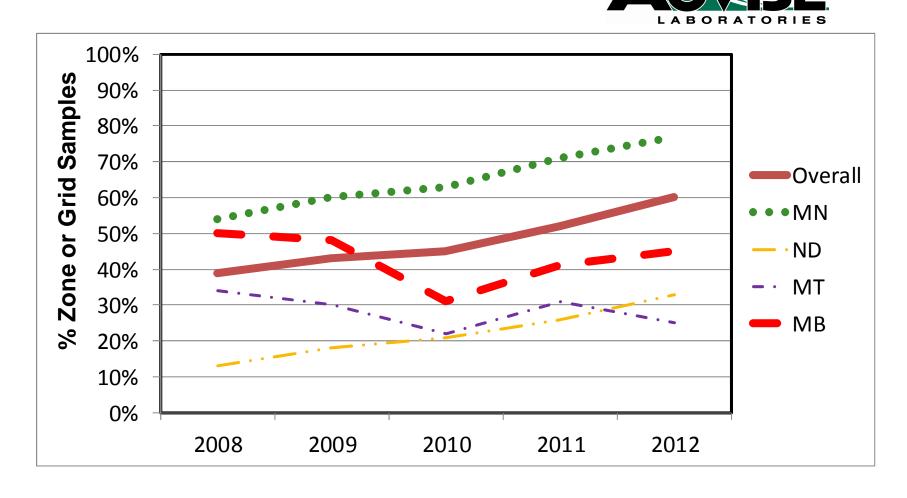
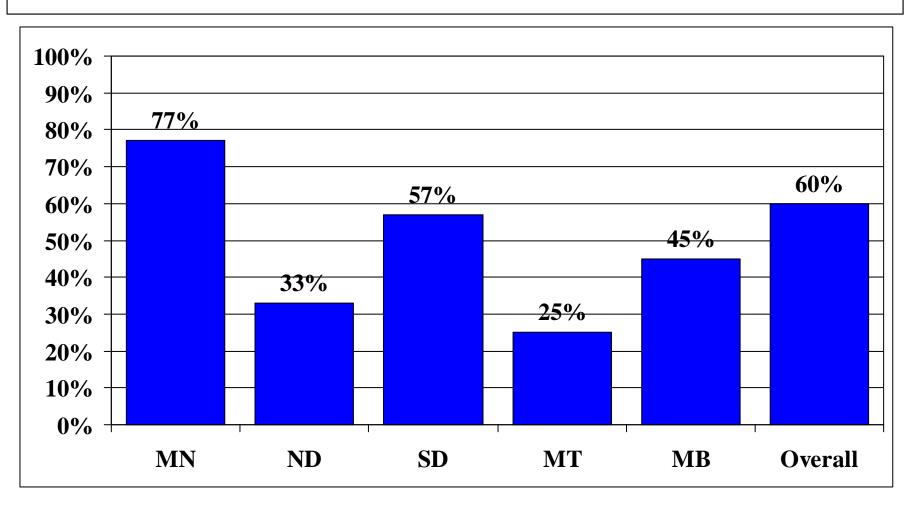
Trend for Precision Soil Testing % Zone or Grid Samples Tested compared to Total Samples



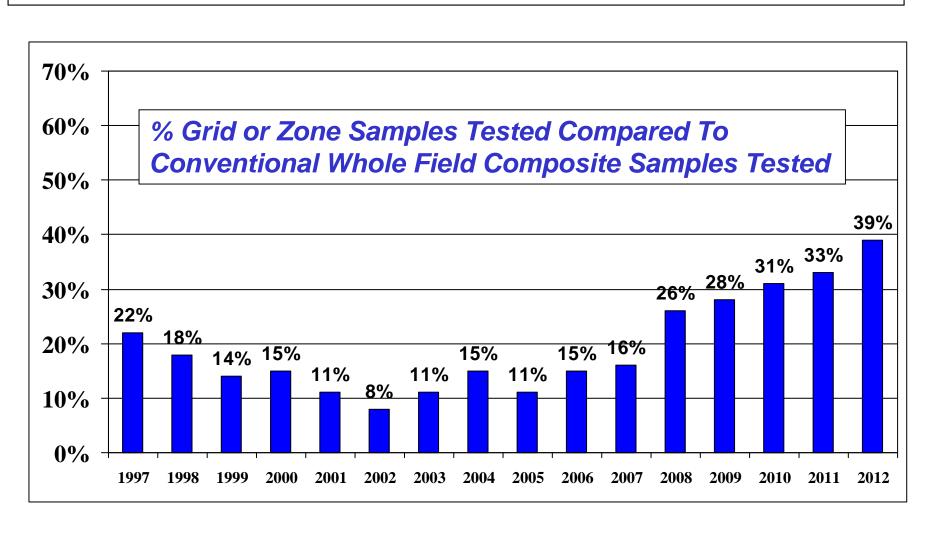
AGVISE Laboratories

%Zone or Grid Samples Tested Compared to Conventional Whole Field Composite Samples in 2012

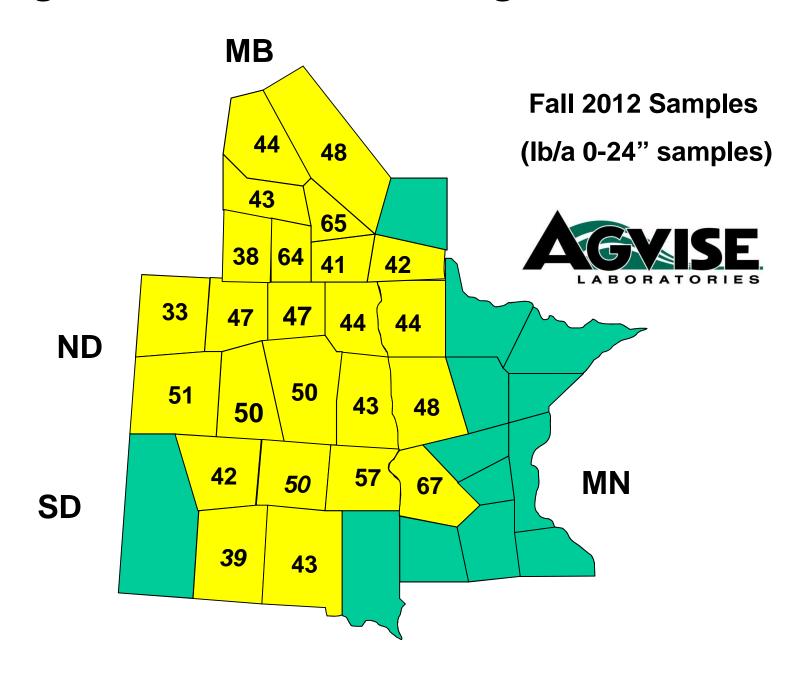


AGVISE Laboratories

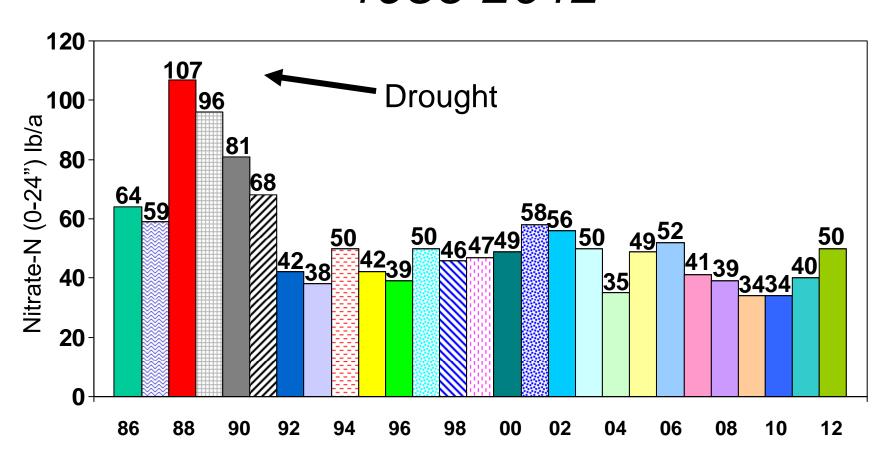
%Zone or Grid Samples – Northwood laboratory 1997 - 2012



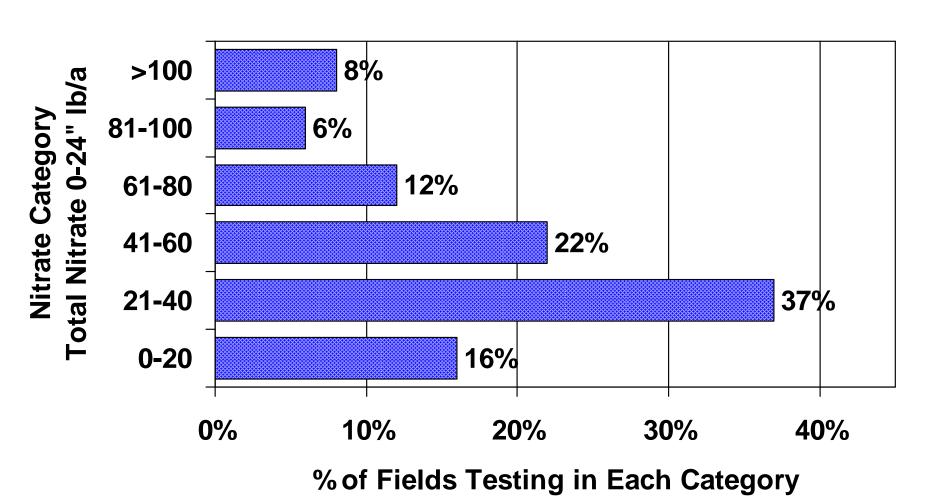
Average Soil Nitrate following Wheat in 2012



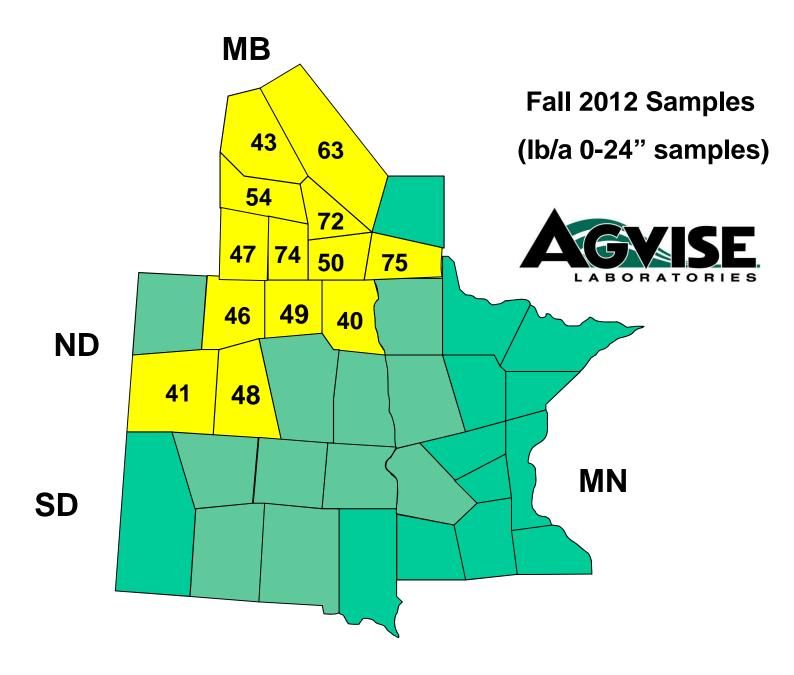
Average Soil Nitrate Following "WHEAT" in Canada 1986-2012



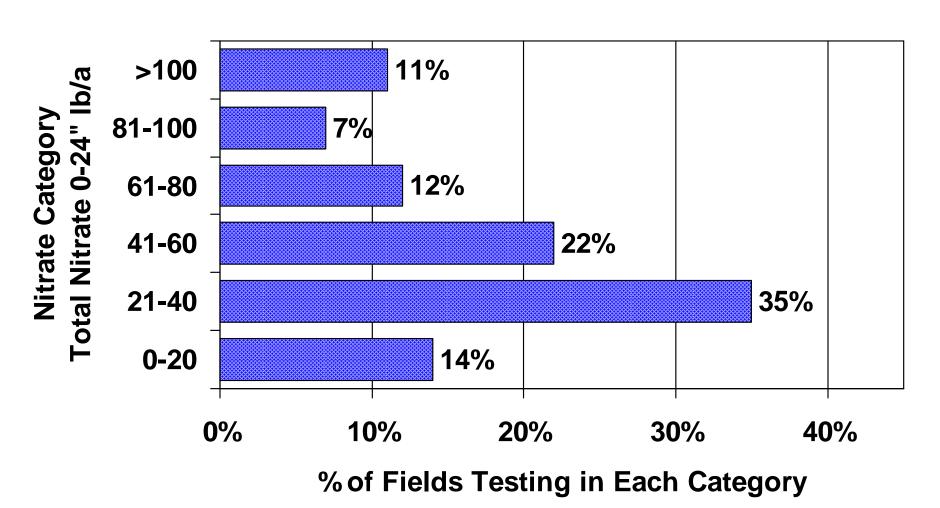
Soil Nitrate Variability Between Fields Following "Wheat" in Canada - 2012



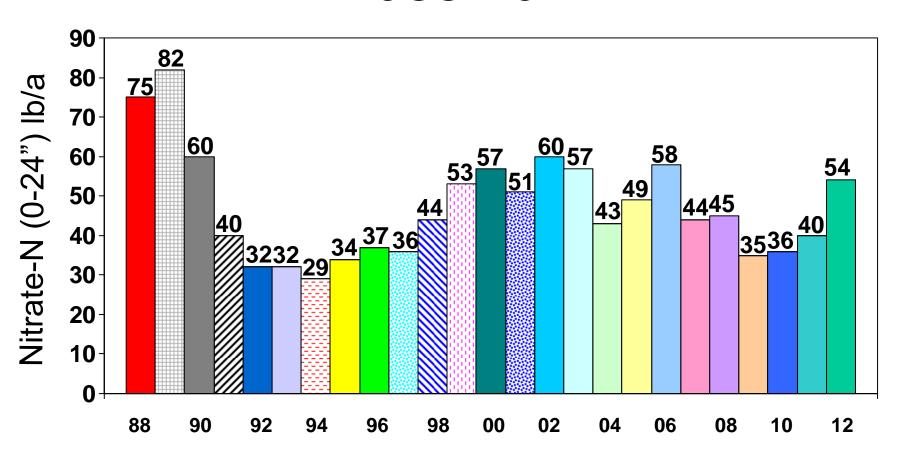
Average Soil Nitrate following Canola in 2012



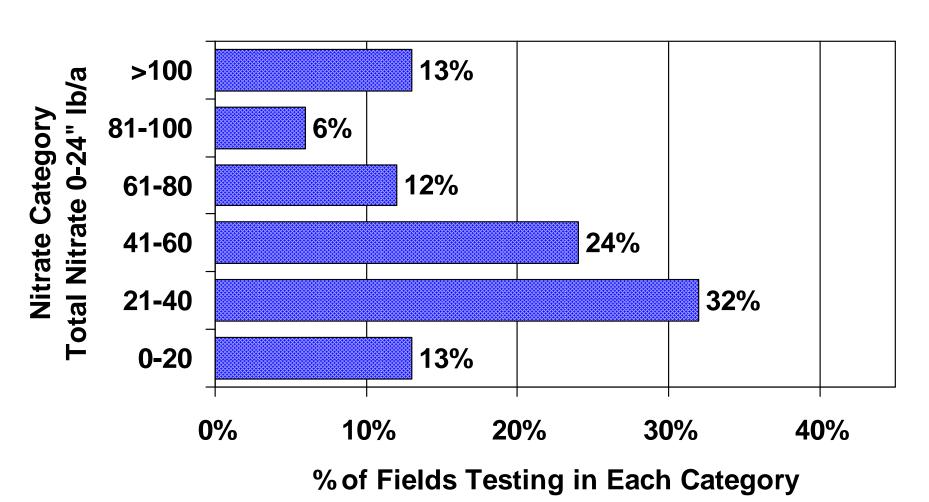
Soil Nitrate Variability Between Fields Following "Canola" in Canada – 2012



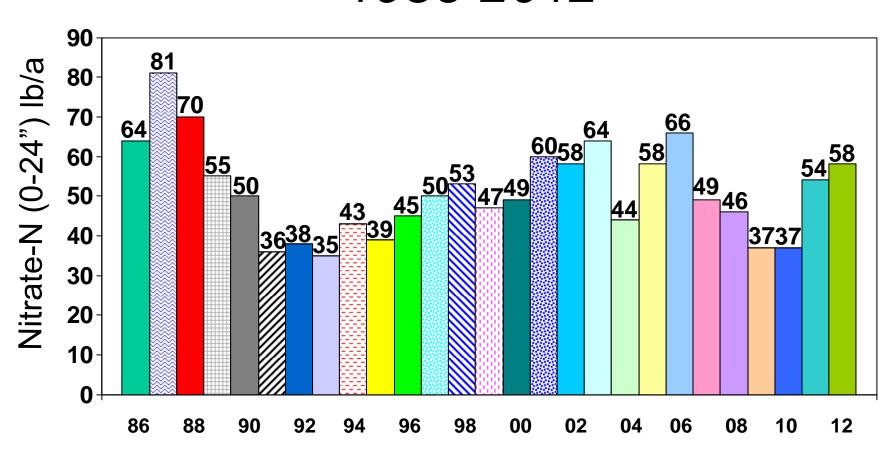
Average Soil Nitrate Following "Canola" in Canada 1988-2012



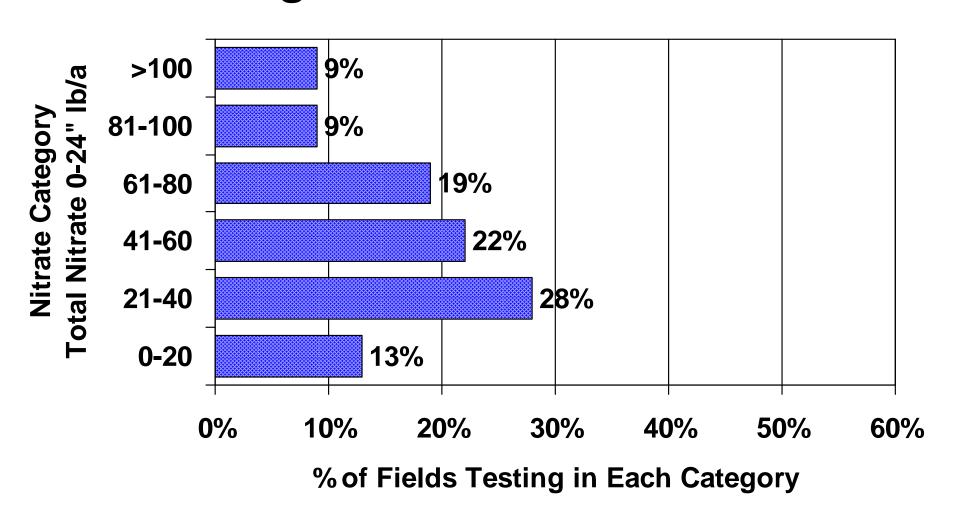
Soil Nitrate Variability Between Fields Following "Barley" in Canada - 2012



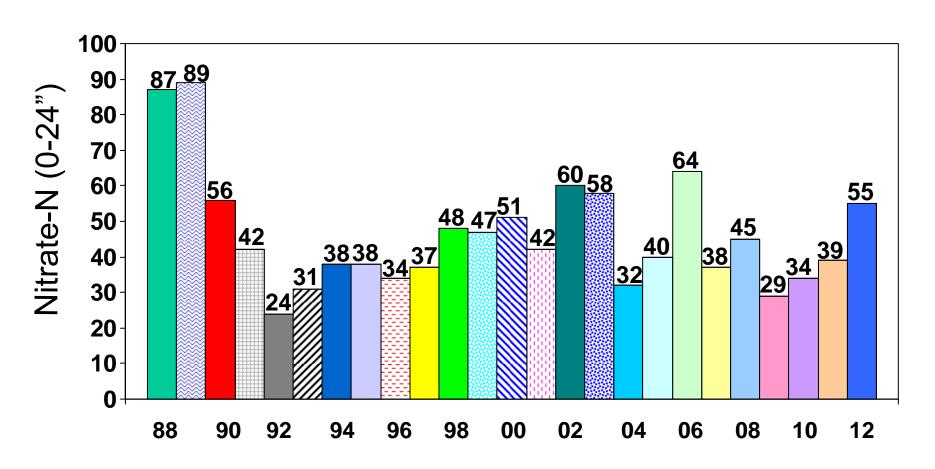
Average Soil Nitrate Following "BARLEY in Canada 1986-2012



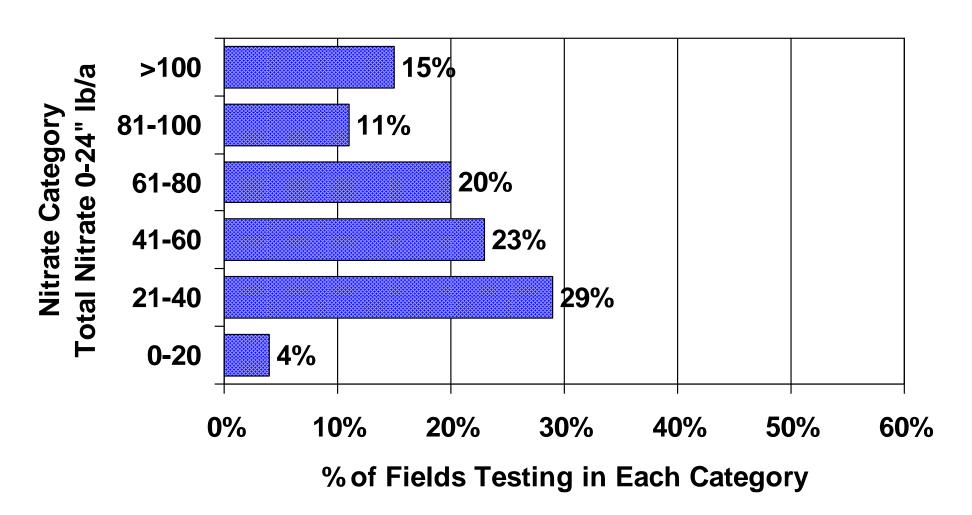
Soil Nitrate Variability Between Fields Following "Flax" in Canada - 2012



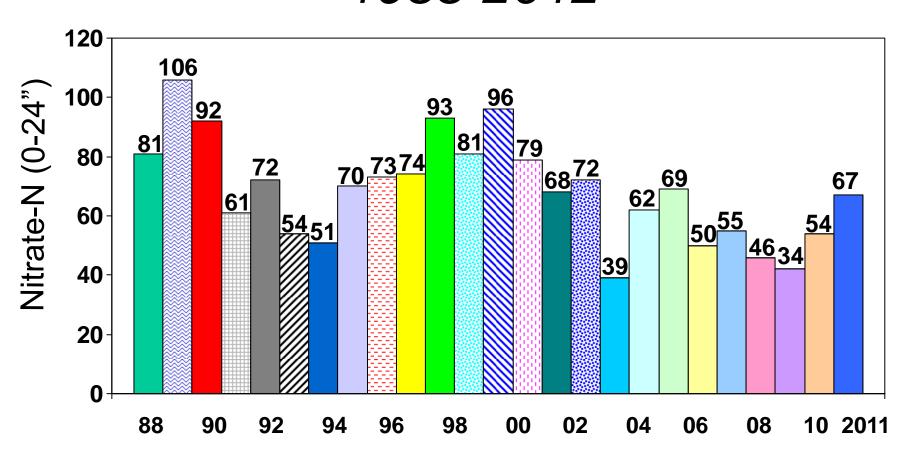
Average Soil Nitrate Following "FLAX in Canada 1988-2012



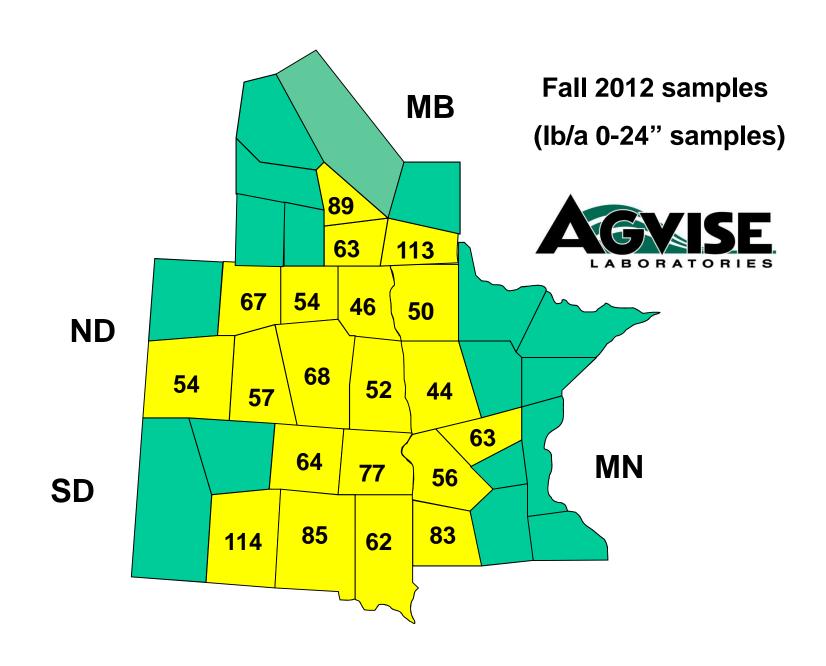
Soil Nitrate Variability Between Fields Following "Potato" in Canada - 2012



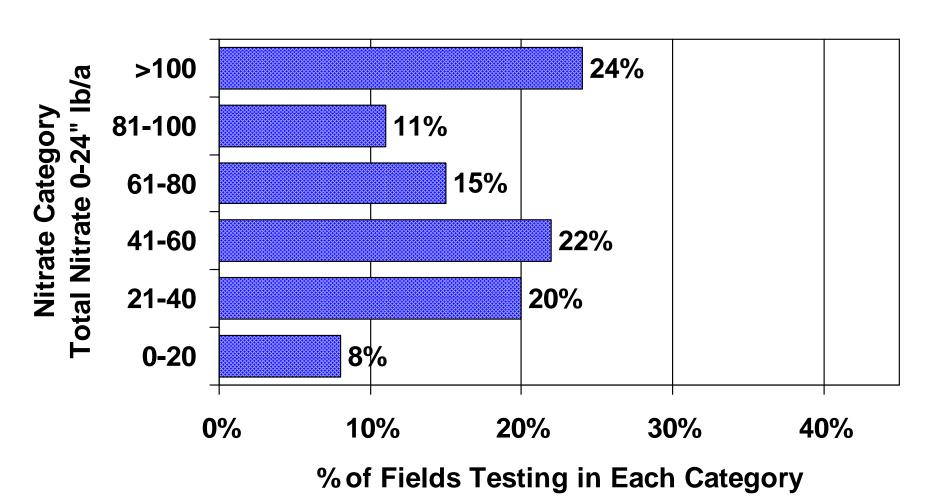
Average Soil Nitrate Following "POTATO" in Canada 1988-2012



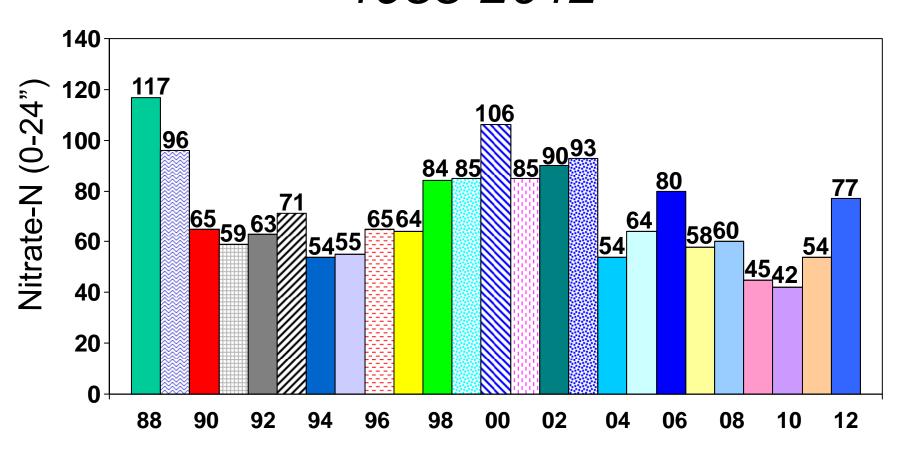
Average Soil Nitrate following Corn in 2012



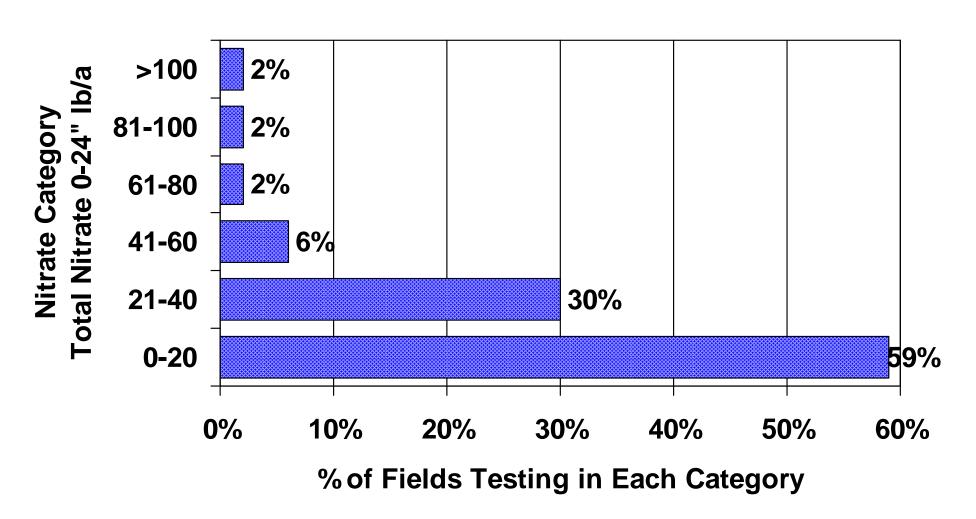
Soil Nitrate Variability Between Fields Following "Corn" in Canada - 2012



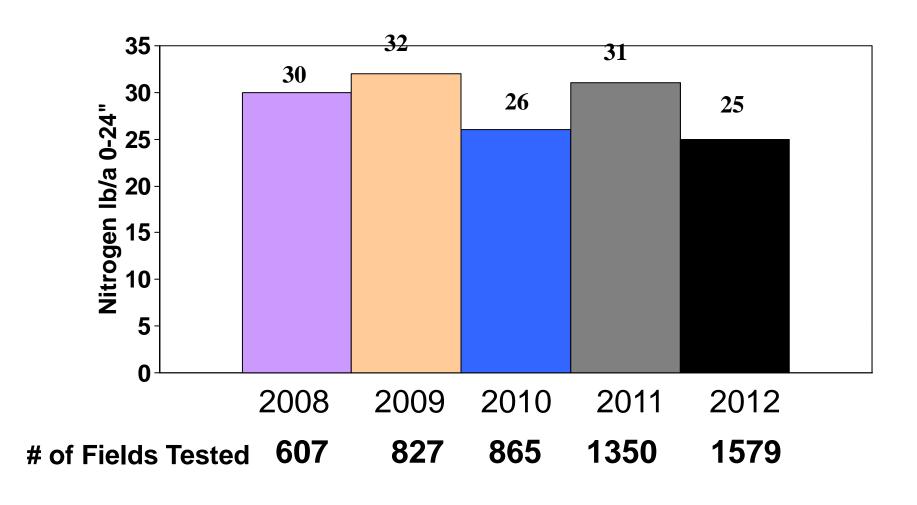
Average Soil Nitrate Following "CORN in Canada 1988-2012



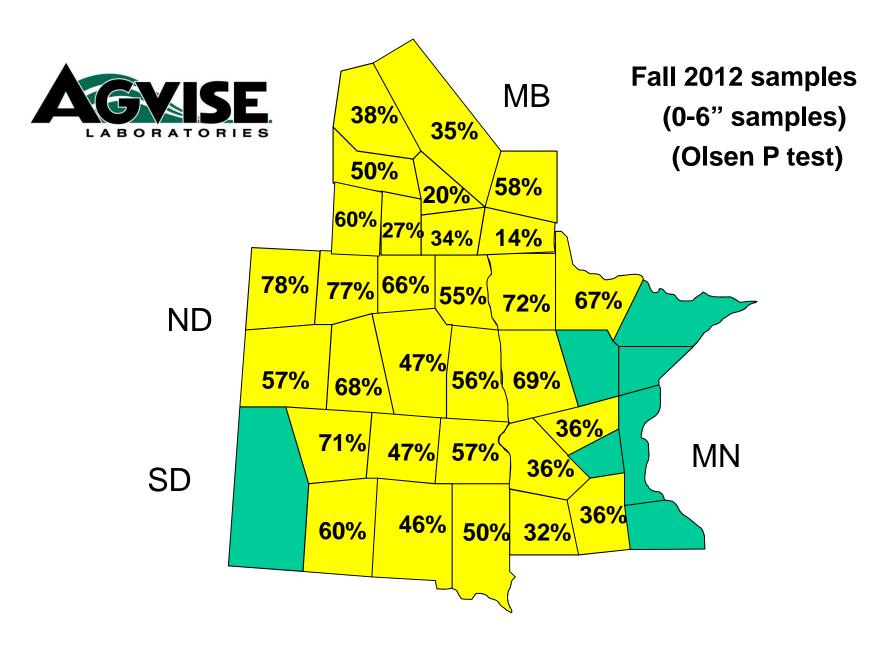
Soil Nitrate Variability Between Fields Following "Soybean" in Canada 2012



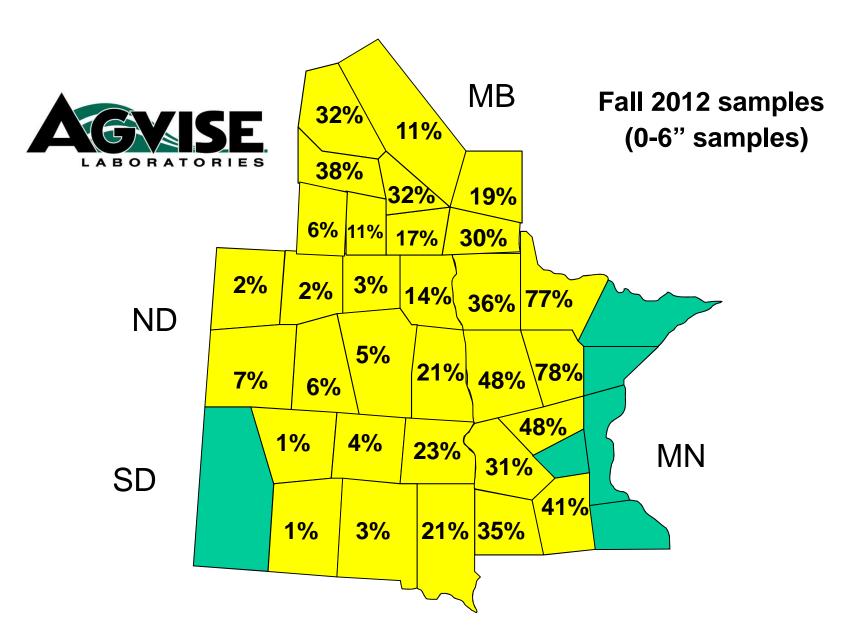
Average Soil Nitrate Following "Soybeans" in Canada



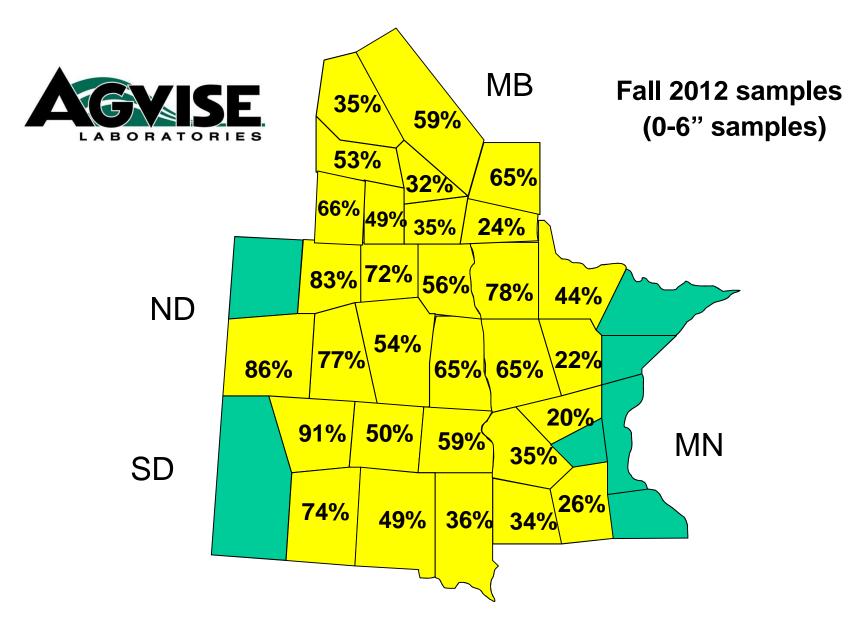
% Soil Samples with Phosphorus less than 10 ppm



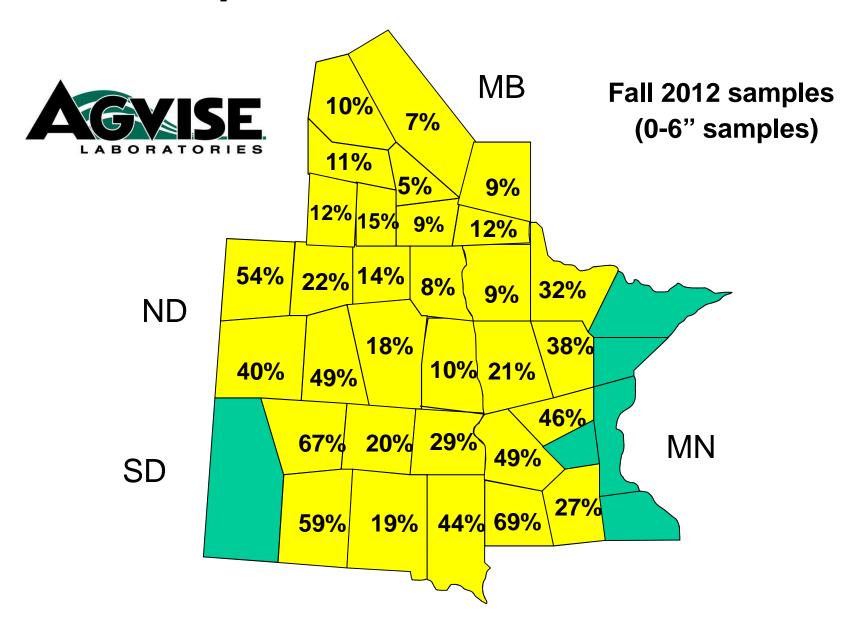
% Soil Samples with Potassium less than 150 ppm



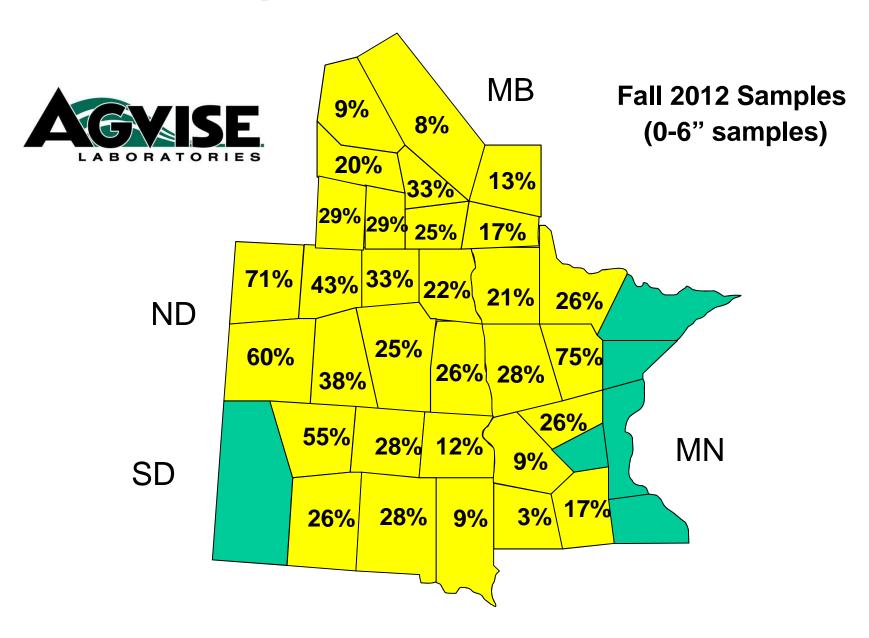
% Soil Samples with Zinc less than 1.0 ppm



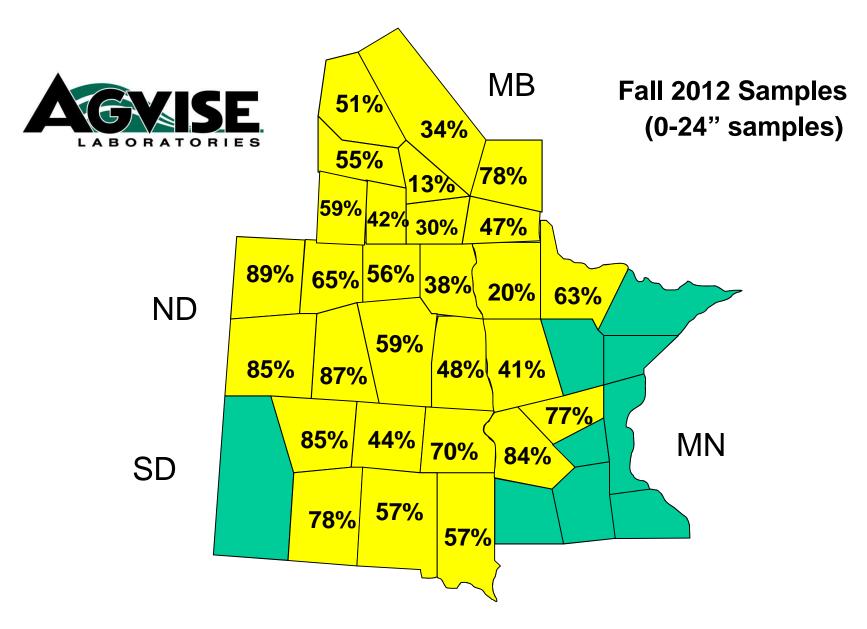
% Soil Samples with Sulfur less than 15 lb/a



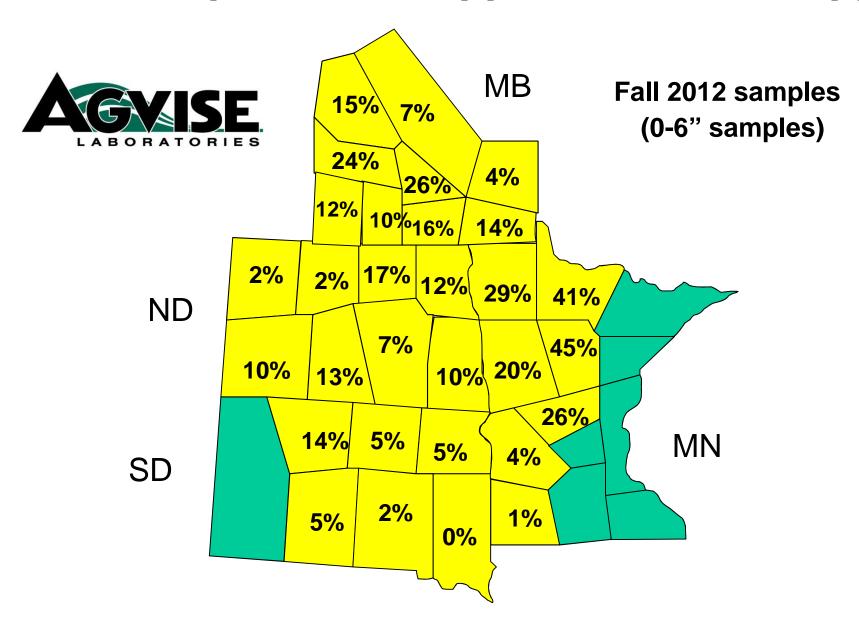
% Soil Samples with %OM less than 3.0%



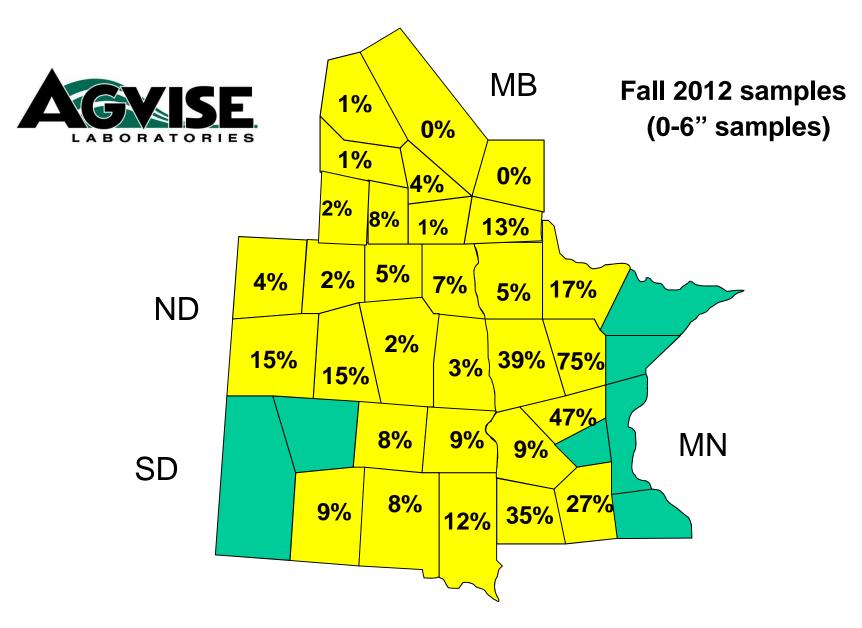
% Soil Samples with Chloride less than 40 lb/a



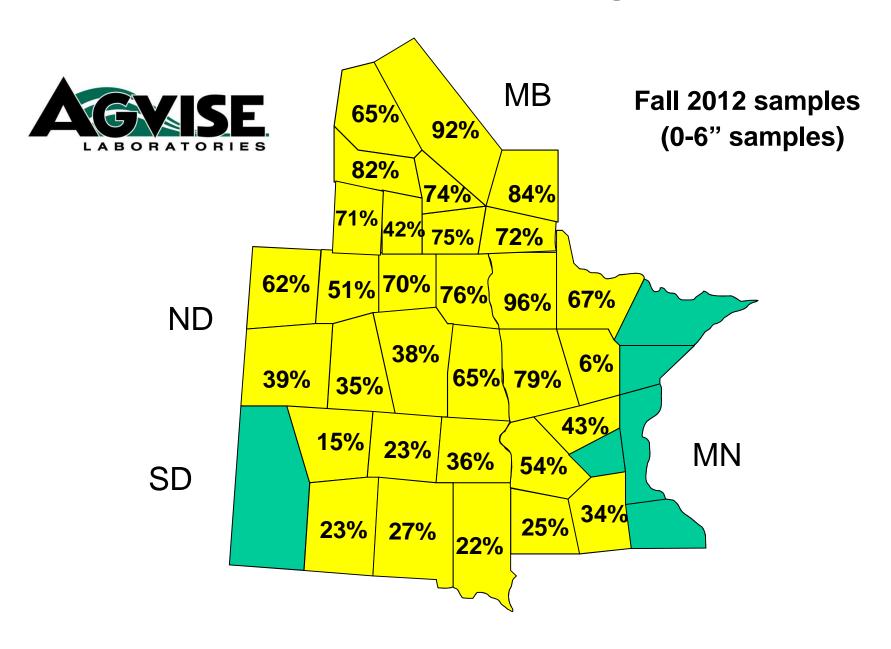
% Soil Samples with Copper less than 0.5 ppm



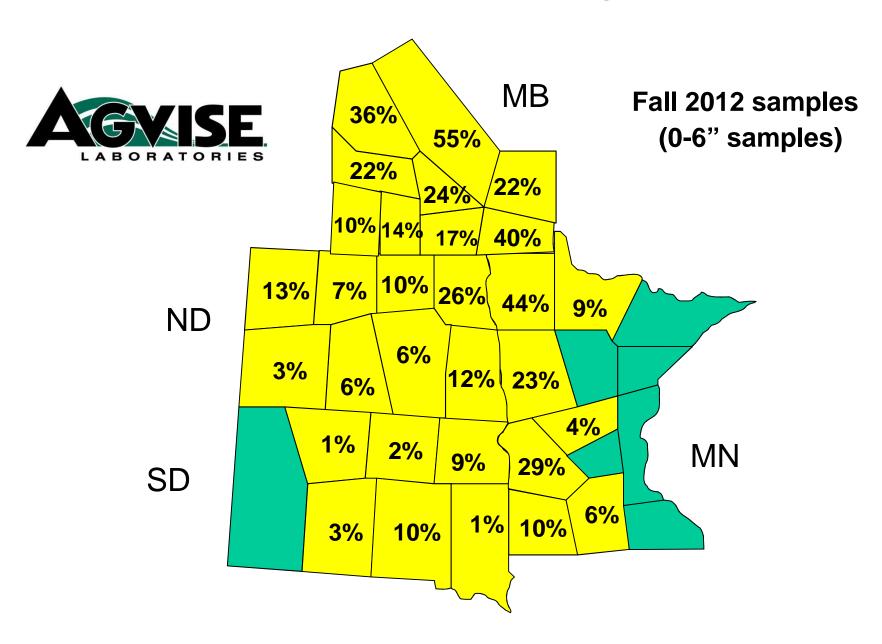
% Soil Samples with Boron less than 0.4 ppm



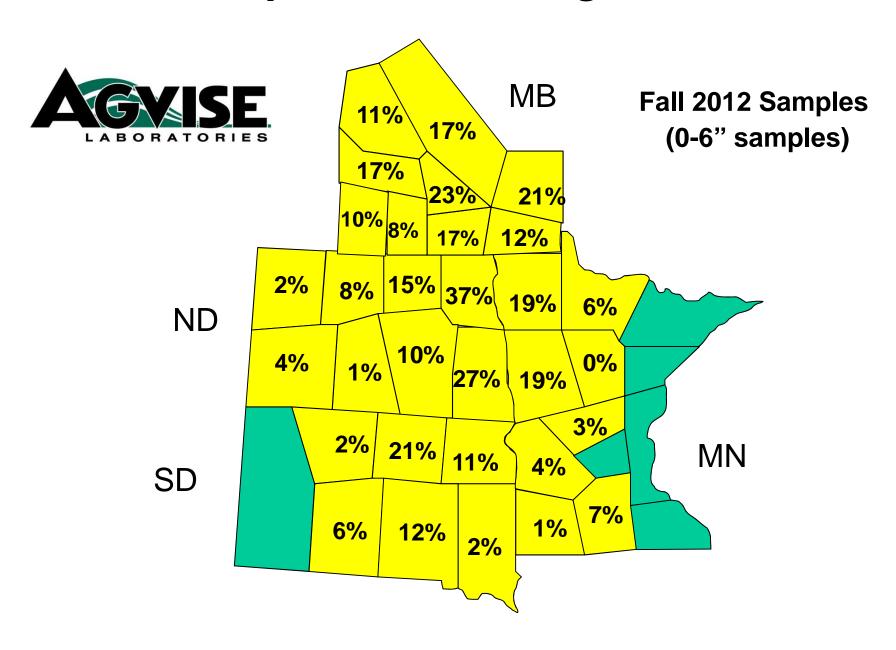
% Soil Samples with Soil pH greater than 7.3



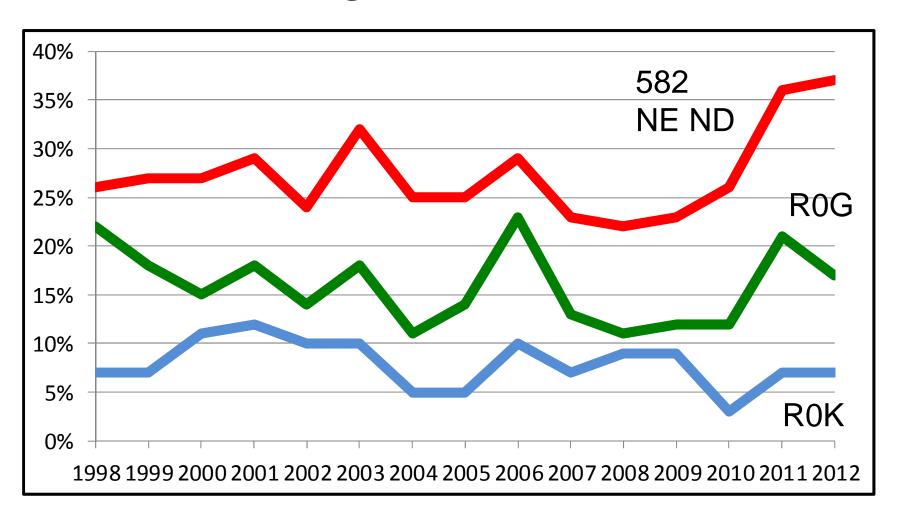
% Soil Samples with Carbonate greater than 5.0%



% Soil Samples with Salts greater than 1.0



Manitoba - % Samples Testing with Salts greater than 1.0



1:1 salt method – expressed as mmhos/cm

The Salt Problem may be Worse than this?

- Composite samples
 - Avoid areas that don't represent most of the field
 - Saline areas
 - Sandy ridges
- Many salty fields don't get tested
- Zone sampling
 - The salty zones often do not get tested or fertilized