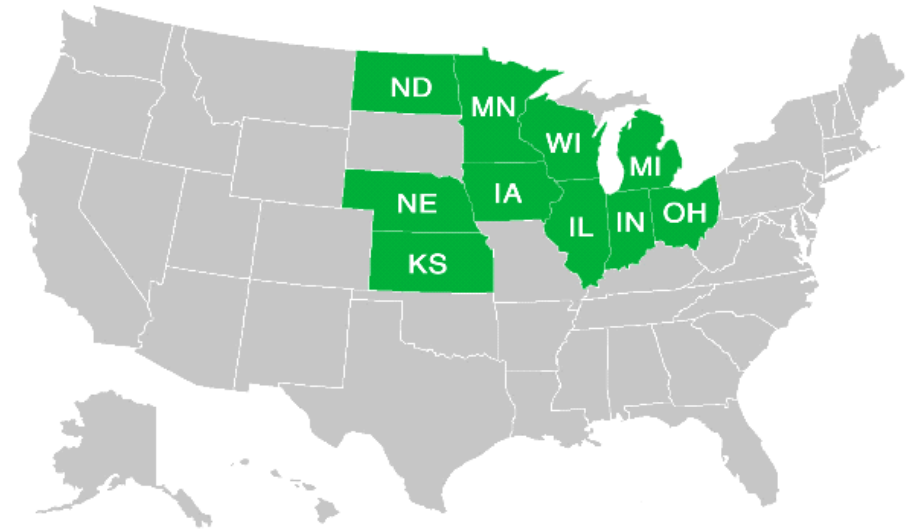


Benchmarking soybean production systems in the North-Central USA

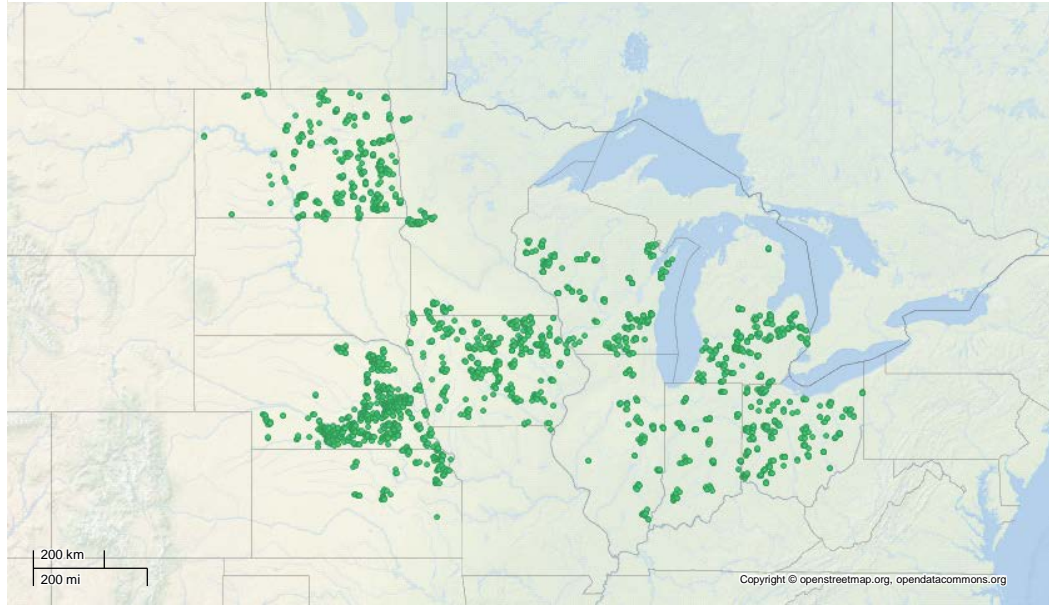
preliminary report by July 15th

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

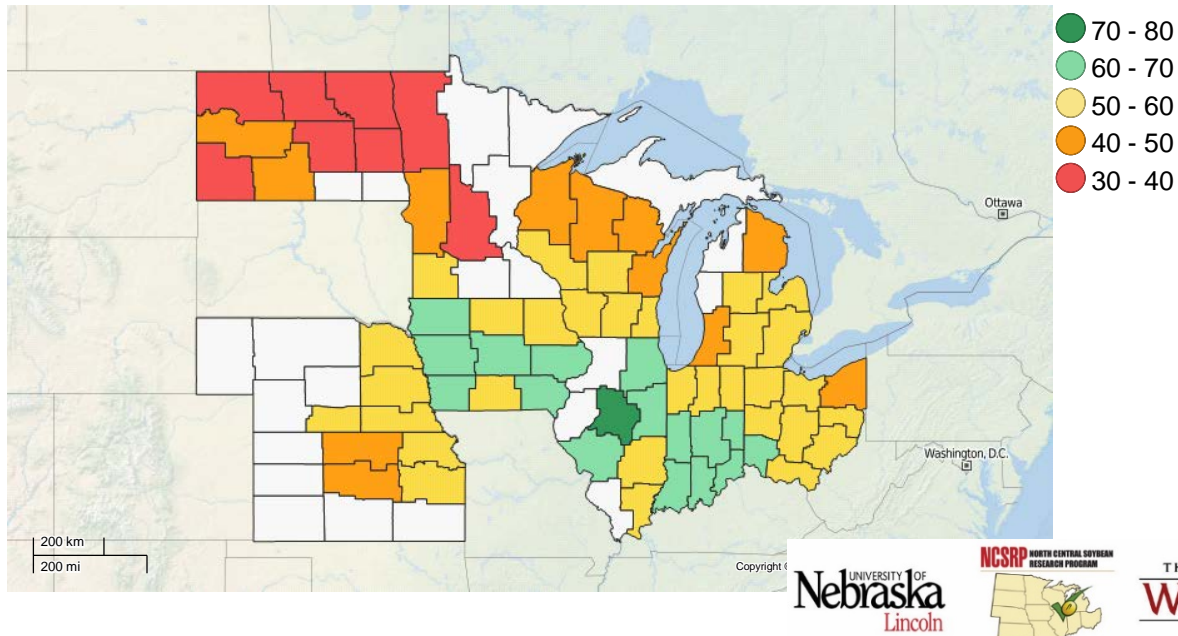
State Collaborators: Shaun Casteel, Ignacio A. Ciampitti, Mark Licht, Hans Kandel, Laura Lindsey, Darren Mueller, Seth Naeve, Emerson Nafziger, and Michael Staton



Soybean fields location



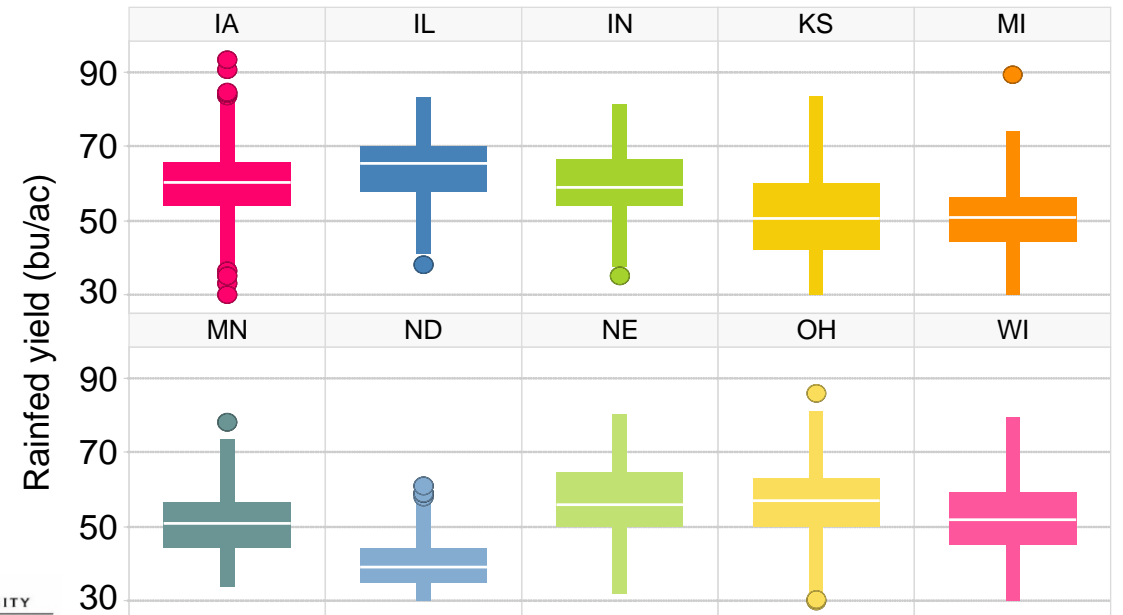
Average rainfed yield (bu/ac)



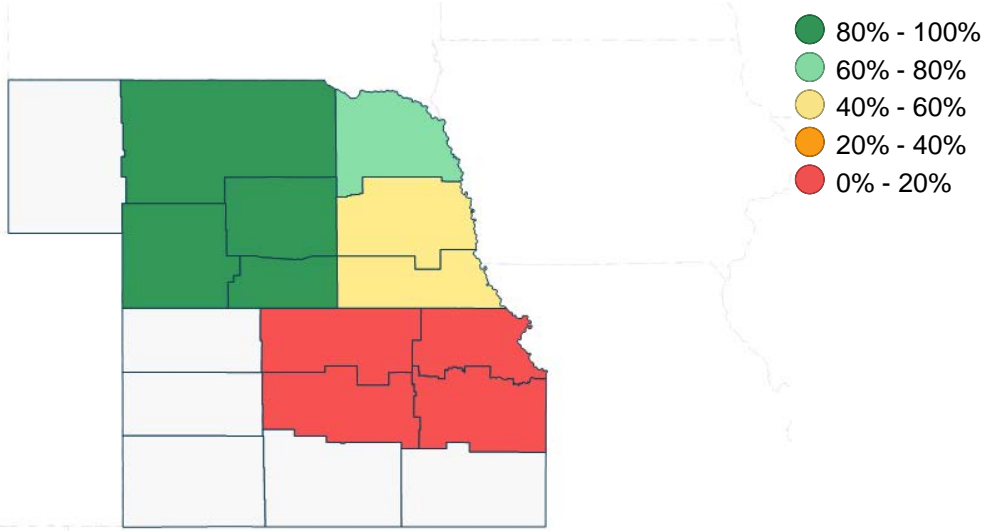
Soybean fields per year

State	Year		Grand total
	2014	2015	
IA	369	430	799
IL	41	47	88
IN	51	56	107
KS	57	68	125
MI	141	169	310
MN	35	37	72
ND	208	212	420
NE	414	483	897
OH	127	159	286
WI	117	165	282
Grand total	1560	1826	3386

Rainfed soybean yield (bu/ac)



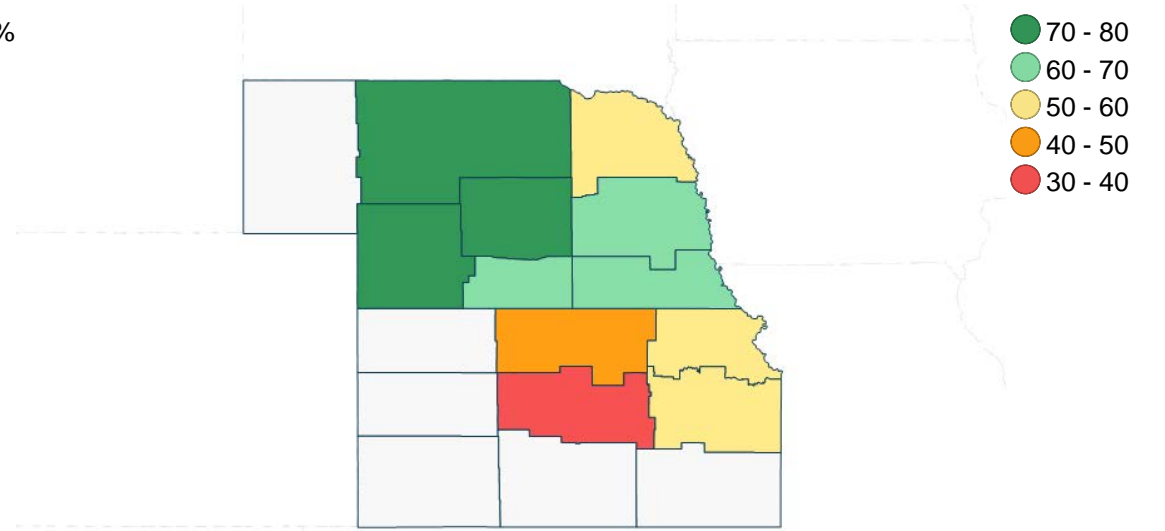
% of fields with irrigation



200 km
100 mi

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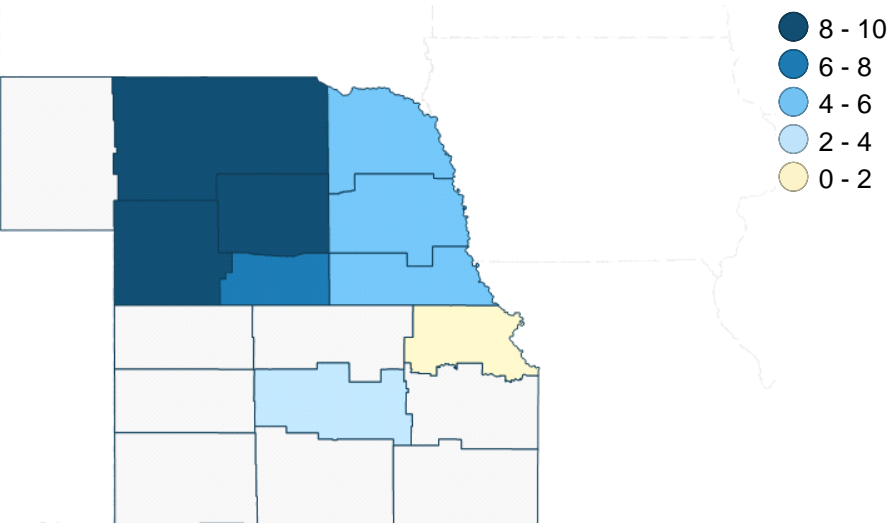
Average irrigated yields (bu/ac)



200 km
100 mi

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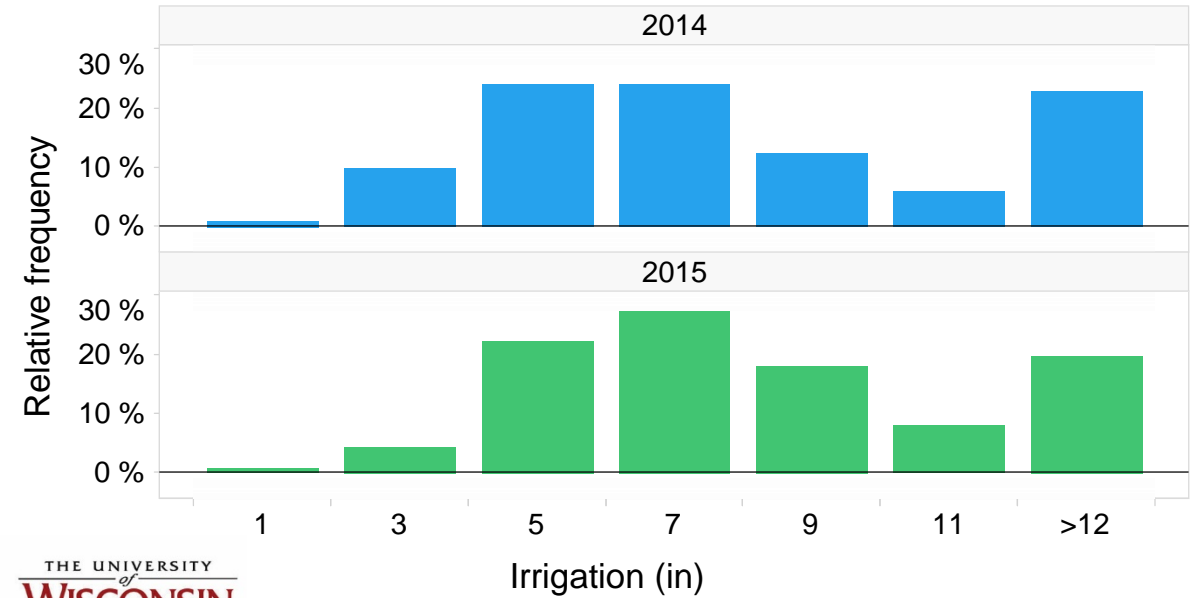
Average irrigation (in)



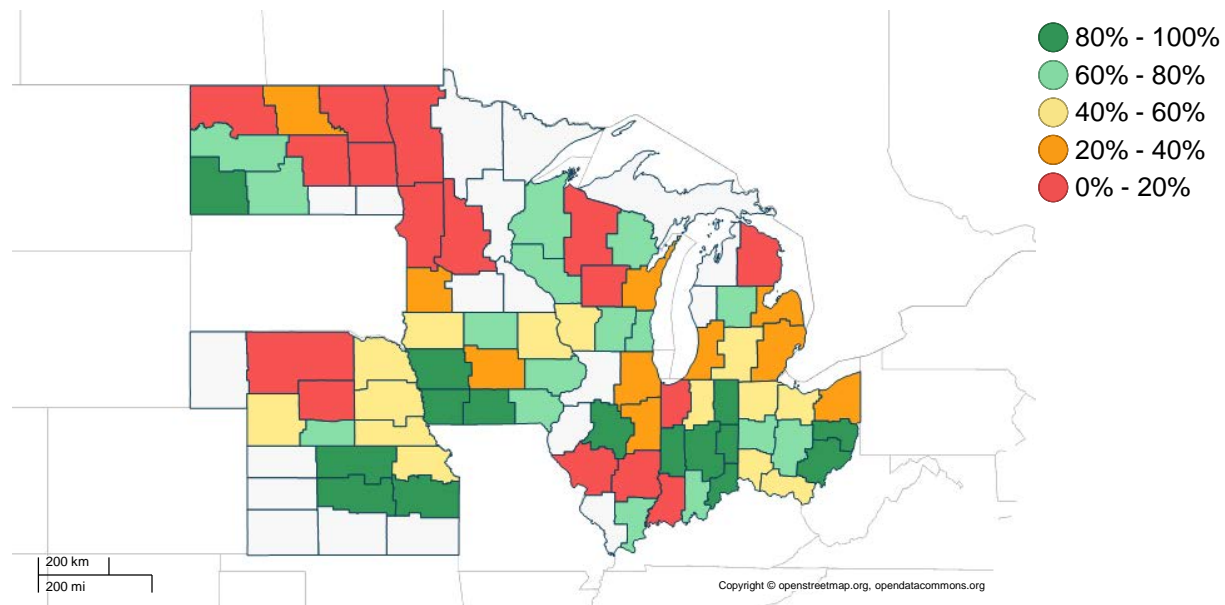
200 km
100 mi

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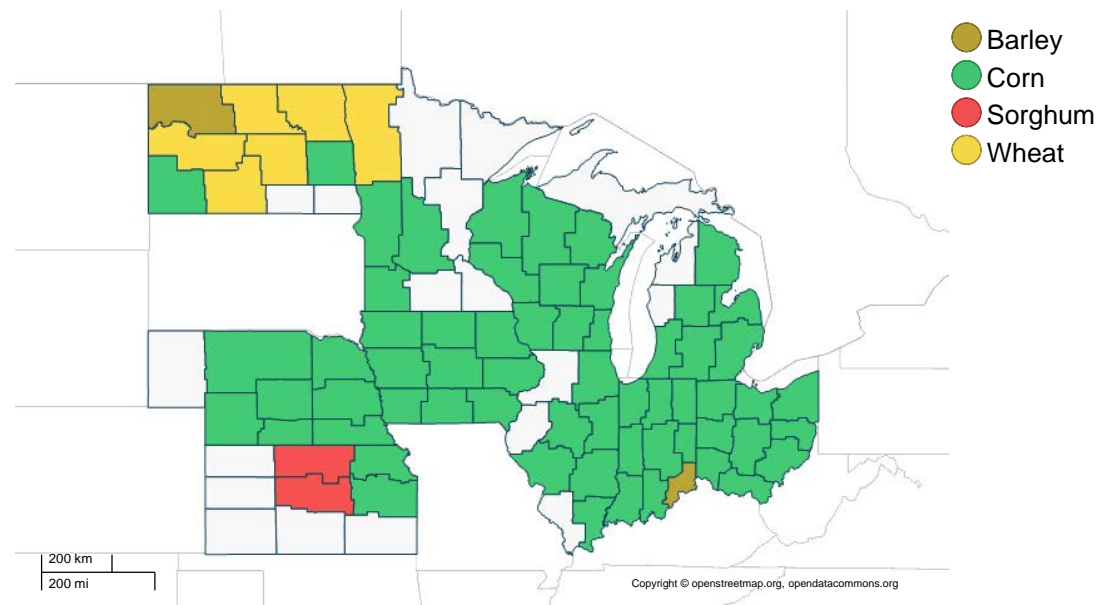
Irrigation (in)



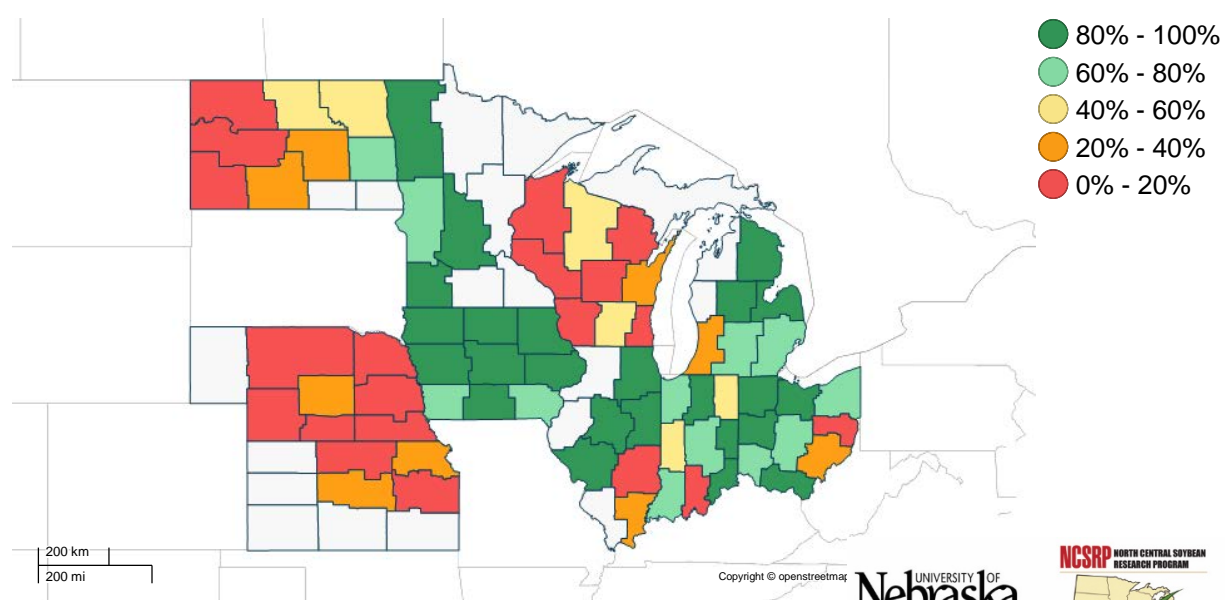
% of no-tilled fields



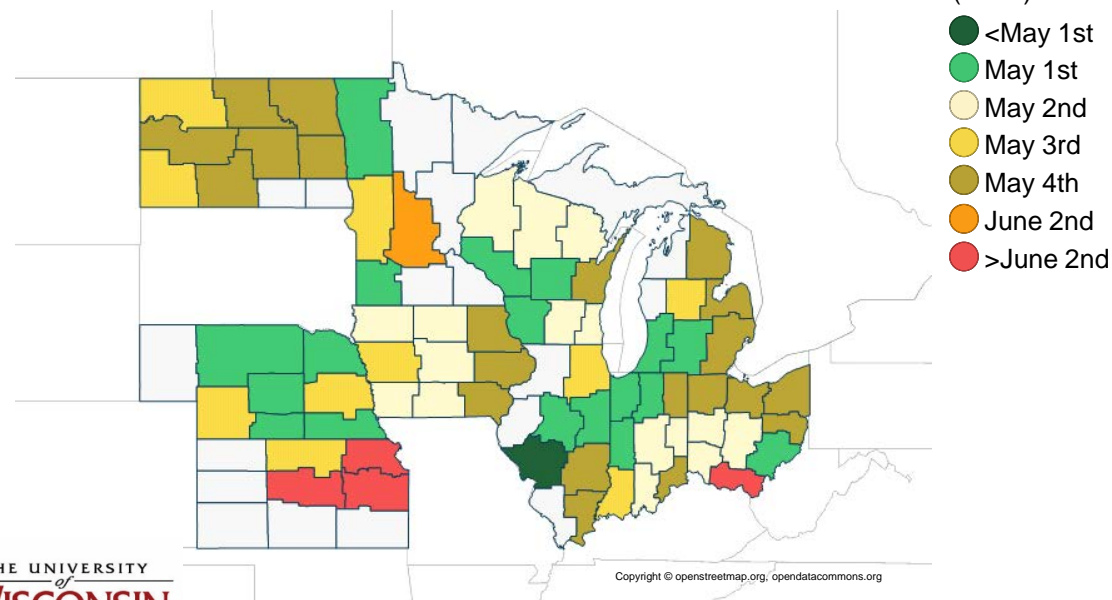
Prevalent previous crop



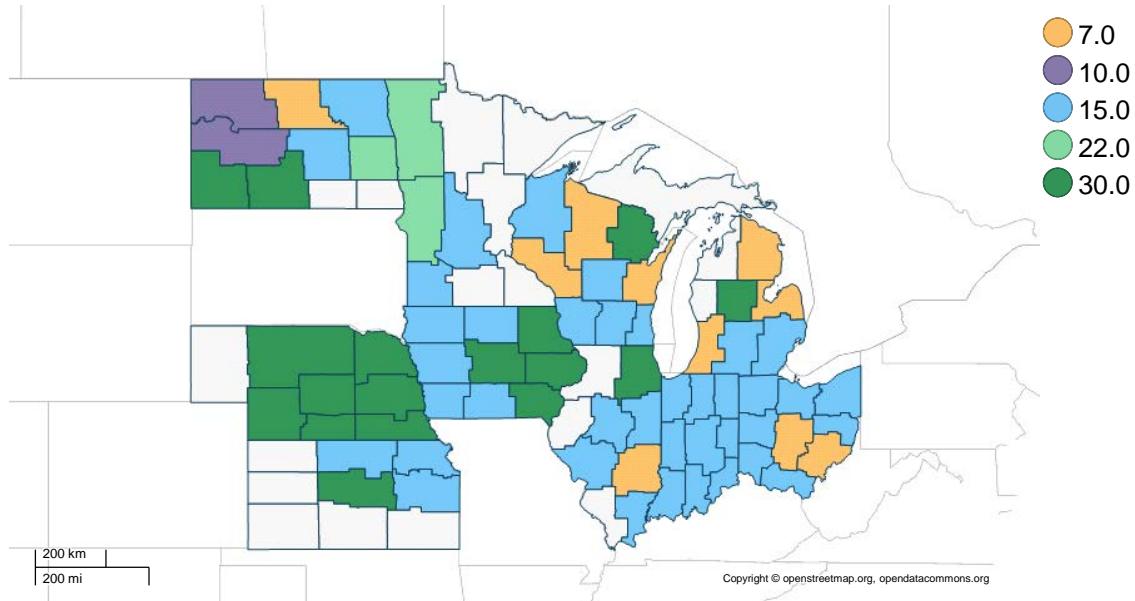
% of fields with drainage system



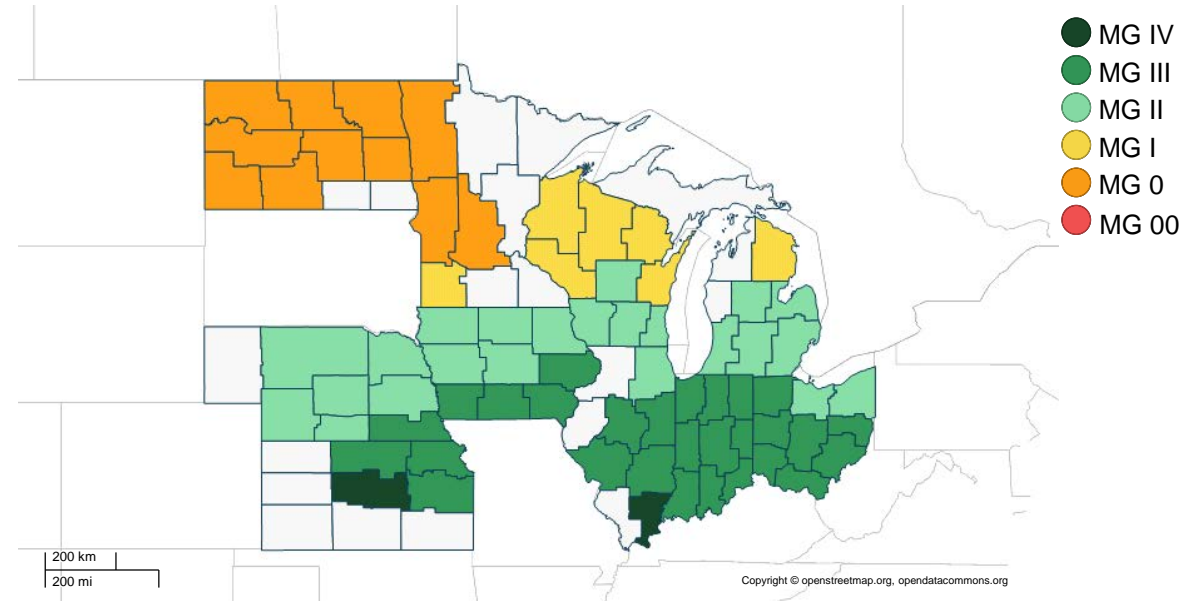
Average planting date



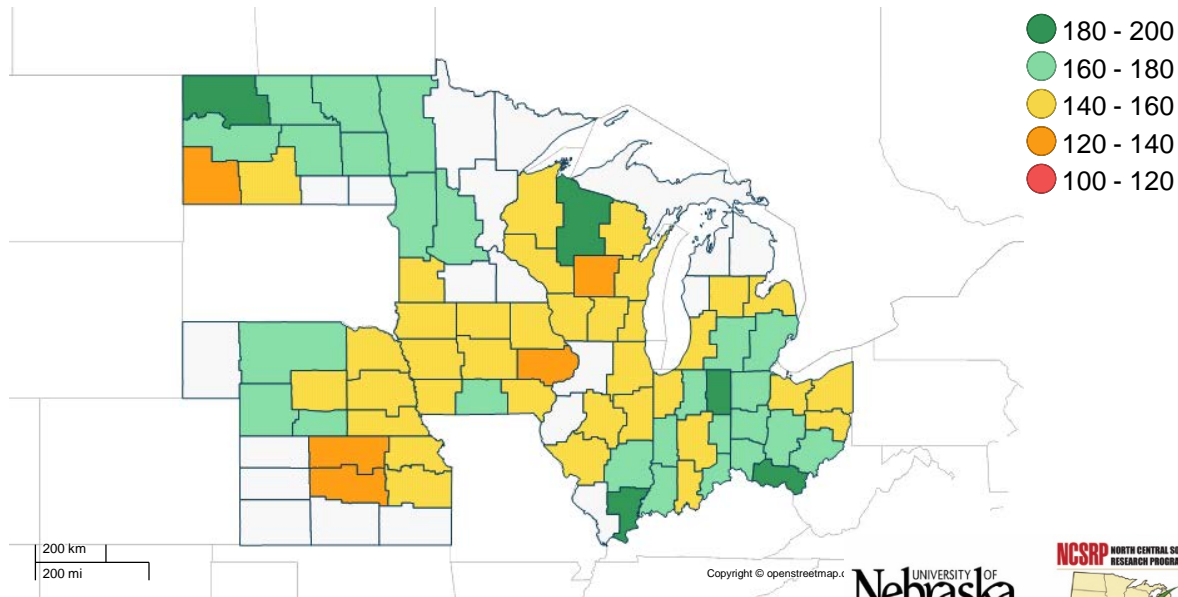
Prevalent row spacing (in)



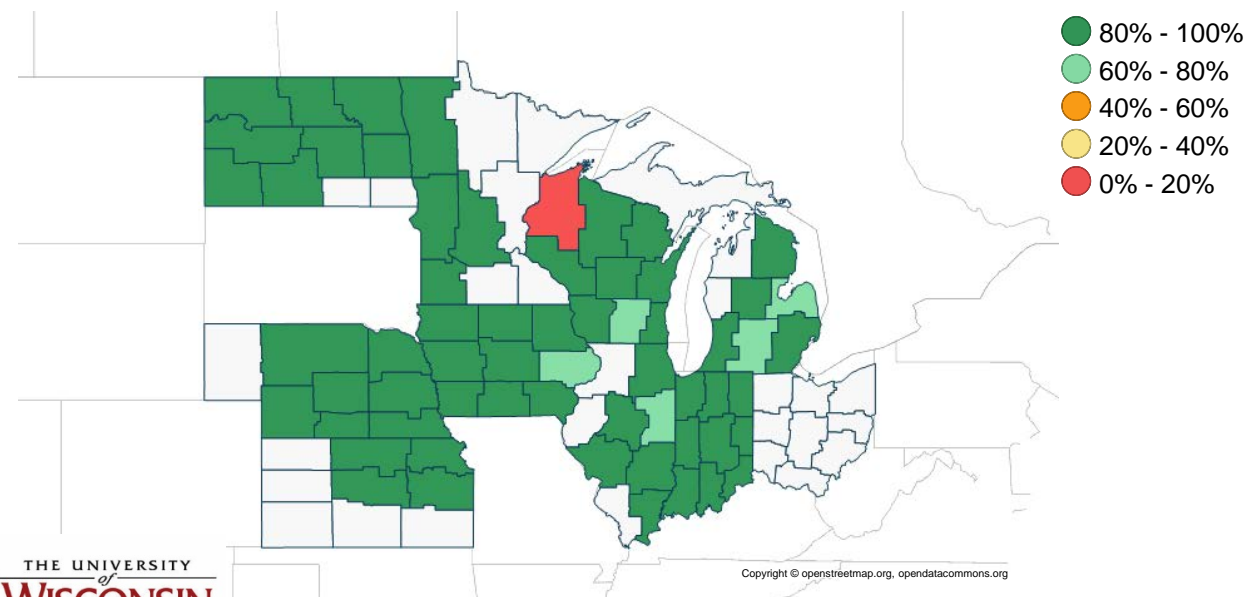
Average maturity group



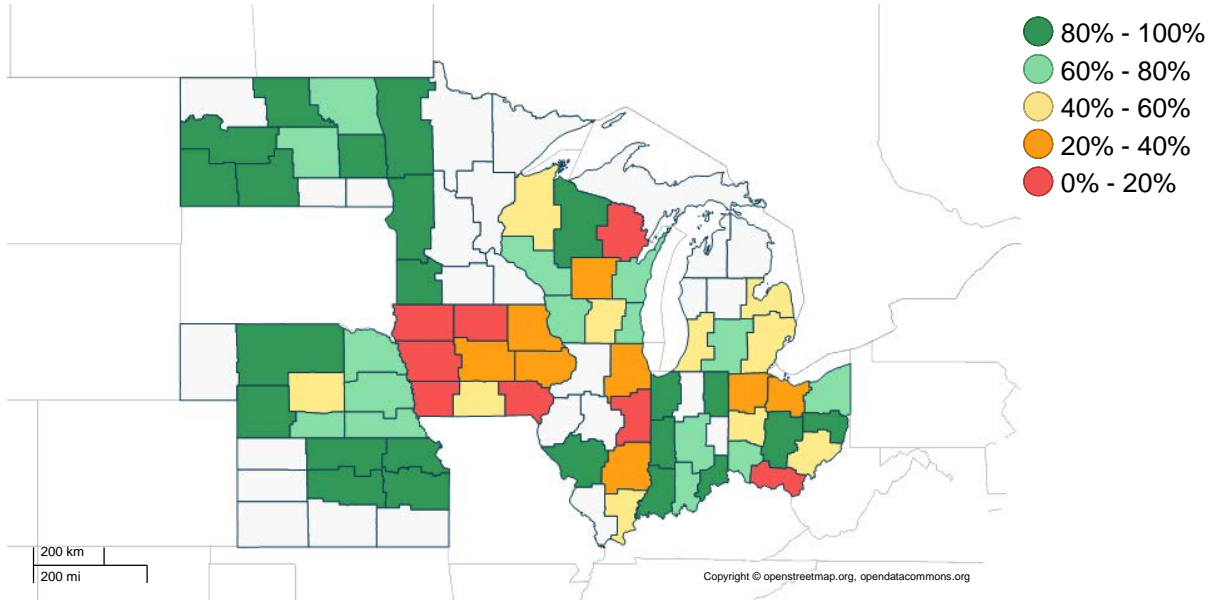
Average seeding rate (thousand seeds/ac)



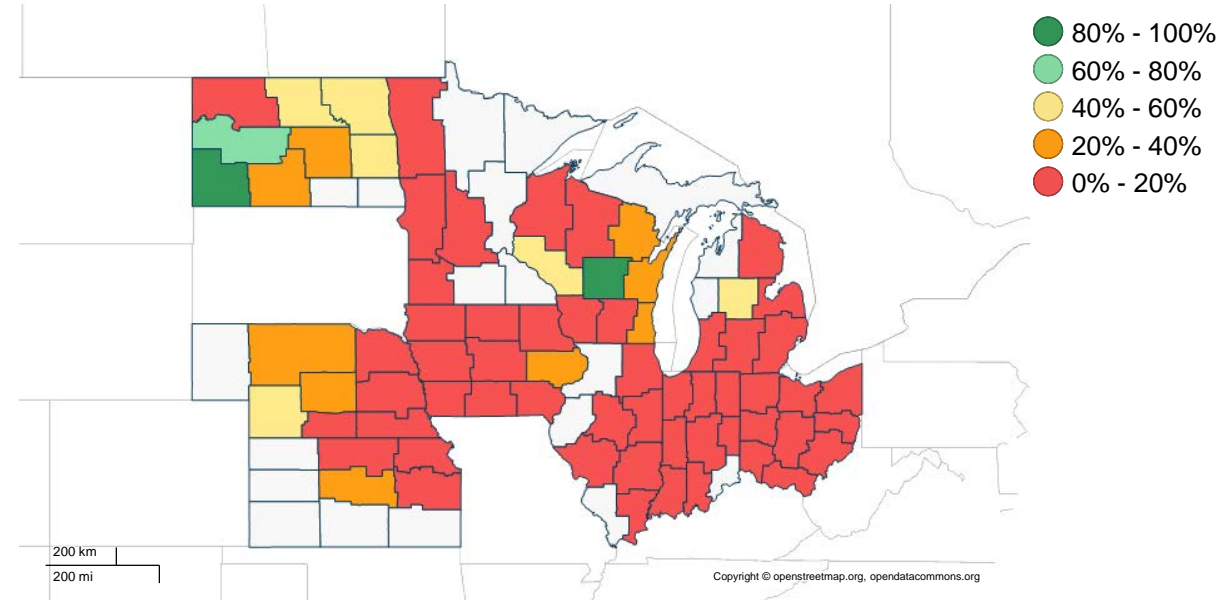
Adoption of herbicide-resistance soybean



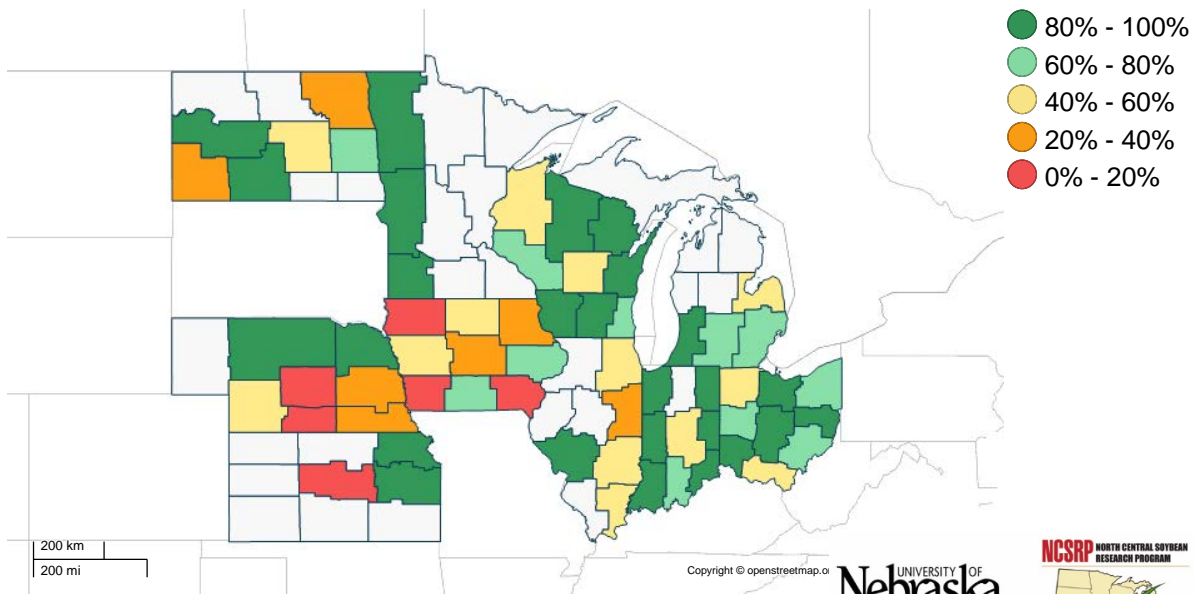
% of phosphate-treated fields



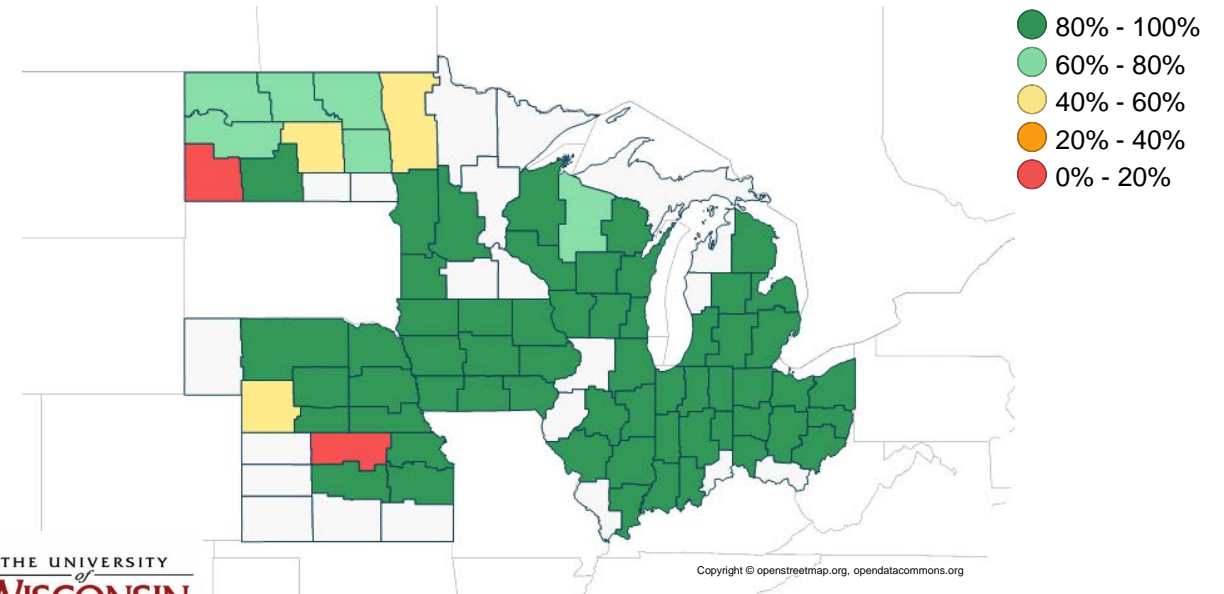
% of starter-treated fields



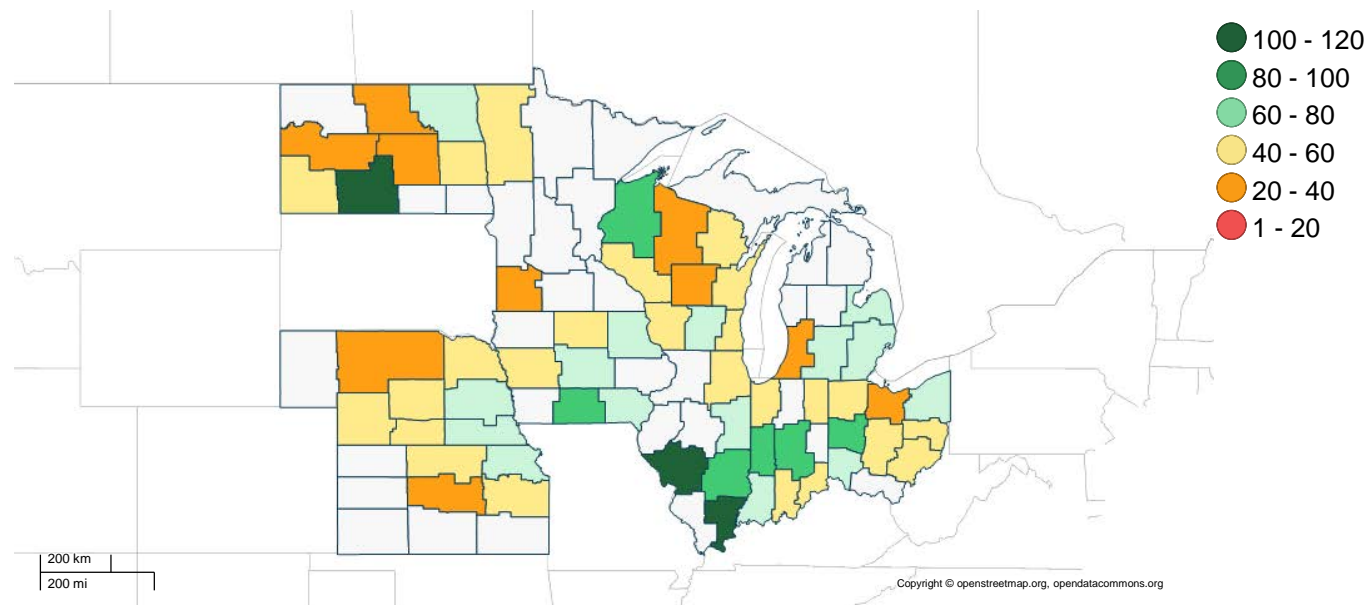
% of potash-treated fields



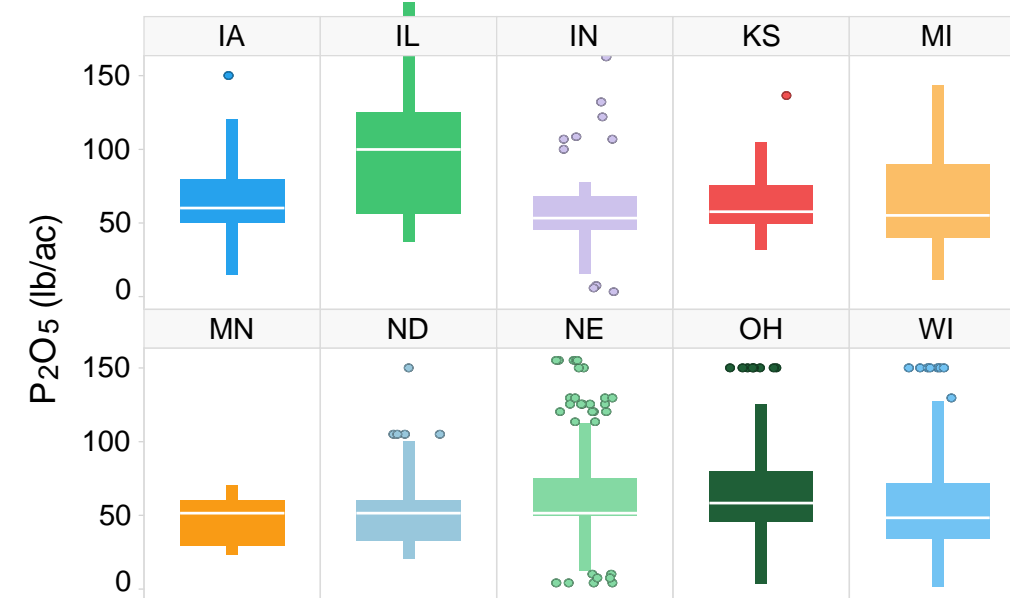
% of fields with seed treatment



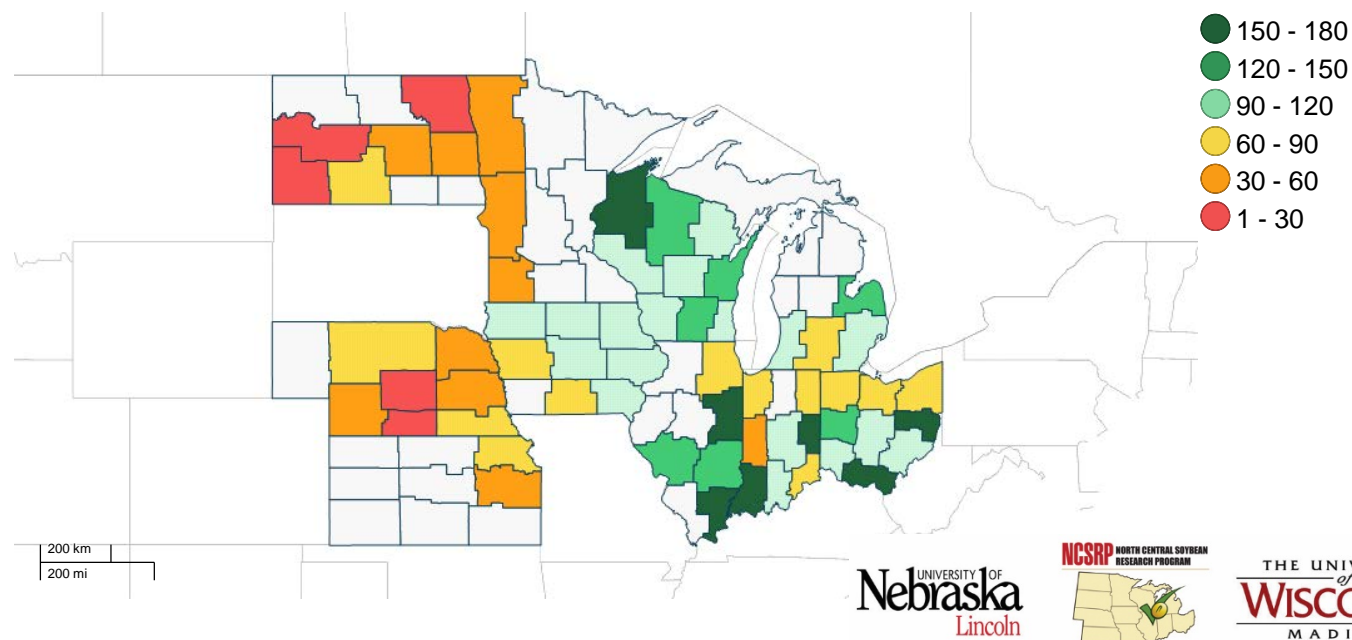
Average phosphate rate (lb P₂O₅/treated acre)



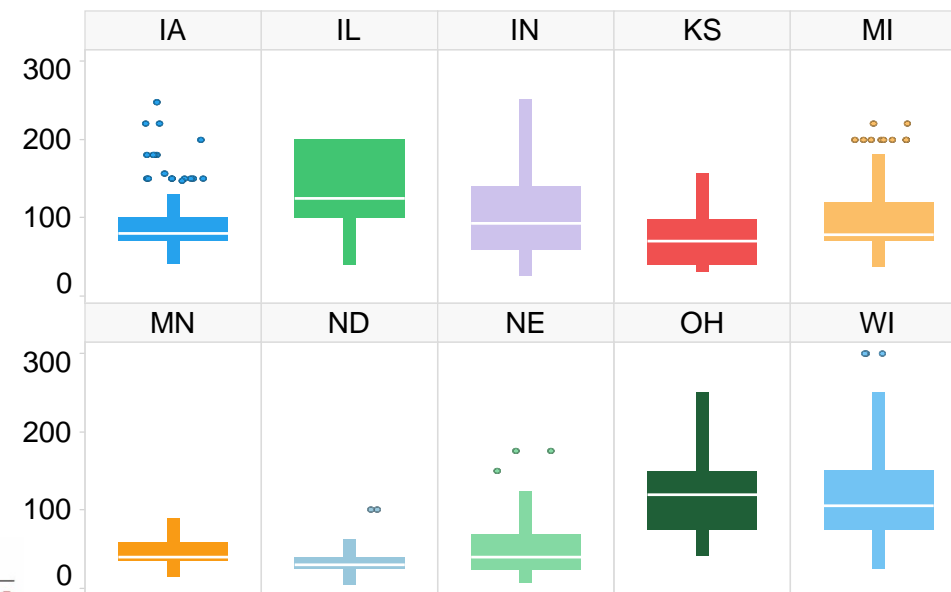
Phosphate rate (lb P₂O₅/treated acre)



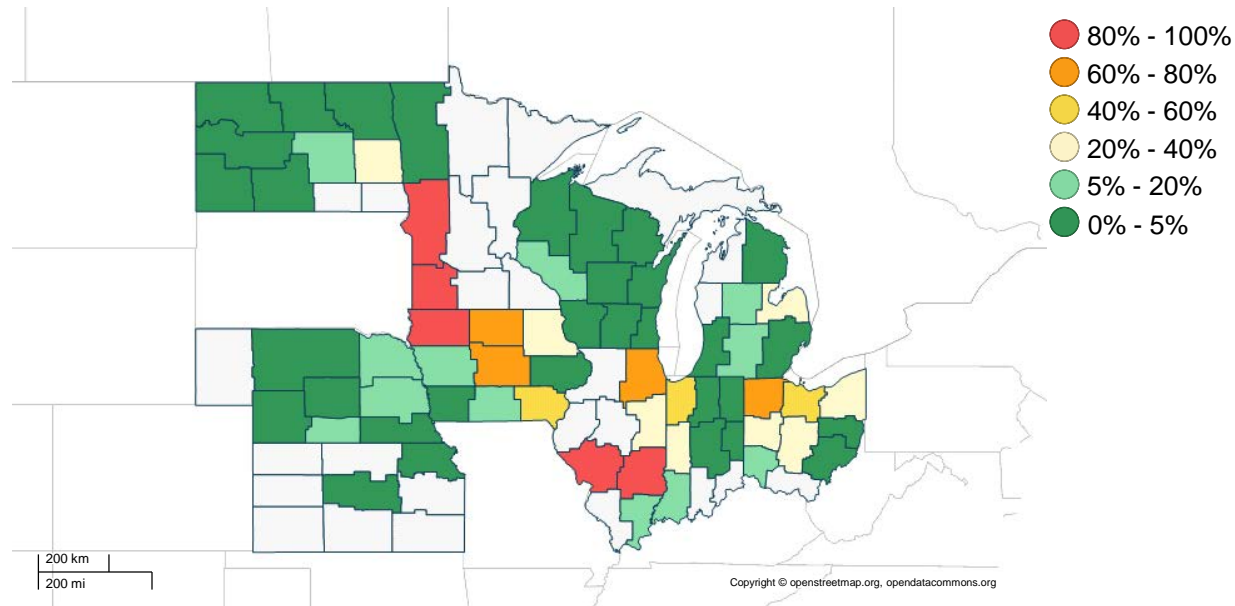
Average potash rate (lb K₂O/treated acre)



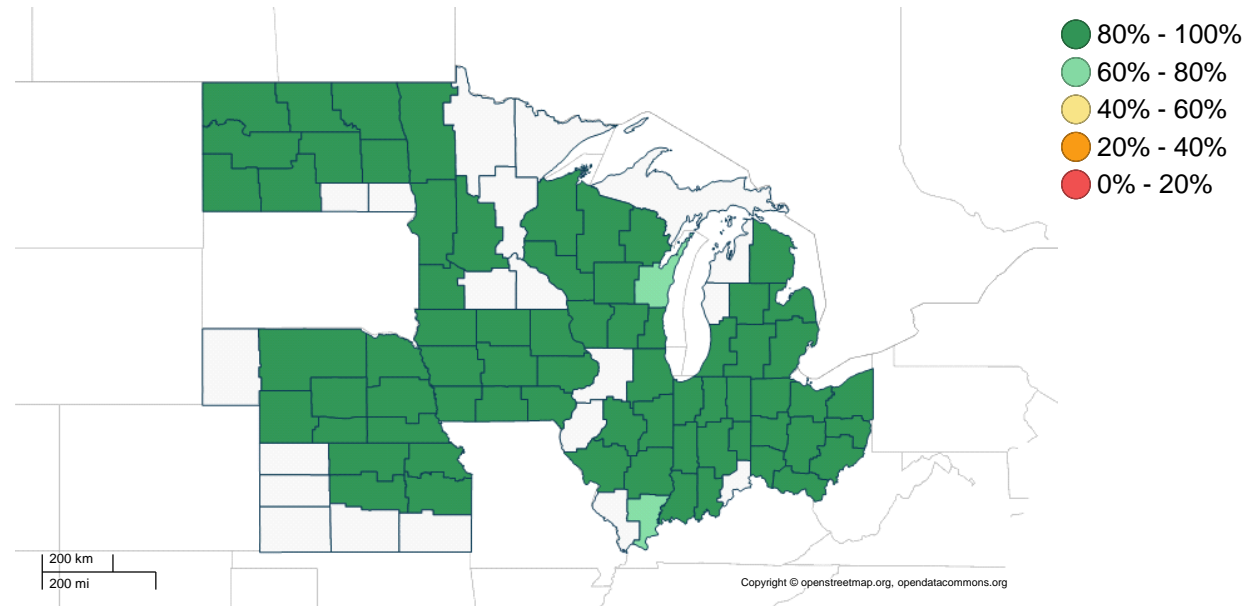
Potash rate (lb K₂O/treated acre)



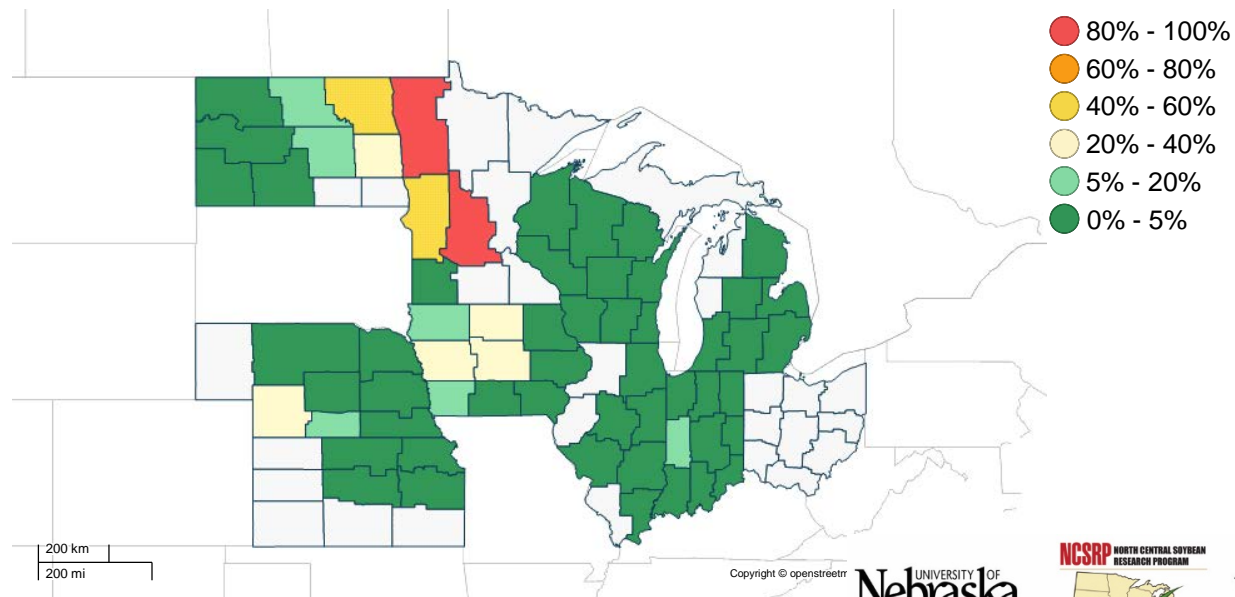
% of fields with known presence of soy cyst nematode (SCN)



% of herbicide-treated fields



% of fields with iron deficiency chlorosis (IDC)



% of fungicide or insecticide-treated fields

