

Water Quality Enhancement Activity– WQL10 – Plant a cover crop that will scavenge residual nitrogen



Enhancement Description

Plant a cover crop that will scavenge nitrogen left in the soil after the harvest of a previous crop. Suitable cover crops include those with at least a “Very Good” rating for scavenging nitrogen as documented in *“Managing Cover Crops Profitably, 3rd Edition”* (Sarrantonio, 1998), Chart 2 Performance & Roles, pg 67. Examples include cereal rye, barley, forage radish and sorghum sudan.

Land Use Applicability

Cropland.

Benefits

Planting an annual cover crop to scavenge residual nutrients from cropland after the harvest of a previous crop effectively utilizes residual nutrient resources to supply following crops with nutrients required to efficiently produce food, forage, fiber, and cover while minimizing environmental degradation.

Criteria

Implementation of this enhancement requires:

1. The cover crop selected shall have the growth rate and rooting depth required to scavenge excess nitrogen from the root zone of the previous crop. Suitable cover crops include those with at least a “Very Good” rating for scavenging nitrogen as documented in *Managing Cover Crops Profitably, 3rd Edition, Chart 2 Performance & Roles, pg 67*. Examples include cereal rye, barley, forage radish and sorghum sudan.
2. Timing of planting and seeding rates for cover crops shall follow the recommendations in the respective NRCS Field Office Technical Guide (FOTG).
3. The producer must have a current soil test (no more than 3 years old).
4. Nitrogen application rates for the crop following the cover crop must be reduced by at least 15% from the “Land Grant University (LGU) recommendations to account for the recycling of N by the cover crop.
5. The producer shall not increase soil surface disturbance over existing benchmark conditions.



United States Department of Agriculture
Natural Resources Conservation Service

2011 Ranking Period 1

Documentation Requirements

Documentation for each Treatment area (field) and year of this enhancement describing these items:

1. A map showing where the activities are applied
2. Cover crop species planted
3. Cover crop planting date
4. Cover crop seeding rate (bu/ac)
5. Annual crop planted
6. Nitrogen application rates/amounts for the annual crop
7. Treatment acres

Indiana CSP Enhancement Supplemental Information

WQL10 – Plant a Cover Crop that Will Scavenge Residual Nitrogen

- A cover crop or cover crop mix, with no less than 50%, of the following: Annual Ryegrass, Barley, Cereal Rye, Triticale, Oats, Triticale, Wheat, Sudangrass, Sorghum-Sudangrass, Millet, Radish, Turnip or Rape/Canola.
- Seeding rates, seeding dates, species selection and approved mixes are found in the IN-FOTG- section IV-[340-Cover Crop Standard](#), Job Sheet and/or the IN Seeding Tool - [http://efotg.nrcs.usda.gov/references/public/IN/IN_NRCS_Seeding_Calculator_\(2010\).xls](http://efotg.nrcs.usda.gov/references/public/IN/IN_NRCS_Seeding_Calculator_(2010).xls)
- A procedure for estimating the amount of Nitrogen that is scavenged can be found on pages 22 & 23 in SARE - *Managing Cover Crops Profitably*, 3rd edition - <http://www.sare.org/publications/covercrops.htm>