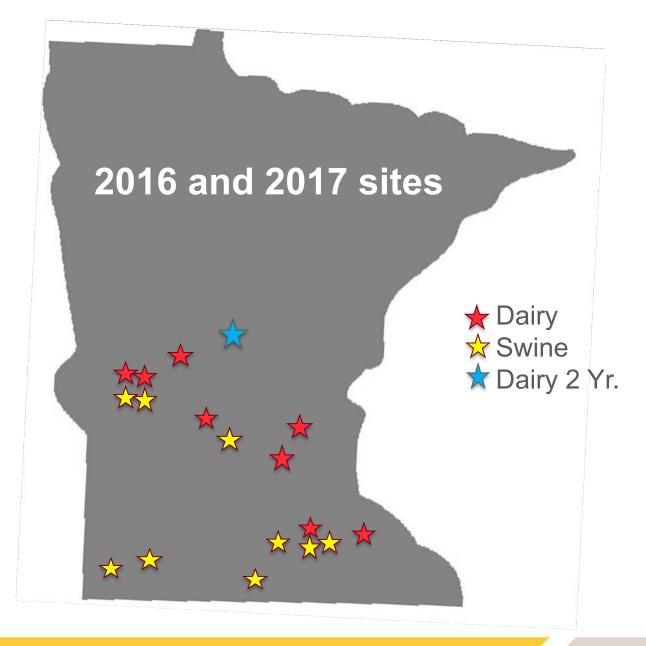


MAKING A DIFFERENCE IN MINNESOTA: ENVIRONMENT + FOOD & AGRICULTURE + COMMUNITIES + FAMILIES + YOUTH

Drilled cover crops + manure project







Deep shanks







Double disks





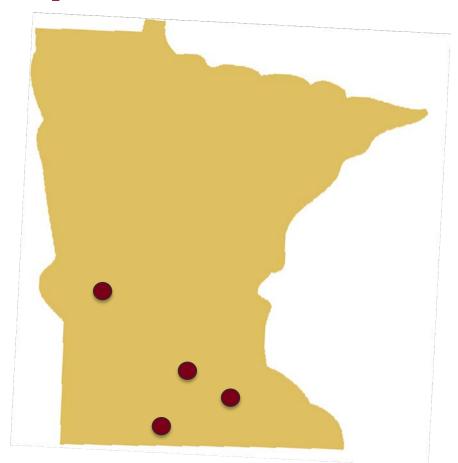


Knife injection





Integrating cover crops and manure











Manure application





What are we testing in silage corn?



Practices

Cover crop seeding timing

Nutrient source timing

Interseeded

Drilled

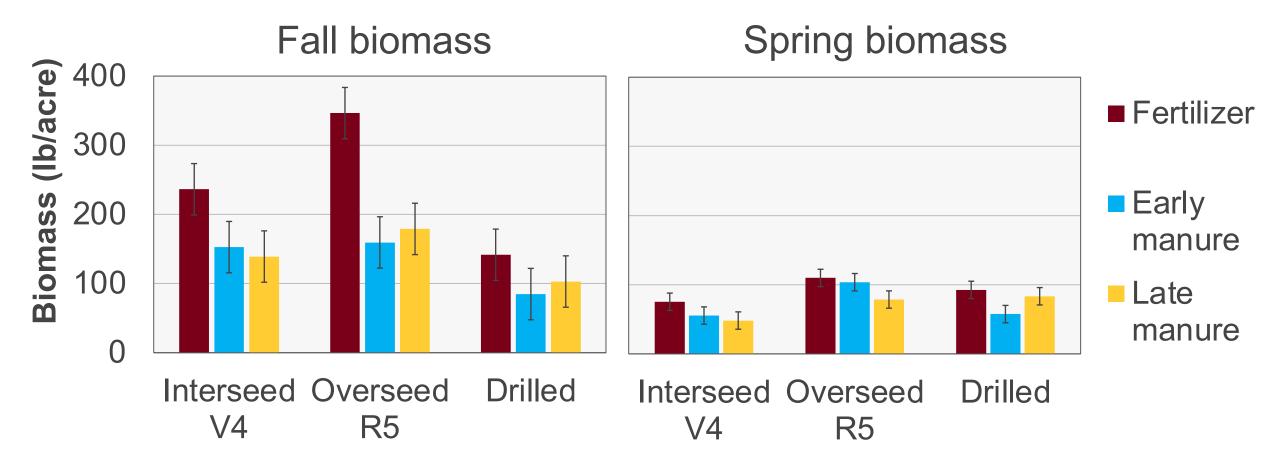
None

Early manure

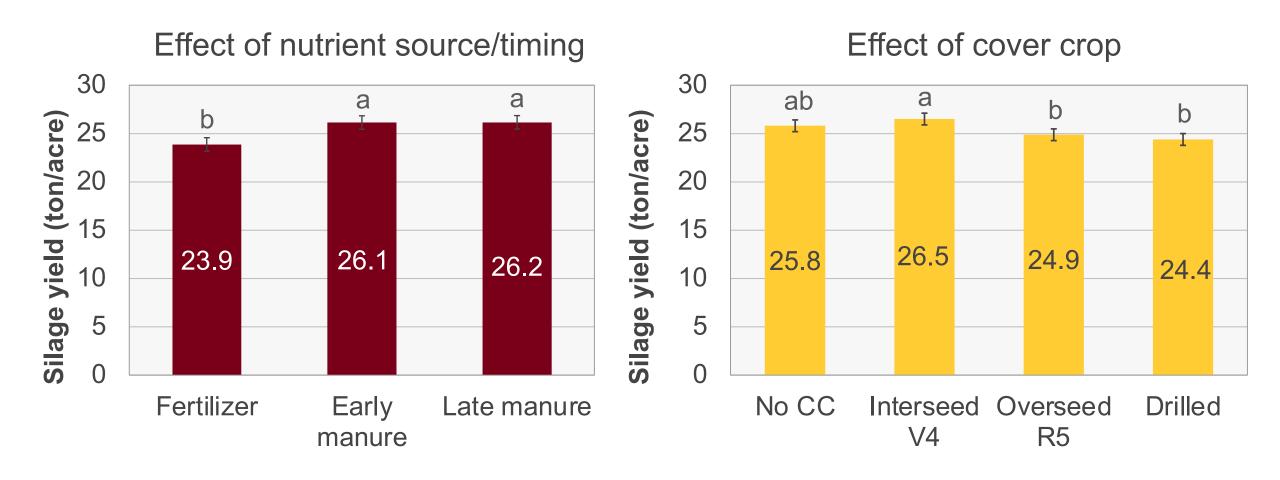
Late manure

Spring fertilizer

Cover crop biomass following silage corn



Silage corn yield after cover crops (2 site years)



What are we testing after sweet corn?



Practices

Cover crop types

Nutrient source timing

Winter rye

Oat

Rye/oat/radish

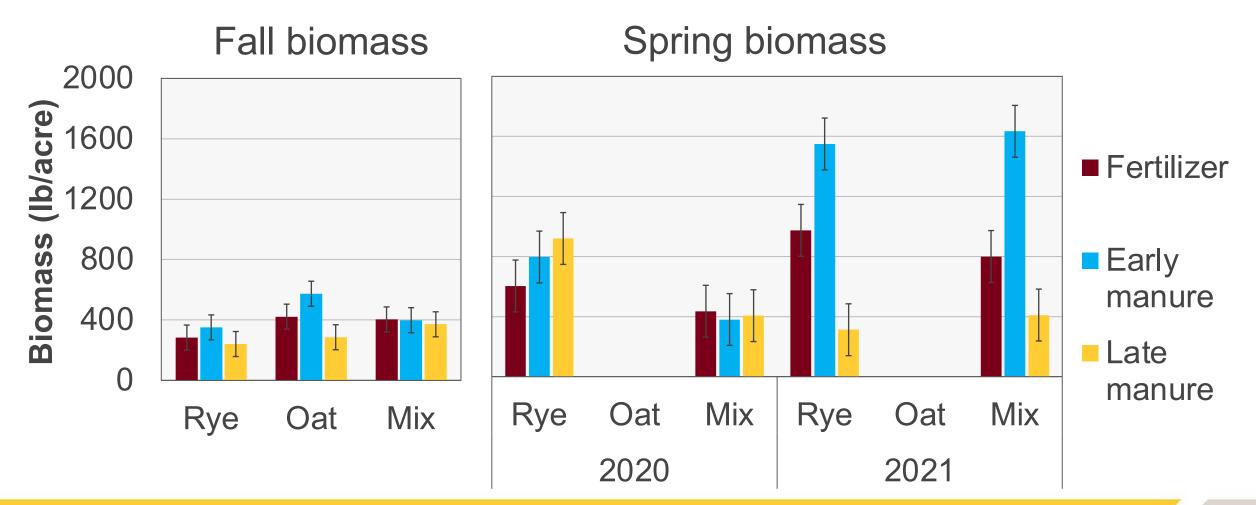
None

Early manure

Late manure

Spring fertilizer

Cover crop biomass following sweet corn





Cover crop residue versus corn emergence



Winter rye with early applied manure



Oats with early applied manure

Growing season and nutrient deficiency symptoms



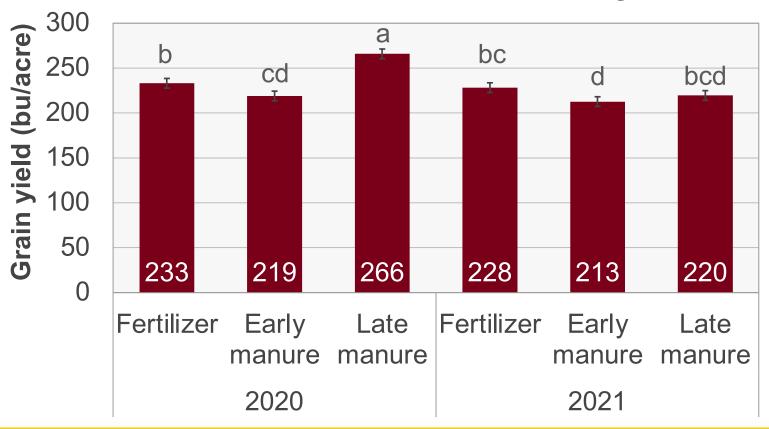




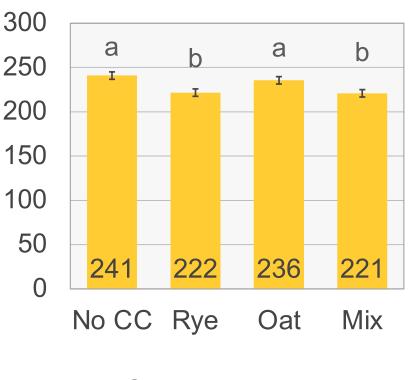
Corn yield following sweet corn (2 site years)

Grain yield (bu/acre)





Effect of cover crop



Cover crop treatment

What are we testing in soybean?



Practices

Cover crop seeding timing

Nutrient source timing

Interseeded

Drilled

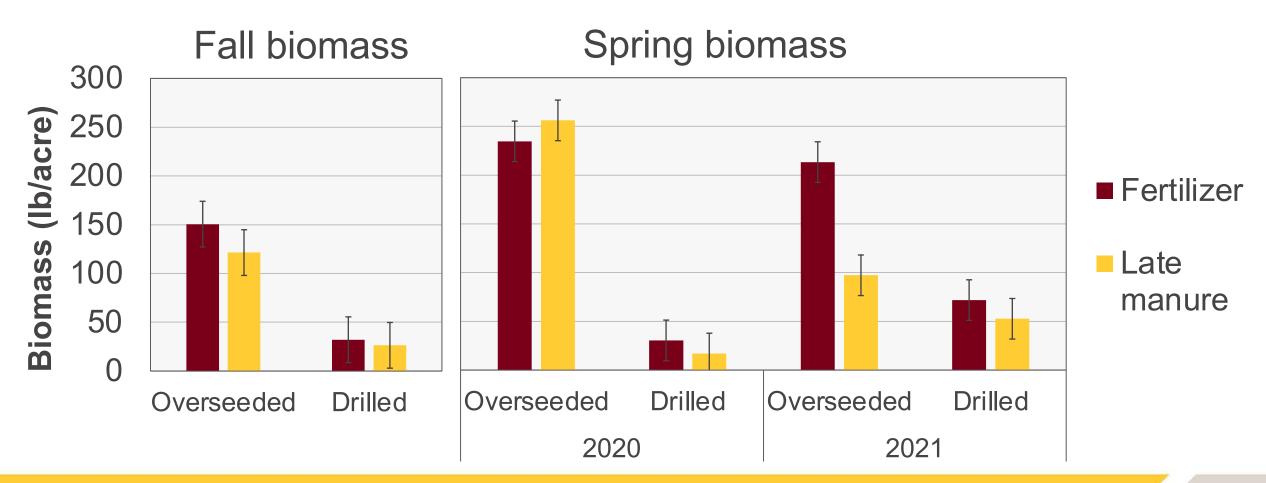
None

Early manure

Late manure

Spring fertilizer

Cover crop biomass following soybean at both sites and both years



Soil your undies





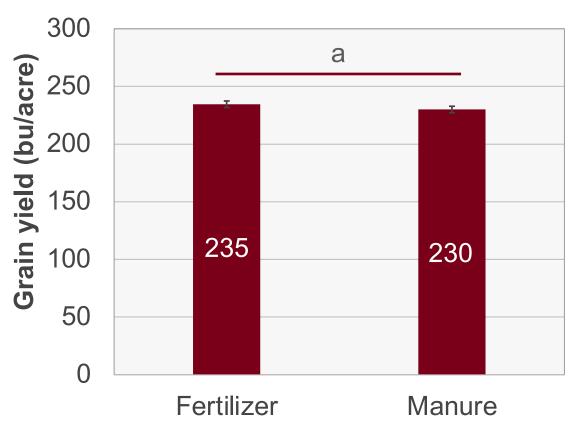




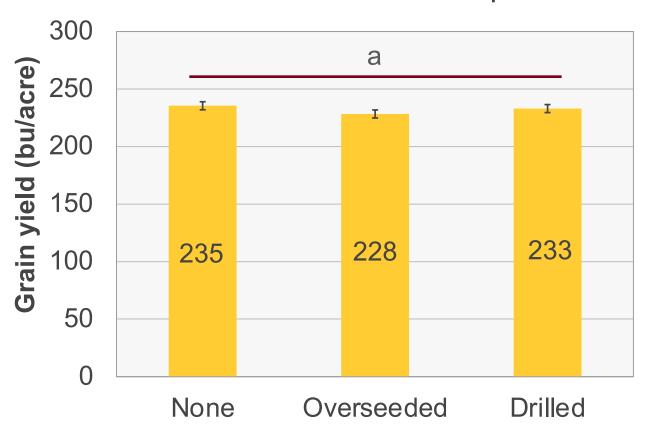


Corn yield following soybean (3 site years)





Effect of cover crop



Take home messages



Thank you! Questions?

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- Follow me on twitter>: @ManureProf
- https://z.umn.edu/manureresearch2021



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