

## Vermont State Supplement, Soil Quality Enhancement Activity –SQL04- Use of Cover Crop Mixes

### Vermont Supplemental Information in Blue Font

#### **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. [See Vermont Cover Crop Mixes List.](#)
- Crops planted following cover crop must be no-tilled.
- Nutrient applications for crops following cover crop should consider nitrogen fixation from leguminous cover crops. [See the Managing Cover Crops Profitably, <http://www.sare.org/publications/covercrops/covercrops.pdf>](http://www.sare.org/publications/covercrops/covercrops.pdf)
- Refer to and follow VT NRCS Cover Crop (340) standard and associated Job Sheet. Seek assistance from NRCS in proper management. [http://www.vt.nrcs.usda.gov/technical/Conservation\\_Practices/Index.html](http://www.vt.nrcs.usda.gov/technical/Conservation_Practices/Index.html)

### Vermont Accepted Cover Crop Mixes List

#### **Non-legumes**

- Annual ryegrass
- Barley
- Oats
- Rye
- Wheat
- Buckwheat
- Sorghum-sudan grass

### **Brassicas**

- Mustards
- Radish
- Rapeseed

### **Legumes**

- Berseem clover
- Cowpeas
- Field peas
- Hairy vetch
- Medics
- Red clover
- Sweet clovers
- White clover

To create cover crop mixes, select a minimum of two different plant species or cultivars of a single species with different maturity dates.

### **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.