Enhancement Description
This enhancement consists of composting organic waste generated from the agricultural operation(s) on-farm. This includes animal manures, livestock mortality (where state or local laws allow), and waste from on-farm processing of agricultural products (e.g., slaughter by-products or vegetable culls removed from the field during harvest). It does not include any hazardous household waste, any general hazardous waste products or bio-hazard waste products. Yard waste such as grass clippings and leaves can be included but are not required. Composted products must be used in compliance with all federal, state and local laws, rules and regulations.

Land Use Applicability
Crop, Pasture

Benefits
Composting is a resource management process that promotes an ecological farming system with focused nutrient and organic carbon cycling within an agricultural operation. Composting reduces the volume of waste, kills pathogens and reduces odors. The reuse of the compost products on the farm where they were produced improves soil quality and reduces the need to bring in additional nutrients from off-farm sources. On farms with a net import of nutrients (e.g., feed grain nutrient content exceeds nutrient content of farm products sold), the export of surplus nutrients in the form of compost turns a potential water quality concern into a beneficial product available to a wider area. The use of surplus compost by other growers has the potential to improve soil quality on their farm.

Conditions Where Enhancement Applies
This enhancement applies to farms that produce livestock manure, vegetable waste and/or other organic waste from on-farm processing facilities.

Criteria
1. All waste products produced on the farm that are suitable for composting may be composted. The composted products must include 75% of the animal manures produced from confinement areas, if applicable, and may also include:
   a. Livestock mortality (where state or local laws allow)
   b. Slaughter by-products
c. Vegetable culls
d. Waste from on farm processing of agricultural products
e. Spoiled hay or forages
   Note: where liquid animal manure systems are used, the 75% requirement applies to the
   materials from a solid/liquid separation system.

The following materials shall not be included in the composting operation and plan:
a. Poultry litter recycled to be used again as poultry litter,
b. Composted bedded packs used for housing livestock,
c. Hazardous household waste,
d. General hazardous waste products,
e. Bio-hazard waste products, and
f. Crop residues not intended for harvest.

2. Follow a composting plan that includes:
a. Identification of the intended use of the compost and of the required level of pathogen
destruction for that use.
b. Mixing/turning, compost time and temperature requirements to achieve pathogen
destruction consistent with the intended use of the compost.
c. Monitoring and management of composting temperatures and compost moisture levels
d. Balancing Carbon/Nitrogen (C:N) ratio of compost feedstock, based on materials being
   composted
e. Compliance with all federal, state and local laws, rules and regulations
f. Time and temperature requirements of green waste to achieve egg destruction of any
   invasive pest species (ex. Coqui Frog eggs).

3. Compost site and environmental considerations
a. Size the composting area according to the organic material being generated
b. Divert runoff away from the composting pad
c. Runoff from compost pad must be directed through a grass filter strip or other means to
   prevent water quality impartment
d. Select a method of aerobic composting (i.e., bin, windrow or forced air composting) that
   is compatible with the waste product.
e. Runoff management from the raw materials storage area, composting area and compost
   storage area must comply with all federal, state and local laws, rules and regulations.

4. Compost facility operation must be in accordance with NRCS Conservation Practice
   Standards Composting Facility Code 317 and Animal Mortality Facility Code 316, as
   appropriate.

5. Follow Conservation Practice Standard Nutrient Management Code 590 for land application
   of composts as well as all federal, state and local laws, rules and regulations.

Adoption Requirements
This enhancement is considered adopted when the participant has established composting
facilities with sufficient capacity for their composting needs and finished compost has been
produced.
Documentation Requirements
1. An inventory of waste products produced on the farm,
2. An estimate of the annual quantities of compost to be produced,
3. Nutrient analysis of finished compost (by batch),
4. A location map showing the location of the composting facility(s),
5. A nutrient management plan for the land application of the compost,
6. A composting plan that identified the quantities needed, the intended use of the compost, and the composting process consistent with the intended use,
7. Farm nutrient flows and balances (including nutrients imported, nutrients exported, and nutrients recycled), and
8. Photographs of the composting facility.

References

