

Michigan Supplemental Enhancement Activity

Water Quality Enhancement Activity – WQL16 – Use of legume cover crops as a nitrogen source

Minimum Nitrogen (N) credits for crops grown the year prior to planting N-responsive Field crops.

Previous crop	N credit lb N /a
Alfalfa, established ¹	40 + (% stand)
Alfalfa, seeding ²	40 + 0.5 (% stand)
Clover, established ¹	40 + 0.5 (% stand)
Clover, seeding ²	20 + 0.5 (% stand)
Trefoil, established ¹	40 + 0.5 (% stand)
Barley + legume	30 + 0.5 (% stand)
Oats + legume	30 + 0.5 (% stand)
Wheat + legume	30 + 0.5 (% stand)
Clover-grass hay	40
Grass hay	40
Dry edible beans	20
Soybeans	30
CRP land ³	40

¹ Established more than one year.
² Six to ~12 months after seeding
³ Whether grass/legume or just grass.

From MSU Extension Bulletin E2904 Nutrient Recommendations for Field Crops in Michigan.

Minimum Nitrogen (N) credits for crops grown the year prior to N-responsive Vegetable crops.

Previous crop	N credit (lb N /A)
Alfalfa, established	40 + (% stand)
Alfalfa, seeding	40 + 0.5 (% stand)
Clover, established	40 + 0.5 (% stand)
Clover, seeding	20 + 0.5 (% stand)
Trefoil, established	40 + 0.5 (% stand)
Barley + legume	30 + 0.5 (% stand)
Oats + legume	30 + 0.5 (% stand)
Wheat + legume	30 + 0.5 (% stand)
Dry edible beans	20
Soybeans	30

From MSU Extension Bulletin E2934 Nutrient Recommendations for Vegetable Crops in Michigan.

Using Nitrogen credits in Manure Management Planner (MMP)

Custom nitrogen recommendations may be entered on the Crops panel of MMP. For an individual field, you may enter a reduced nitrogen nutrient recommendation in one of 2 ways:

1. Scroll to the right on the field line in the Crops panel to the column labeled Planned Cover Crop (not harvested). Select from the drop down list a legume choice. Enter percent legume stand in column labeled legume % stand. Use the actual percentage of the legume component when a legume-mix cover crop is used. The default N recommendation will adjust.

OR

2. Enter a custom N recommendation in the column labeled Custom N rec for each field individually. The rate you enter will be the default rate given minus the N credit as determined from the above tables. MMP will over-ride the default N recommendation with the custom recommendation.