Service. Landscape Horticulture, HO-190-W. <http://www.hort.purdue.edu/ext/HO-190.pdf>

Josiah, S.J. and J. Lackey. 2001. Edible Woody Landscapes for People and Wildlife. University of Nebraska Cooperative Extension. Lincoln, NE. http://www.extension.org/forest_farming

USDA-NAC. 2008. Working Trees for Agriculture. USDA National Agroforestry Center, Lincoln, NE. <http://nac.unl.edu/documents/workingtrees/brochures/wta.pdf>

USDA-NAC. 2006. Agroforestry: Sustaining Native Bee habitat for Crop Production. Agroforestry Notes – AF Note 32. USDA National Agroforestry Center. Lincoln, NE. <http://nac.unl.edu/documents/agroforestrynotes/an32g06.pdf>

USDA-NAC. 2006. Improving Forage for native Bee Crop Pollinators. Agroforestry Notes – AF Note 33. USDA National Agroforestry Center. Lincoln, NE. <http://nac.unl.edu/documents/agroforestrynotes/an33g07.pdf>

Utah State Supplement 2015 for PLT18

Notes: Use the USDA Plant Hardiness Zone to choose varieties of woody plants to insure winter survivability. <http://planthardiness.ars.usda.gov/PHZMWeb/>

Enhancement Name	Enhancement Code	Potential Duplicative Practices (code)	Incompatible Enhancements
Increasing on-farm food production with edible woody buffer landscapes	PLT18	311 - Alley Cropping 380 - Windbreak and Shelterbelt Establishment 650 - Windbreak/shelterbelt Renovation 391 - Riparian Forest Buffer 612- Tree and Shrub Establishment 381 - Silvopasture Establishment 379 - MultiStory Cropping 645 – Upland Wildlife Habitat Management 647 – Early Successional Habitat Development/Management	AIR08 ANM05 ANM07 ANM21 ANM32 ANM33 PLT15 ENR01 WQL05 WQL09



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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:
