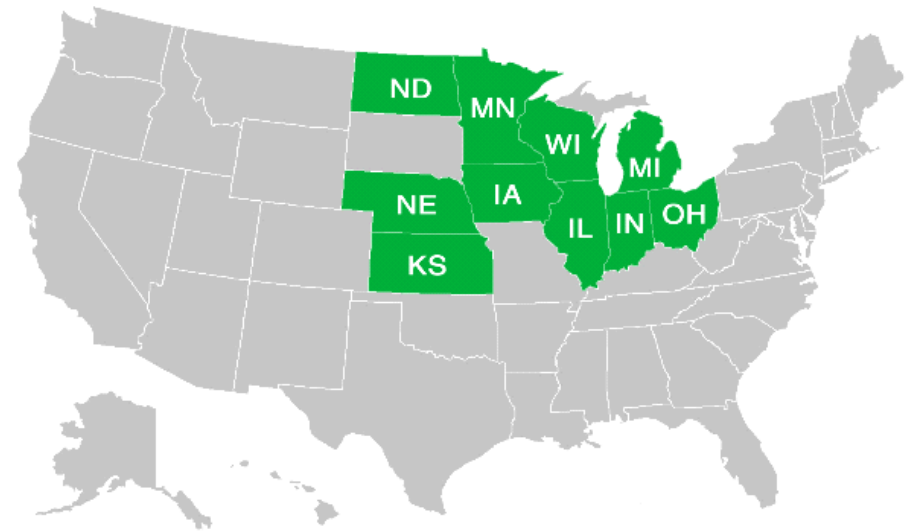


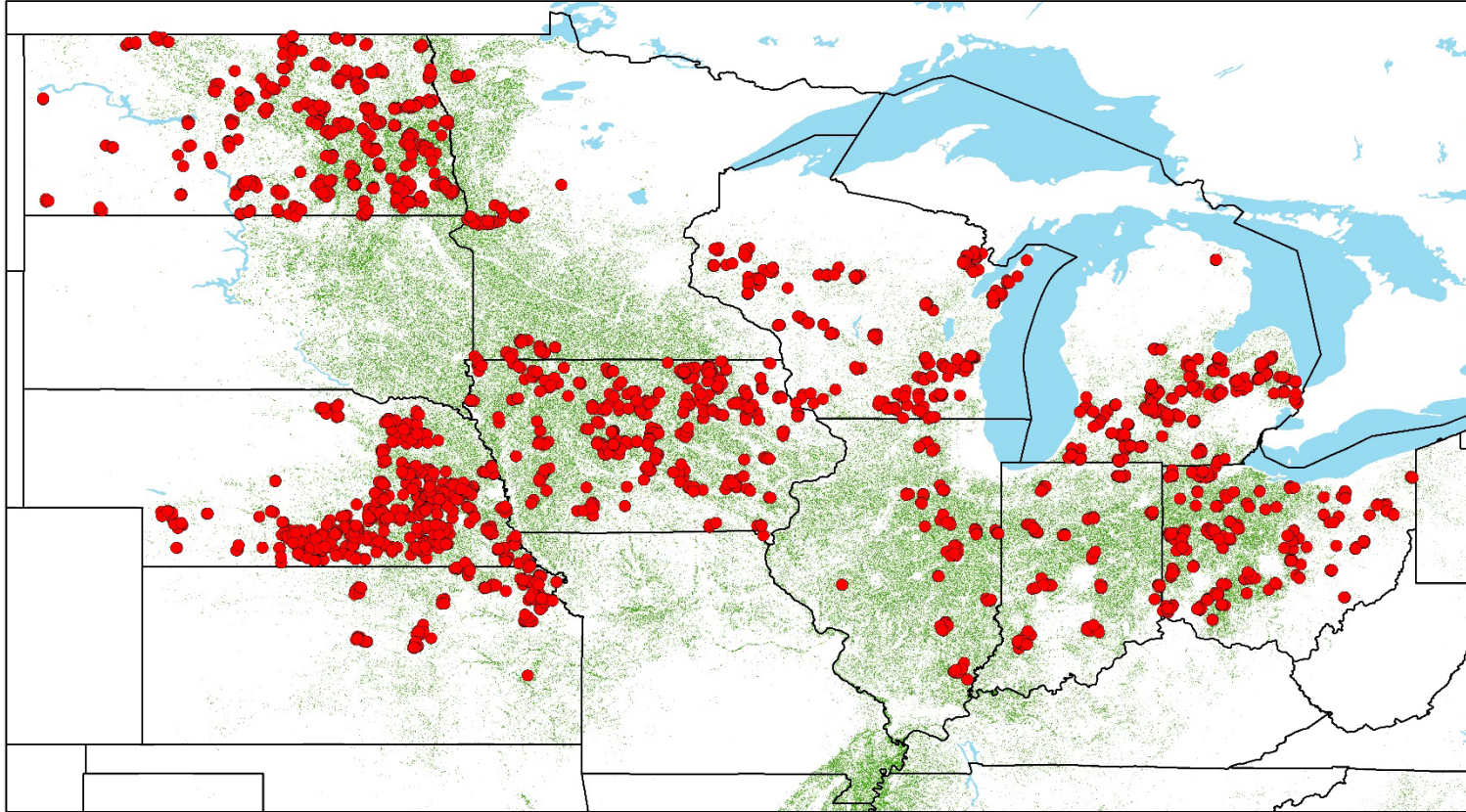
Benchmarking soybean production systems in the North-Central USA

Core team: Patricio Grassini, Shawn P. Conley, Juan I. Rattalino Edreira, Spyridon Mourtzinis and Adam Roth

State collaborators: Shaun Casteel, Ignacio A. Ciampitti, Mark Licht, Hans Kandel, Laura Lindsey, Darren Muller, Seth Naeve, Emerson Nafziger and Michael Staton



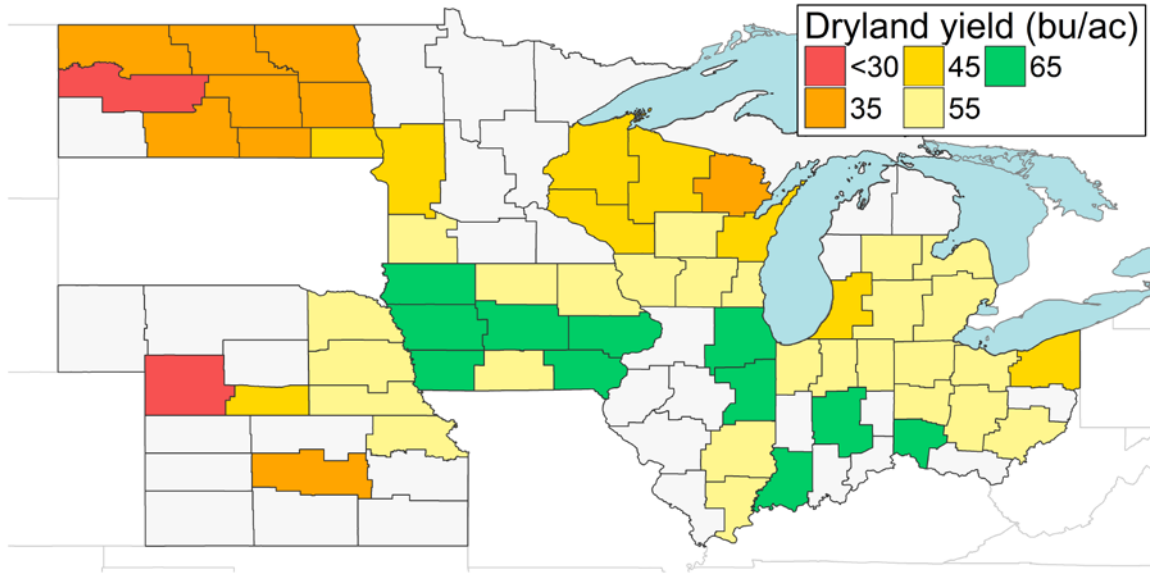
Soybean field location



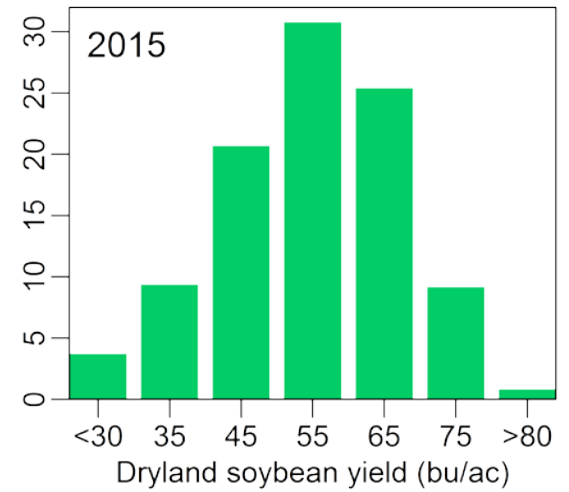
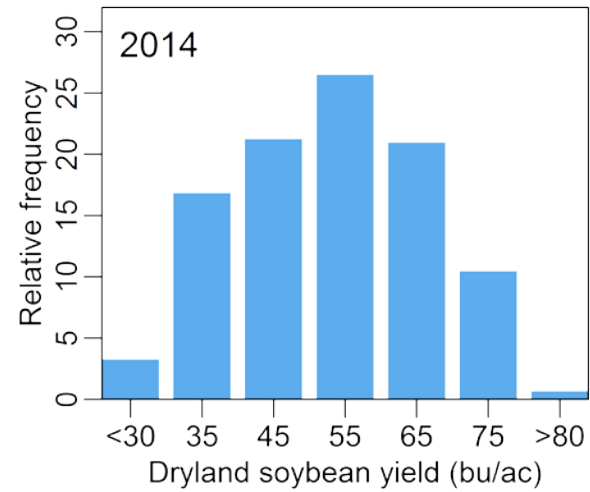
Soybean fields per year

State	2014	2015	Total
IA	368	431	799
IL	41	47	88
IN	51	56	107
KS	68	70	138
MI	150	173	323
MN	31	38	69
ND	257	267	524
NE	430	494	924
OH	124	165	289
WI	130	177	307
Total	1650	1918	3568

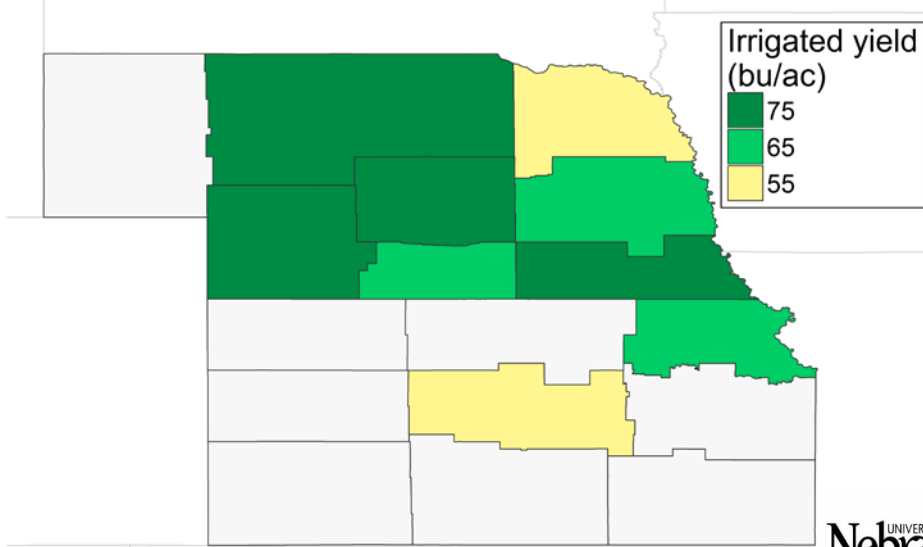
Average dryland soybean yield (bu/ac)



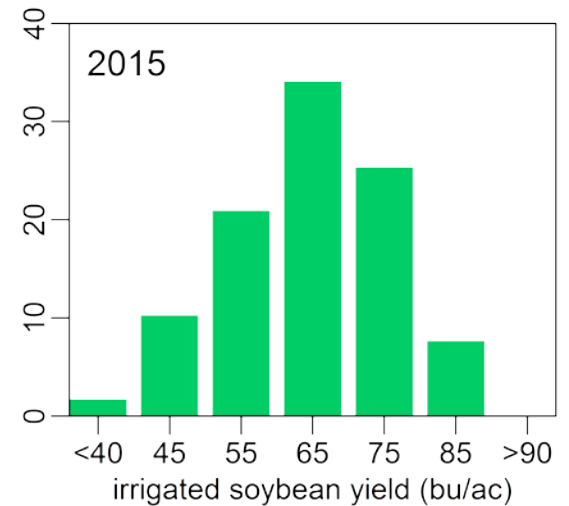
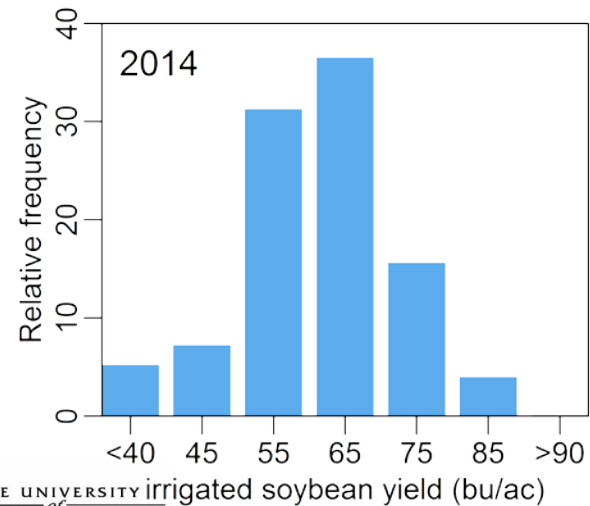
Dryland soybean yield (bu/ac)



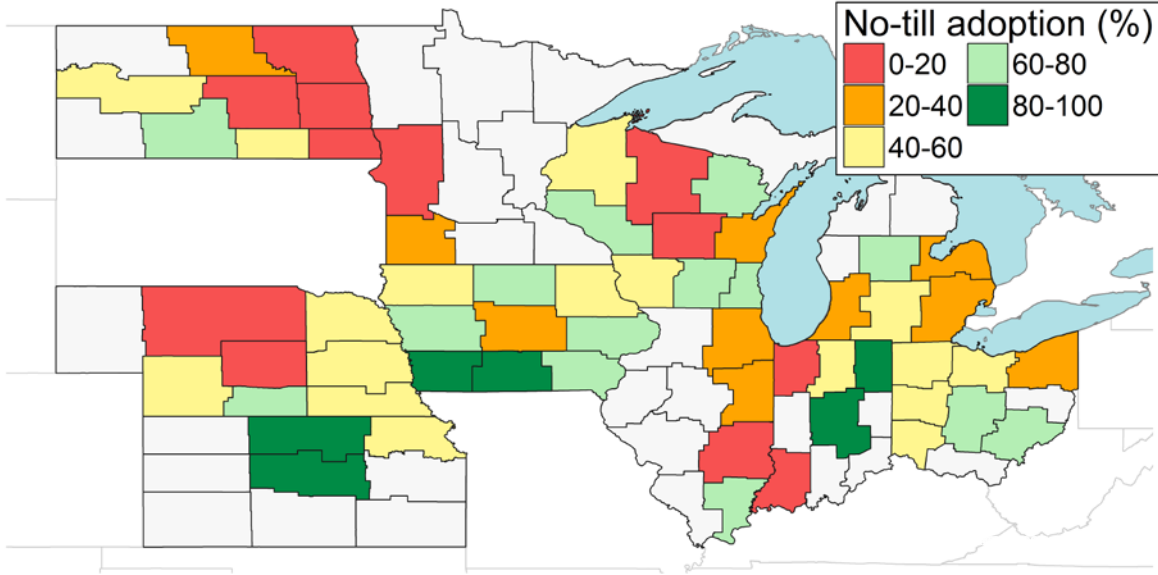
Average irrigated soybean yield (bu/ac)



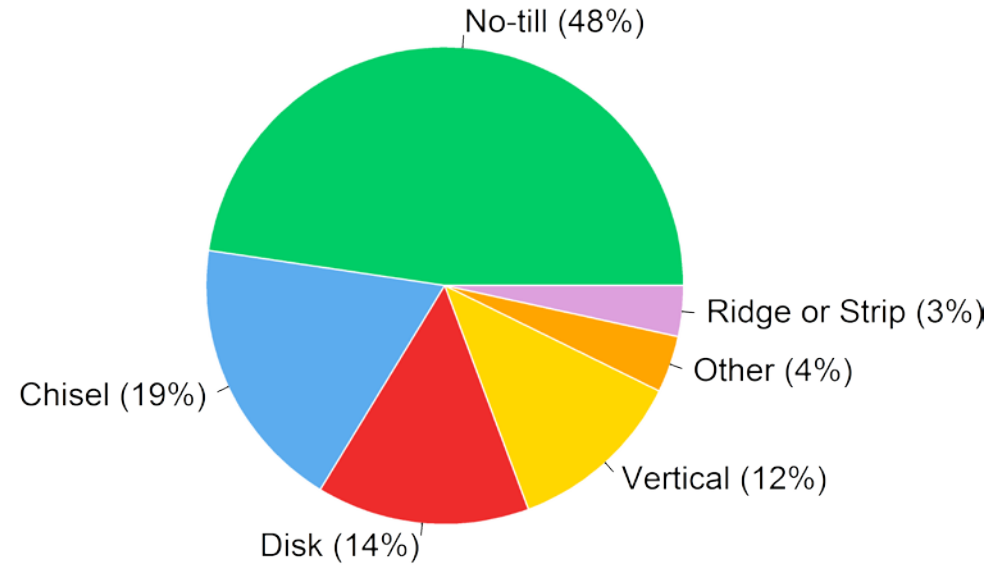
Irrigated soybean yield (bu/ac)



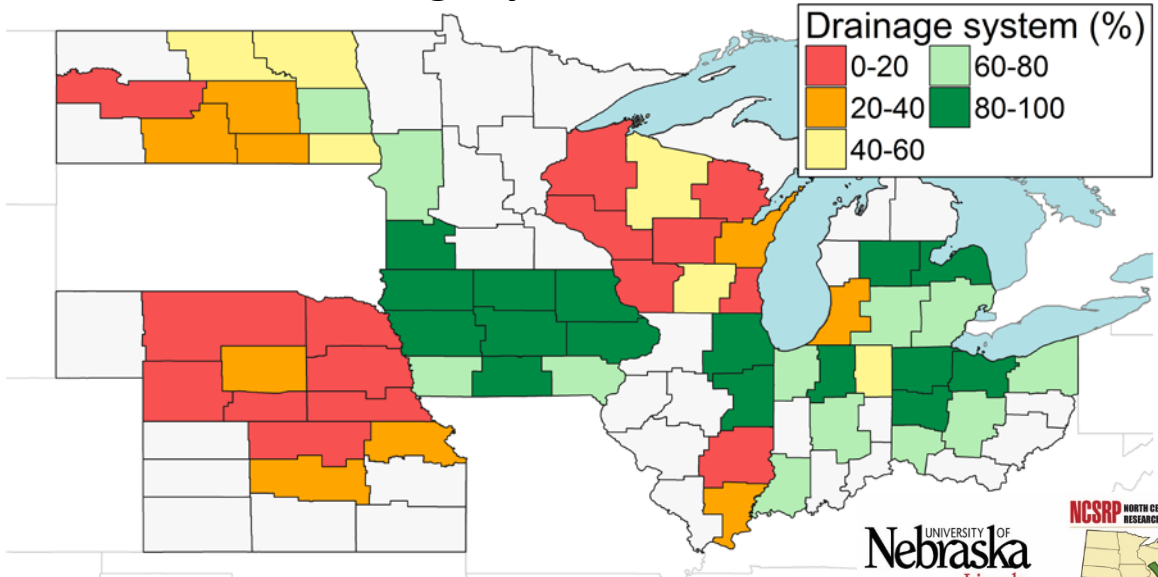
% of no-tilled fields



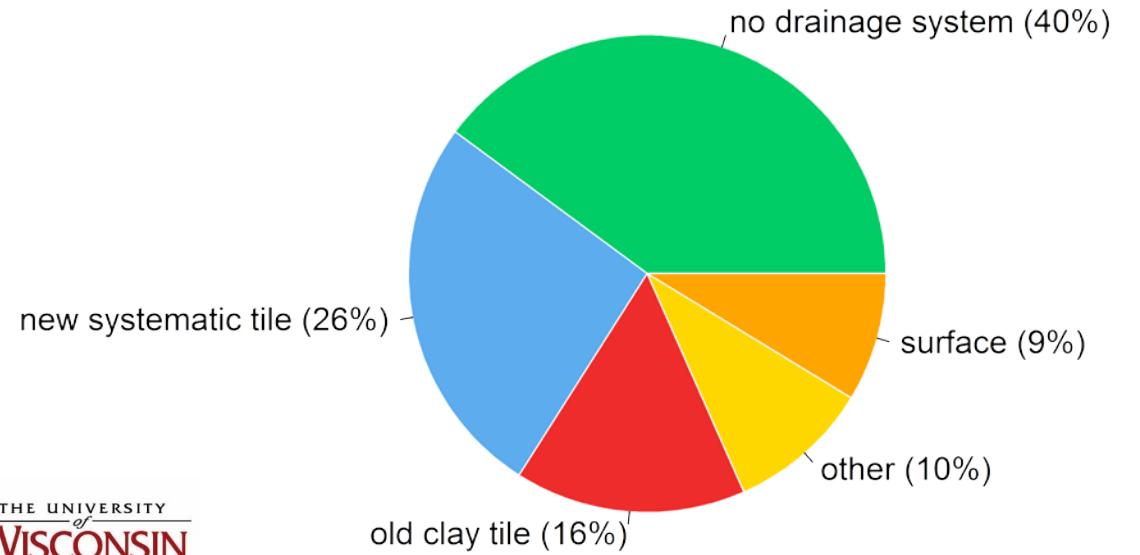
Proportion of tillage system



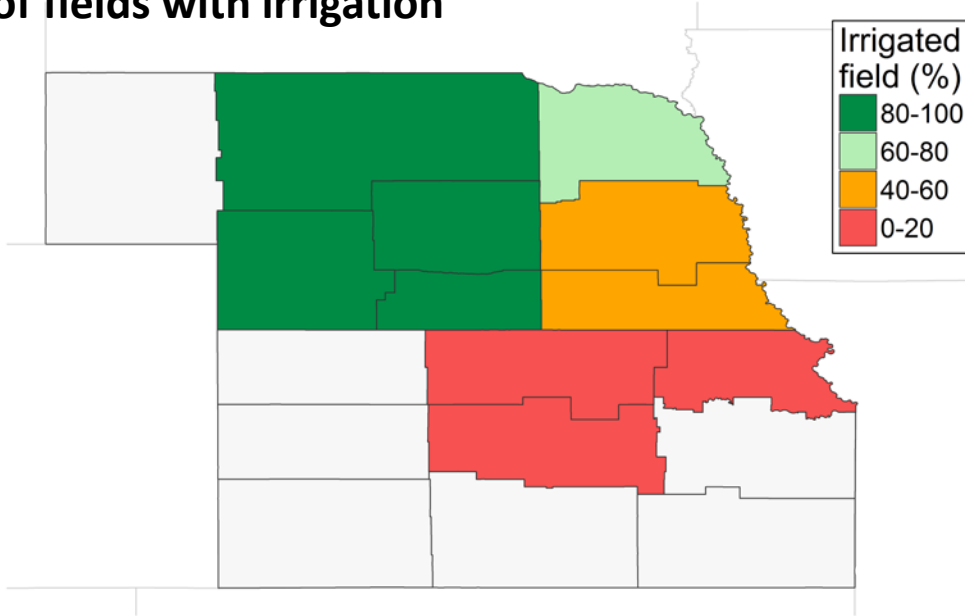
% of fields with drainage system



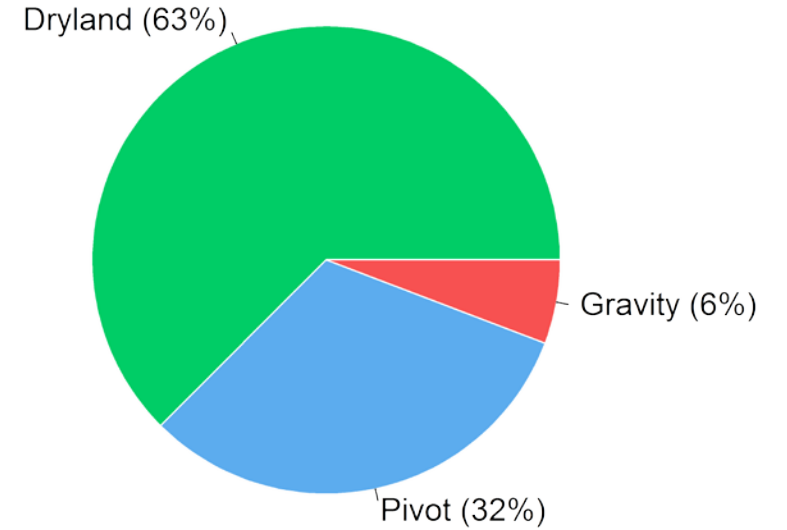
Proportion of drainage system



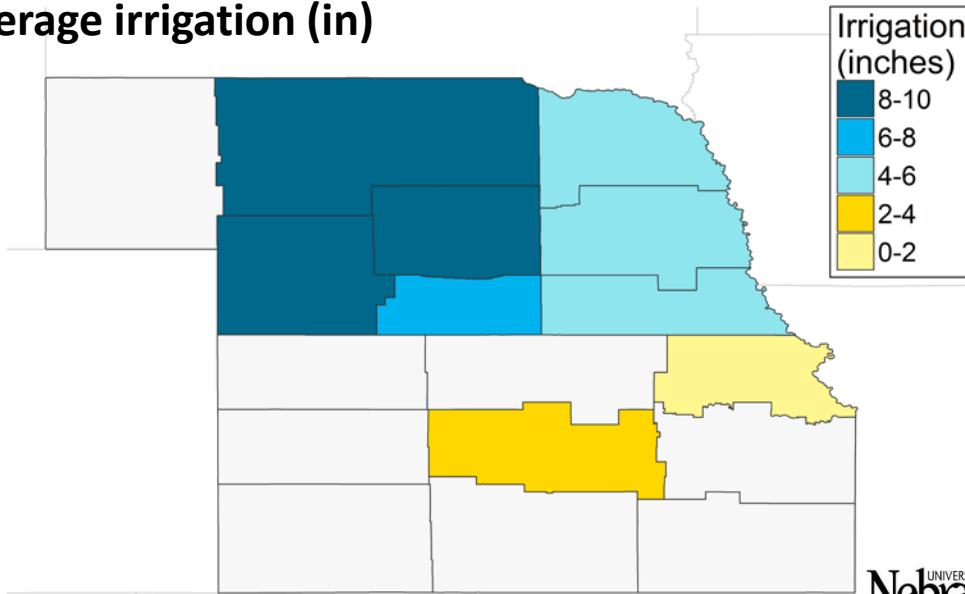
% of fields with irrigation



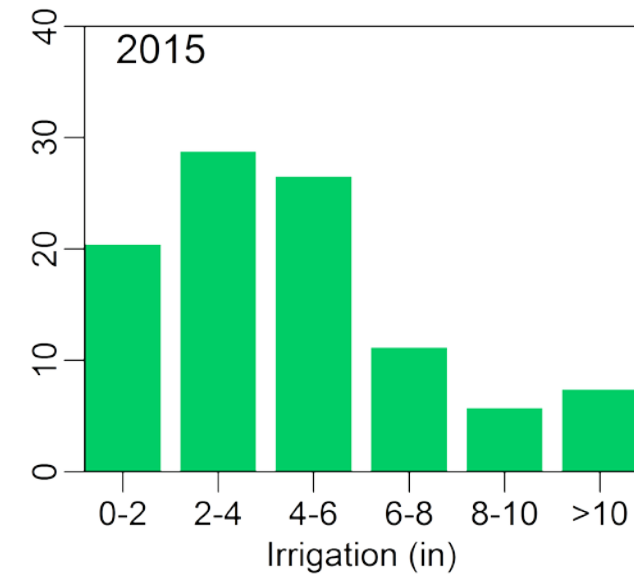
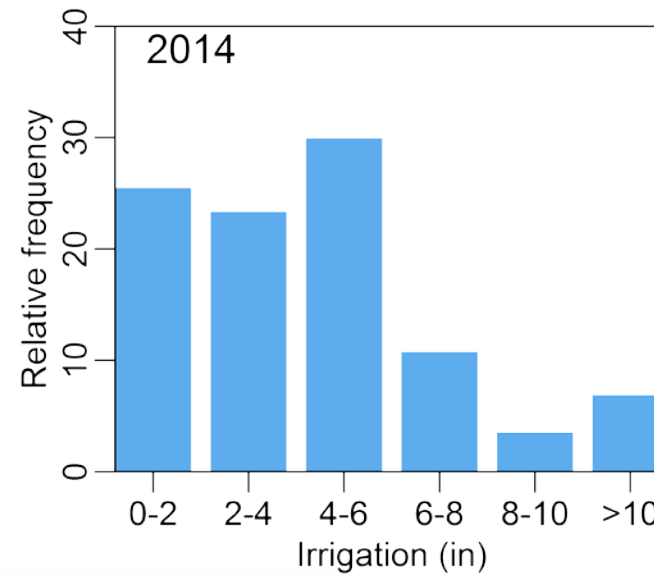
Proportion of tillage system



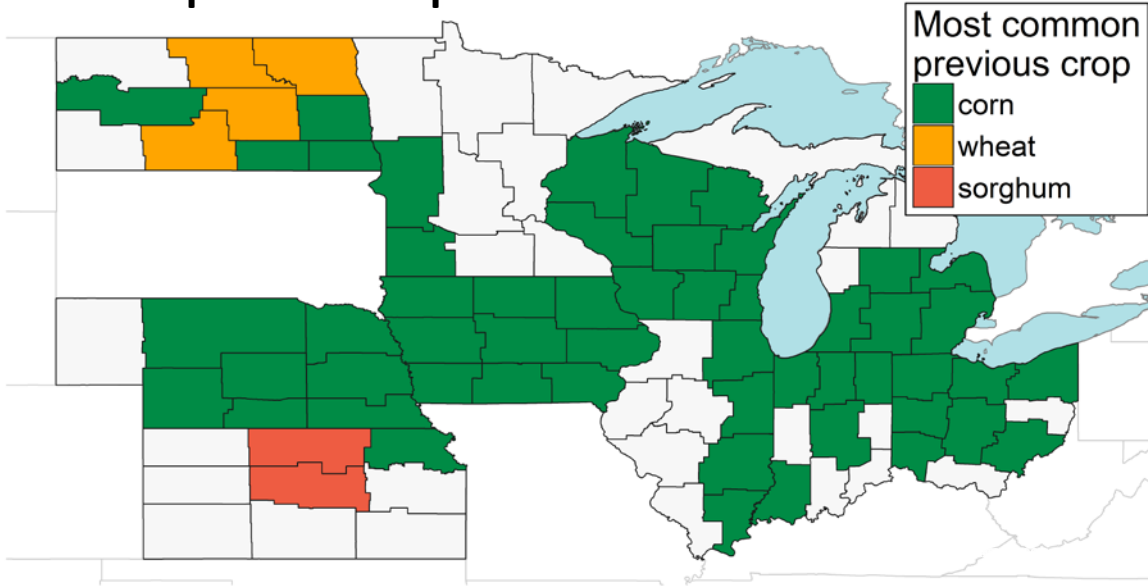
Average irrigation (in)



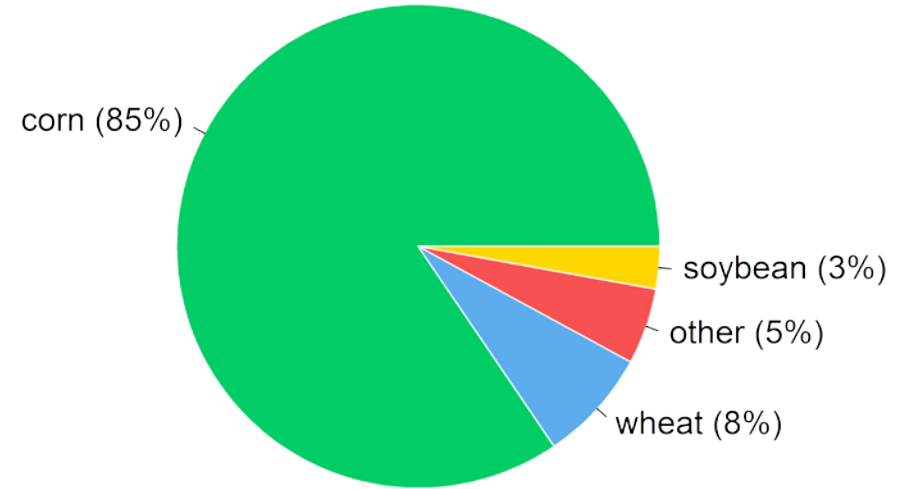
Irrigation (in)



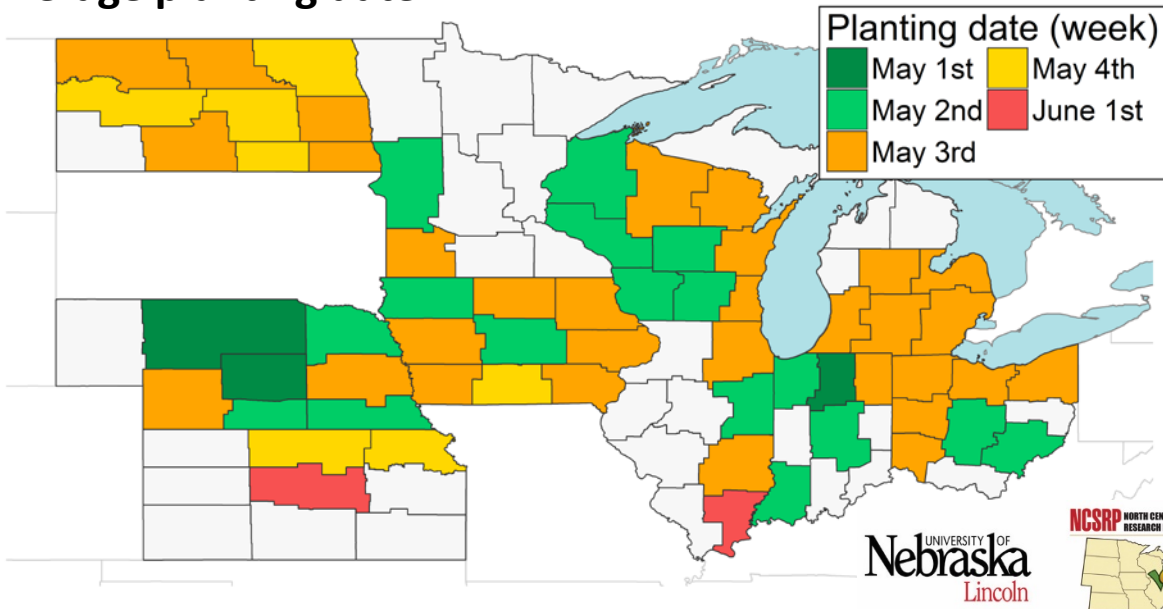
Prevalent previous crop



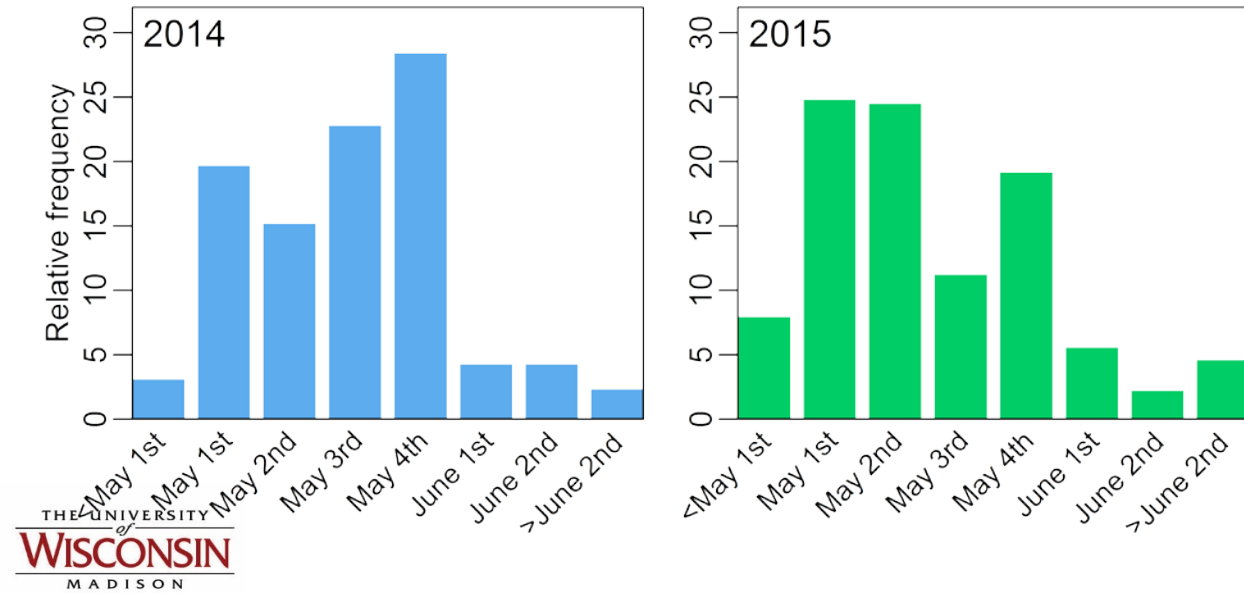
Proportion of previous crop



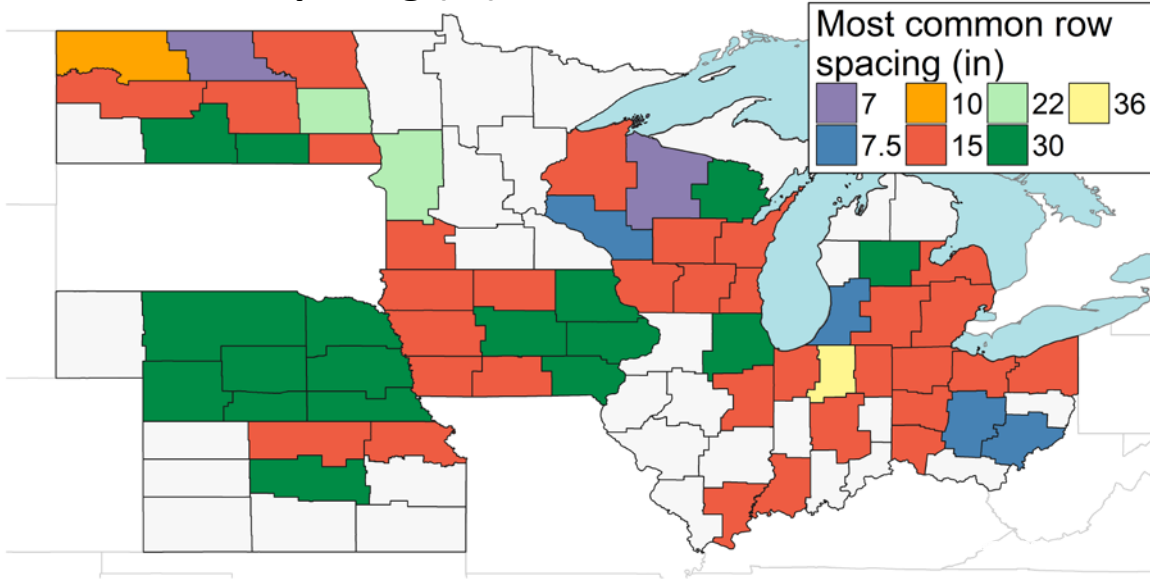
Average planting date



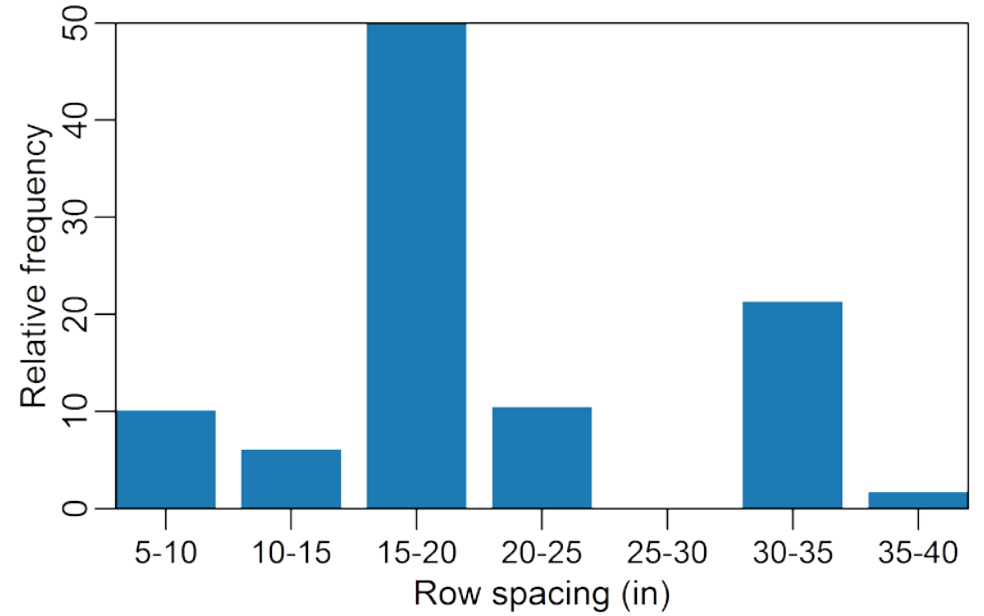
Planting date



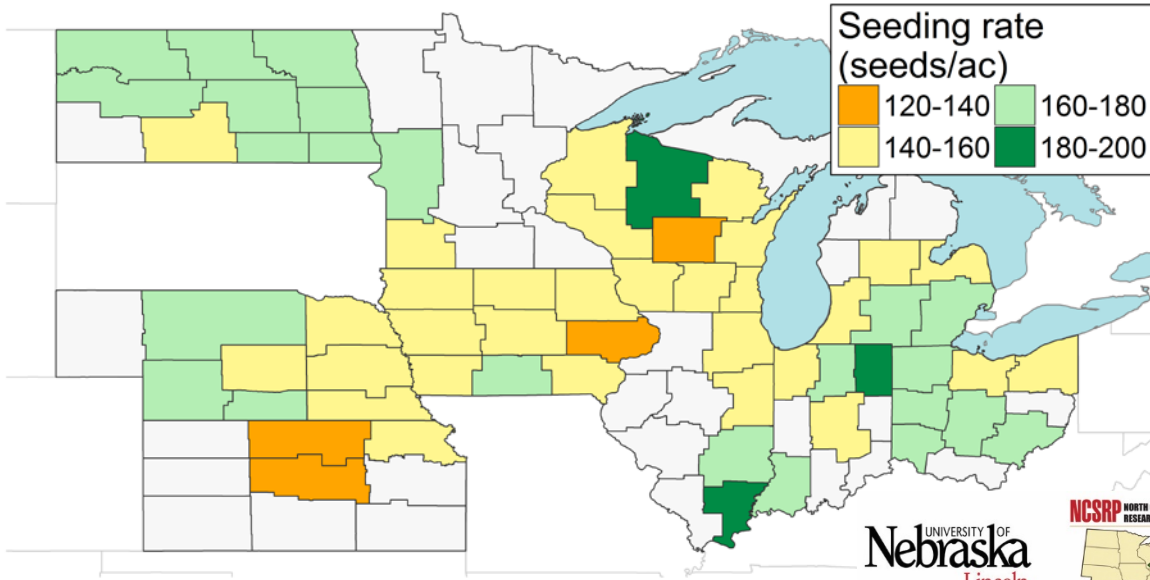
Prevalent row spacing (in)



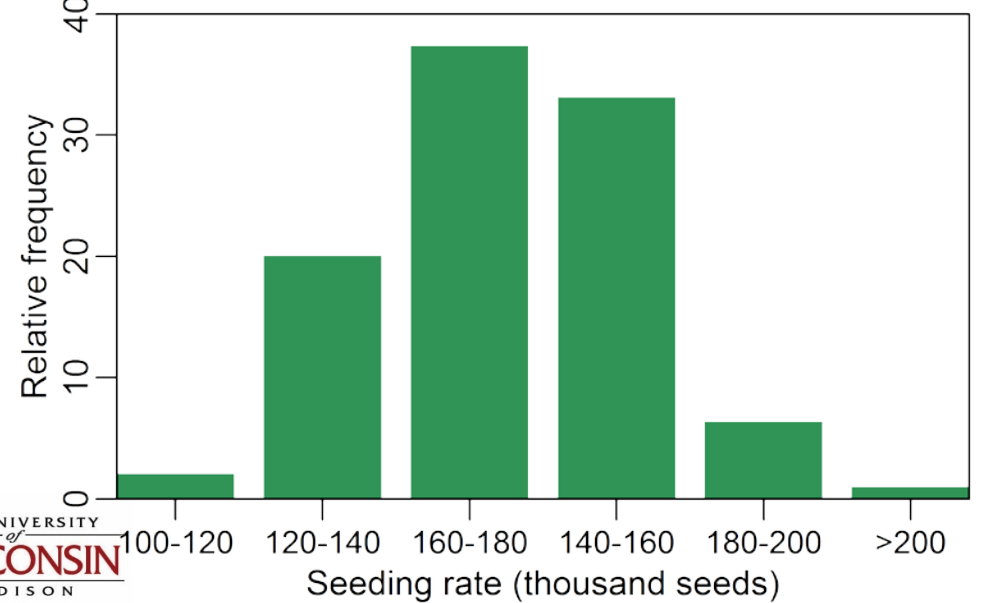
Row spacing (in)



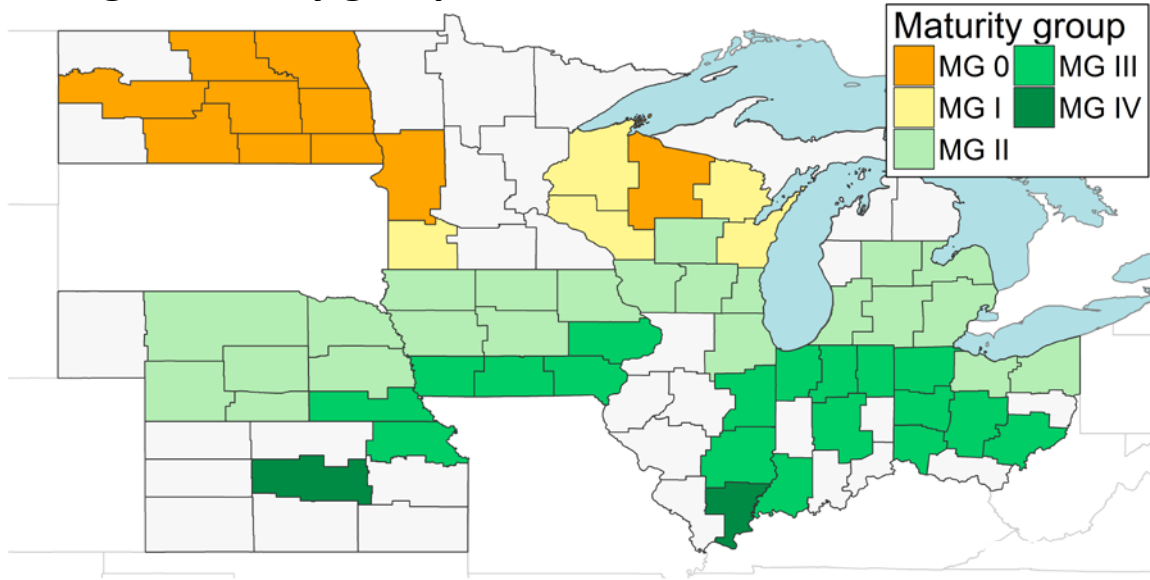
Average seeding rate (thousand seeds/ac)



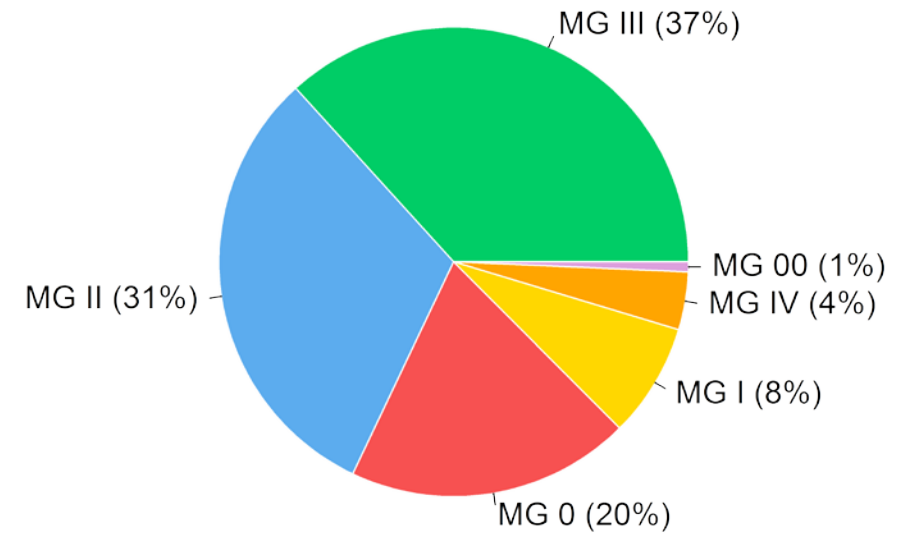
Planting date



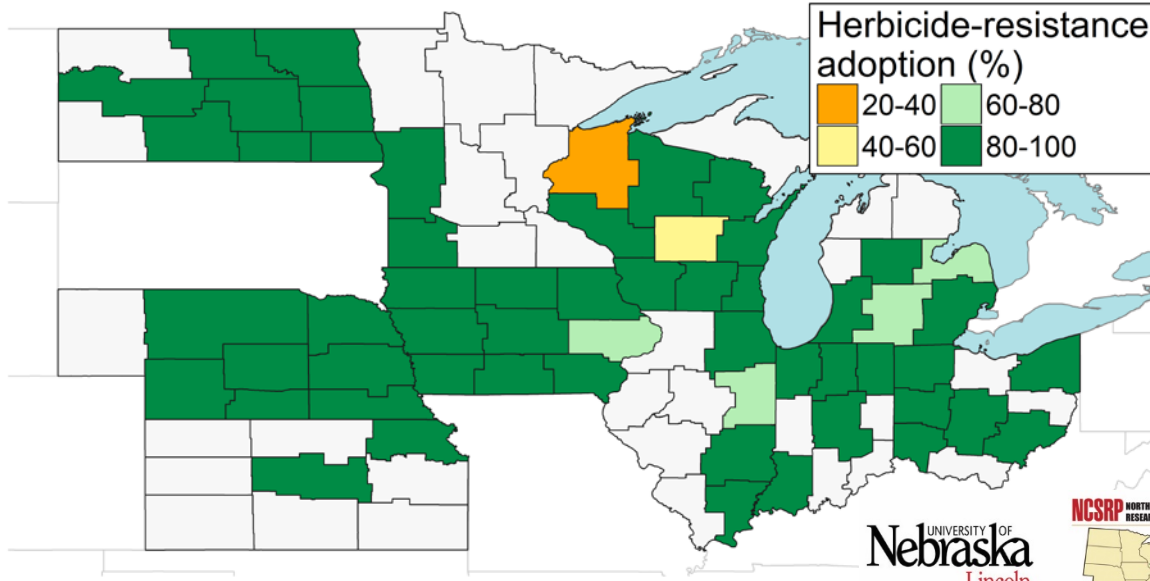
Average maturity group



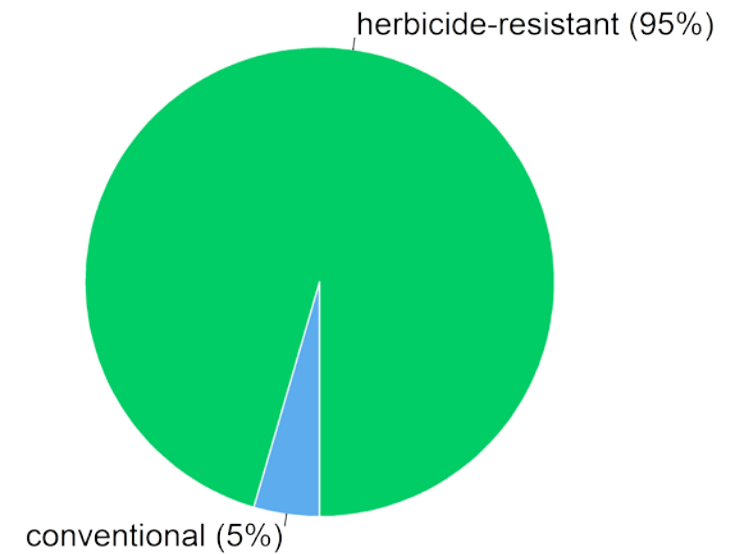
Maturity group



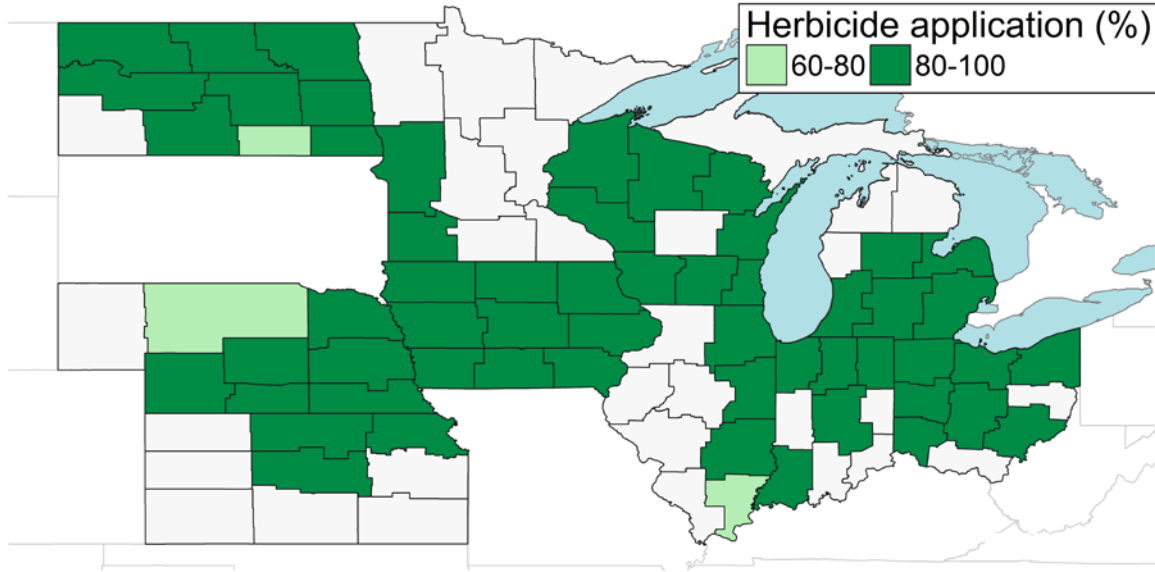
Adoption of herbicide-resistance soybean



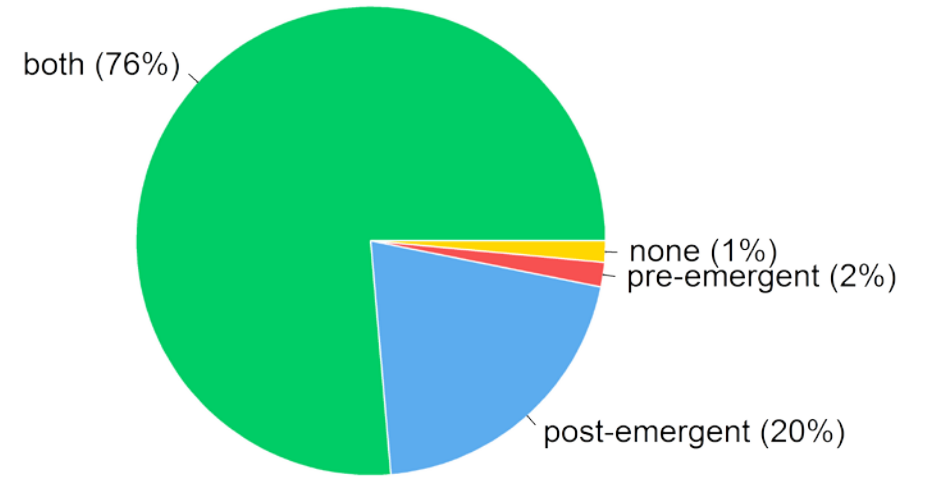
Soybean trait adoption



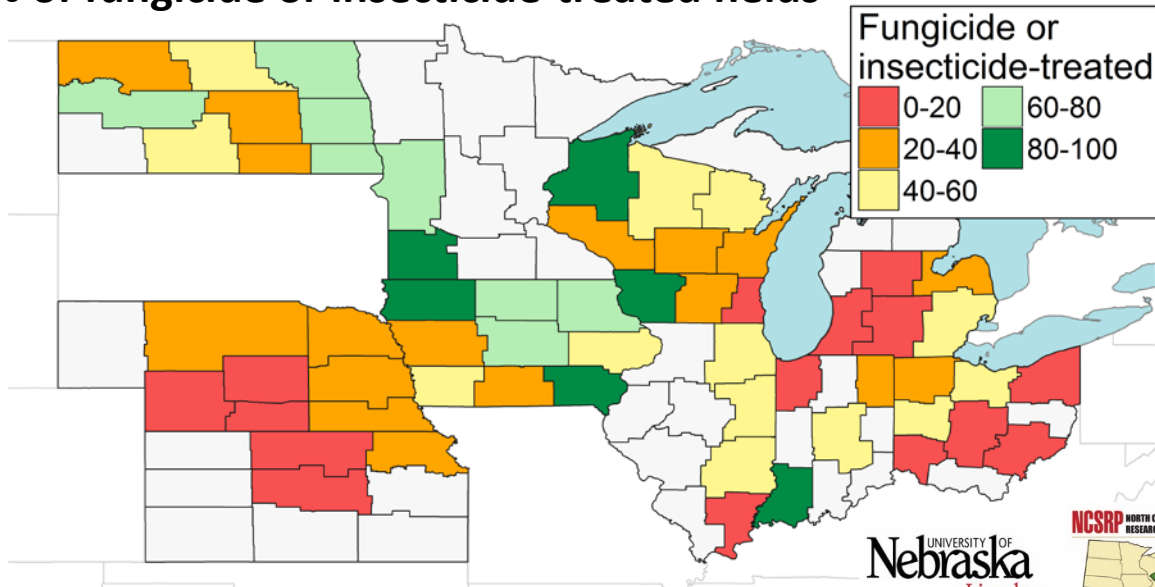
% of herbicide-treated fields



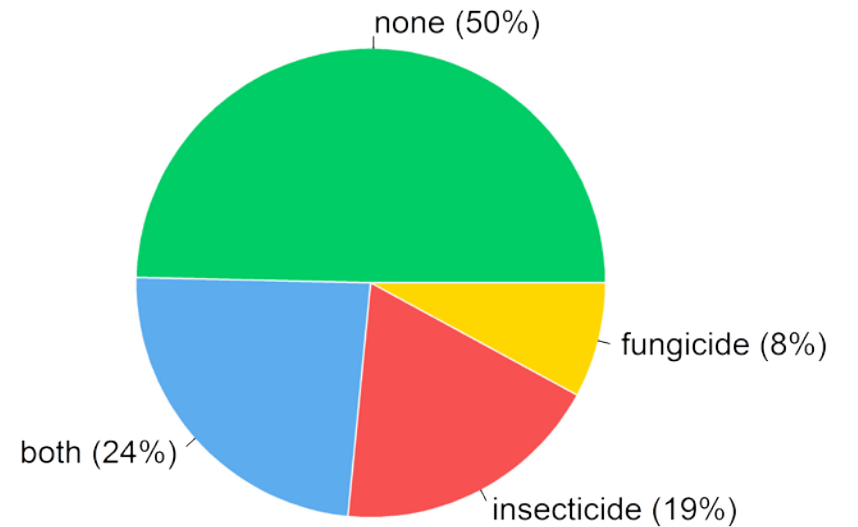
Herbicide application



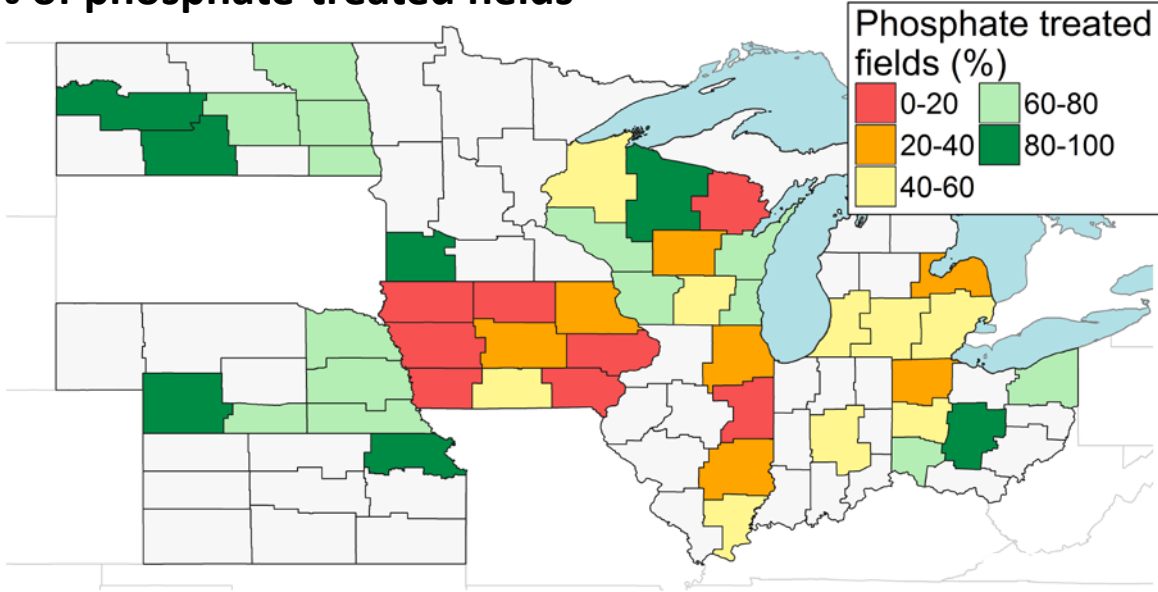
% of fungicide or insecticide-treated fields



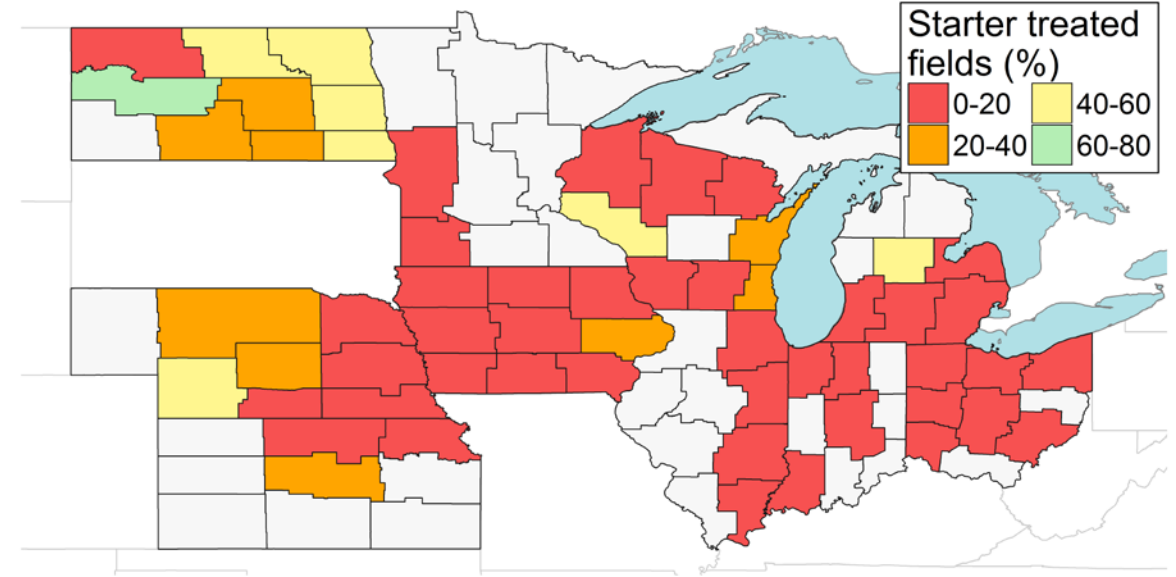
Fungicide and insecticide application



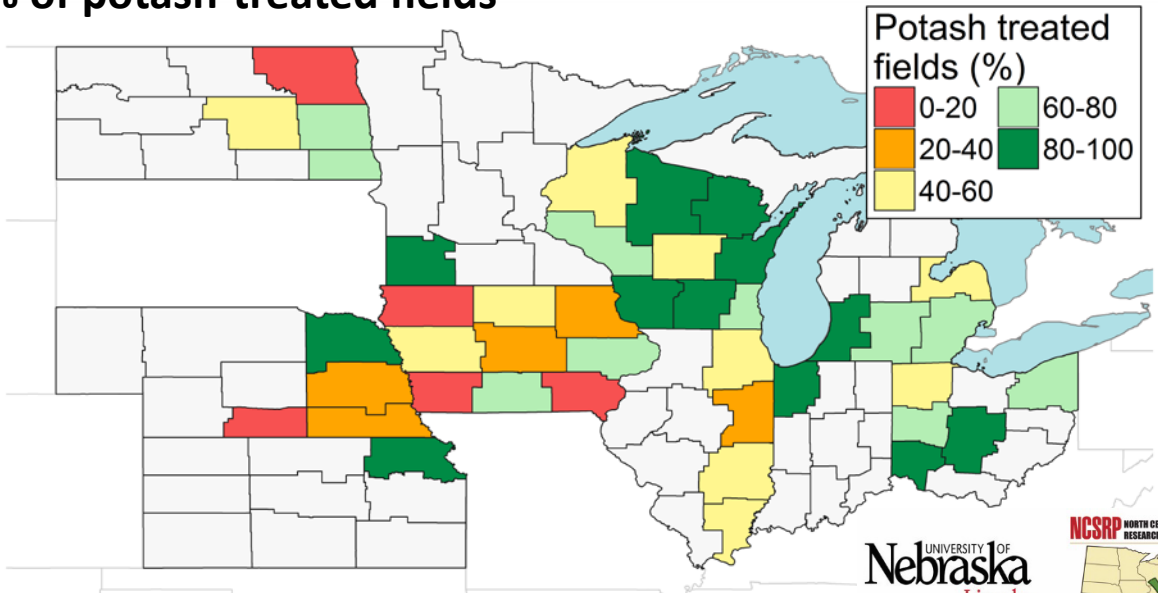
% of phosphate-treated fields



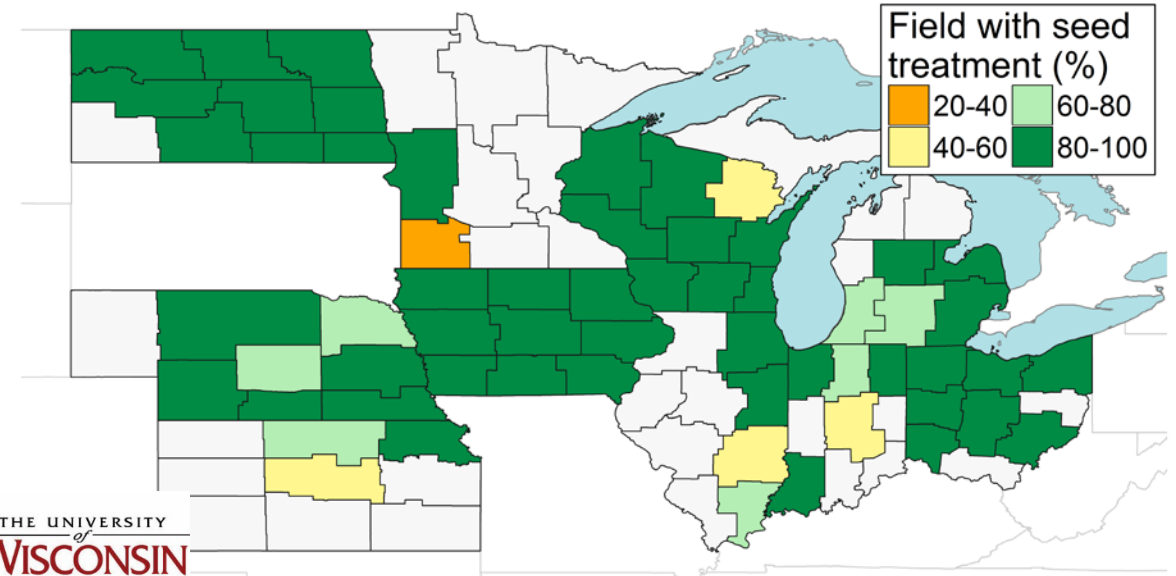
% of starter-treated fields



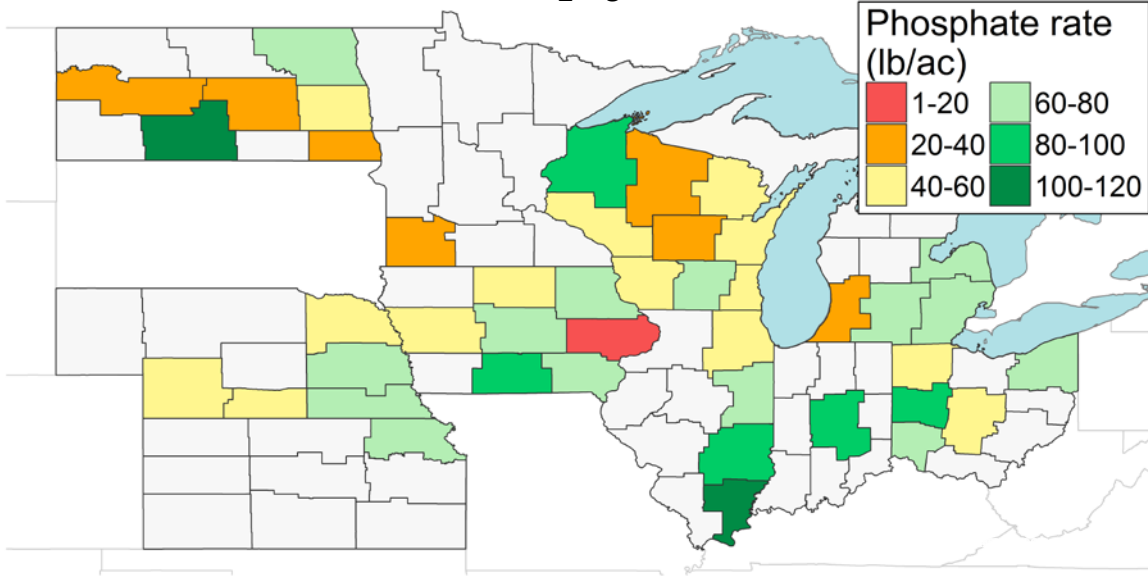
% of potash-treated fields



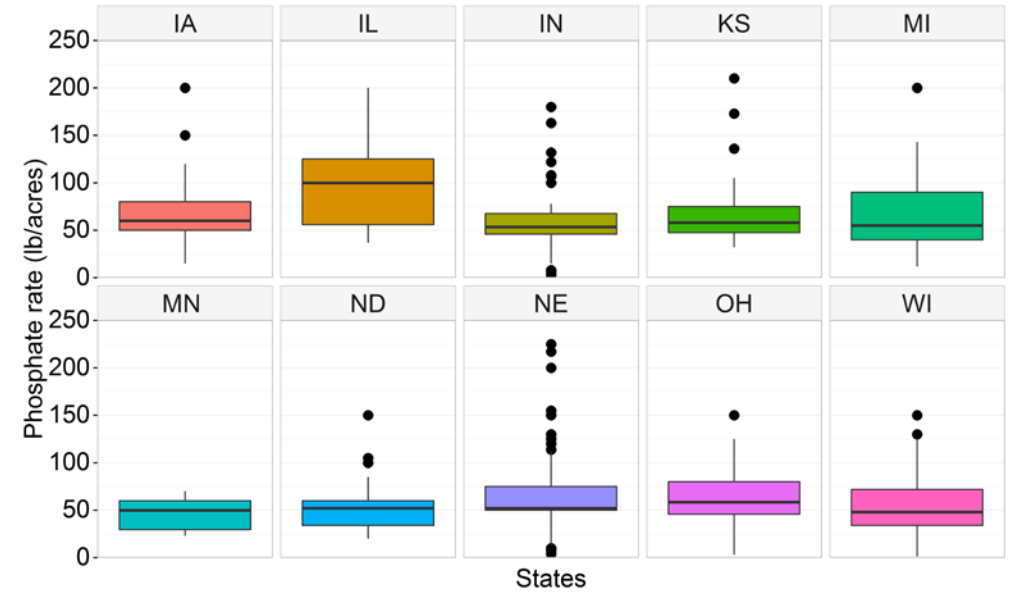
% of fields with seed treatment



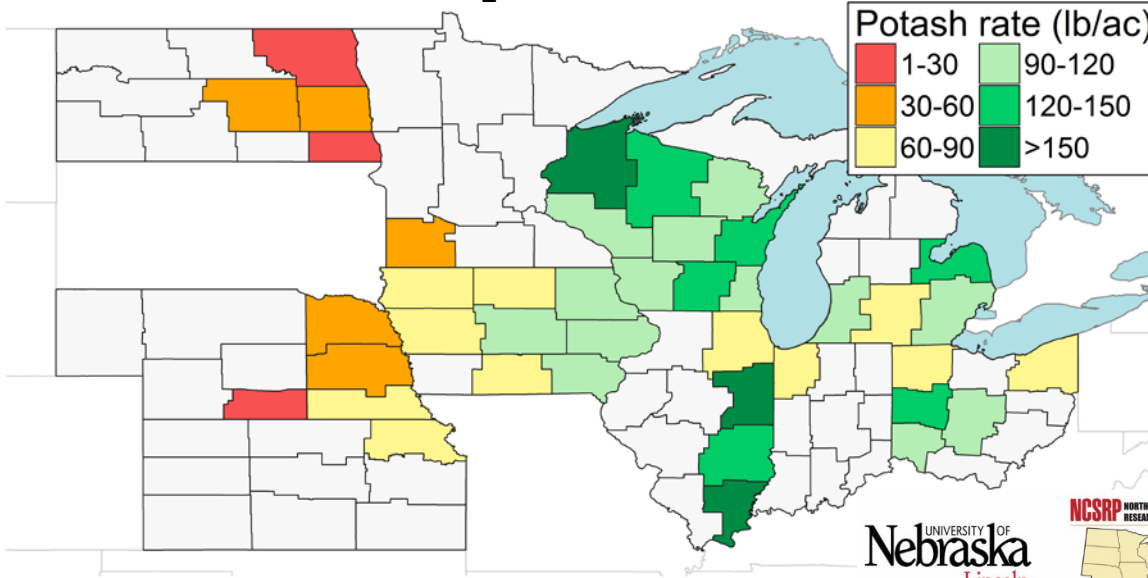
Average phosphate rate (lb P₂O₅/treated acre)



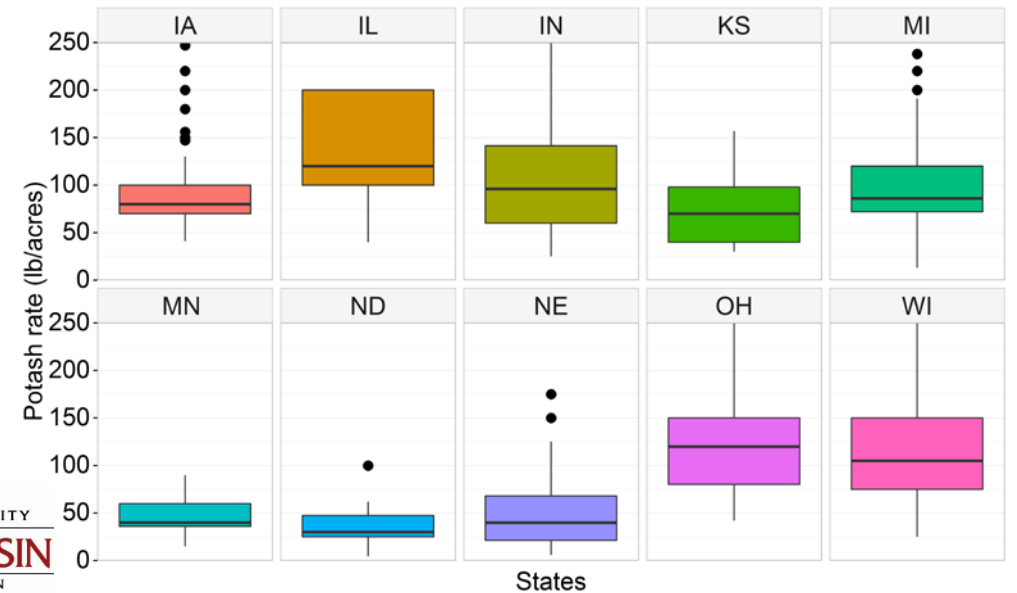
Phosphate rate (lb P₂O₅/treated acre)



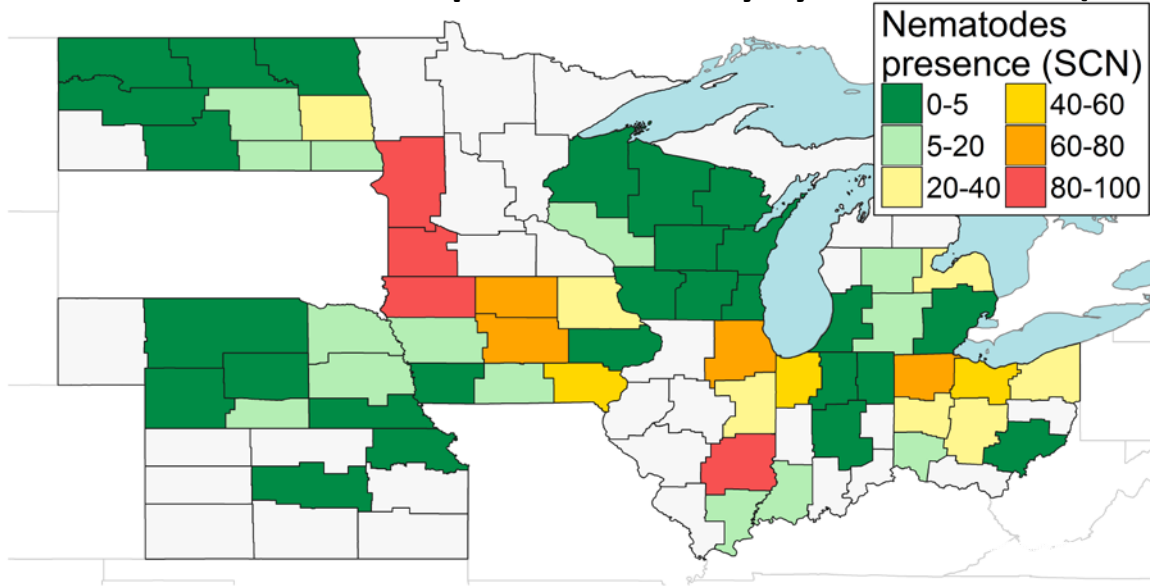
Average potash rate (lb K₂O/treated acre)



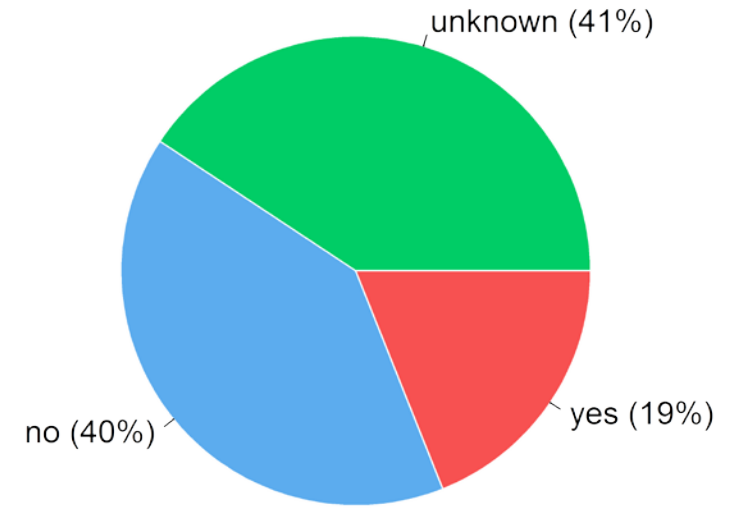
Potash rate (lb K₂O/treated acre)



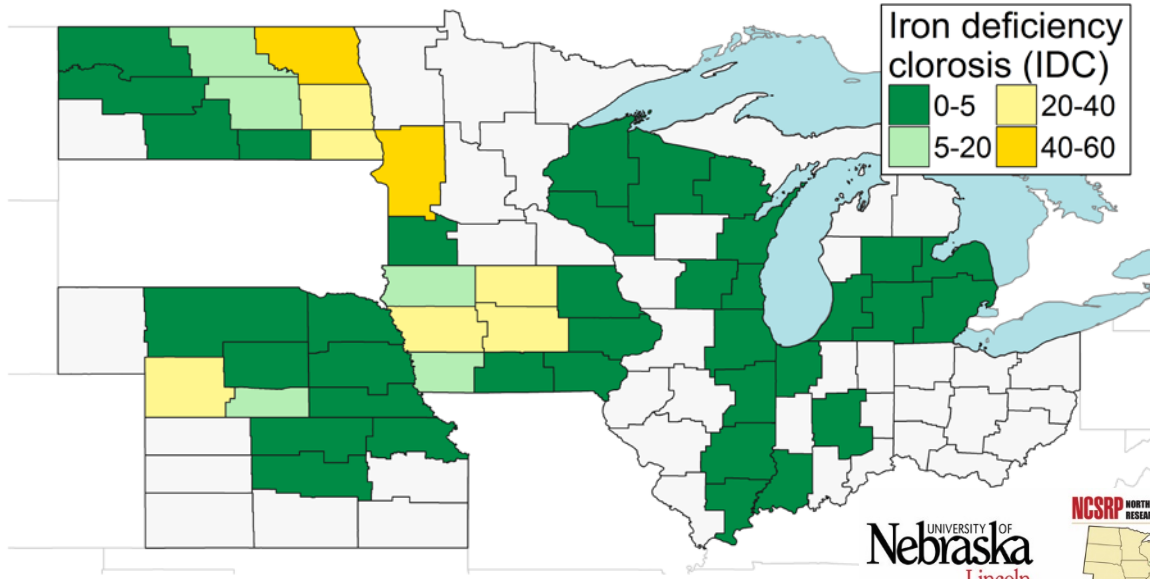
% of fields with known presence of soy cyst nematode (SCN)



Fields with soy cyst nematode (SCN)



% of fields with iron deficiency Chlorosis (IDC)



Fields with iron deficiency chlorosis (IDC)

