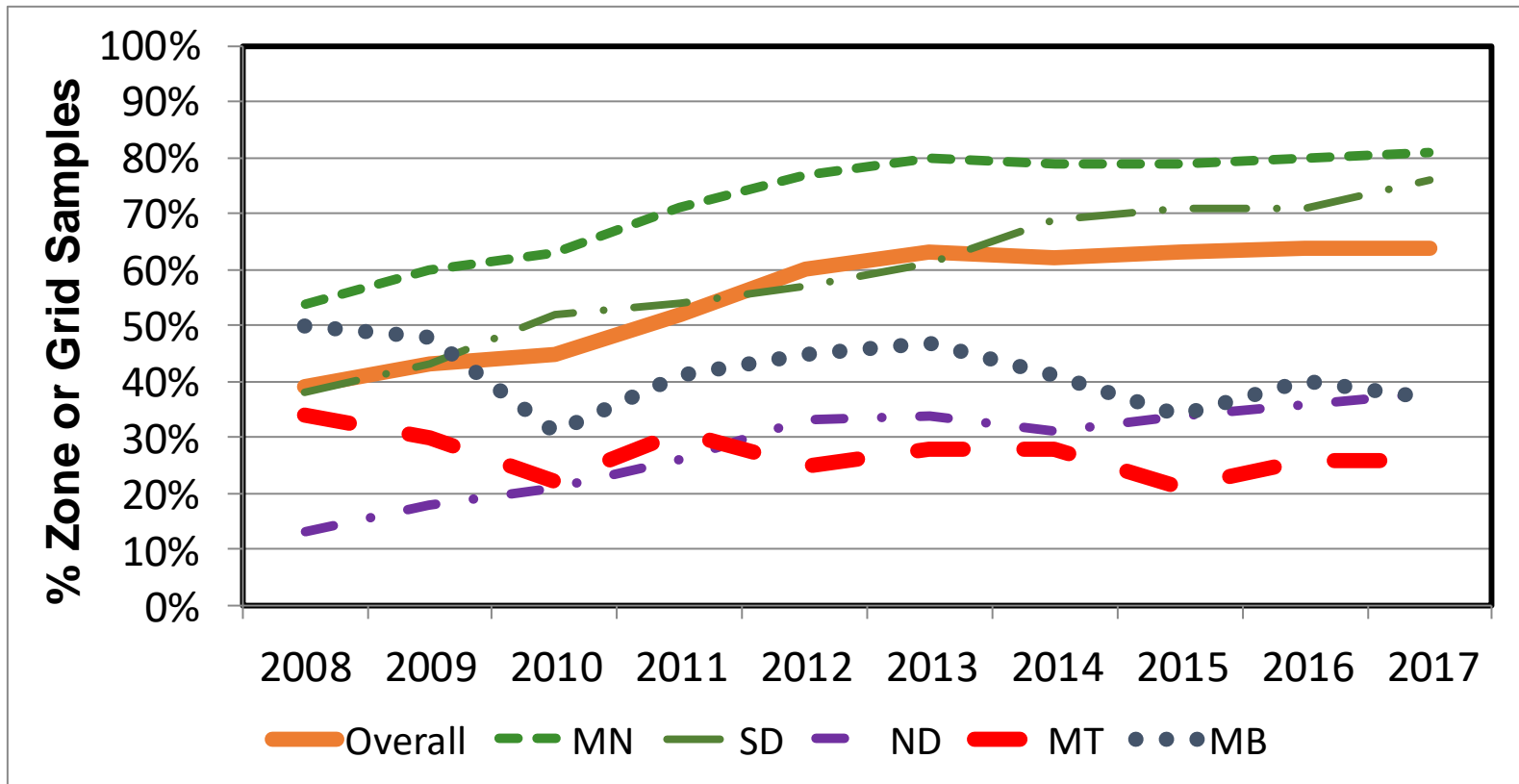


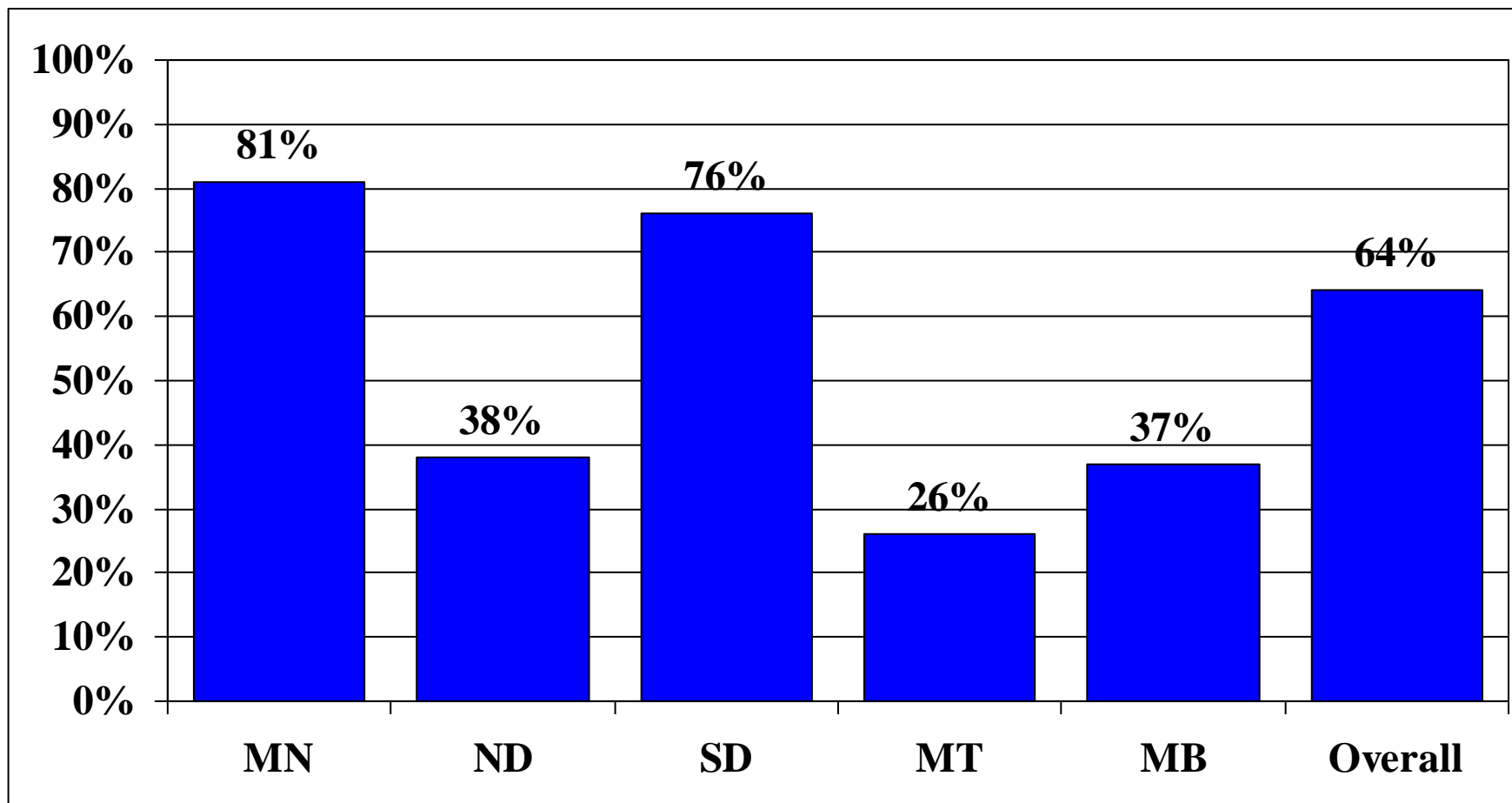
Trend for Precision Soil Testing

% Zone or Grid Samples Tested compared to Total Samples



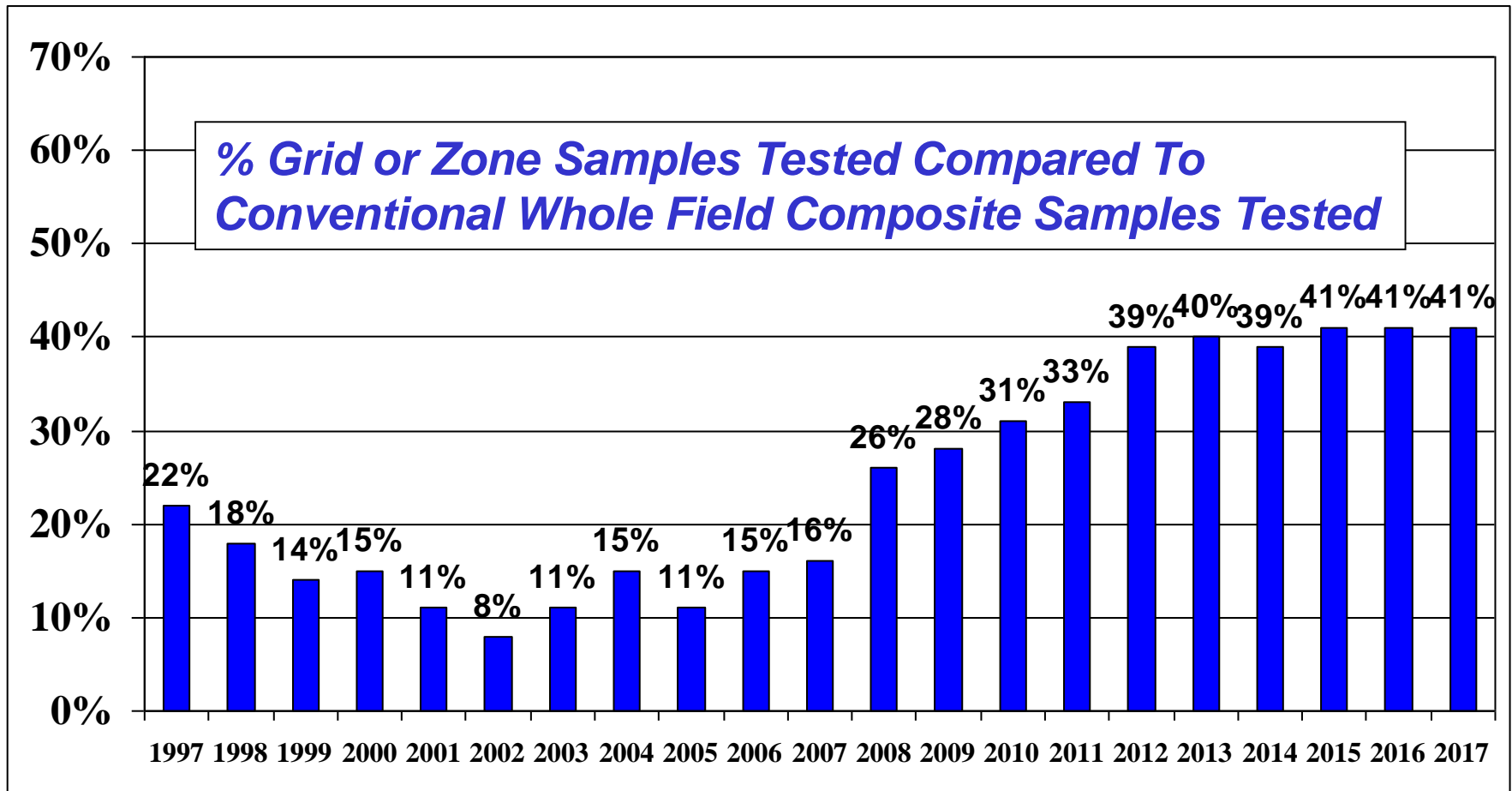


***%Zone or Grid Samples Tested Compared to
Conventional Whole Field Composite Samples in 2017***

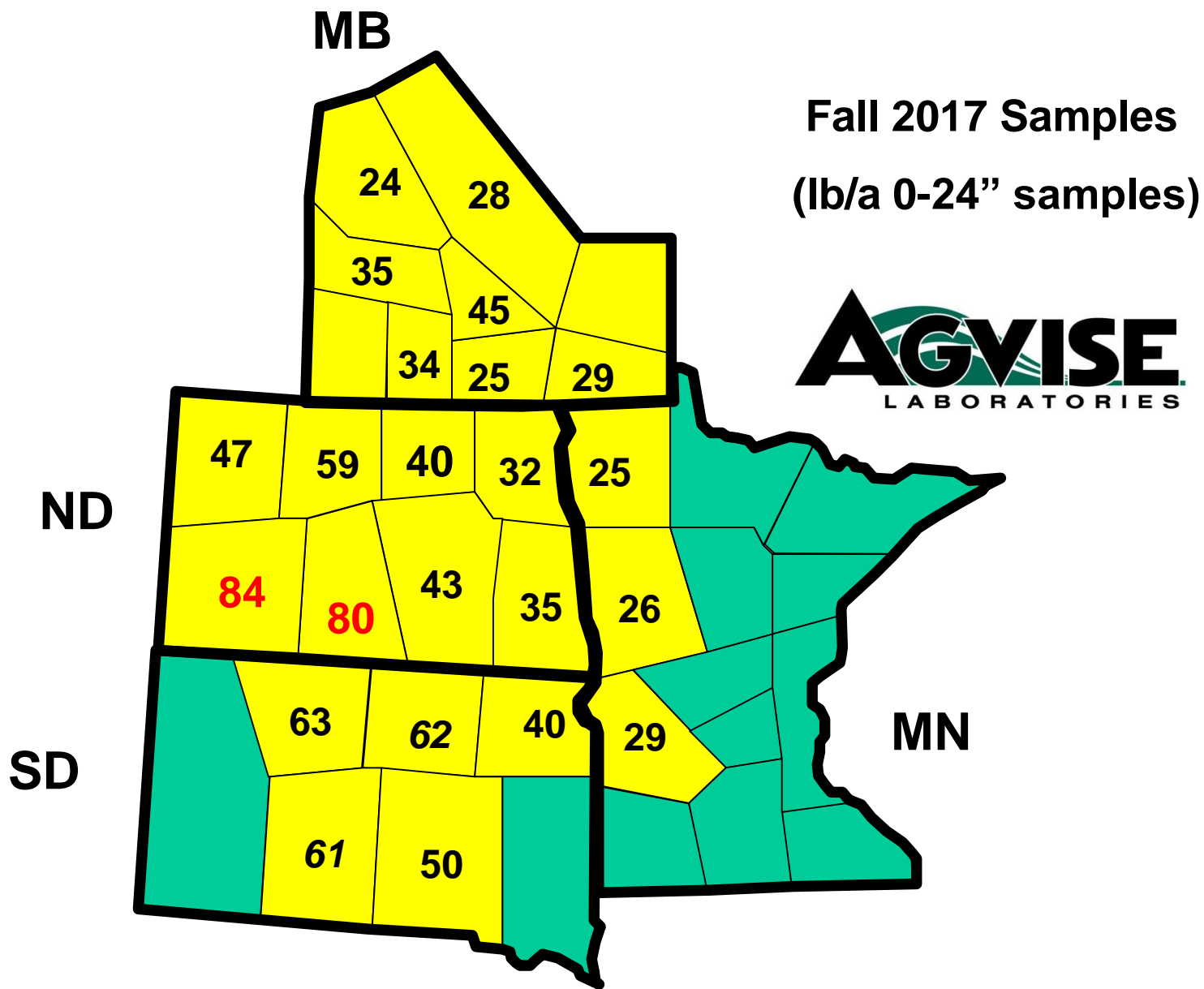


AGVISE Laboratories

***%Zone or Grid Samples – Northwood laboratory
1997 - 2017***

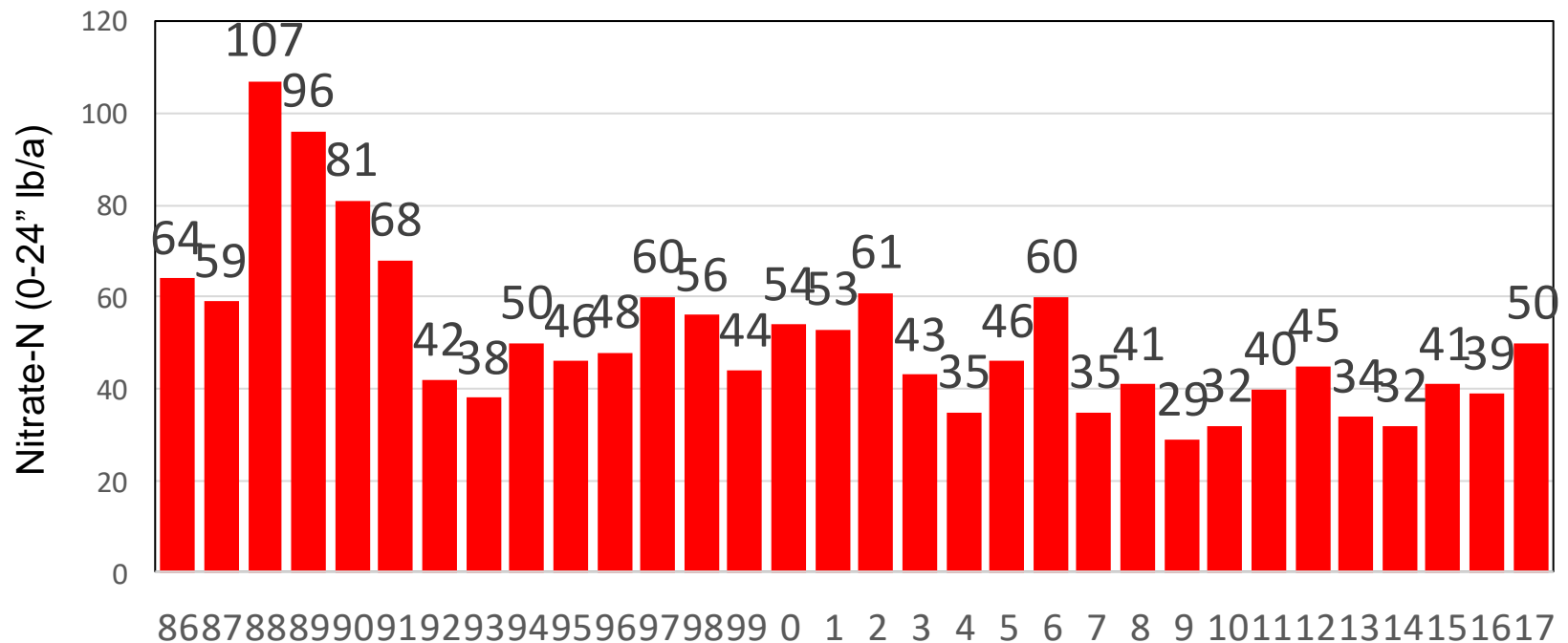


Average Soil Nitrate following Wheat in 2017

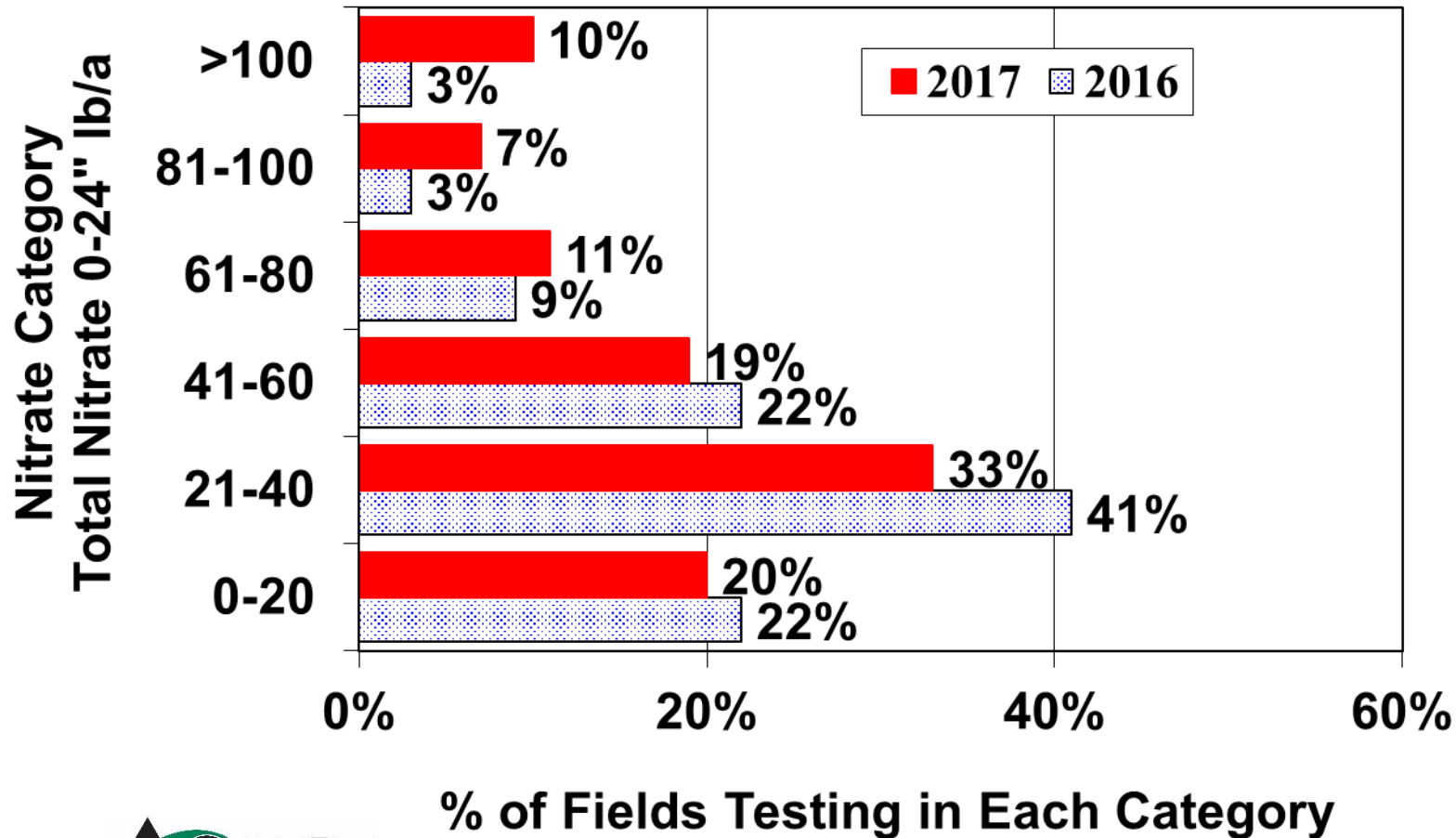




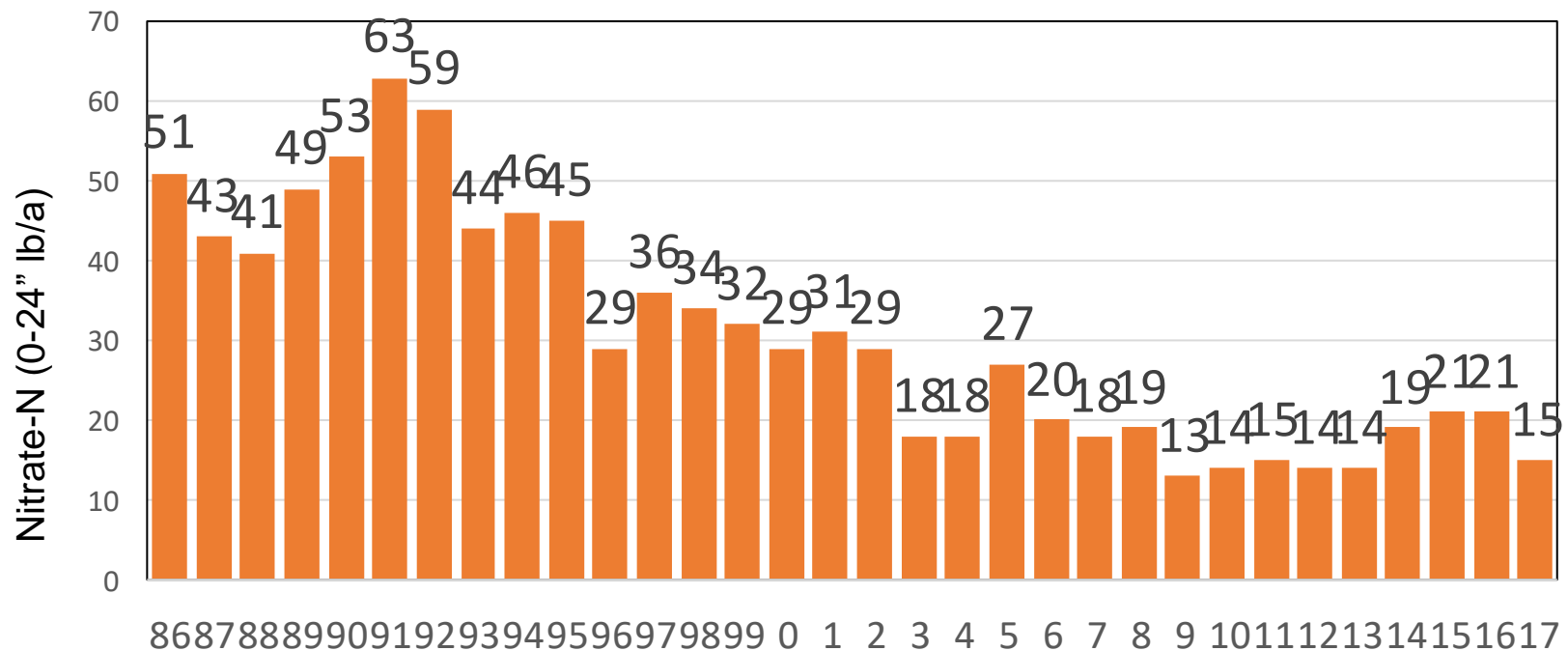
Average Soil Nitrate Following “Wheat” 1986 – 2017 (0-24” lb/a)



Soil Nitrate Variability Between Fields Following “WHEAT” in 2016 & 2017

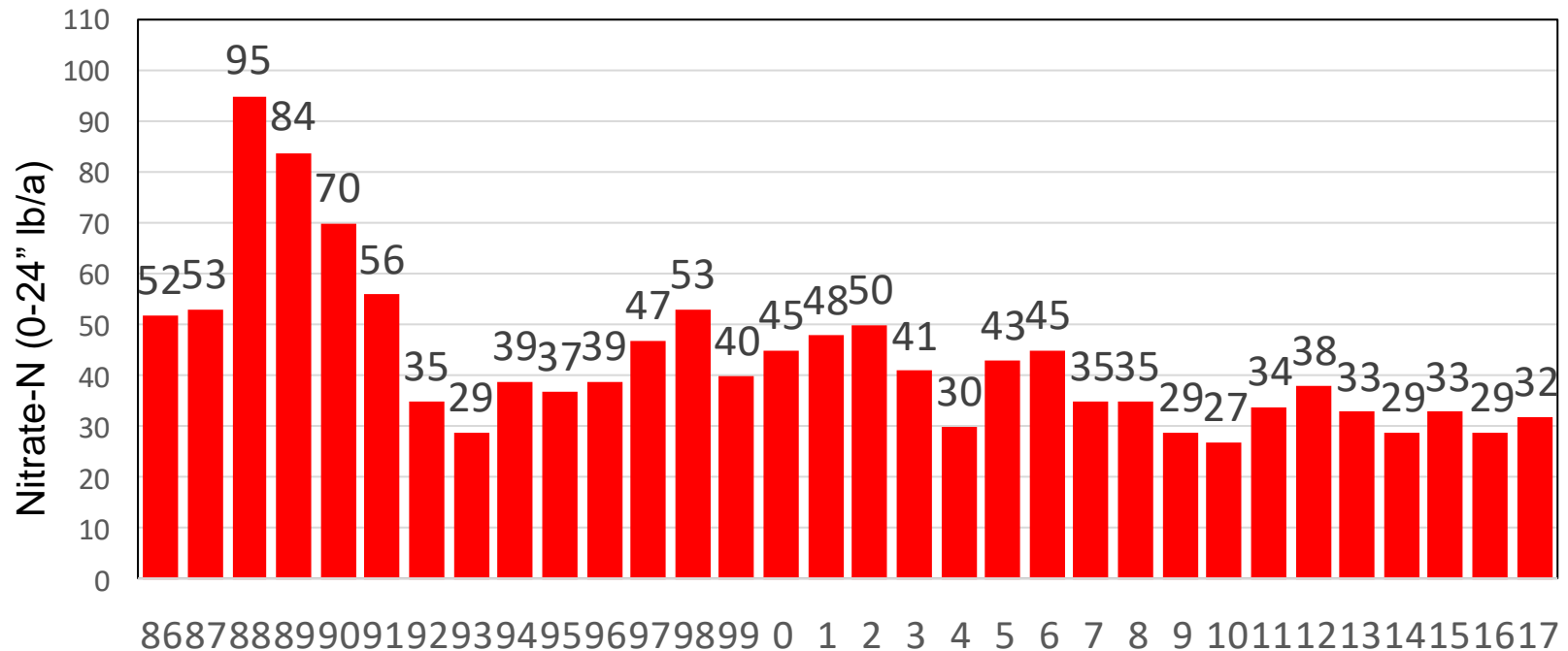


Average Soil Nitrate Following “Wheat” (1986-2017) “Deep N” (24-48” lb/a)

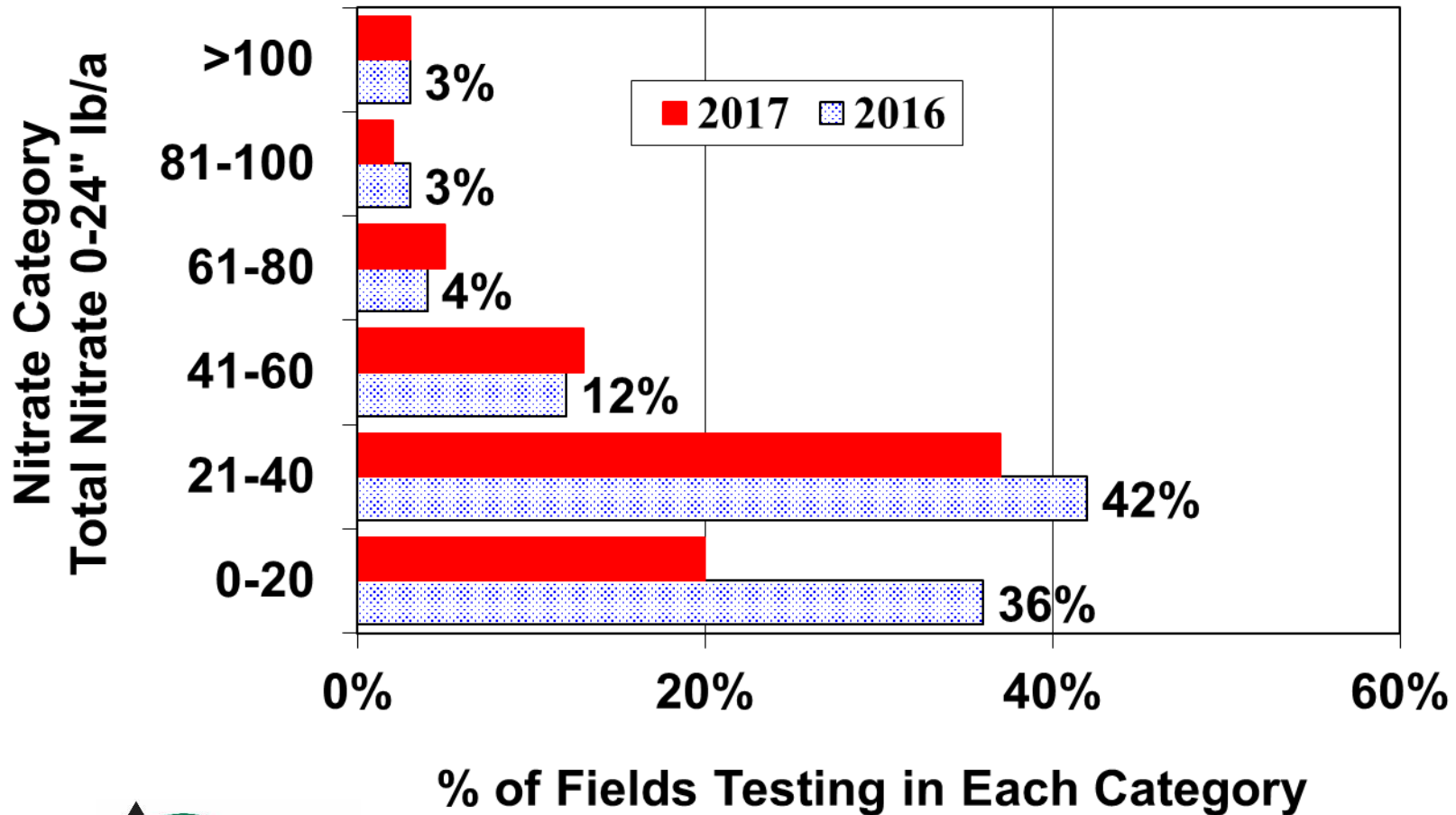




Average Soil Nitrate Following “Barley” 1986 - 2017

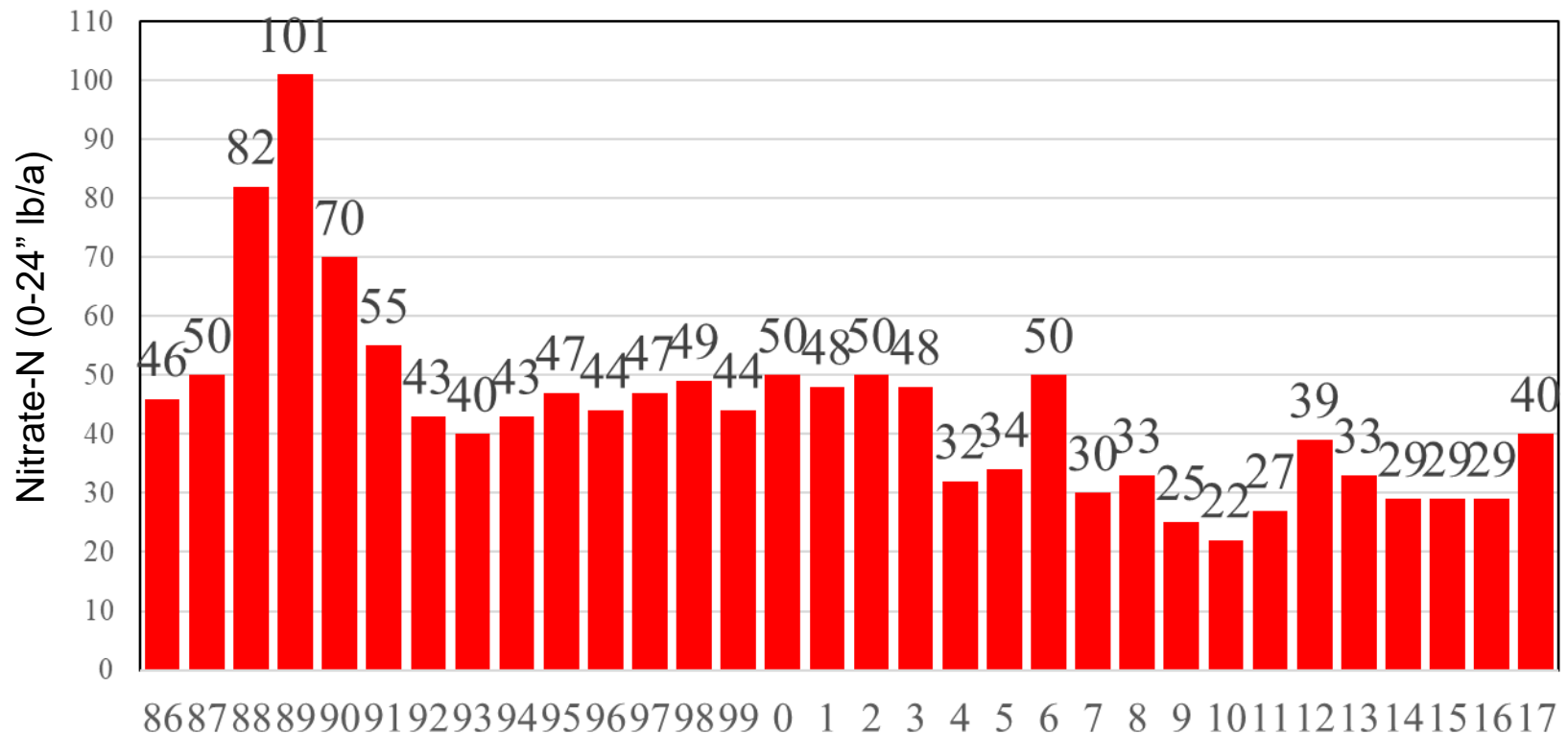


Soil Nitrate Variability Between Fields Following “Barley” in 2016 & 2017

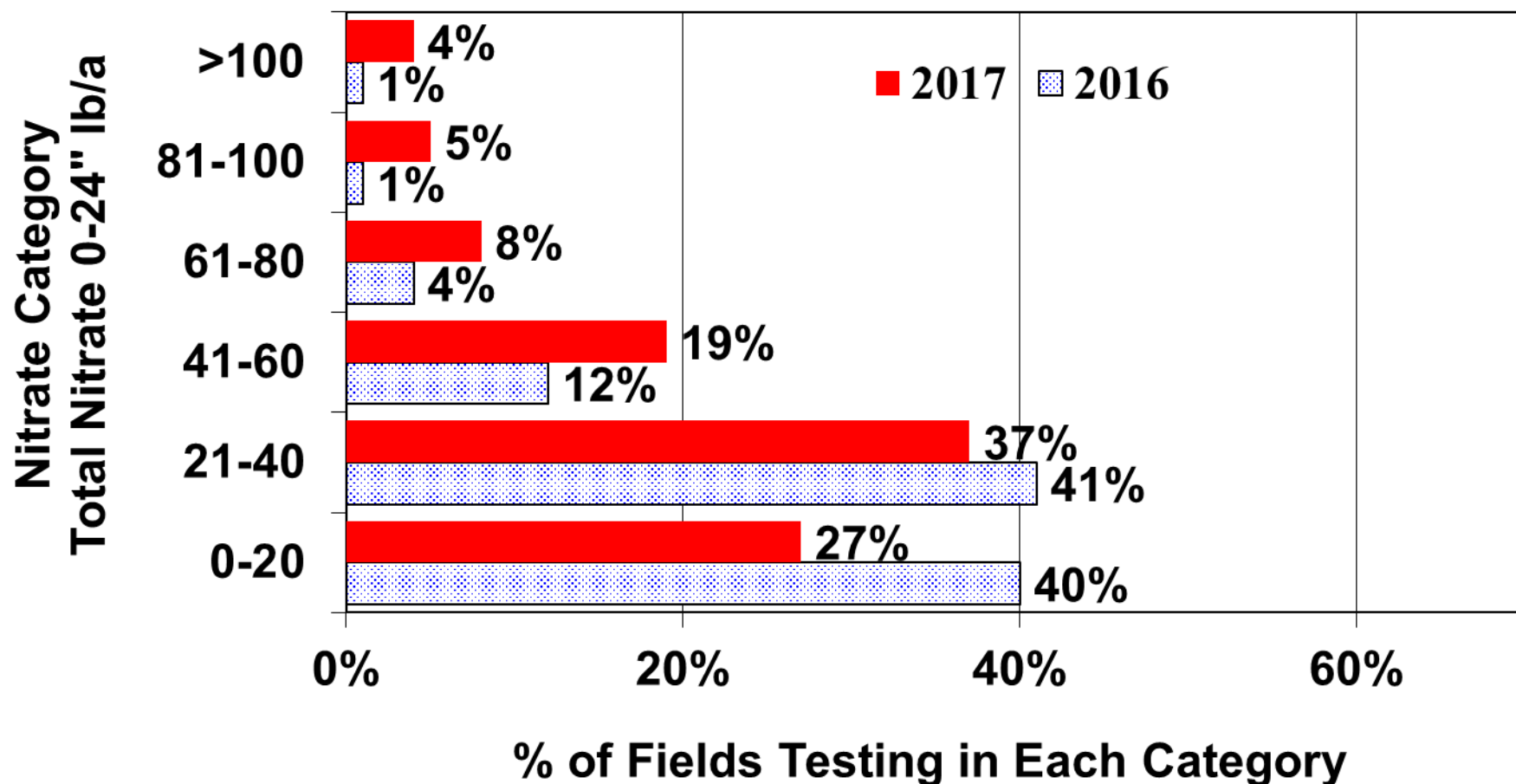




Average Soil Nitrate Following “Sunflower” 1986 - 2017

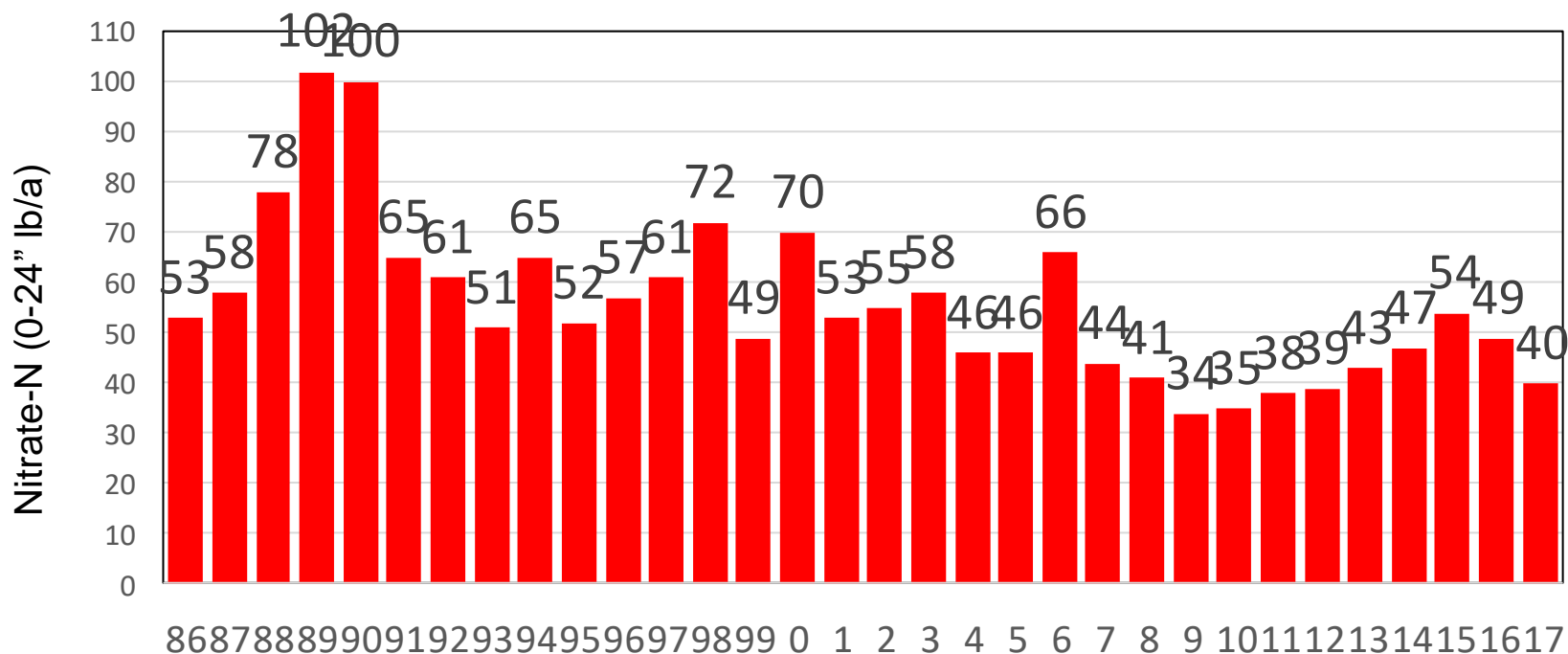


Soil Nitrate Variability Between Fields Following “Sunflower” in 2016 & 2017

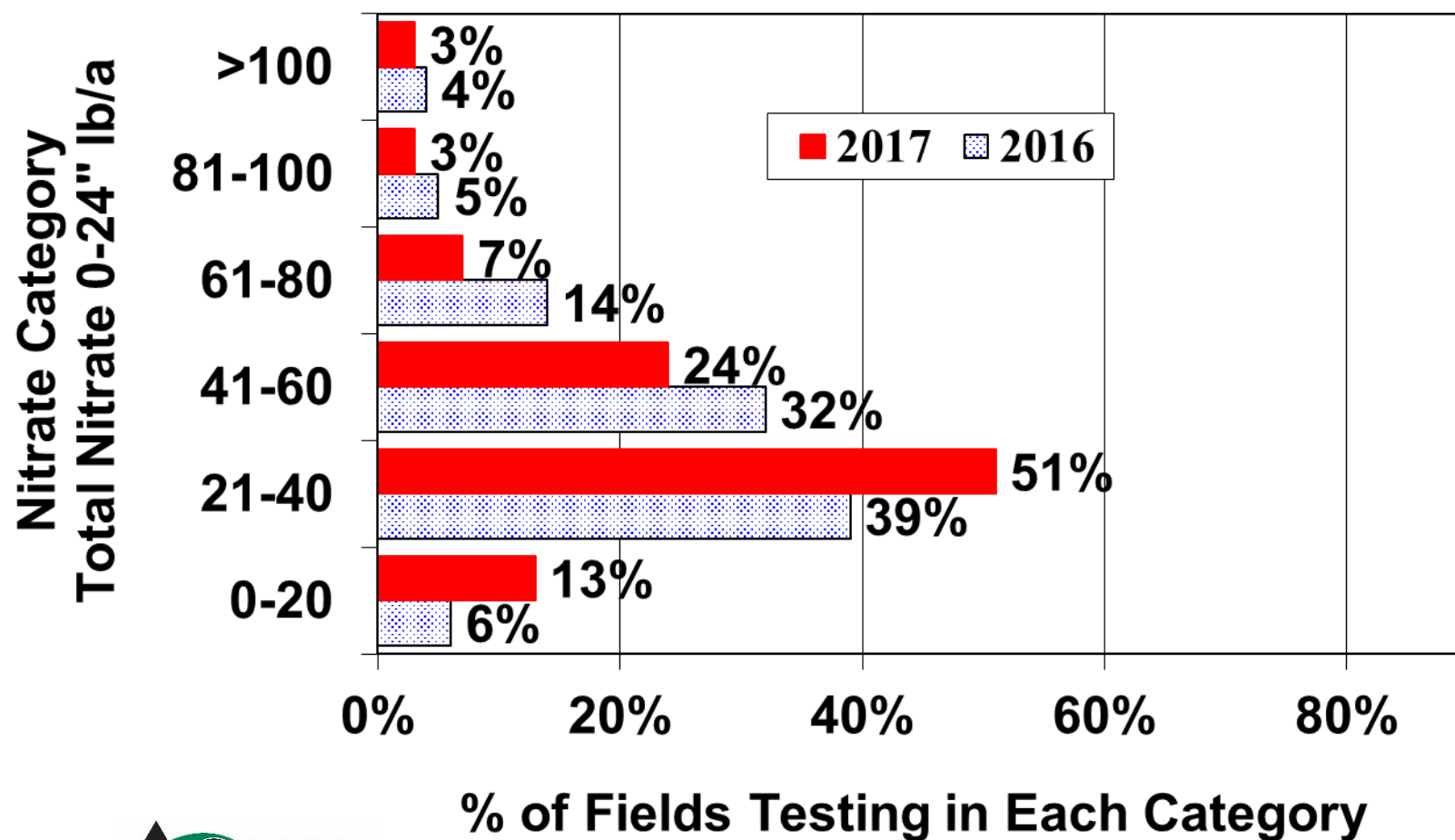




Average Soil Nitrate Following “Drybeans” 1986 - 2017

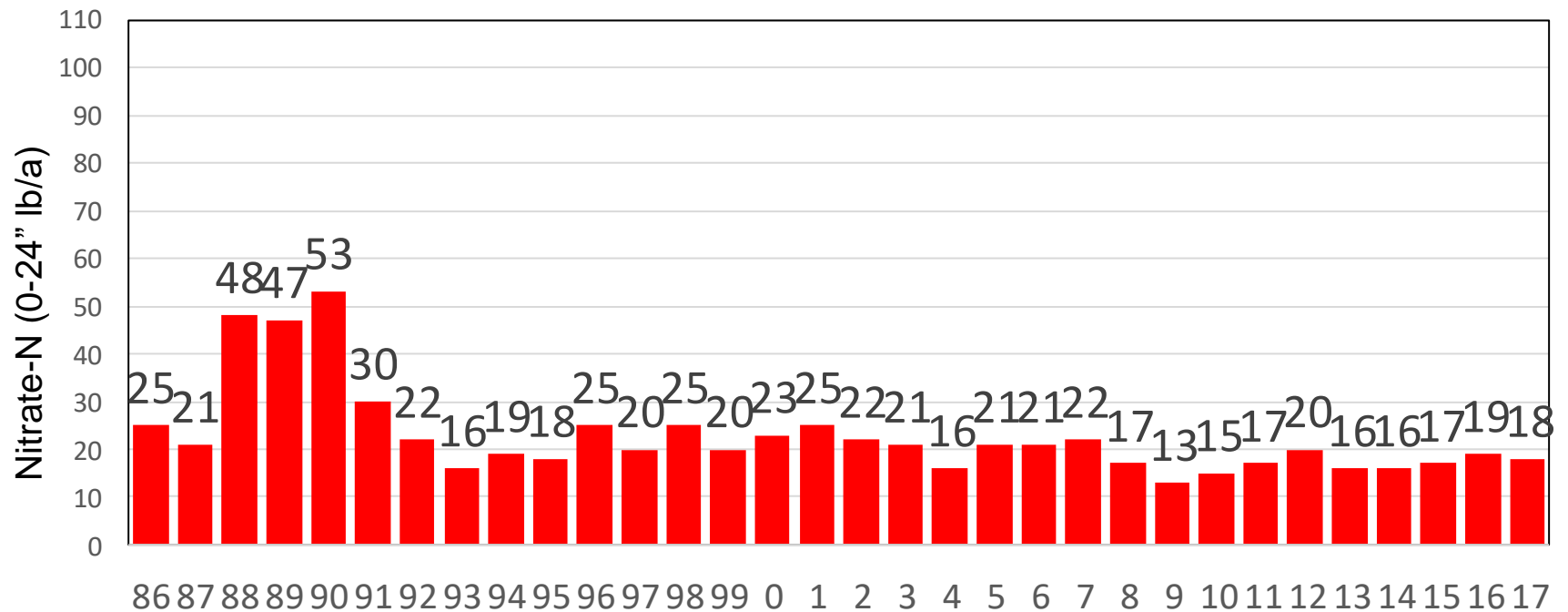


Soil Nitrate Variability Between Fields Following “Dry Beans” in 2016 & 2017

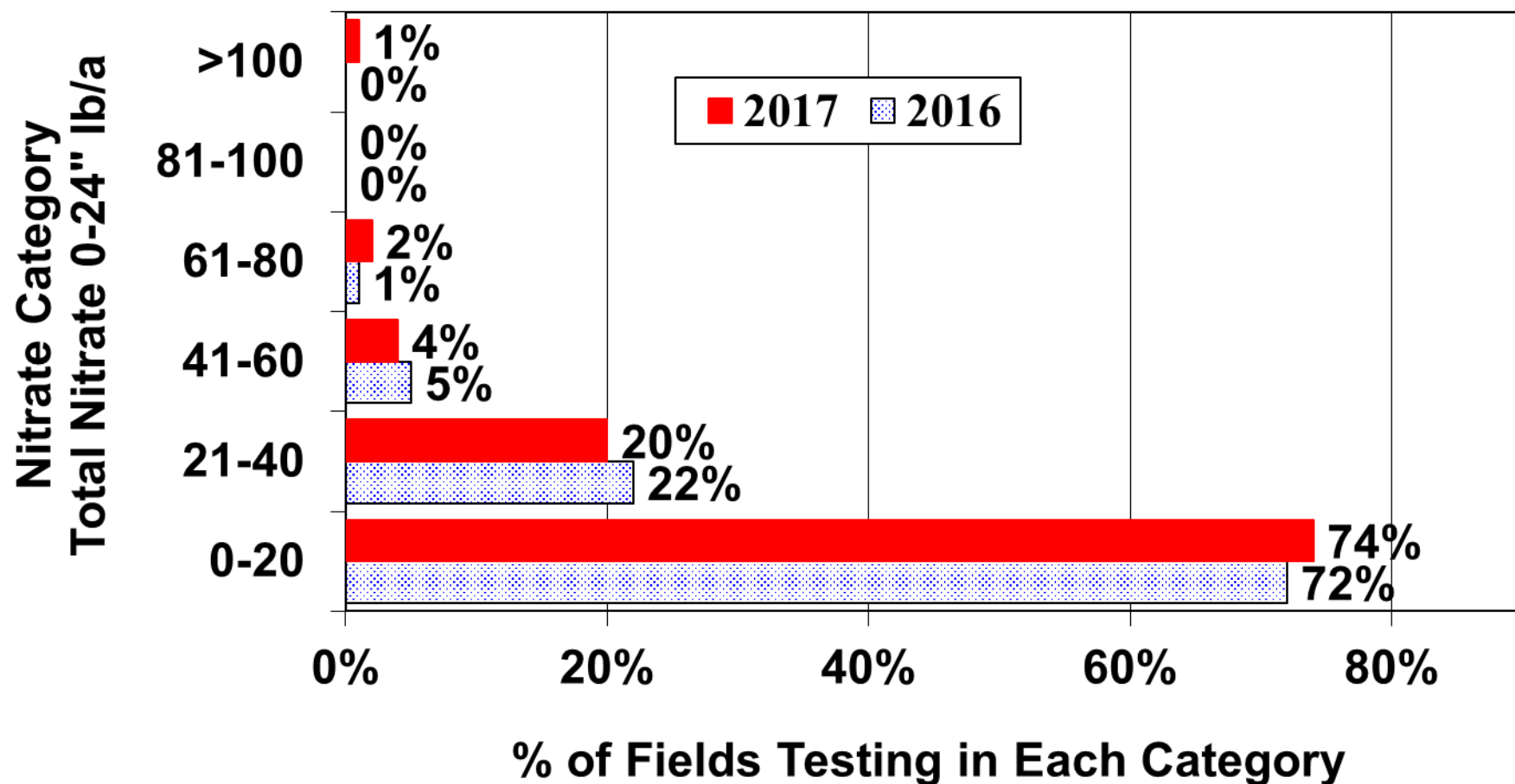




Average Soil Nitrate Following “Sugarbeets” 1986 - 2017

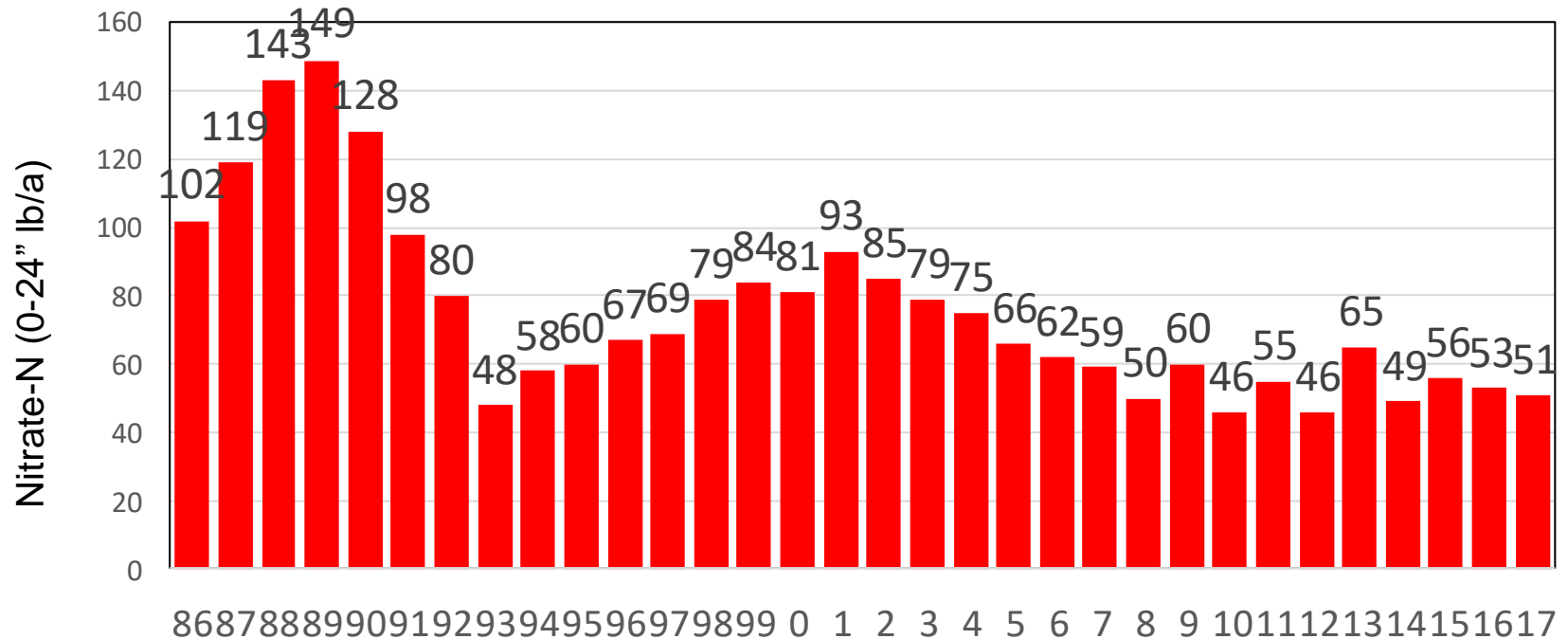


Soil Nitrate Variability Between Fields Following “Sugarbeet” in 2016 & 2017

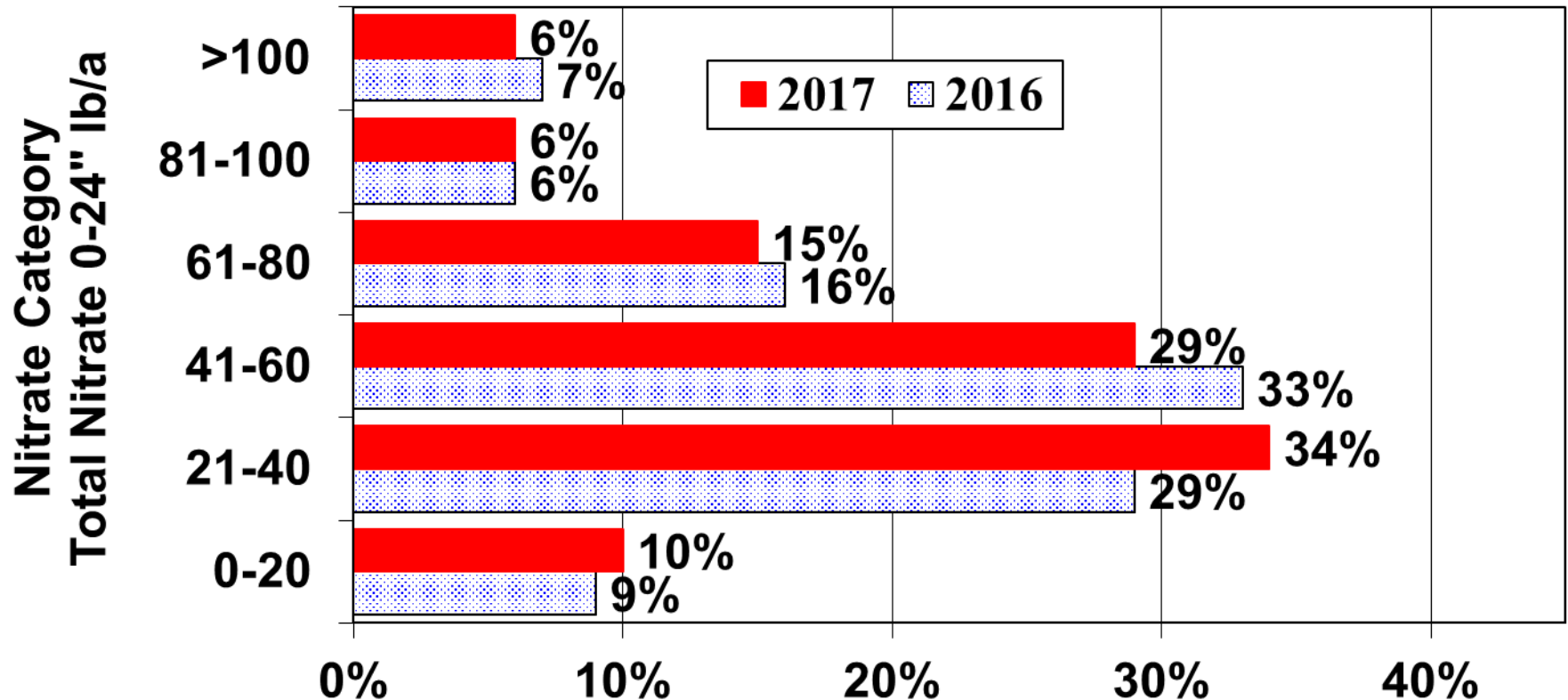




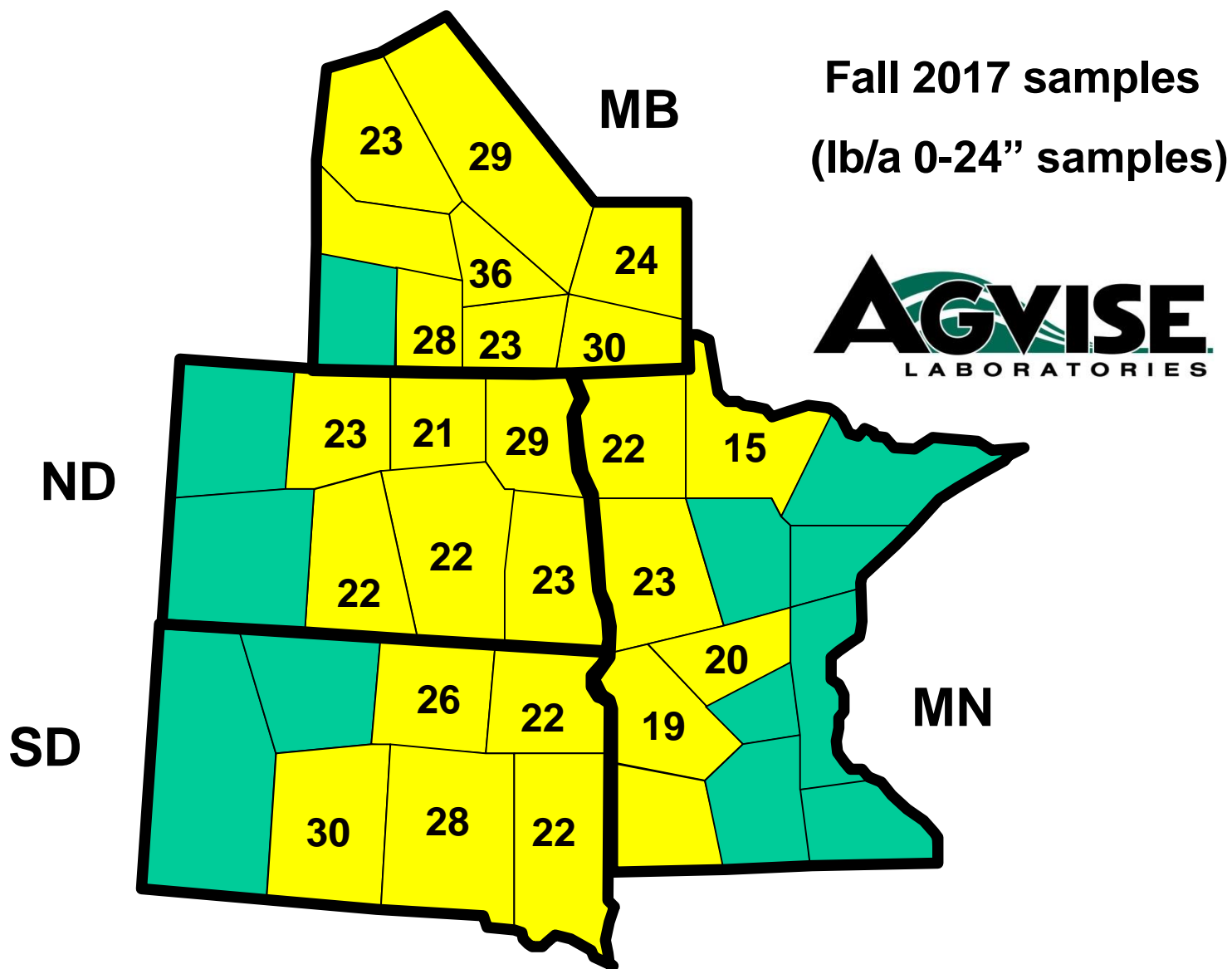
Average Soil Nitrate Following “Fallow” 1986 - 2017



Soil Nitrate Variability Between Fields Following “Fallow” in 2016 & 2017

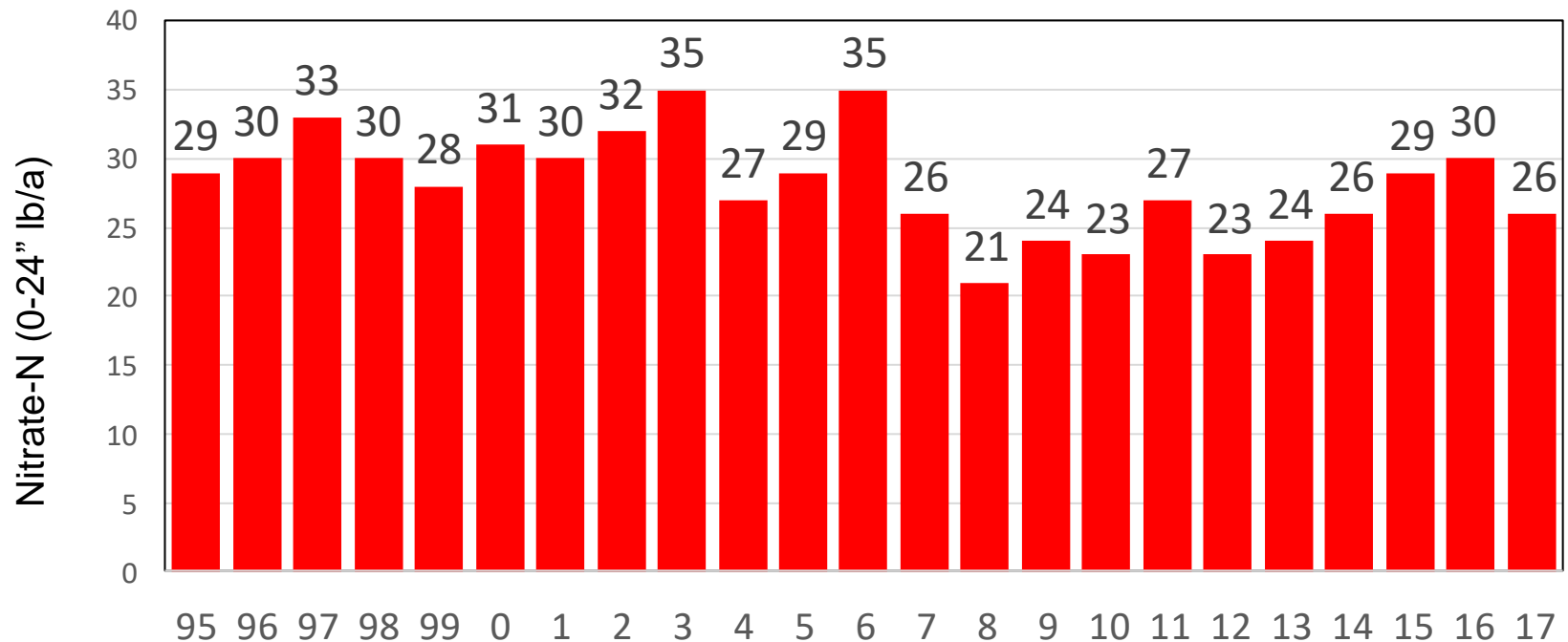


Average Soil Nitrate following Soybean in 2017

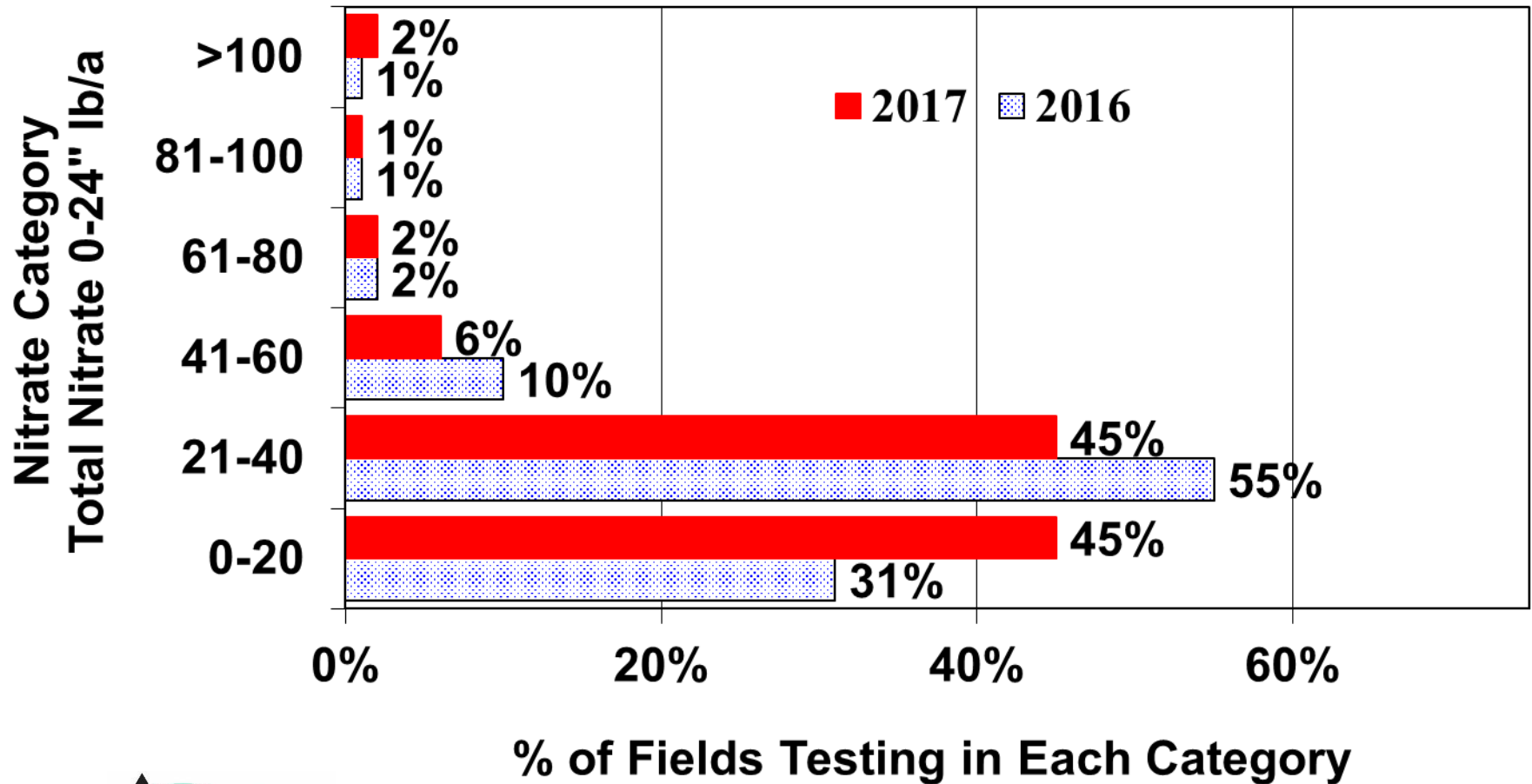




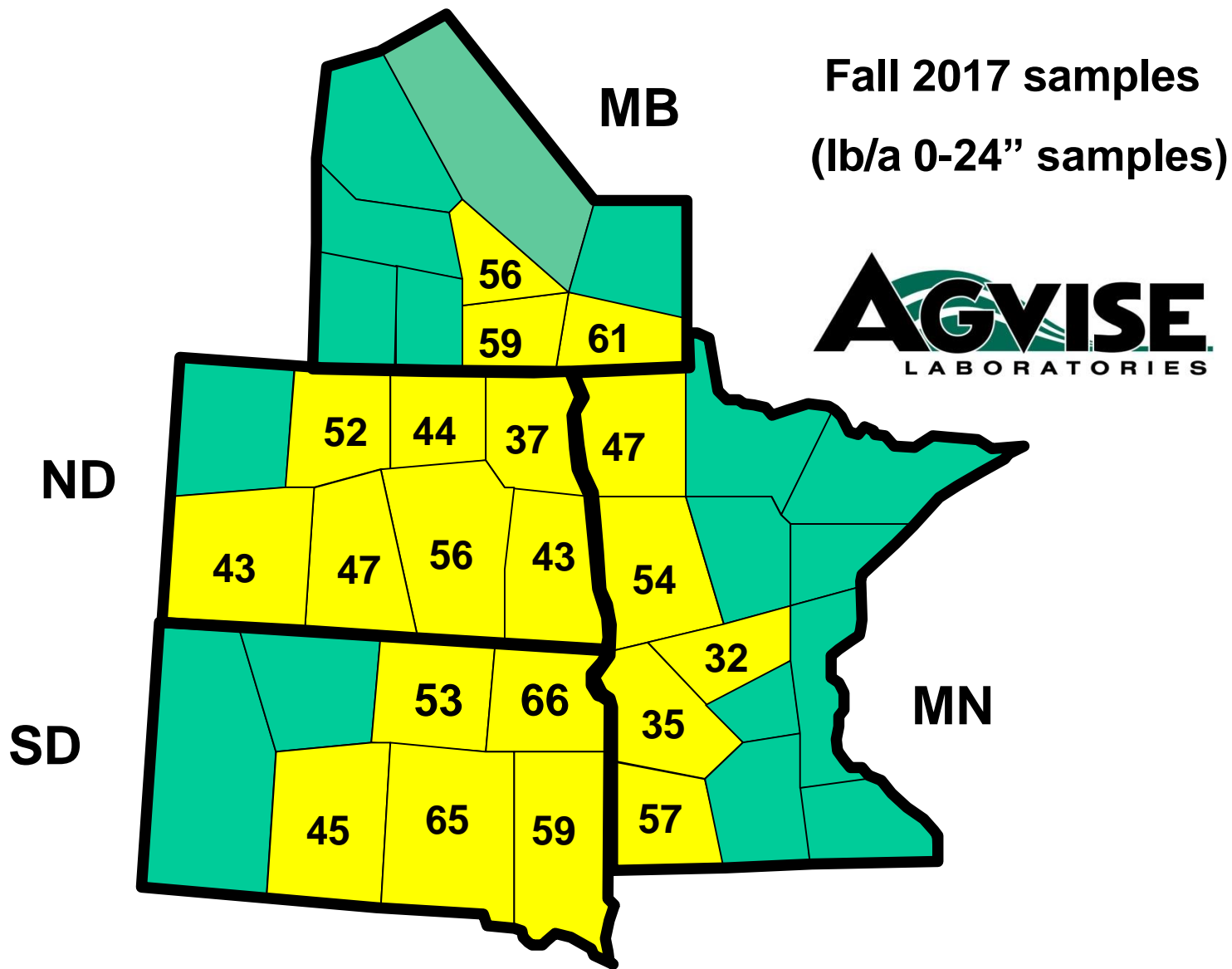
Average Soil Nitrate Following “Soybeans” 1995 - 2017



Soil Nitrate Variability Between Fields Following “Soybeans” in 2016 & 2017

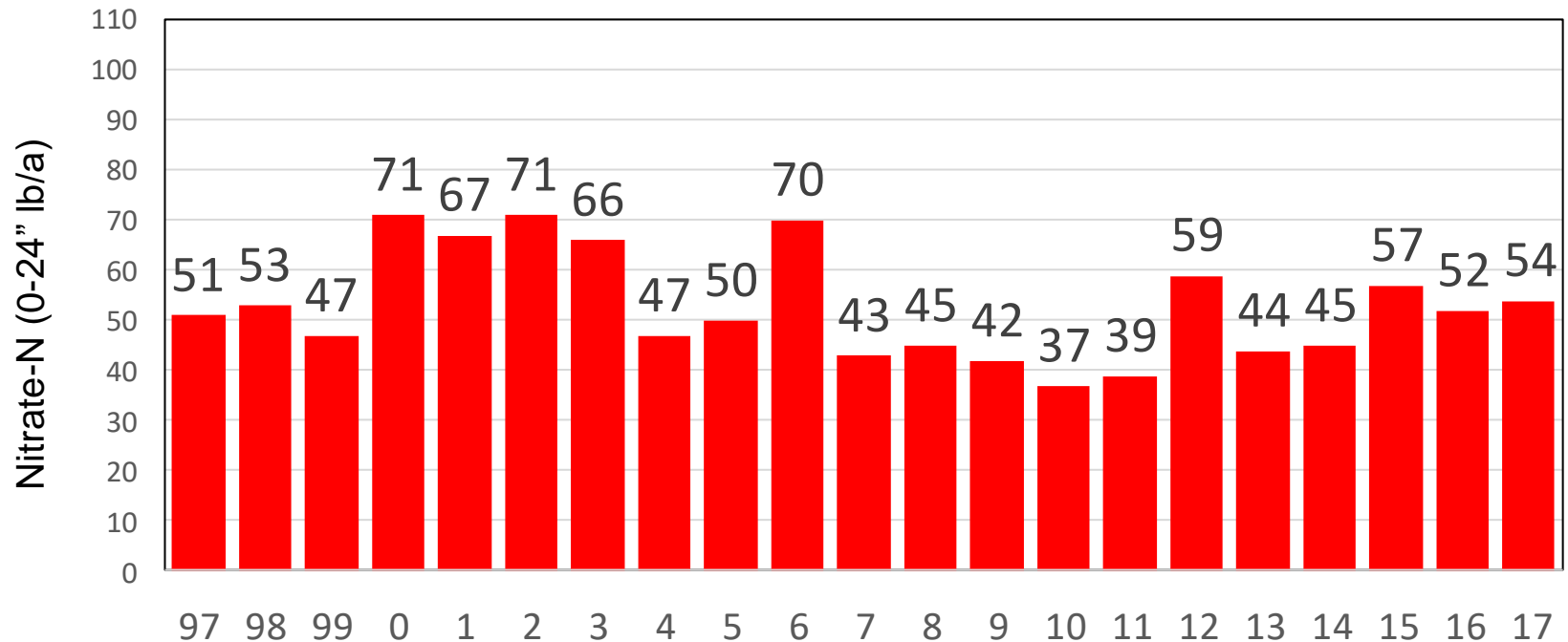


Average Soil Nitrate following Corn in 2017

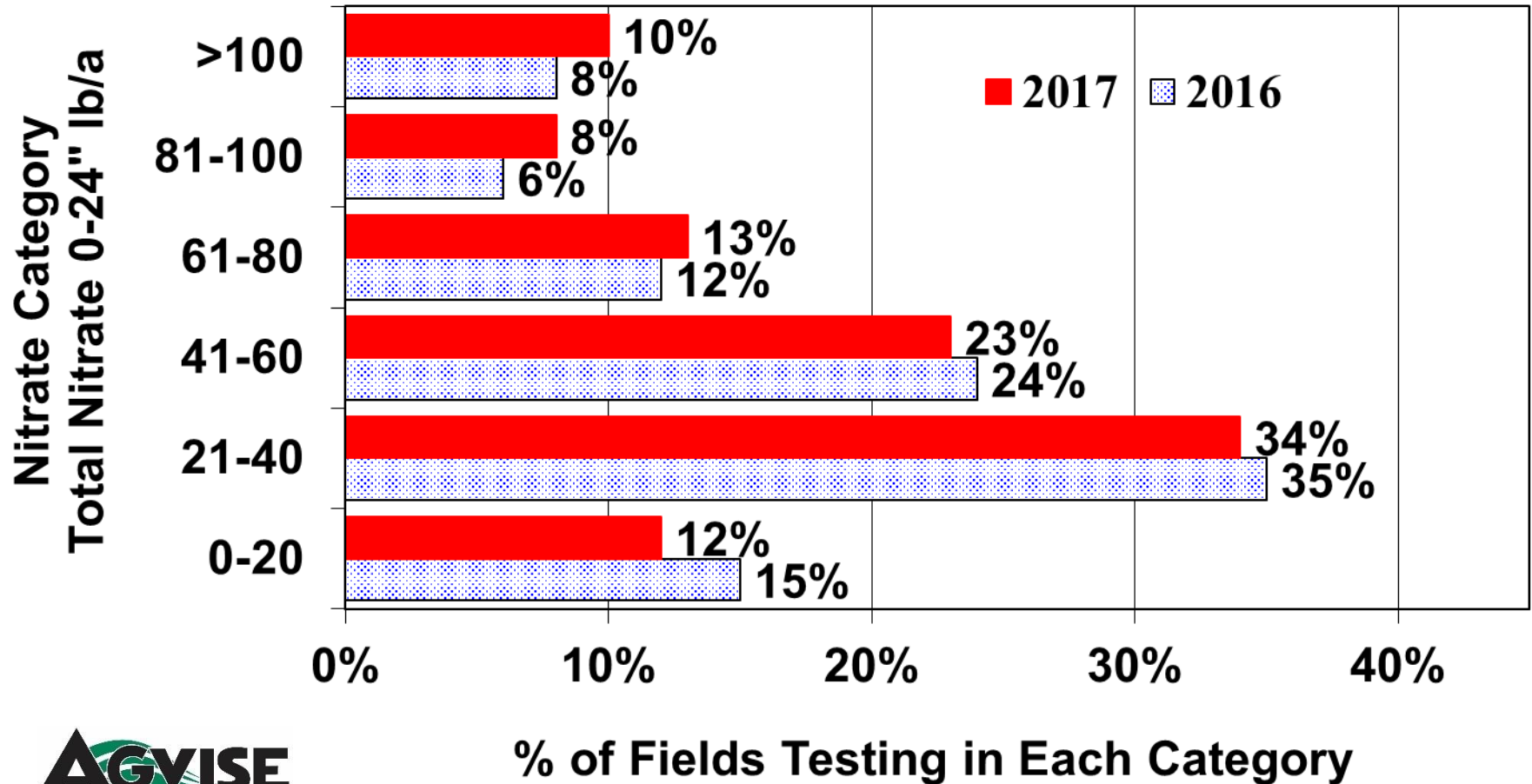




Average Soil Nitrate Following “Corn” 1997 – 2017 (Northwood Laboratory)



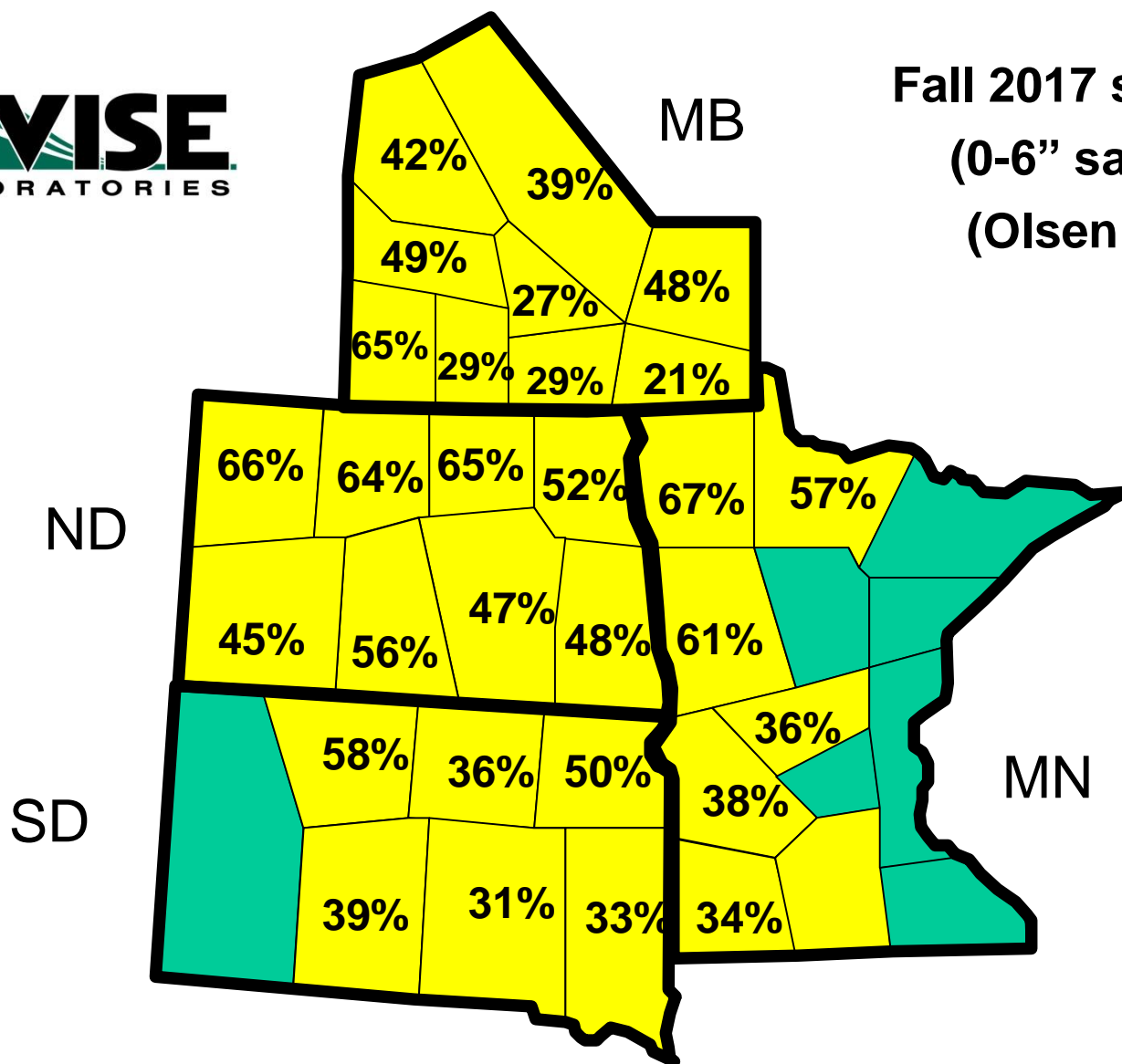
Soil Nitrate Variability Between Fields Following “Corn” in 2016 & 2017



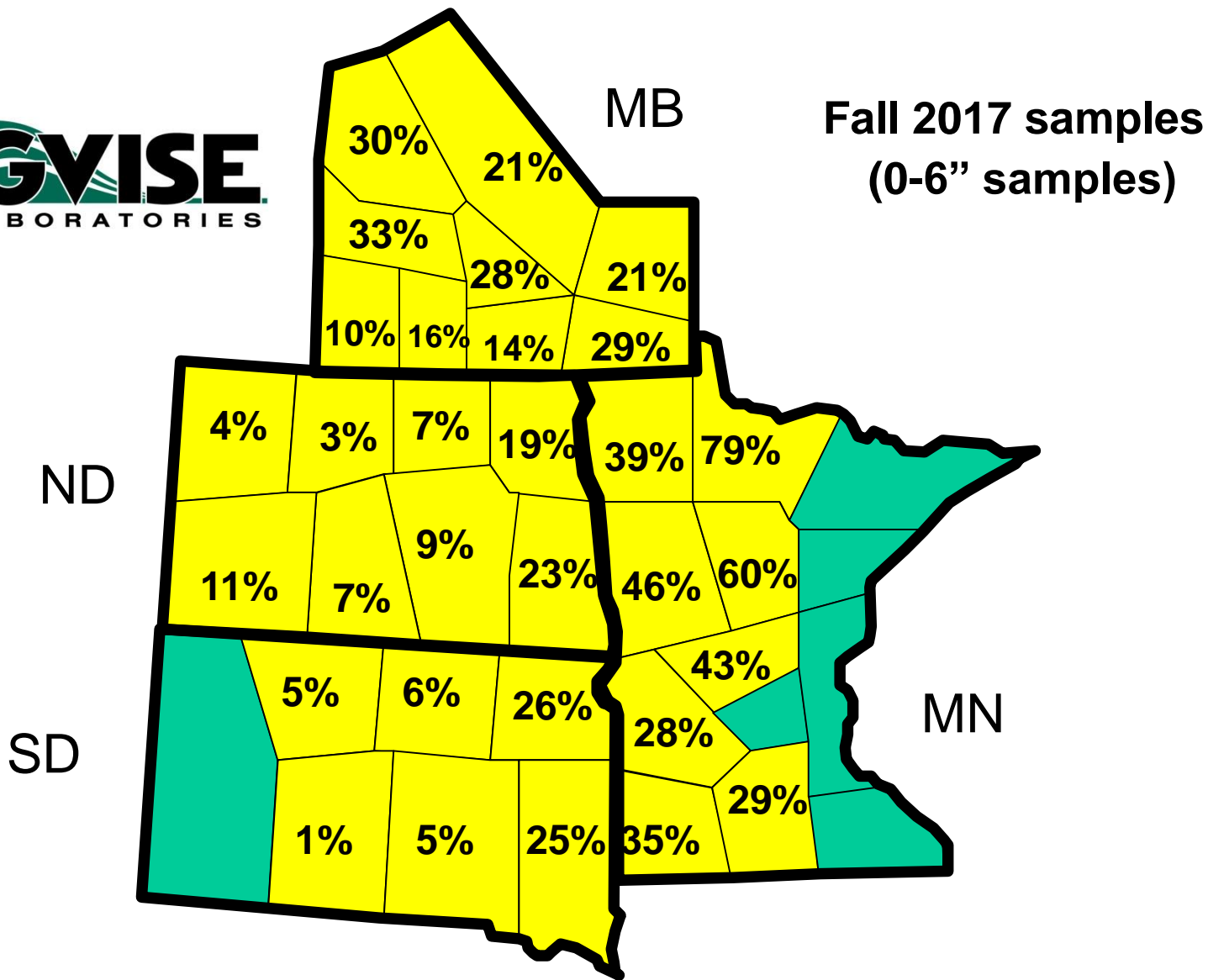
% Soil Samples with Phosphorus less than 10 ppm



Fall 2017 samples
(0-6" samples)
(Olsen P test)



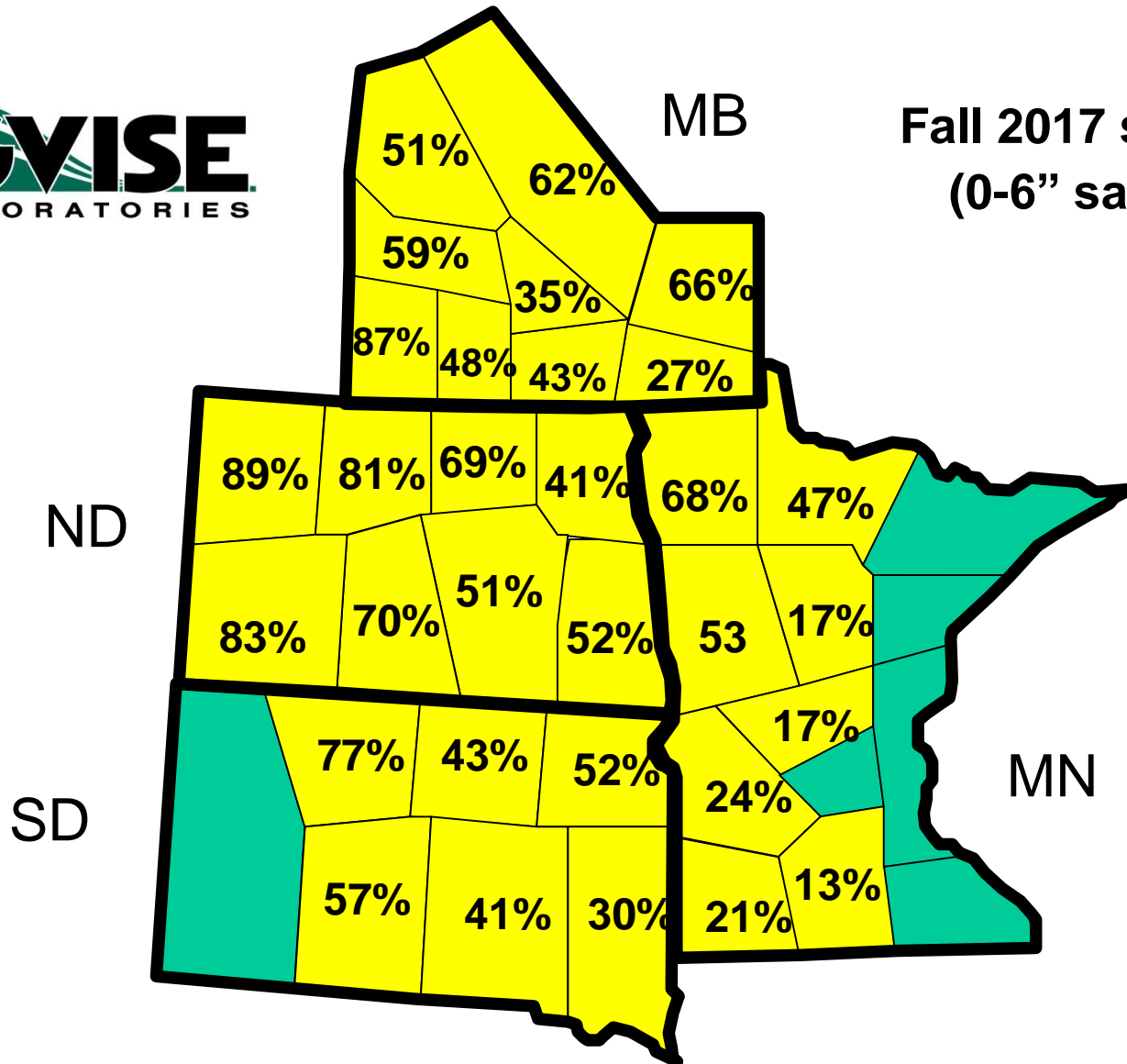
% Soil Samples with Potassium less than 150 ppm



% Soil Samples with Zinc less than 1.0 ppm



Fall 2017 samples
(0-6" samples)

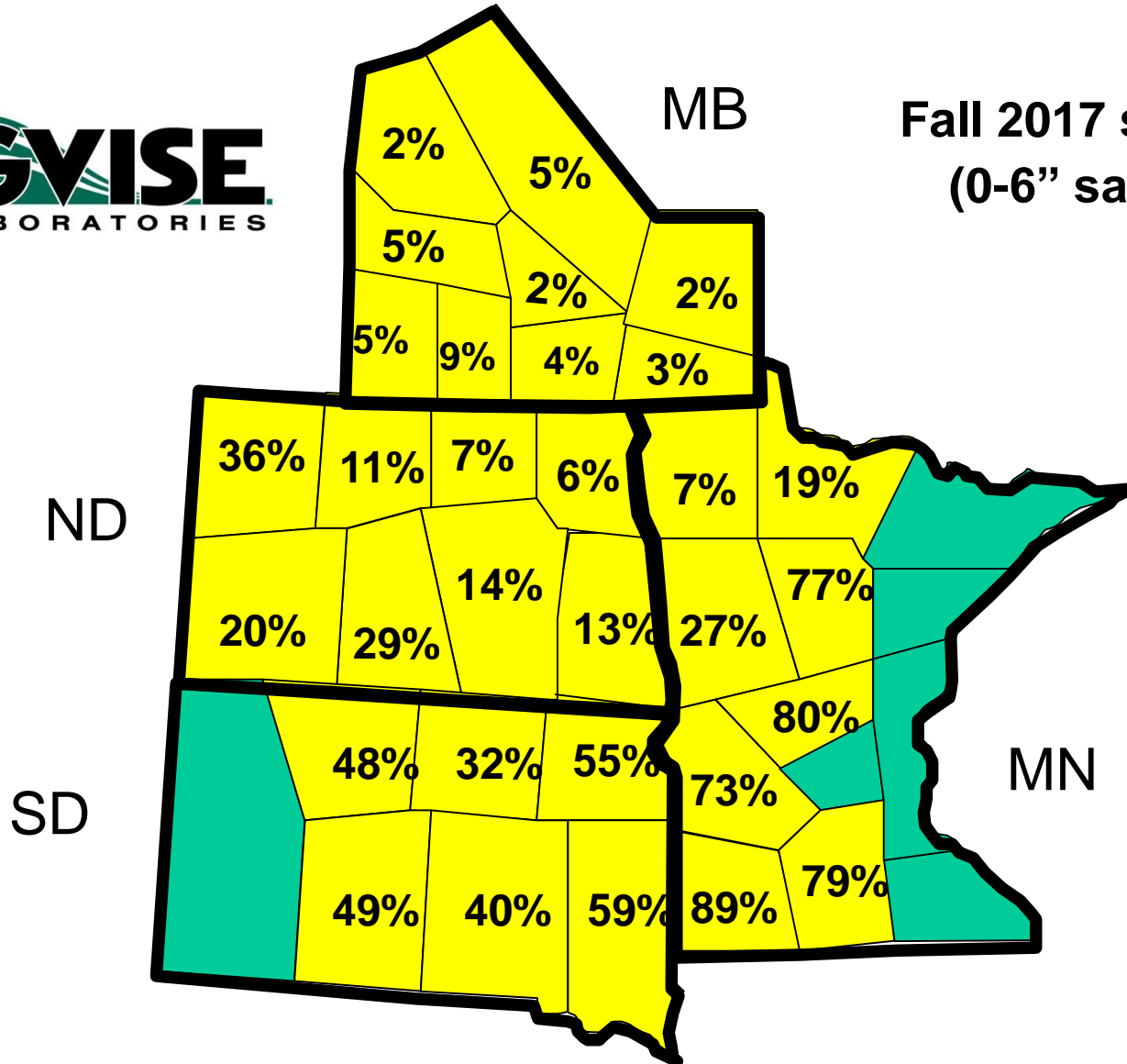


% Soil Samples with Sulfur less than 15 lb/a



MB

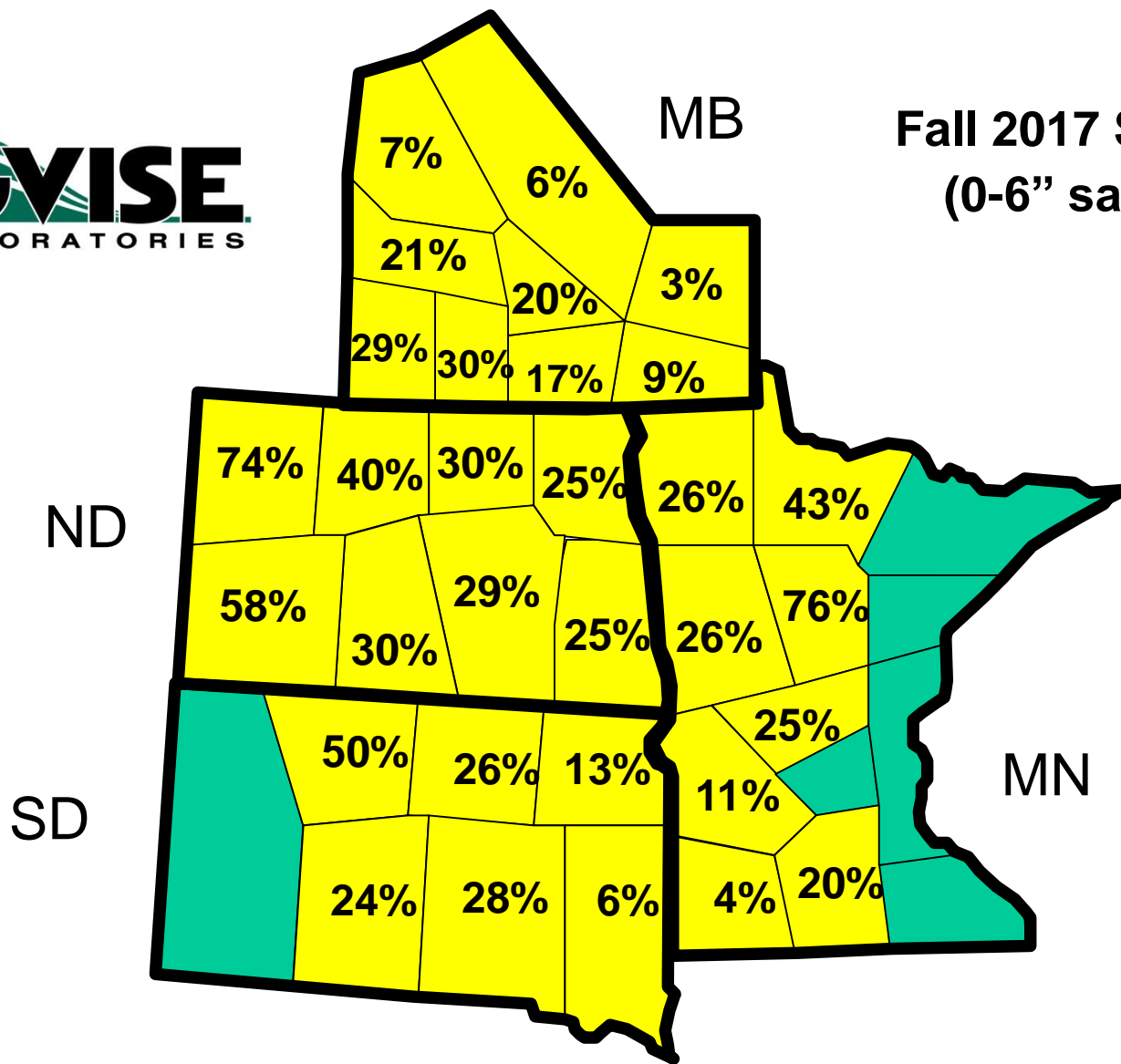
Fall 2017 samples
(0-6" samples)



% Soil Samples with %OM less than 3.0%



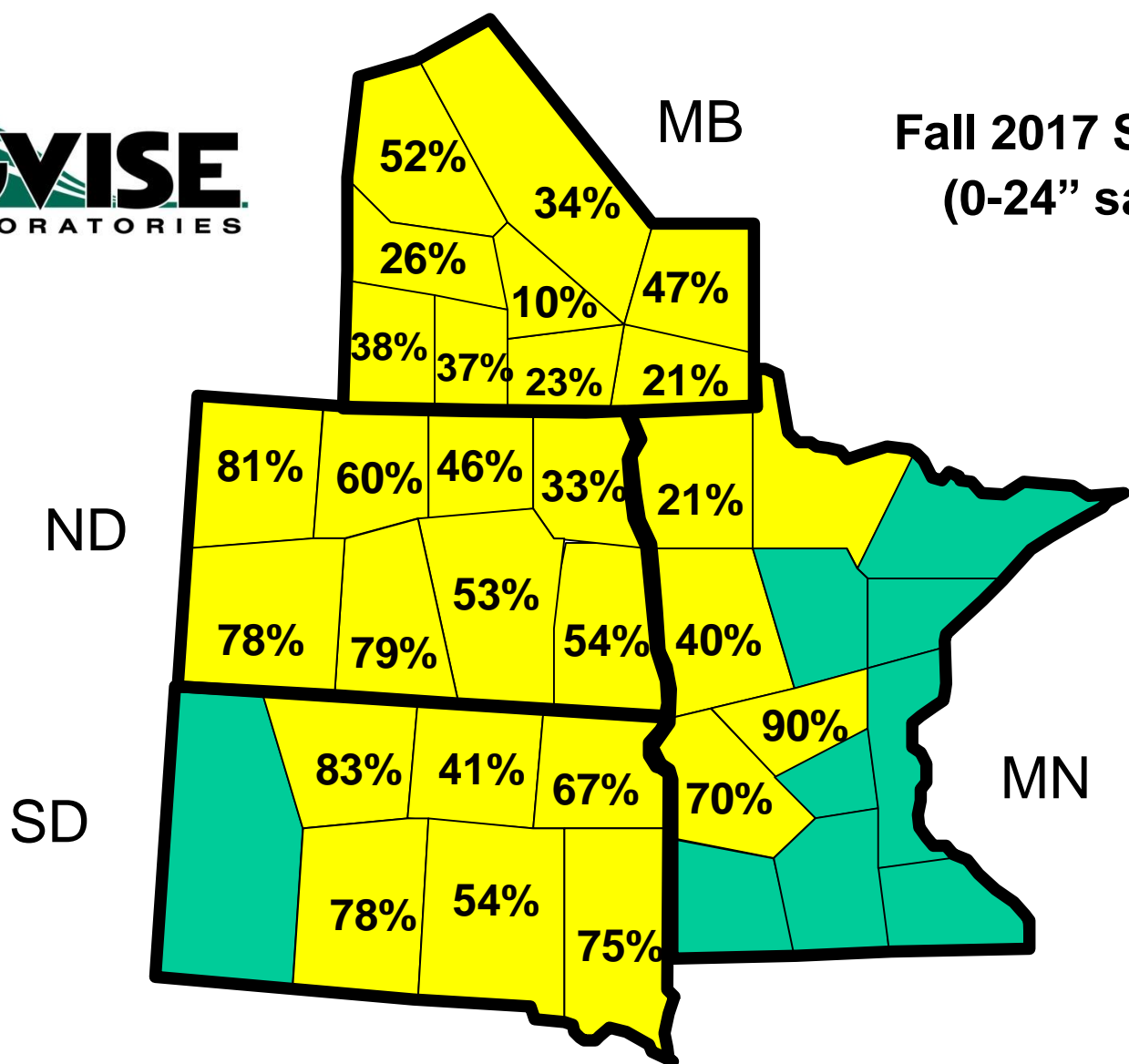
Fall 2017 Samples
(0-6" samples)



% Soil Samples with Chloride less than 40 lb/a



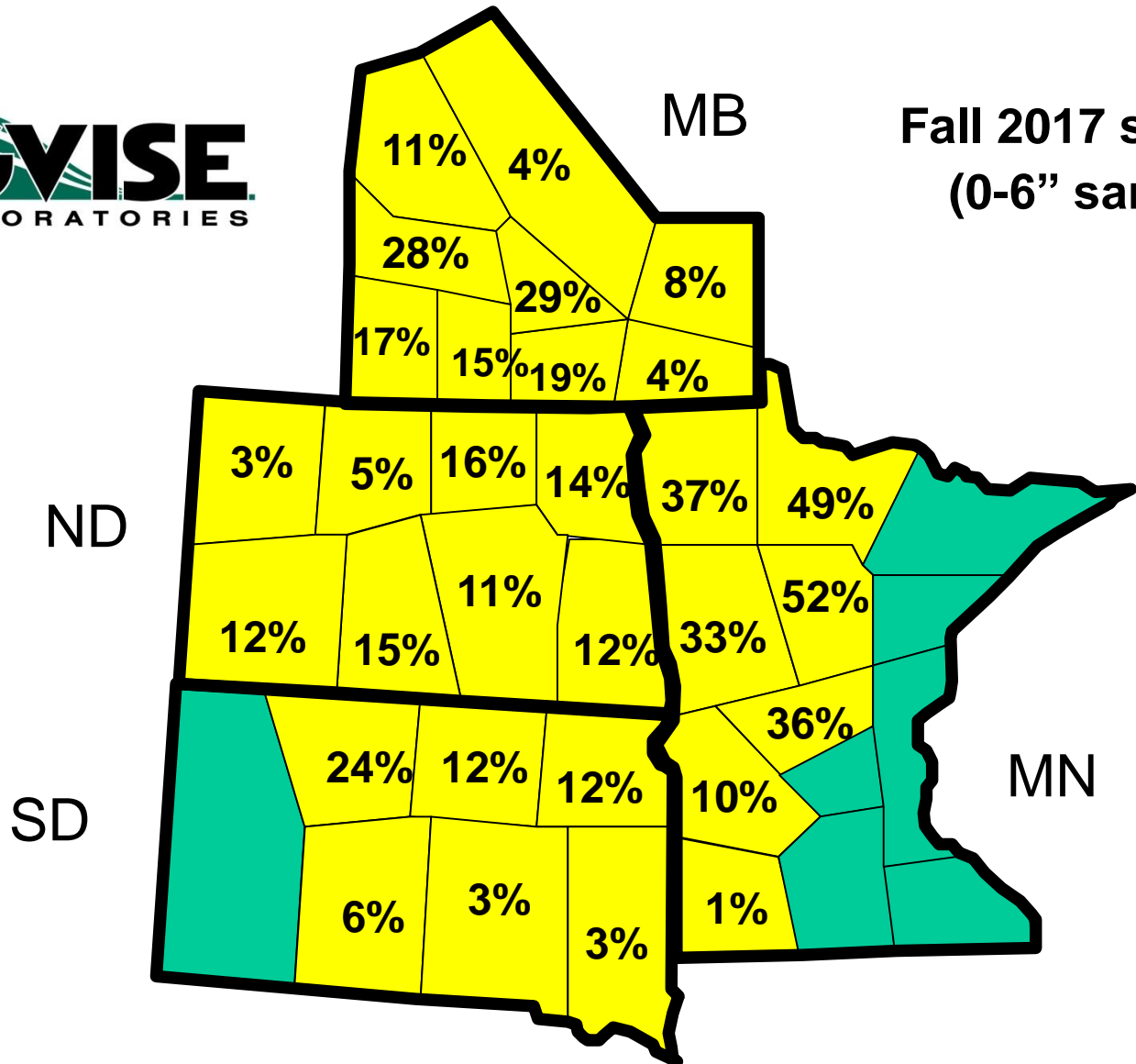
Fall 2017 Samples
(0-24" samples)



% Soil Samples with Copper less than 0.5 ppm



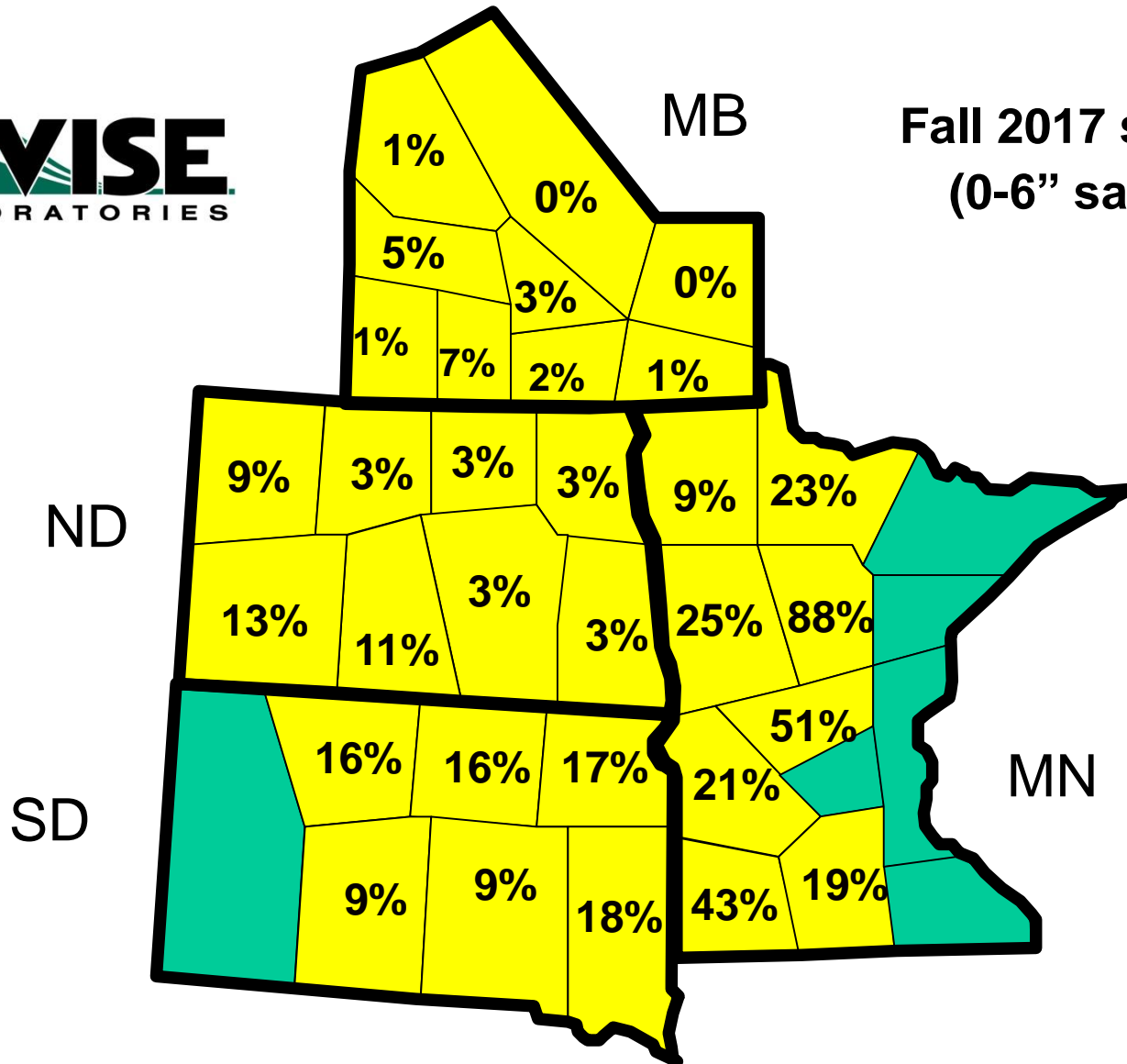
Fall 2017 samples
(0-6" samples)



% Soil Samples with Boron less than 0.4 ppm



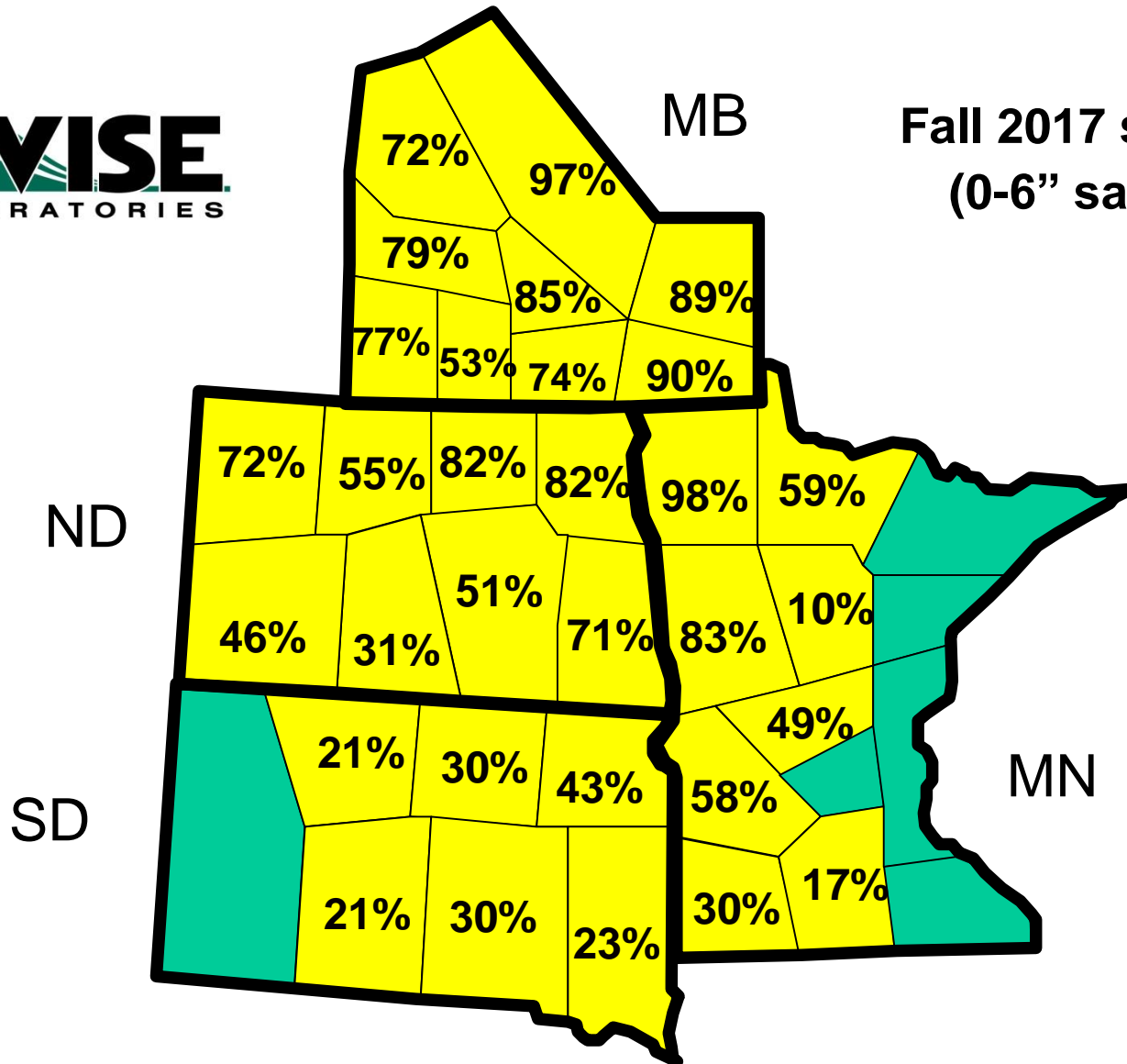
Fall 2017 samples
(0-6" samples)



% Soil Samples with Soil pH greater than 7.3



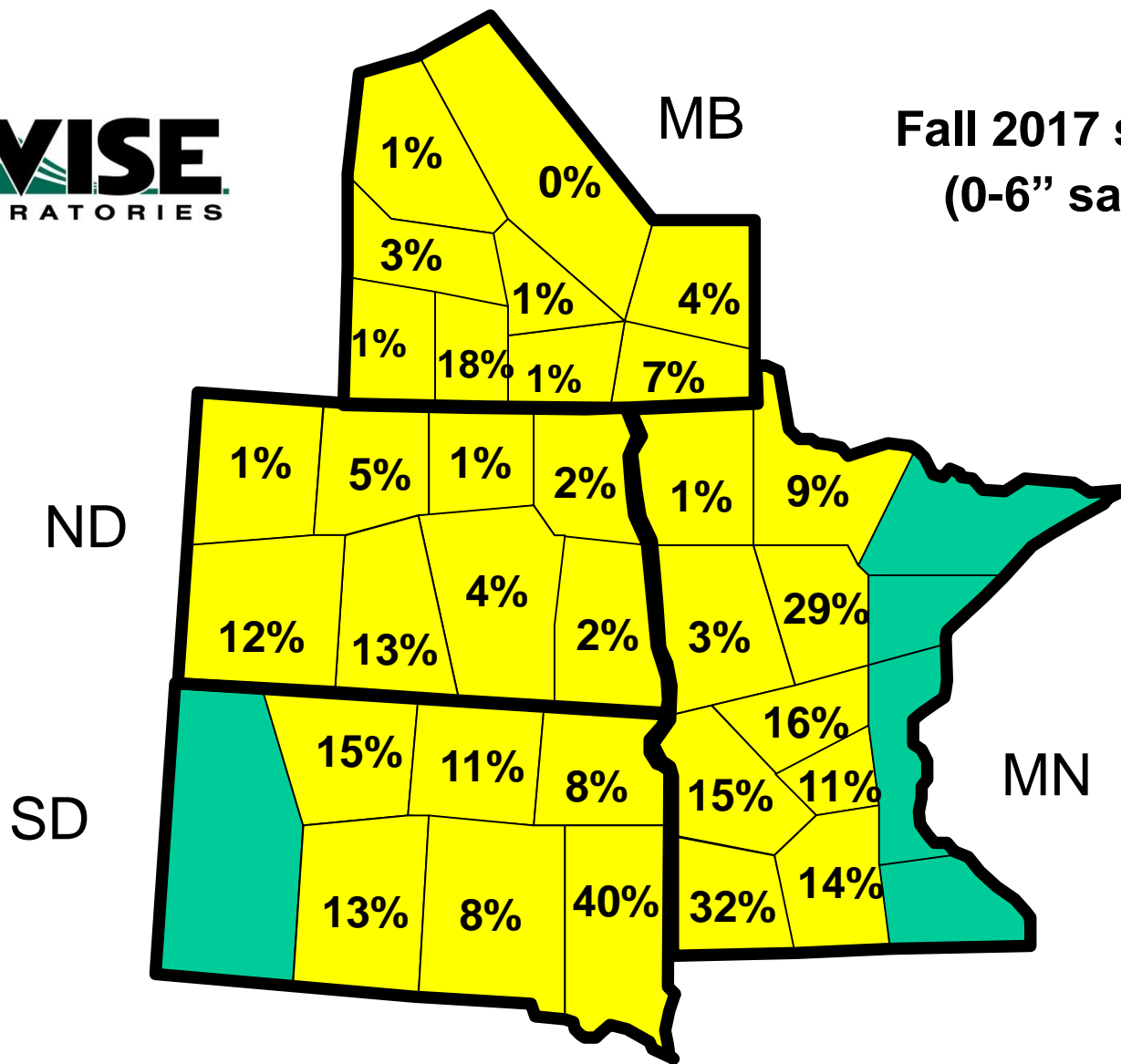
Fall 2017 samples
(0-6" samples)



% Soil Samples with Soil pH less than 6.0



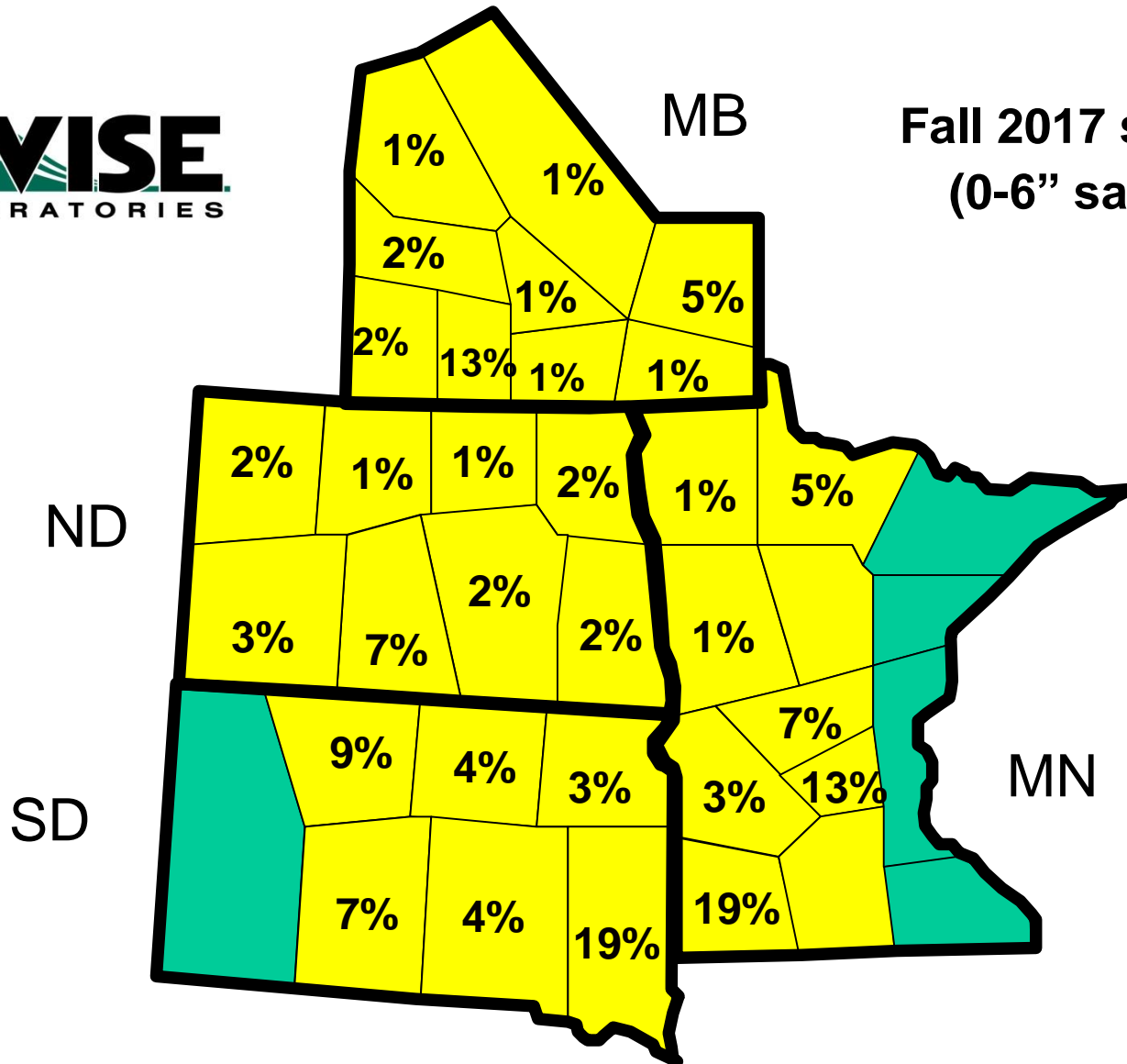
Fall 2017 samples
(0-6" samples)



% Subsoil Samples with pH less than 7.0



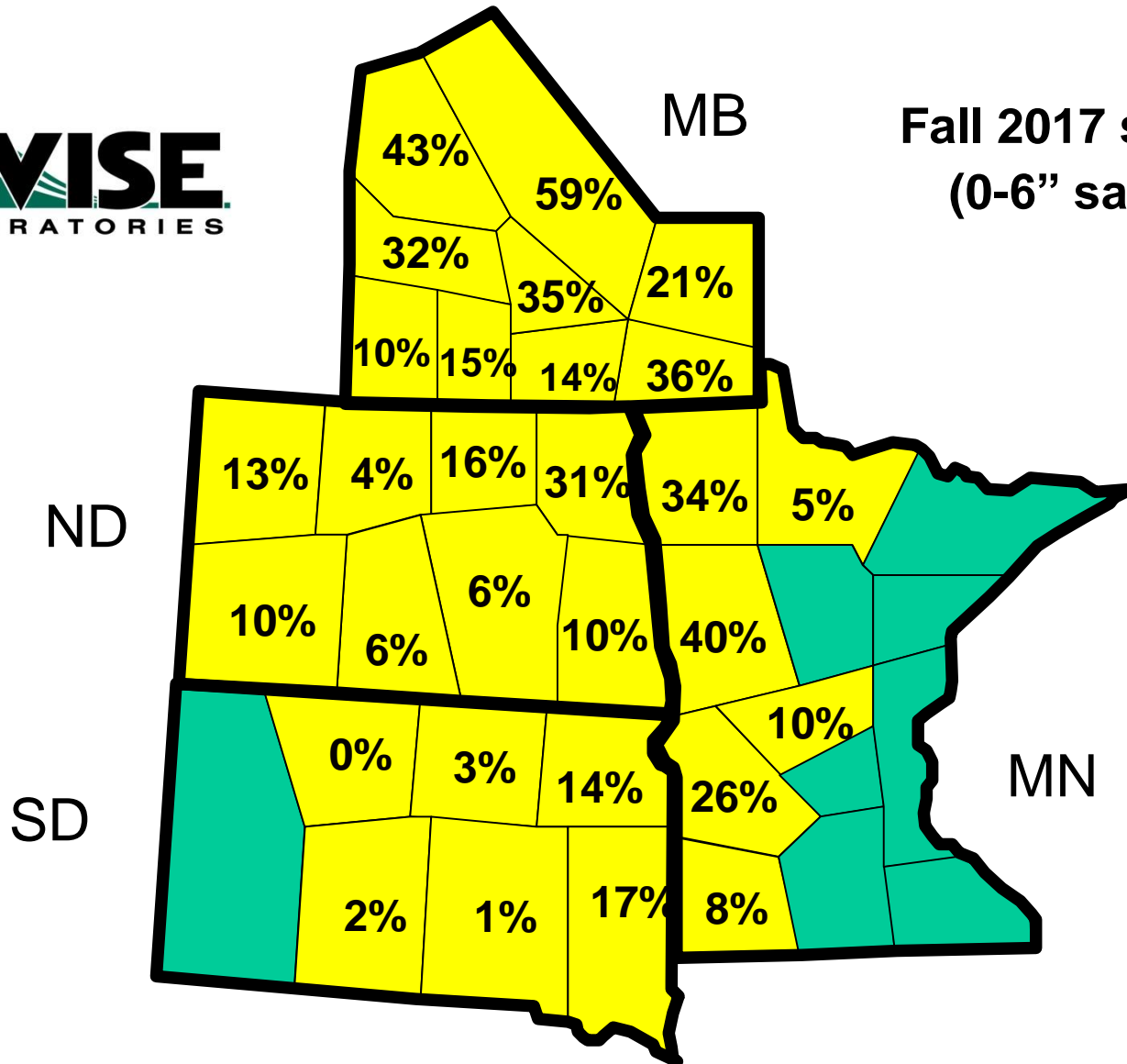
Fall 2017 samples
(0-6" samples)



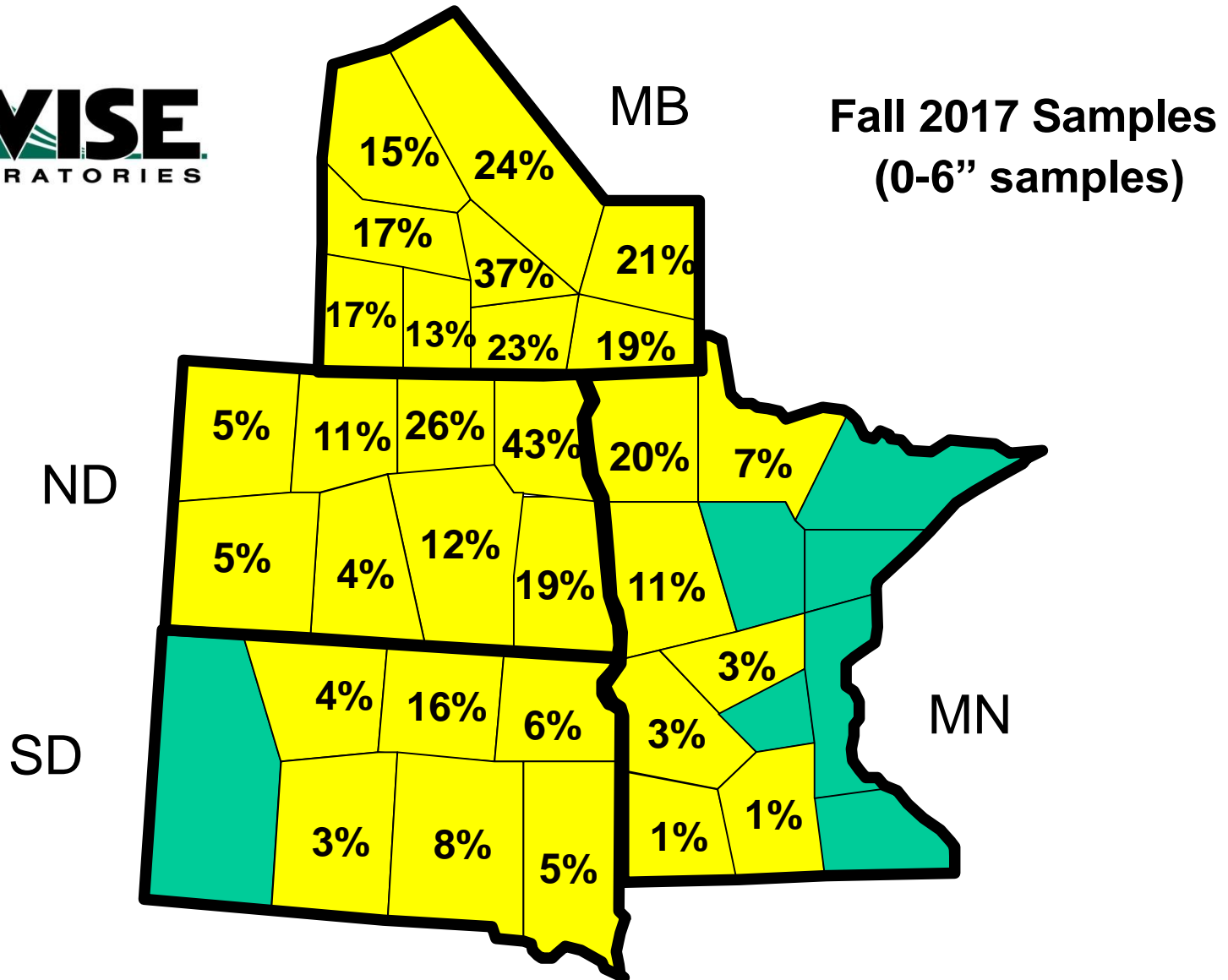
% Soil Samples with Carbonate greater than 5.0%



Fall 2017 samples
(0-6" samples)

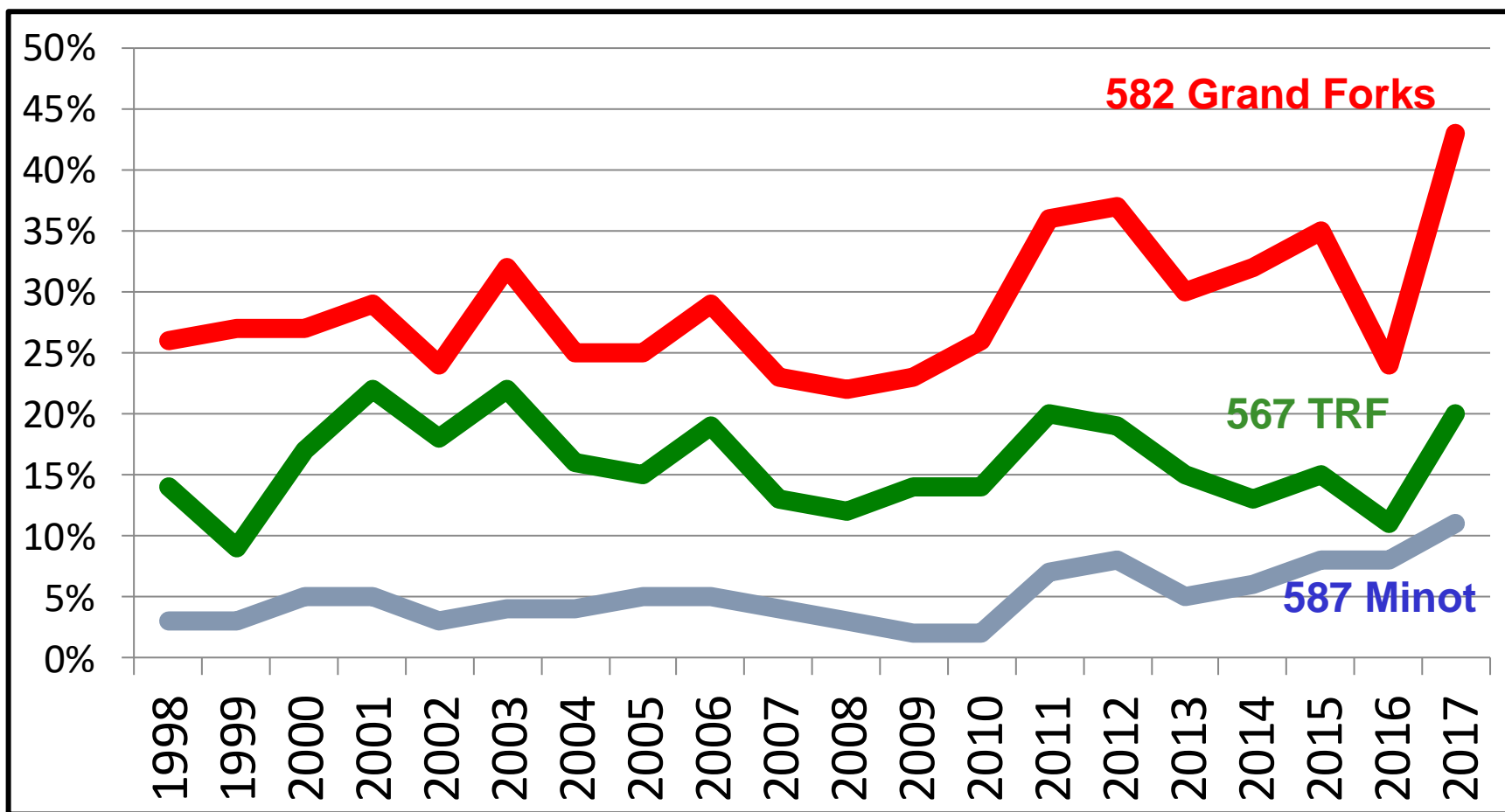


% Soil Samples with Salts greater than 1.0



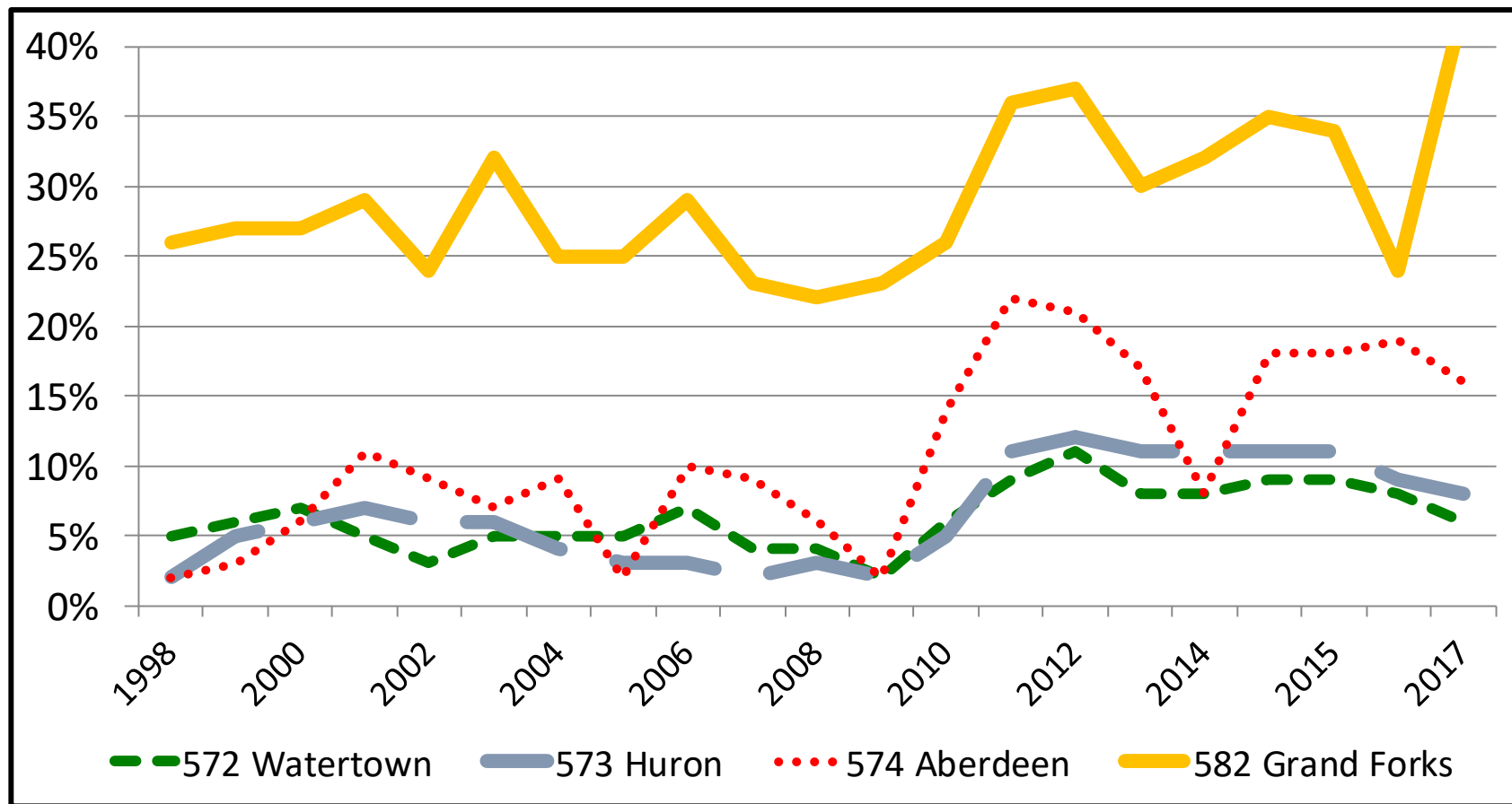
North Dakota & NW Minnesota

% Samples Testing with Salts greater than 1.0



1:1 salt method – expressed as mmhos/cm

South Dakota - % Samples Testing with Salts greater than 1.0



1:1 salt method – expressed as mmhos/cm

Zip Code Areas For Soil Test Summaries

