



SQL05 - Montana Supplement

Use of Deep Rooted Crops to Break Up Soil Compaction – (Soil Quality Enhancement Activity)

Montana Clarification

This enhancement is for the use of deep rooted crops to break up compacted soils and improve soil quality. Some distinctions of SQL05 over SQL02 are:

- SQL05 planting mixes cannot be used as credit for SQL02 on the same land;
- This enhancement can be planted between crops in the fallow year;
- SQL05 could be planted and grown from spring to fall while awaiting winter wheat planting in the fall;
- SQL05 does not require that the crops planted after removal be no-tilled;
- SQL05 does allow single species planting but diversity of species is recommended;
- Grazing or removal of cover crop residues is not allowed.

Montana Specifications

Table1. Drilled Seeding Rates for Approved Deep Rooted Cover Crops in Montana Based on Maximum Crop Production ⁽¹⁾

Species	Dryland lbs/ac. PLS ⁽²⁾	Irrigated lb/ac. PLS ⁽²⁾
Alfalfa	5	6
Radish, deep rooted – Daikon or Forage	8	10
Safflower	15-30	15-30
Sunflower	14- 20,000 seeds/ac	20- 25,000 seeds/ac
Turnip	8	8

⁽¹⁾ If seed is broadcast rates must be doubled.

⁽²⁾ PLS - % Purity x % germination from current (1 year) seed analysis x recommended seeding rate.

Incompatible Enhancements

Some enhancements are not compatible with other enhancements. If you have a question, contact your local NRCS office.

Eligible Land

Cropland

Applicable Amount

Acres of cropland

Documentation Requirements

1. Written documentation for each year describing the following items:
 - a. Deep rooted crop(s) used and date planted, **including** seeding rates of all species.
 - b. Cash crop planted, method used.
2. A map showing fields and acres where the enhancement is applied.
3. Photographs of **all** fields showing deep rooted crops.

I acknowledge that I have read and understand all that is required for the implementation of this CSP Enhancement Activity.

Contract participant

Date