



United States Department of Agriculture
Natural Resources Conservation Service

Soil Quality Enhancement Activity –SQL04- Use of Cover Crop Mixes



Enhancement Description

This enhancement is for the use of cover crop mixes that contain two (2) or more different species of cover crops.

Land Use Applicability

Cropland, which includes Orchards and Vineyards

Benefits

The use of a cover crop mixture that contains two (2) or more plants is often more effective than a planting of single species cover crop. Cover crop mixtures adapt to

variation in soils, increase biomass production, provide broader spectrum of weed control, have better winter survival and ground cover and attract a range of beneficial insects. Nutrients can be trapped or produced depending on existing soil conditions and plants used. Mixes can be a grass/legume, multiple cultivars of a single species, or a mix containing plants with different growth patterns, e.g. fast and slow, tall and short.

Criteria for Use of Cover Crop Mixes

- Cover crop mixes must contain a minimum of two (2) different plant species or cultivars of a single species with different maturity dates.
- Cover crop species will be selected from state specific lists in the NRCS Field Office Technical Guide.
- Crops planted following cover crop must be no-tilled.
- Nutrient applications for crops following cover crop should consider nitrogen fixation from leguminous cover crops.

Documentation Requirements for Use of Cover Crop Mixes

1. Written documentation for each year of this enhancement describing the following items:
 - Cover crop species used and dated planted
 - Date and amount of fertilizer applied
 - Method to kill cover crop and date completed
 - Crop planted after cover crop and method used
2. A map showing fields where the enhancement is applied
3. Photographs of a representative number of fields showing cover crop mix

TENNESSEE SUPPLEMENTAL INFORMATION FOR THIS ENHANCEMENT

SQL04 - Use of Cover Crop Mixes

Cover Crop Mixes		
Crop Mixtures	Seeding Rates	Seeding Dates
Mixture 1:		
Wheat Crimson Clover	1.5 bu/a 15 lbs/a	Aug. 15 to Oct. 15
Mixture 2:		
Austrian Winter Peas Oats	45 lbs/a 2 bu/a	Sept. 1 to Oct. 1
Mixture 3:		
Cereal Rye Hairy Vetch	1.0 bu/a 20 lbs/a	Aug 15 to Oct. 15

Documentation Form

Producer Name:		Date:
Tract Number(s):		County:
Field Number(s):		
Cover Crop Mixture Planted:		
Planting Date:		
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Fertilizer Applied:		
Rate:		
Date:		
<hr/>		
Method of killing Cover Crop:		
Date		
<hr/>		
Crop Planted after Cover Crop:		
Method of No-Till planting:		

UT Soil Testing and Fertilizer Recommendations:

<http://soilplantandpest.utk.edu/publications/soilfertilizerpubs.htm>