

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.

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

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

Documentation Requirements

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

Michigan Supplement

Soil Quality Enhancement Activity SQL04 Cover Crop Mixtures

Cover Crop mix alternatives. Supplemental to 340 Cover Crop Standard

Recommended Seed Mixtures (Seed Cocktails)

Seed Mixture	Species	Seeding Rate (lbs/ac)
SM 1	Austrian Winter Pea	20-30
	Oilseed Radish	2-5
SM 2	Hairy Vetch	25-30
	Cereal Rye	56-75
SM 3	Triticale	44-84
	Austrian Winter Peas	40-60

Ref: NRCS MI Cover Crop Standard 340 and 340 job sheet. Use the NRCS MI 340 Job sheet located in eFOTG to document the required information per the national CSP SQL04.

SQL04 Use Cover Crop Mixture Documentation Requirements

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 - c. Method to kill cover crop and date completed
 - d. 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