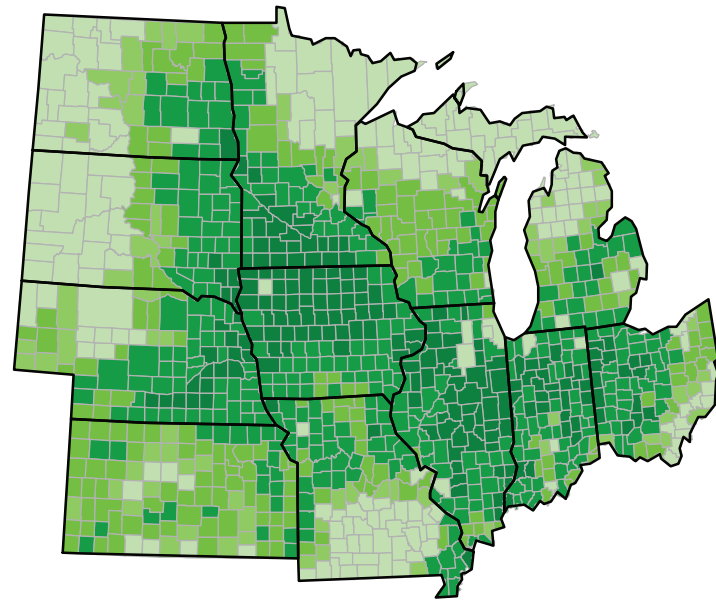
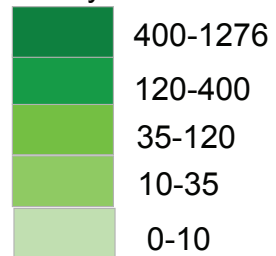


# Rotating toward a Better Future

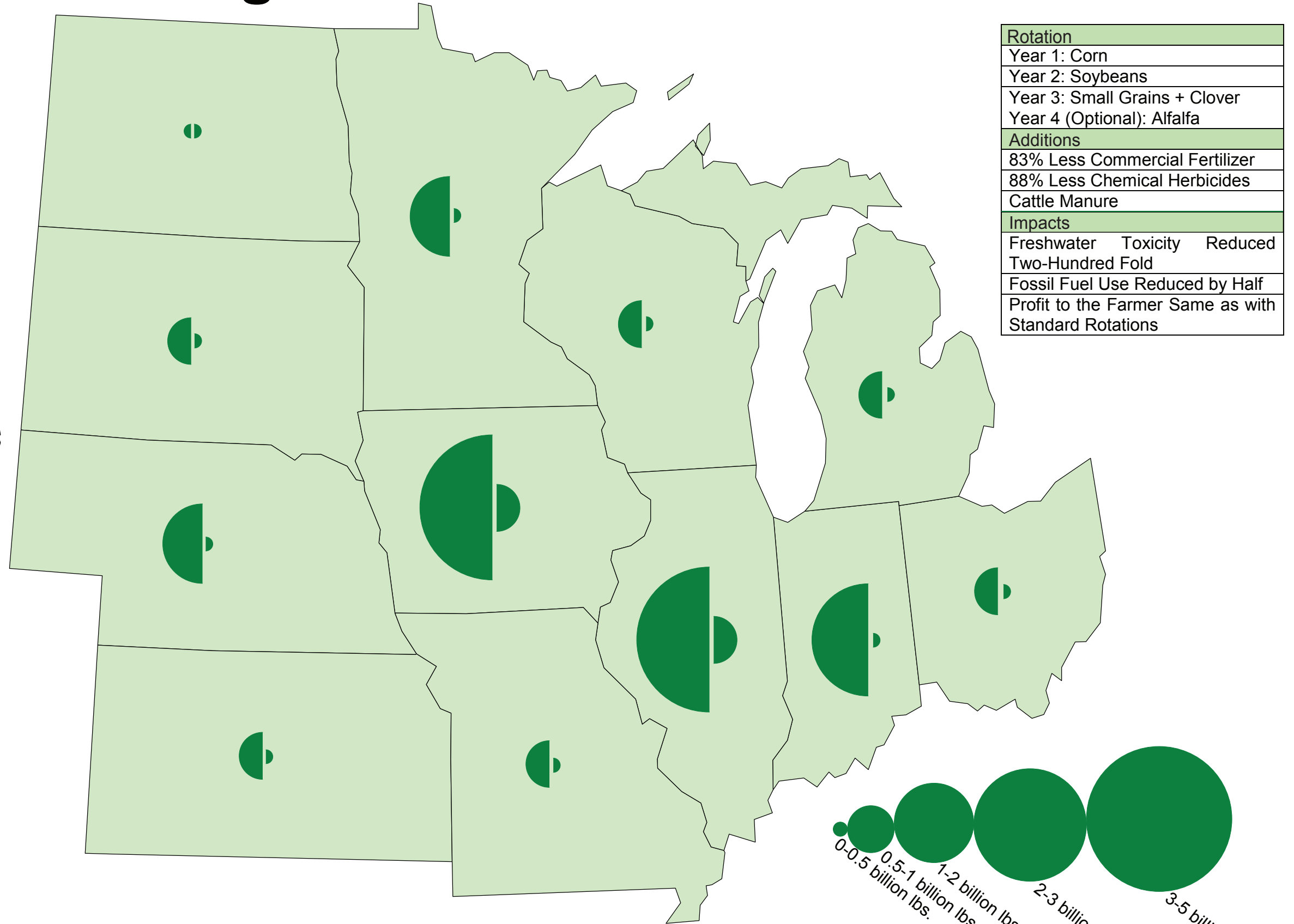
The Davis Study shows how Corn Belt farmers can reduce fossil fuel use by half and freshwater toxicity by two-hundred fold, without reducing profits. This was achieved by adding small grain, red clover, or alfalfa to the standard two year corn/soybean rotation and supplementing with cattle manure.



Corn and Soybean Harvested acres/sq.mi.



Data from "Increasing Cropping System Diversity Balances Productivity, Profitability, and Environmental Health" by Davis et al. in *PLOS One*: Vol 7, Issue 10, October 2012 combined with current USDA statistics.



Rotation		
Year 1:	Corn	
Year 2:	Soybeans	
Year 3:	Small Grains + Clover	
Year 4 (Optional):	Alfalfa	
Additions		
83% Less Commercial Fertilizer		
88% Less Chemical Herbicides		
Cattle Manure		
Impacts		
Freshwater Toxicity	Reduced	Two-Hundred Fold
Fossil Fuel Use	Reduced by Half	
Profit to the Farmer	Same as with Standard Rotations	

## Chemical Herbicides and Fertilizers Used on Corn

Left Side: Current use

Right Side: Projected use if all farmers used the recommended rotation