

Air Quality Enhancement Activity – AIR03 – Replace burning of prunings, removals and other crop residues with non-burning alternatives



Enhancement Description

The use of non-burning alternatives to dispose of prunings, removals and other crop residues from orchards, vineyards and other woody perennial crops. Non-burning alternatives include chipping, grinding, shredding, mowing or composting of these materials.

Land Use Applicability

Cropland

Benefits

Burning prunings, removals and residues produces smoke, as well as other air emissions, including volatile organic compounds (VOCs) and oxides of nitrogen (NO_x) that are precursors needed for ozone formation, and various forms of particulate matter. By replacing burning with alternatives (chipping, grinding, shredding, mowing or composting), harmful air emissions will be greatly reduced, and the resulting material usually can be used as mulch.

Conditions Where Enhancement Applies

This enhancement only applies to acres of orchards, vineyards, and other woody perennial cropping systems that produce significant residues that have used burning in prior years.

Criteria

1. A system of burning prunings, removals or residues is currently being utilized on the farm.
2. Burning of such material shall be replaced by one of the non-burning alternatives (chipping, grinding, shredding, mowing or composting).
3. Wood chips and other mulch material resulting from chipping, grinding or shredding shall be used for dust control on unpaved roadways or other farm surfaces, for bio-energy purposes, for composting, or left in orchards for natural decomposition.

Adoption Requirements

This enhancement is considered adopted when a non-burning alternatives has been utilized in prior years as a replacement to burning.

Documentation Requirements

1. A map showing farm areas where these activities were conducted and applied.
2. Dates, locations and type of non-burning alternatives used.



United States Department of Agriculture
 Natural Resources Conservation Service

2016 – 1
 2017 – 1 Renewal

References

Washington State Department of Ecology, Air Quality Program (2004). [Washington State Alternatives to Burning: Agricultural Practices to Help Eliminate or Reduce the Need to Burn](#). Edited by Donna Guske Hansen and John E. Carlson.
http://www.ecy.wa.gov/programs/air/aginfo/research_pdf_files/AlternativesAgBurn.pdf

Western Regional Air Partnership, Fire Emissions Joint Forum (2004). [Non-burning Alternatives for Wildlands \(Task 4.3.1.1\)](#). Prepared by Jones and Stokes, Sacramento, CA.
<http://www.wrapair.org/forums/fejf/tasks/FEJFtask3.html>

Western Regional Air Partnership, Fire Emissions Joint Forum (2002). [Non-Burning Alternatives on Agricultural Lands \(Task 4.3.1.1\)](#). Prepared by Eastern Research Group, Inc. (ERG) and Enviro-Tech Communications. ERG No.: 3261.00.005.001. <http://www.wrapair.org/forums/fejf/tasks/FEJFtask4.html>

Utah State Supplement 2015 for AIR03

Notes: na

Enhancement Name	Enhancement Code	Duplicative Practices (code)	Incompatible Enhancements
Replace burning of prunings, removals and other crop residues with non-burning alternatives (chipping, grinding, shredding, mowing or composting)	AIR03	317 - Compost Facility 484 – Mulching 374 – On-Farm Equipment Efficiency Improvements	ANM21 ANM23 CCR99 SQL09



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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:
