

Graphical Interface to Determine Cover Crop and Soil Organic Matter N Credits

This nitrogen fertilizer recommendation tool is currently under research and this interface is provided for educational purposes only. The recommendations need to be validated through further field experimentation.

Inputs

Corn Yield Goal (bu/ac)

Sand Content (%)

Clay Content (%)

Soil Organic Matter (%)

Winterkilled Cover Crop Biomass N (lbs/ac)

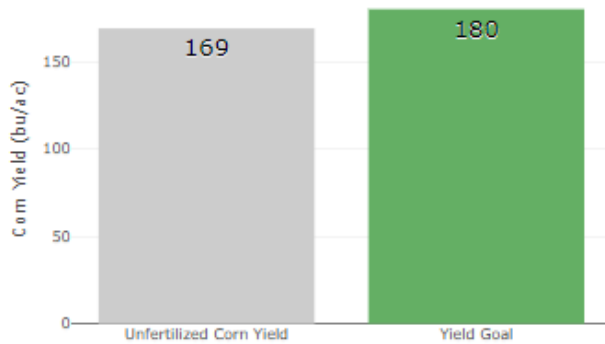
Spring Cover Crop Biomass N (lbs/ac)

Spring Cover Crop C:N Ratio

Diagnostics and Results

Microbial Carbon Use Efficiency 0.20	Critical C:N Ratio for N Immobilization 49:1	Cover Crop Yield Credit 16 bu/ac
Nitrogen Yield Gap 11 bu/ac	Fertilizer Efficiency 0.21	Supplemental Nitrogen Fertilizer Requirement 64 lbs N/ac

Unfertilized Corn Yield Prediction vs. Yield Goal



Use the Form Below to Predict Cover Crop Biomass N Content from Greenseeker NDVI Sensor

This calibration of the Greenseeker sensor to predict cover crop nitrogen is based on research published by White et al. (2019) in an article that is freely available to the public [here](#).

Cover Crop Type for NDVI Conversion to Biomass N

Cereal Rye/Triticale in Spring

NDVI Value

0.1

Cover Crop Biomass Nitrogen (lbs/ac)



Recommendations of nitrogen applications to achieve a certain yield goal for corn.



Estimations of CUE for this tool are currently based on soil texture.