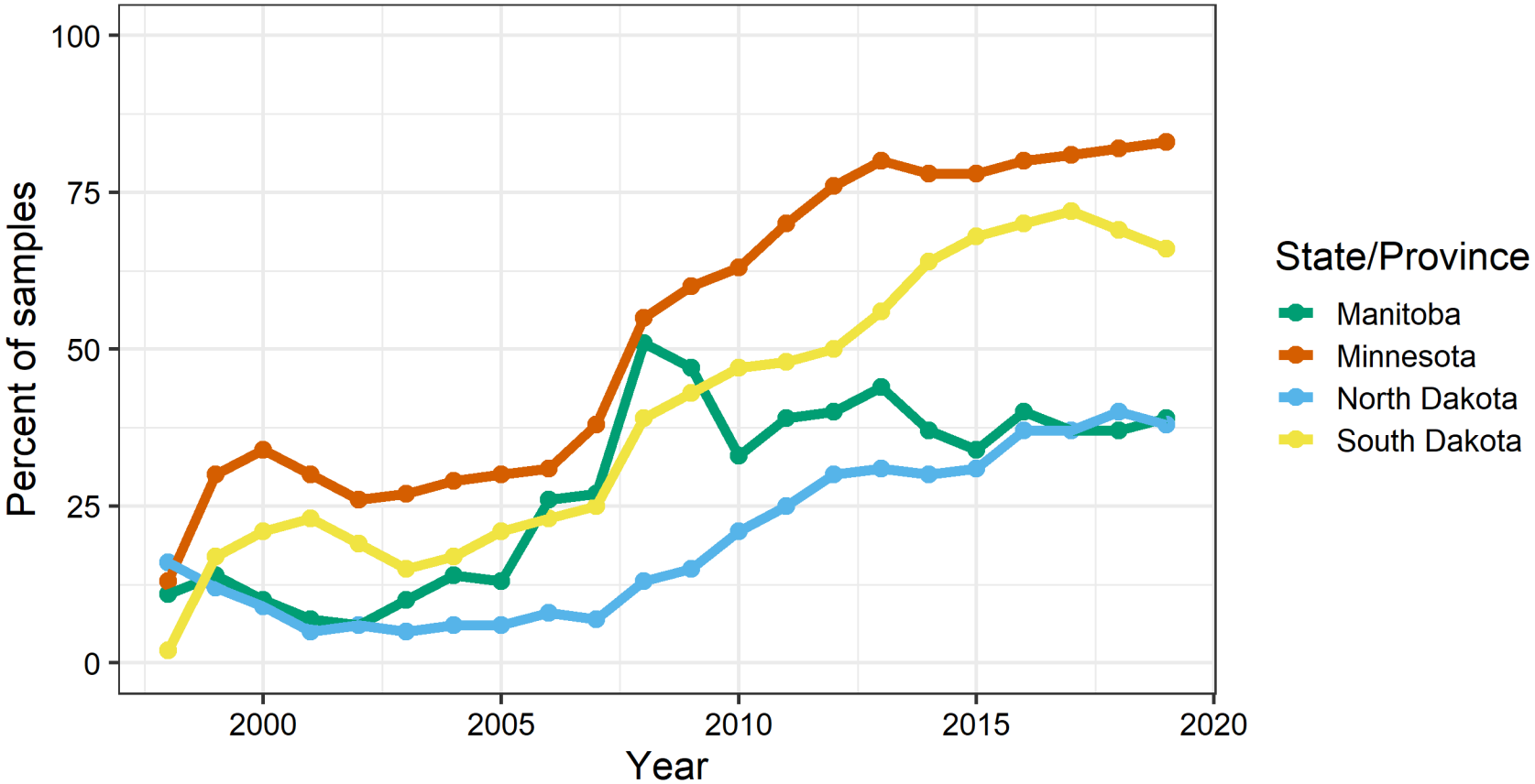
AGVISE Soil Test Summary Minnesota, North Dakota South Dakota, Manitoba 2019

- Regional summary of residual soil nitrate after major crops and soil test nutrient levels

Soil samples collected as a precision sample (grid or zone)

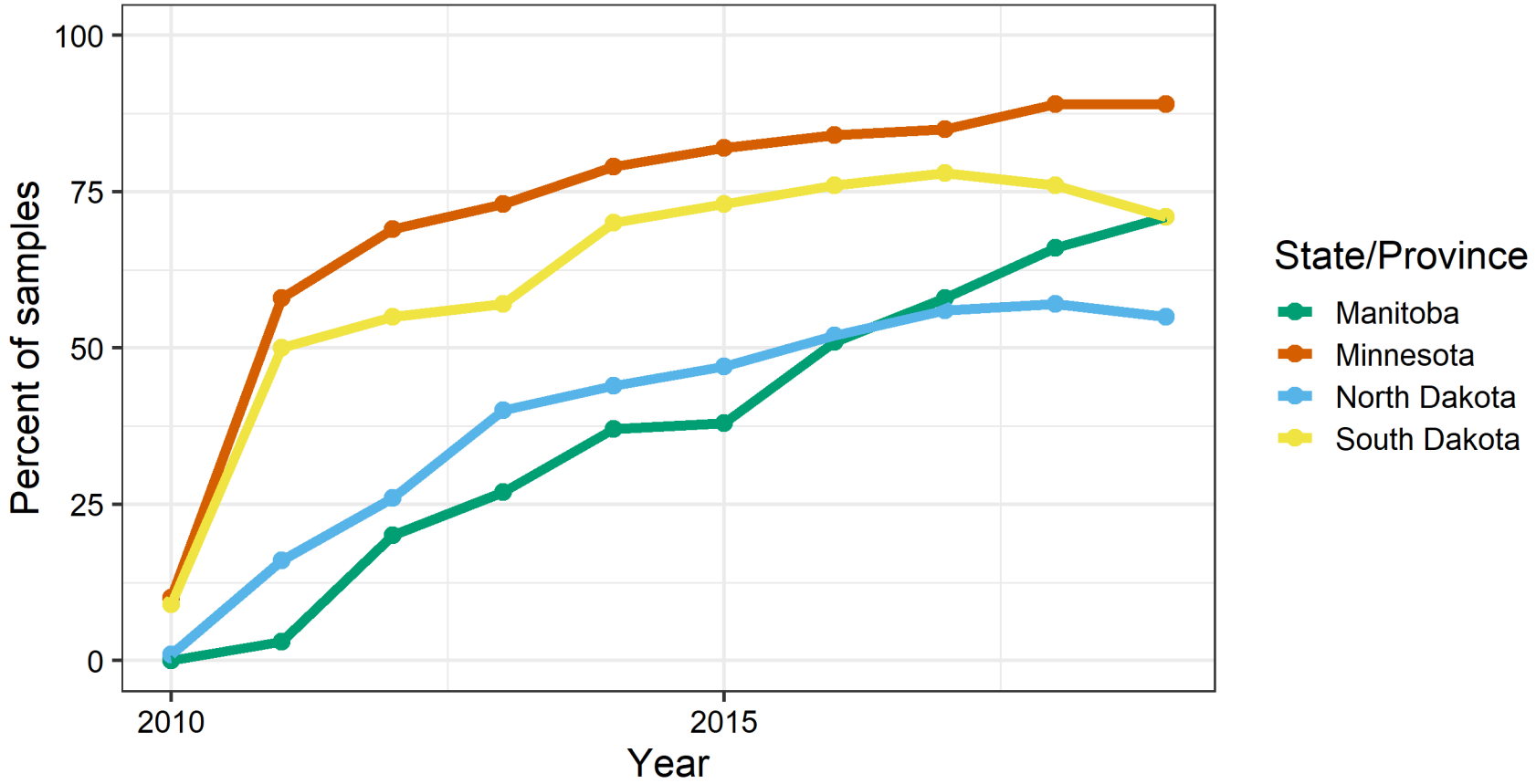
Trend from 1998 to 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

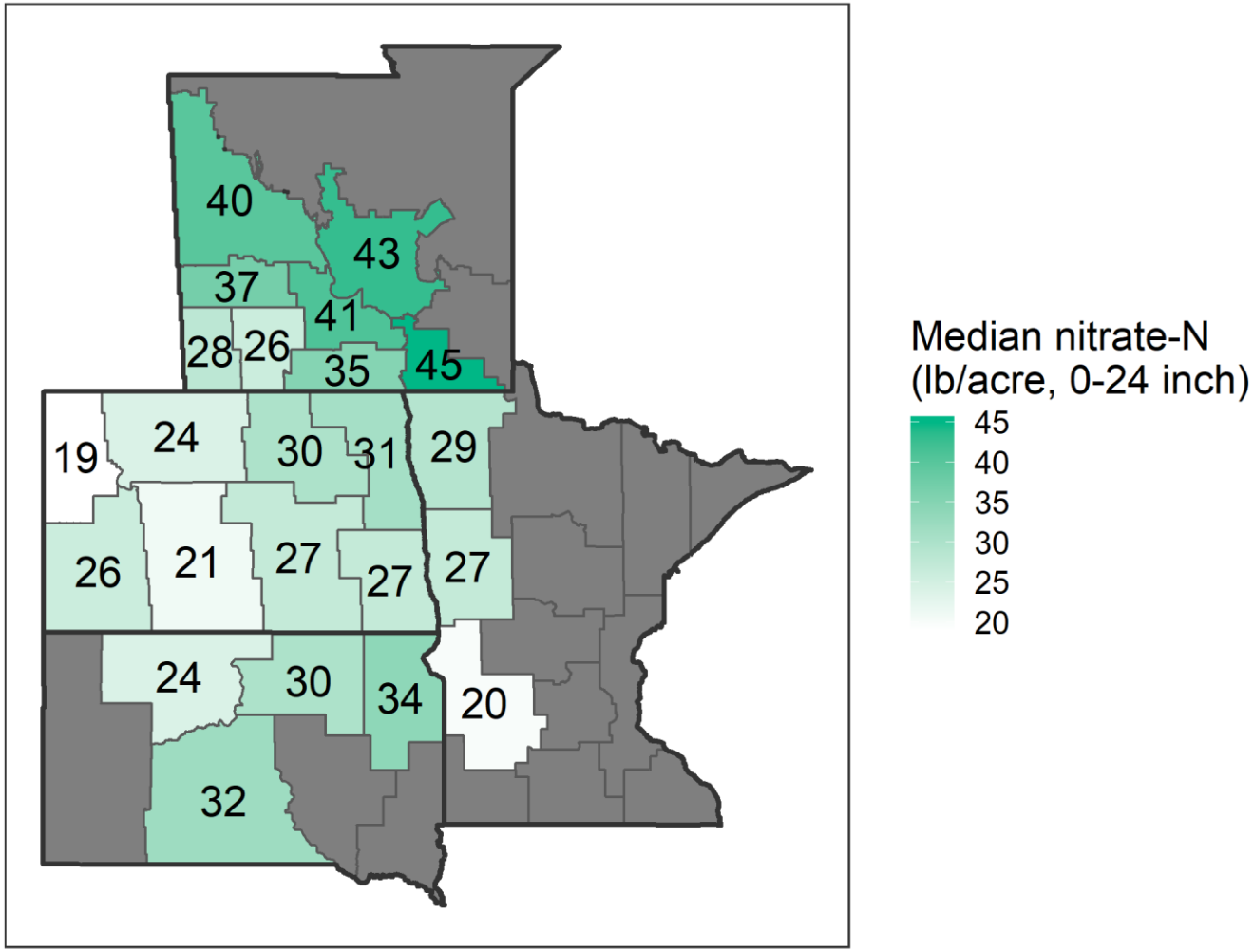
Soil samples submitted using AGVISE Online Submission

Trend from 2010 to 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

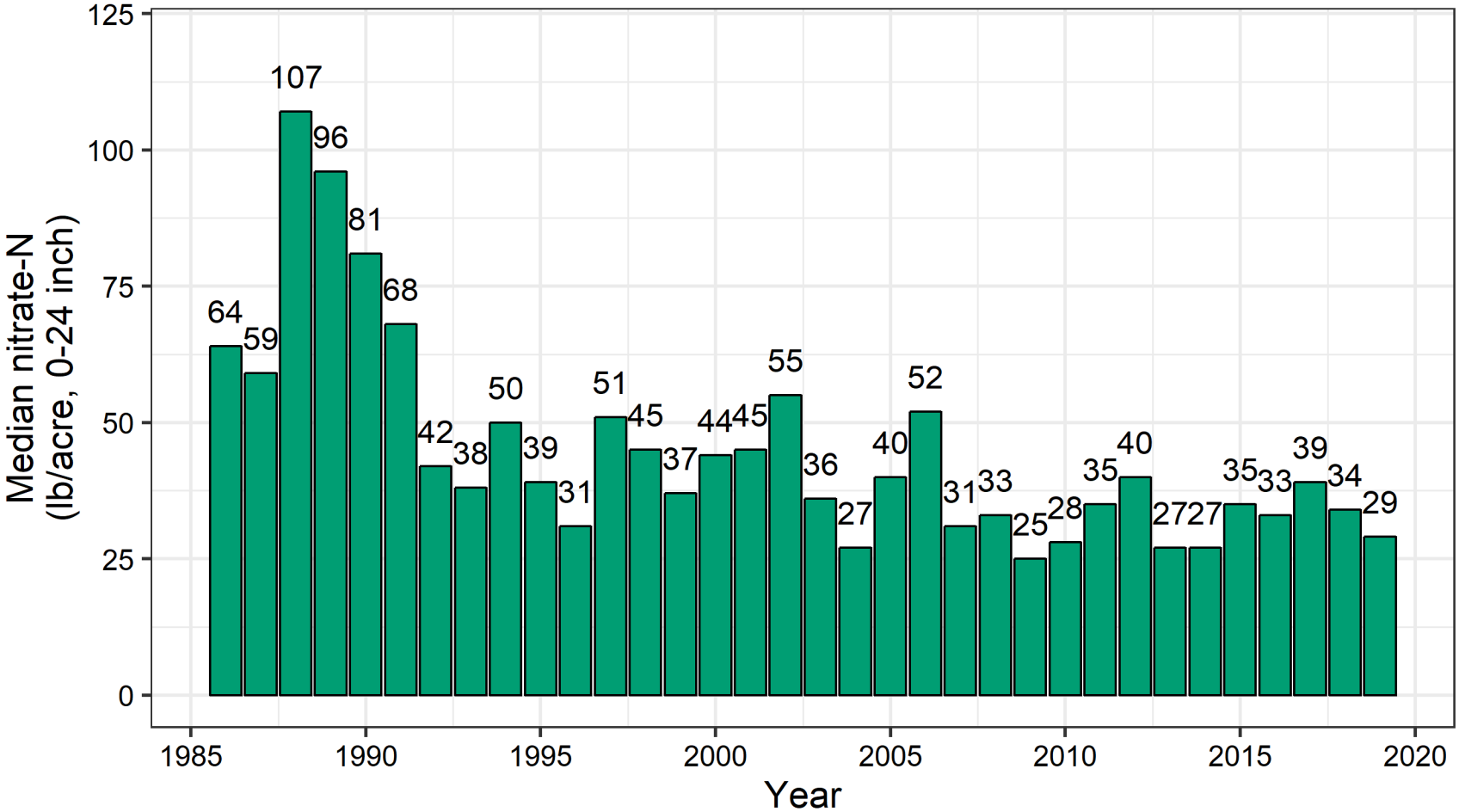
Residual nitrate following wheat in 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

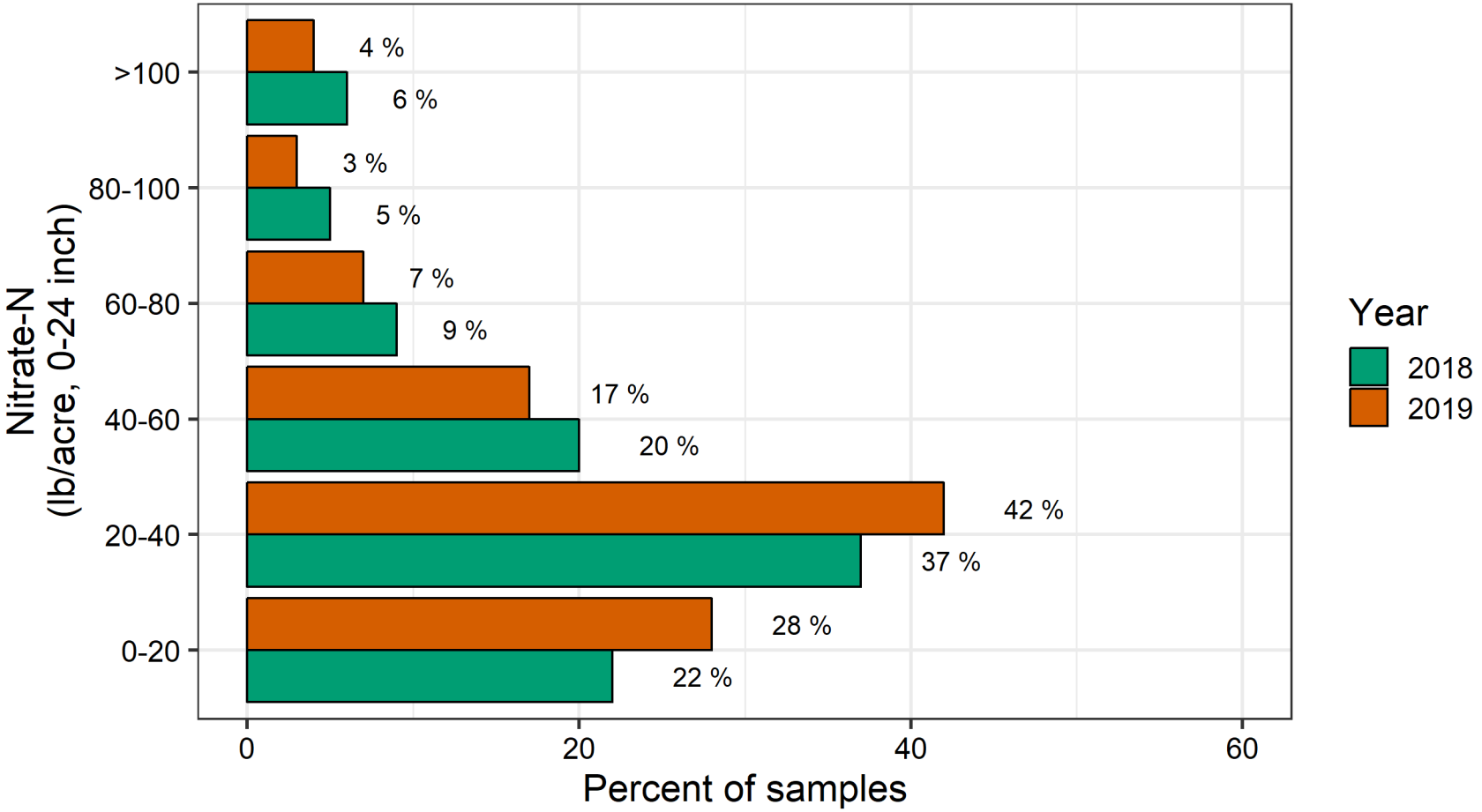
Residual nitrate following wheat

Trend from 1986 to 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

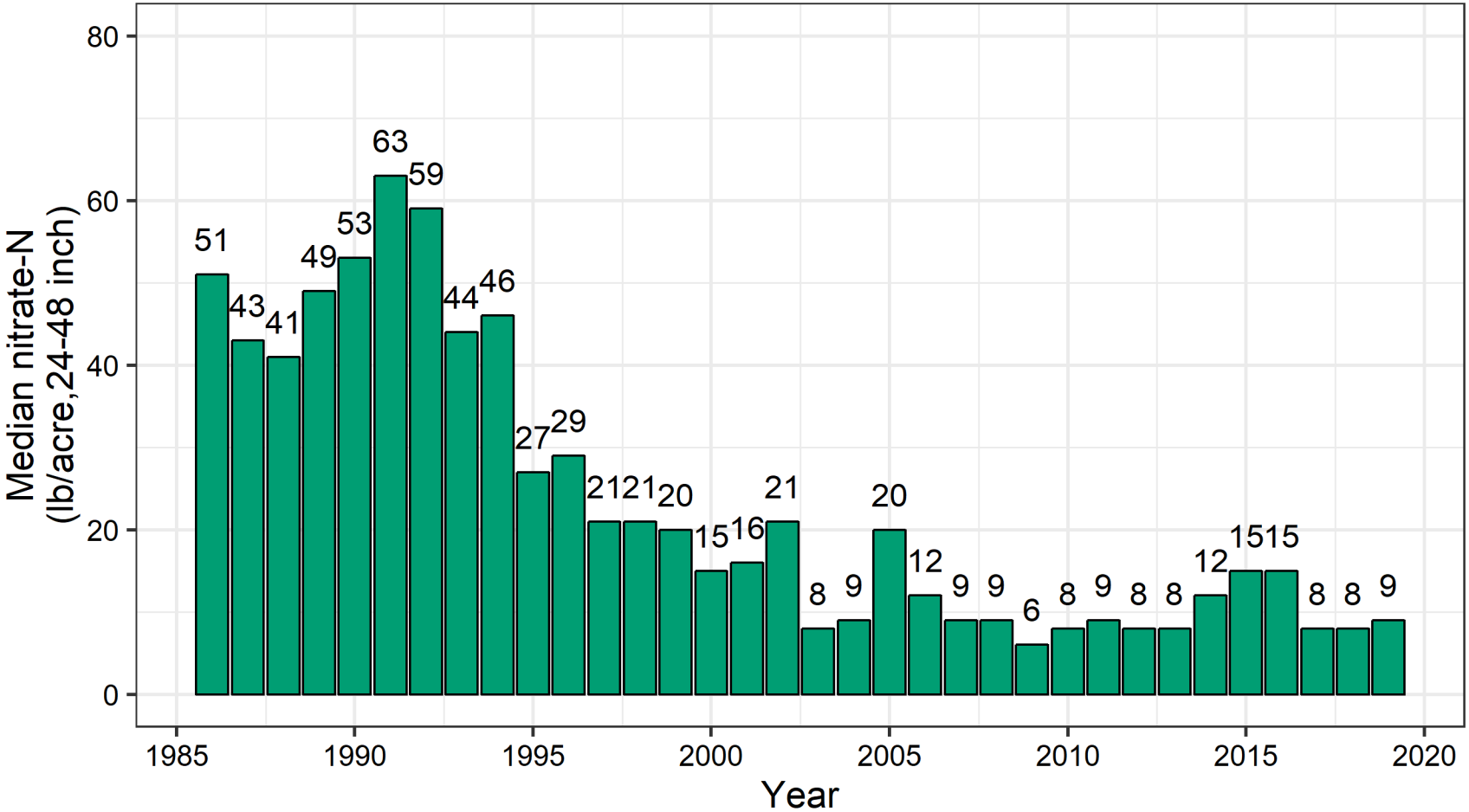
Variability in residual nitrate following wheat in 2018 & 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Residual deep nitrate following wheat

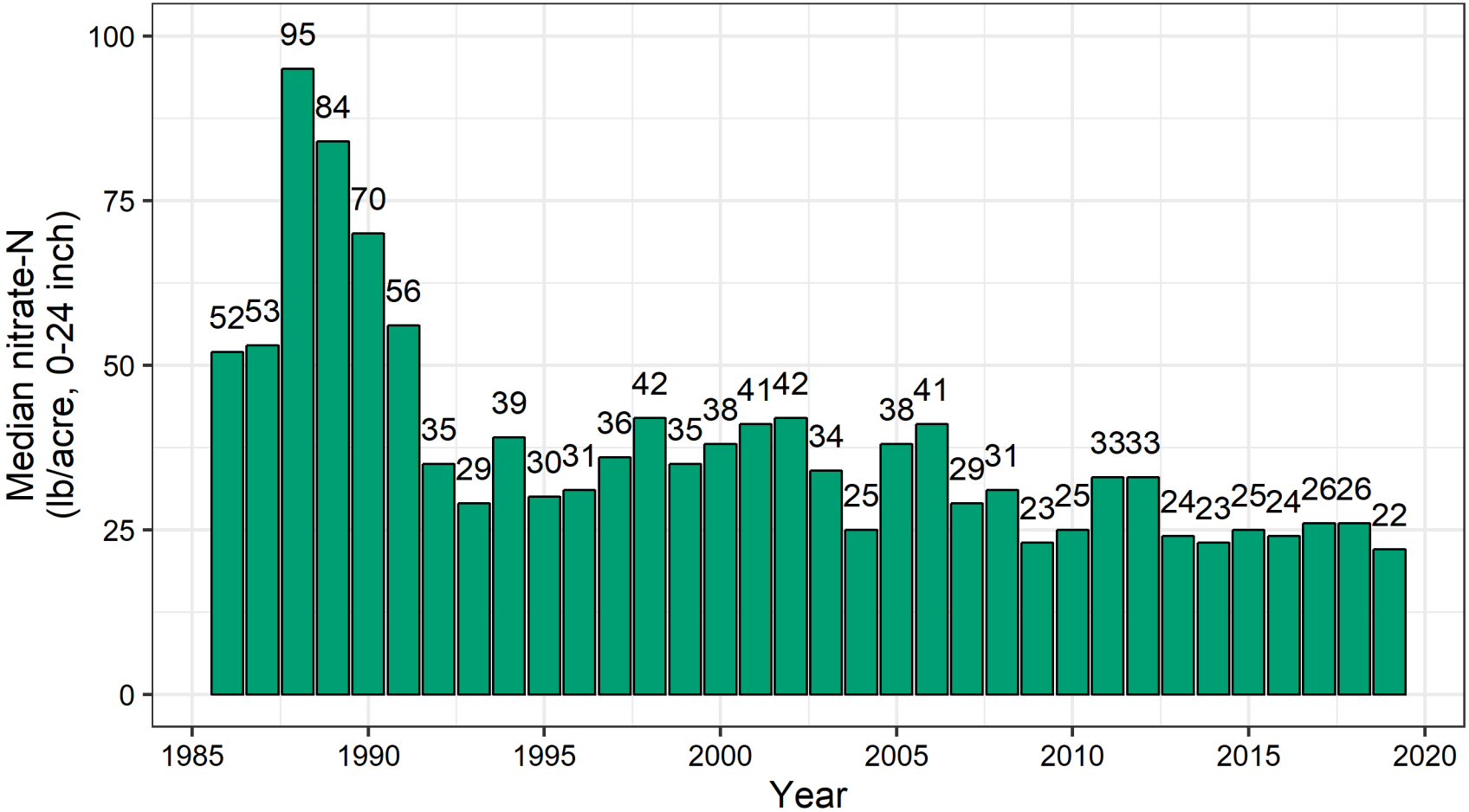
Trend from 1986 to 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

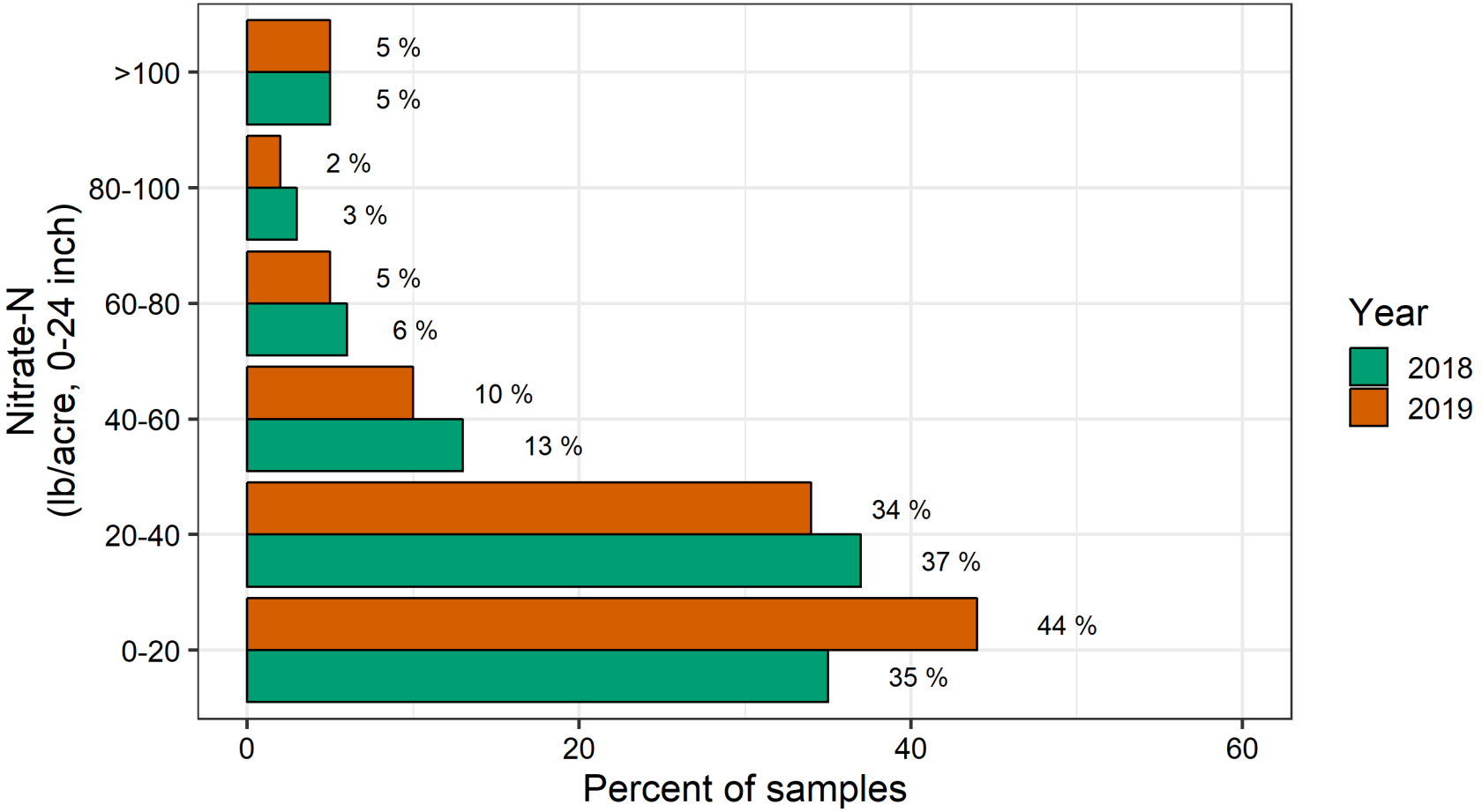
Residual nitrate following barley

Trend from 1986 to 2019



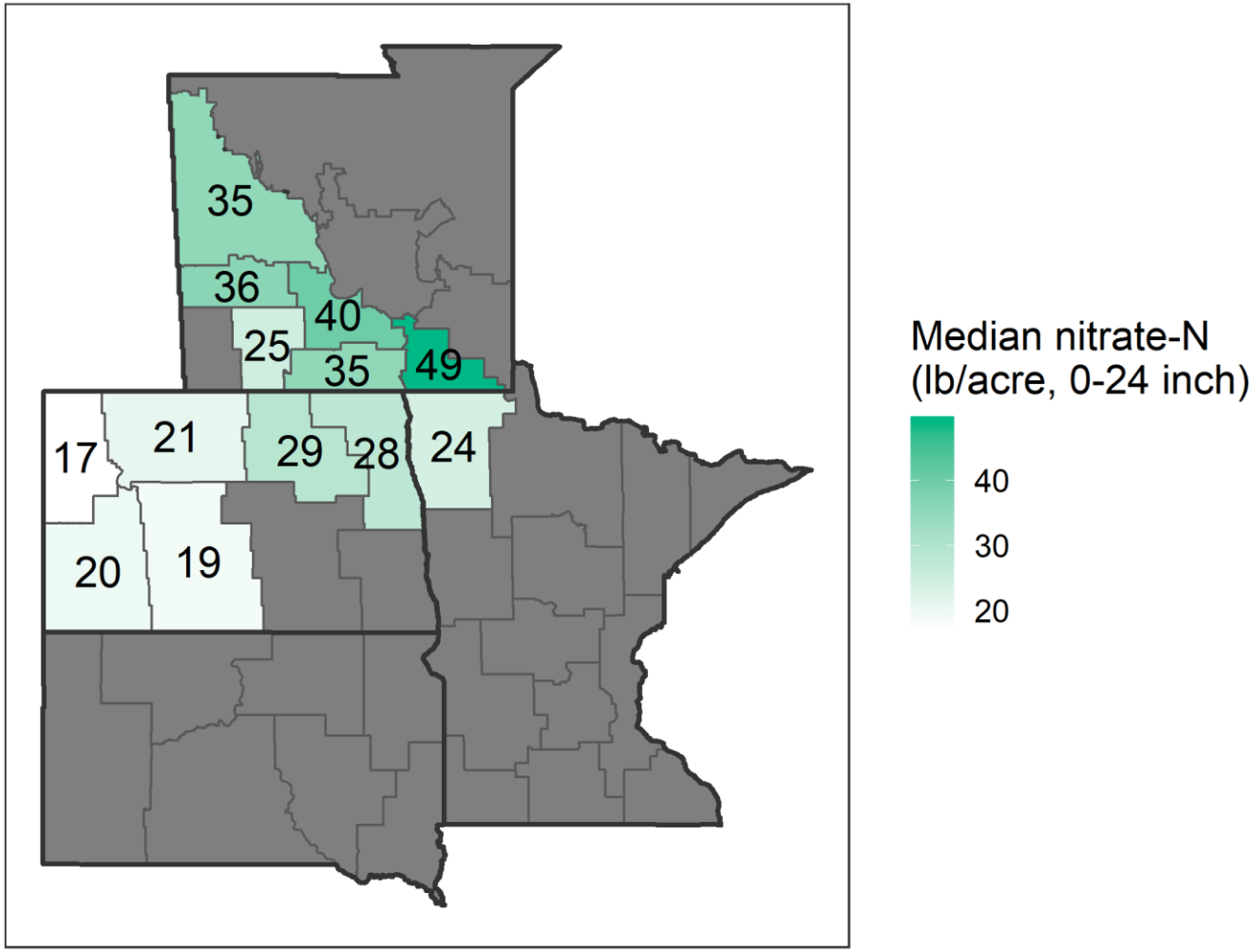
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Variability in residual nitrate following barley in 2018 & 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

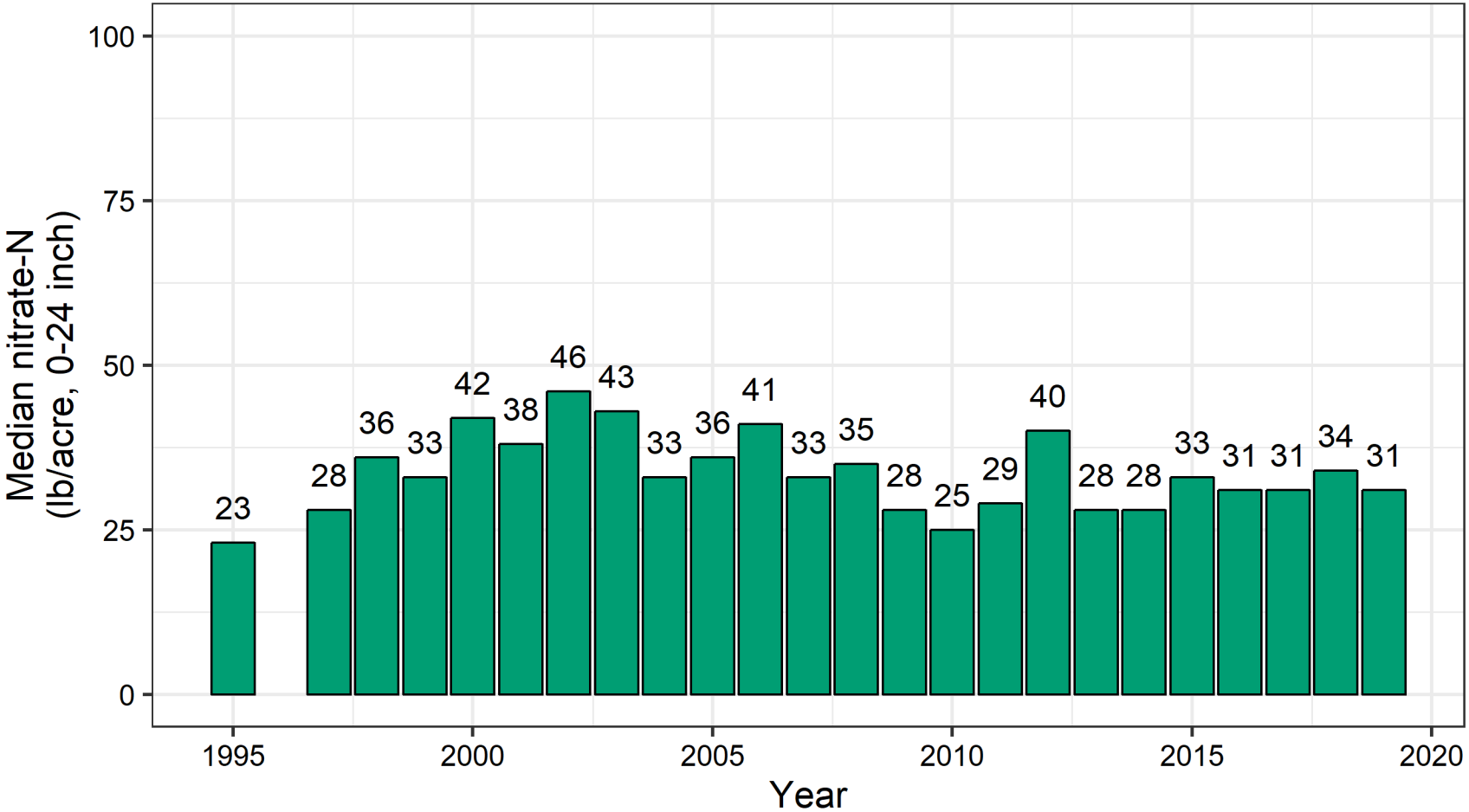
Residual nitrate following canola in 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Residual nitrate following canola

Trend from 1995 to 2019



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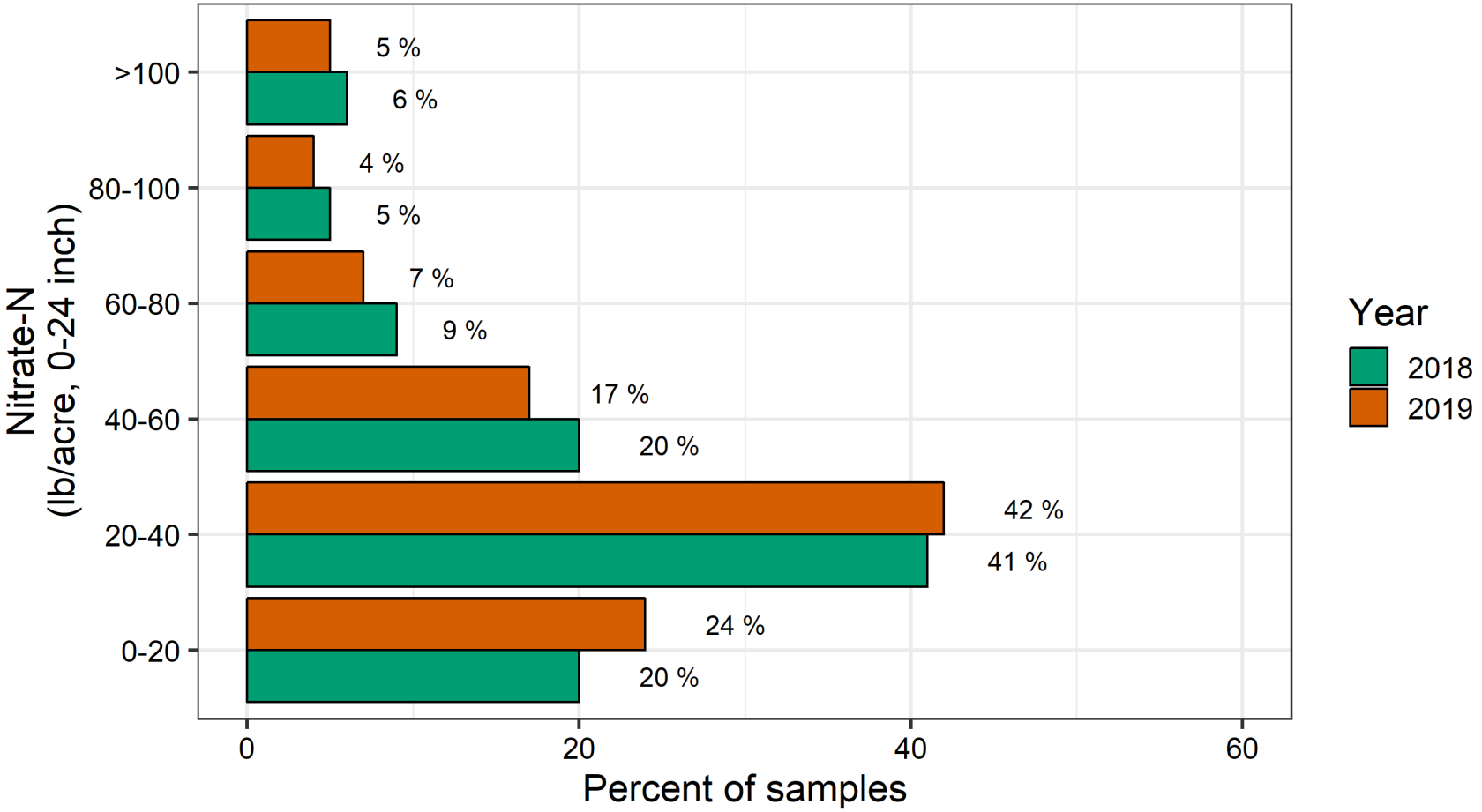
AGVISE Laboratories, Northwood, ND

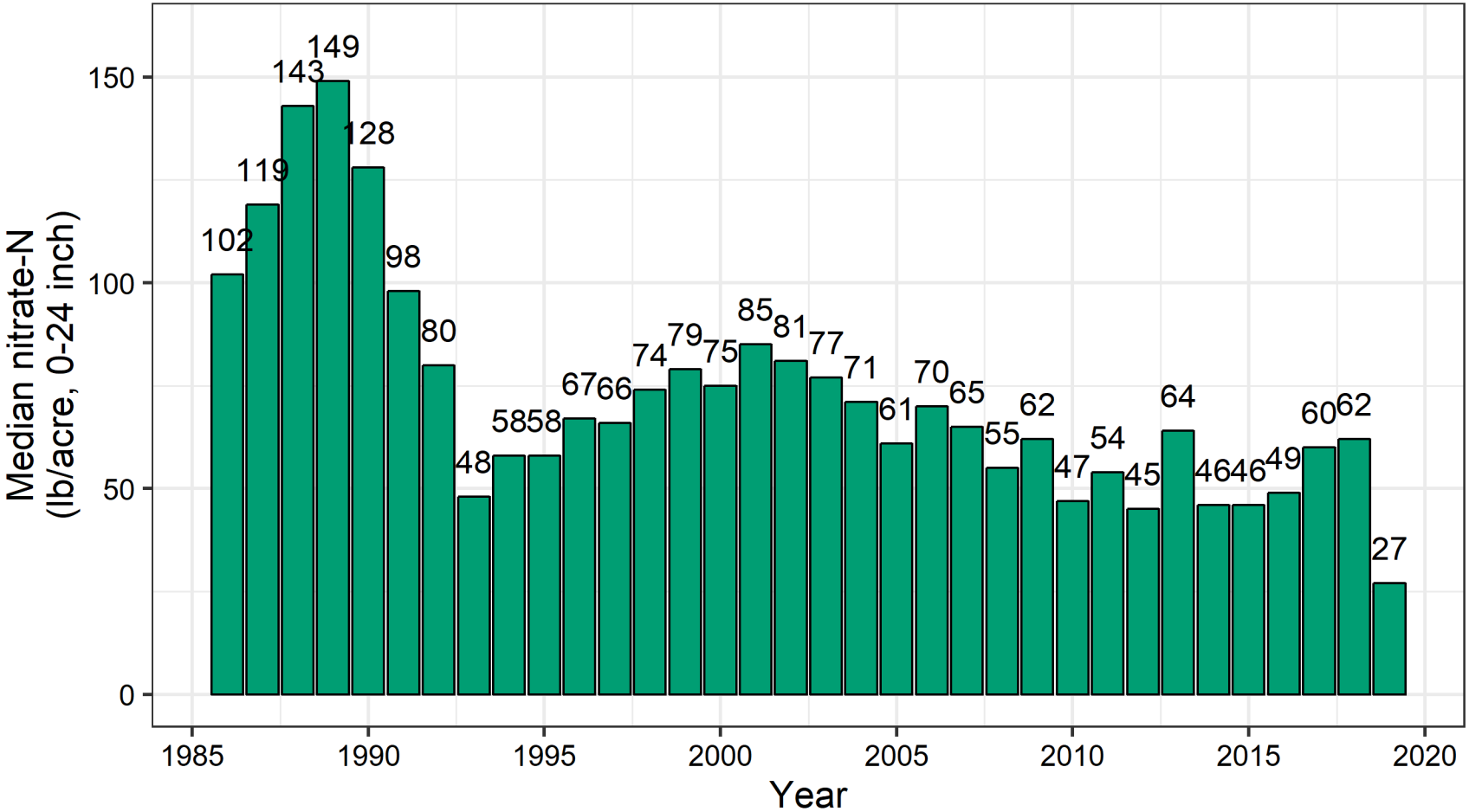
Variability in residual nitrate following canola in 2018 & 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

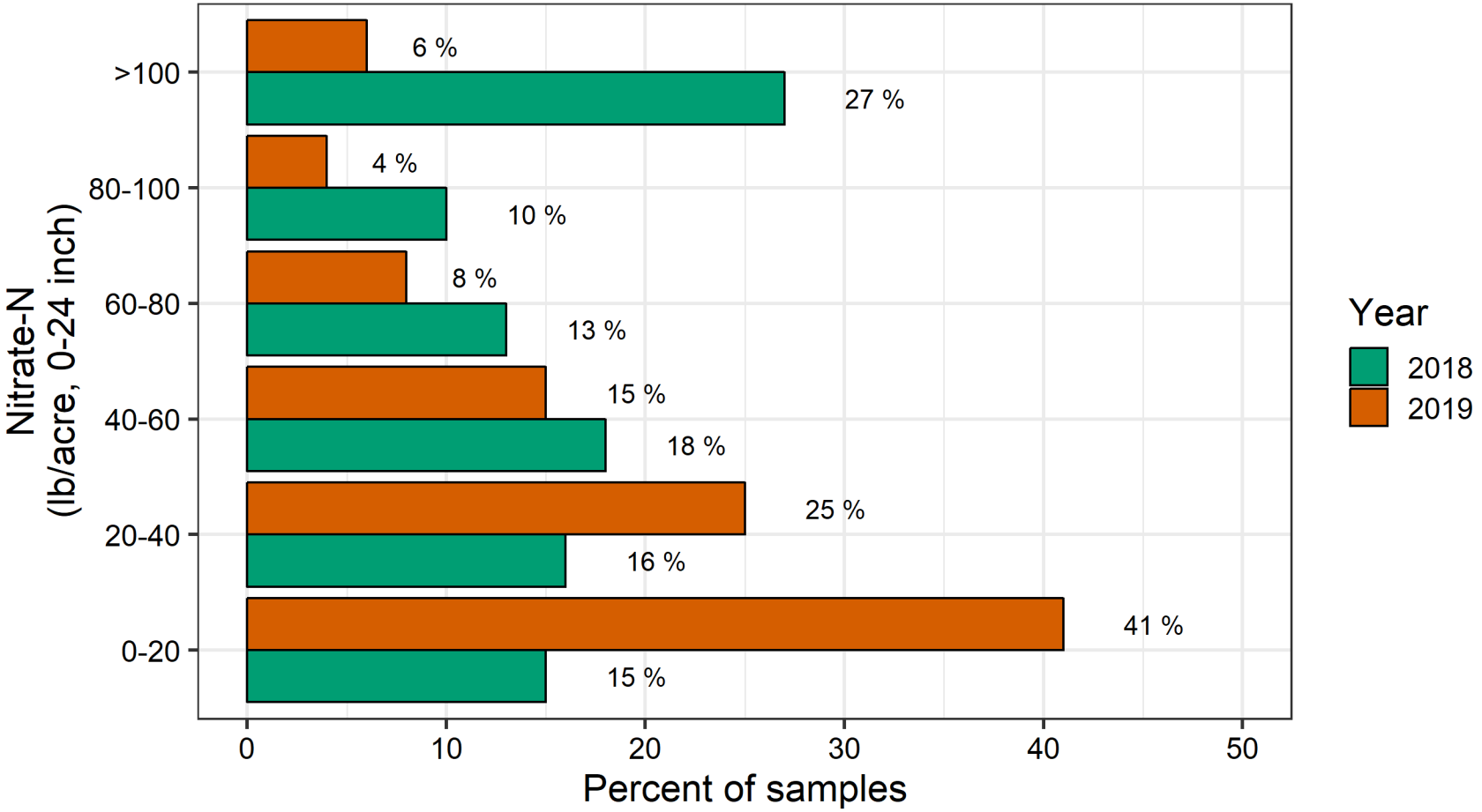
Residual nitrate following fallow

Trend from 1986 to 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

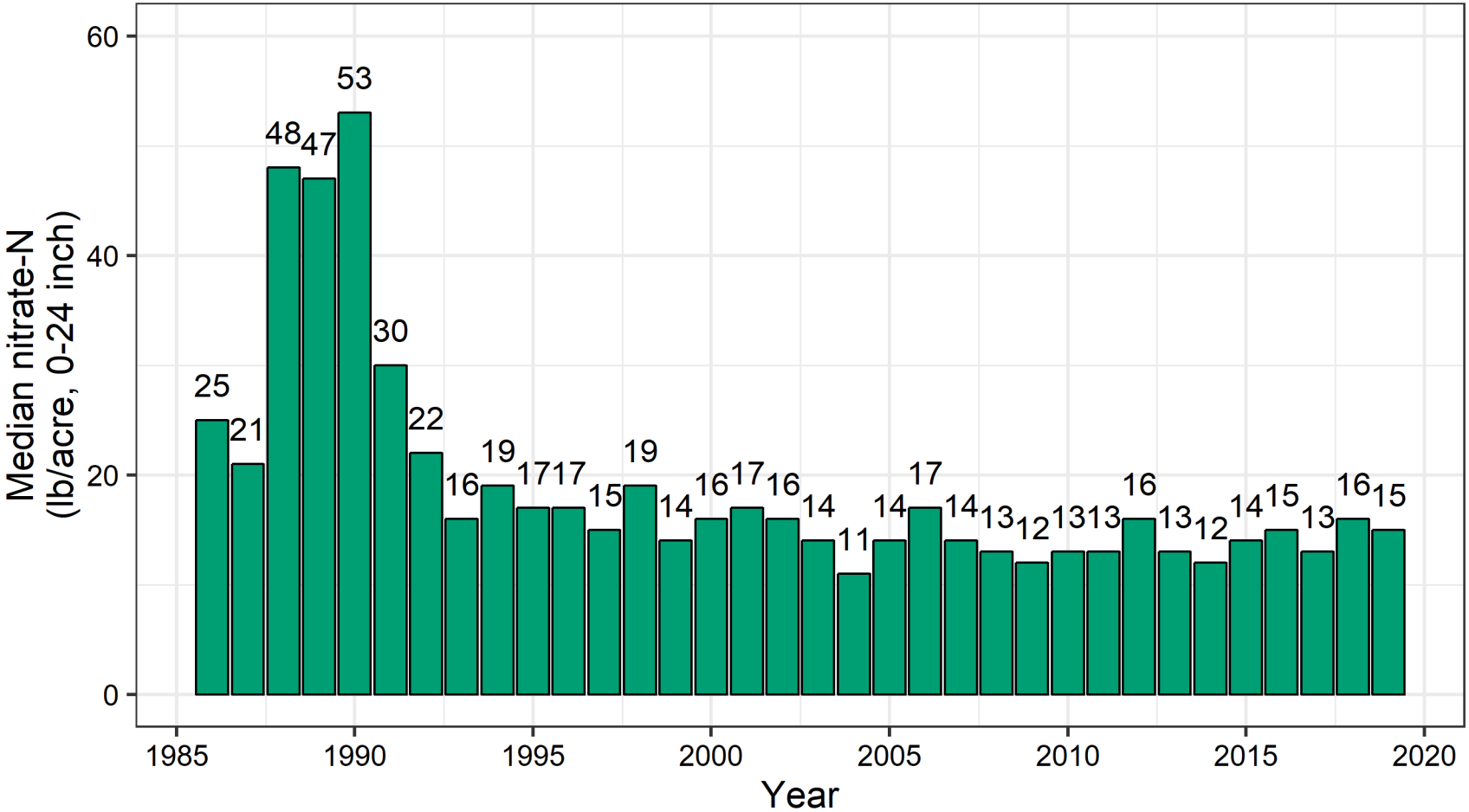
Variability in residual nitrate following fallow in 2018 & 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

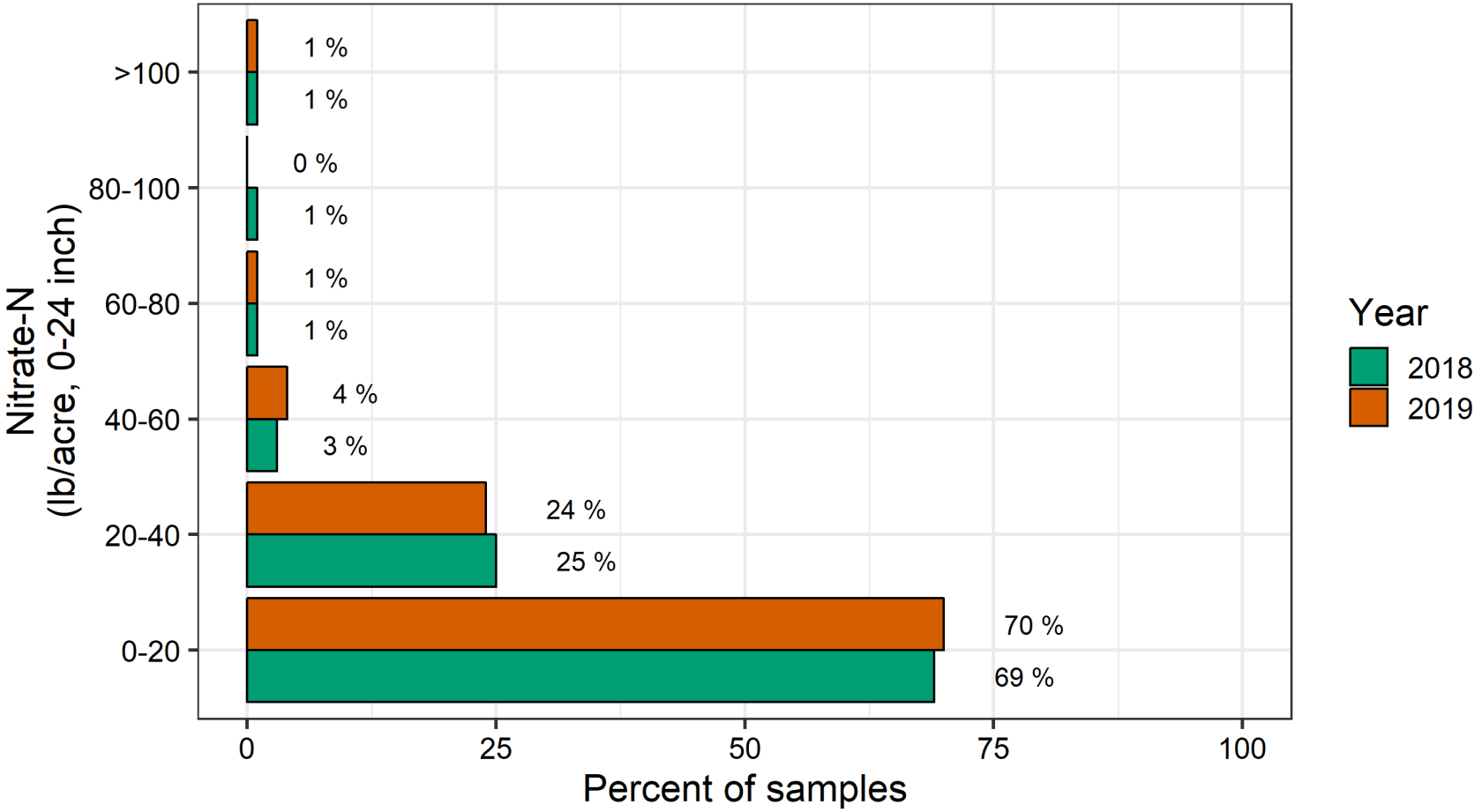
Residual nitrate following sugarbeet

Trend from 1986 to 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

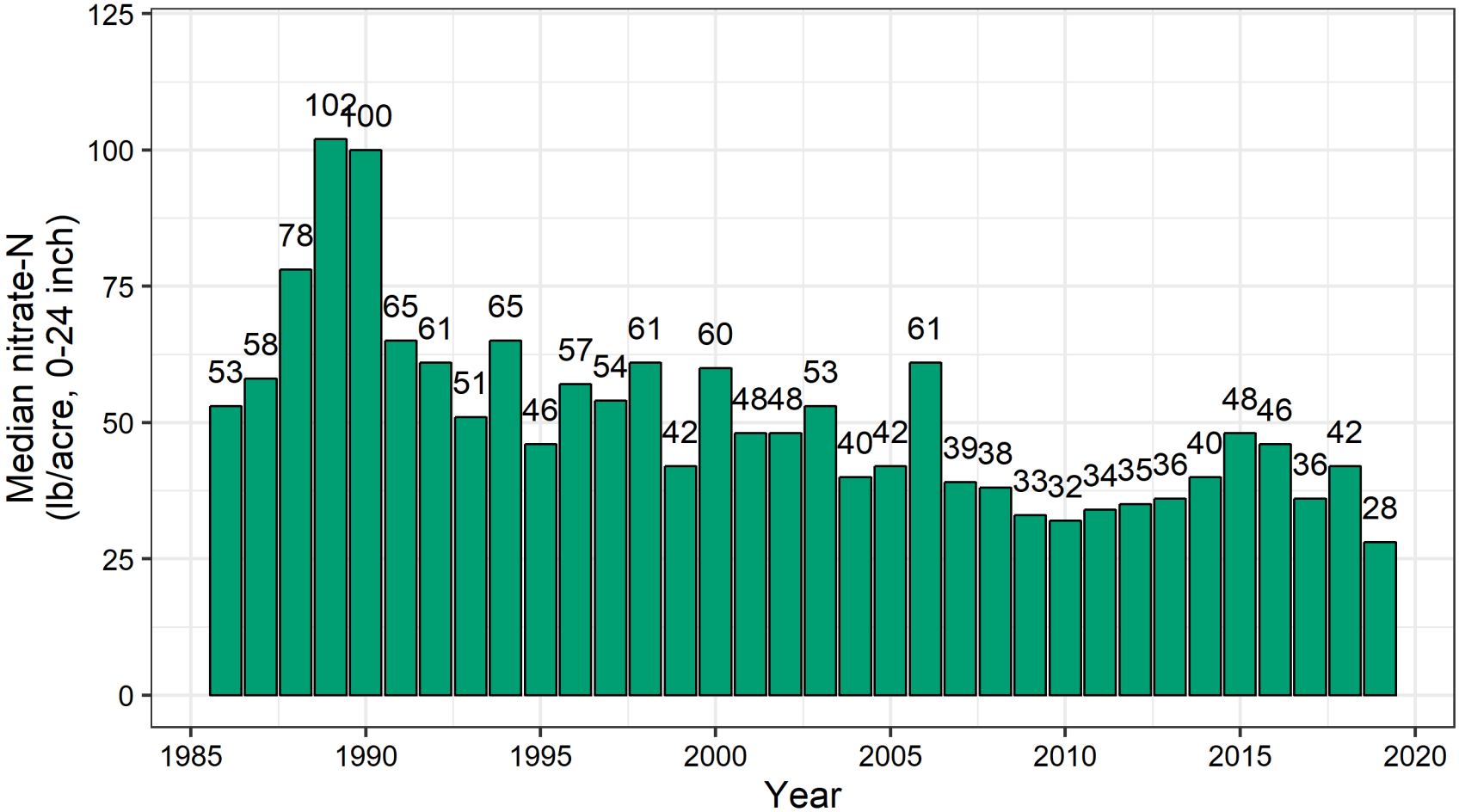
Variability in residual nitrate following sugarbeet in 2018 & 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

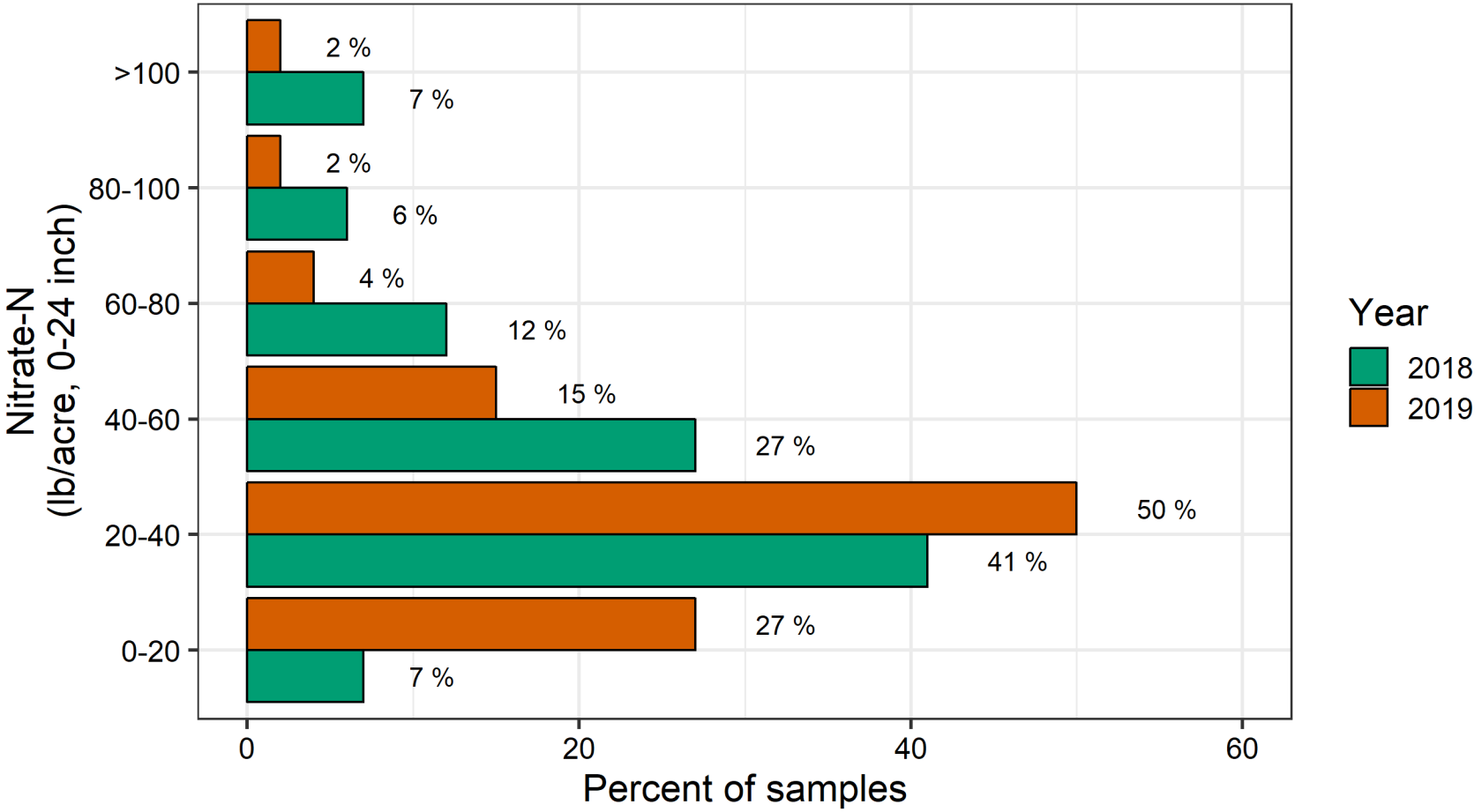
Residual nitrate following dry bean

Trend from 1986 to 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

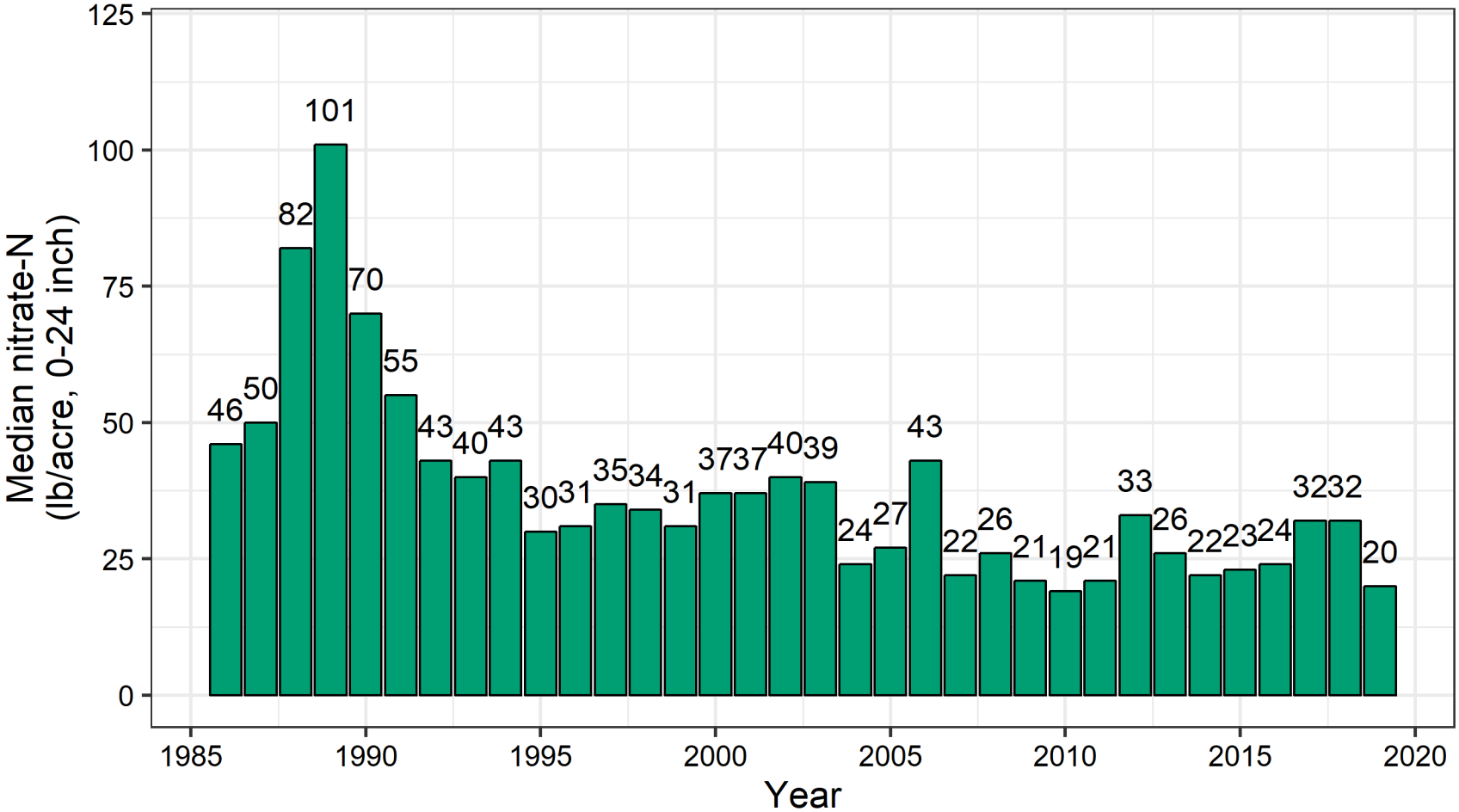
Variability in residual nitrate following dry bean in 2018 & 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

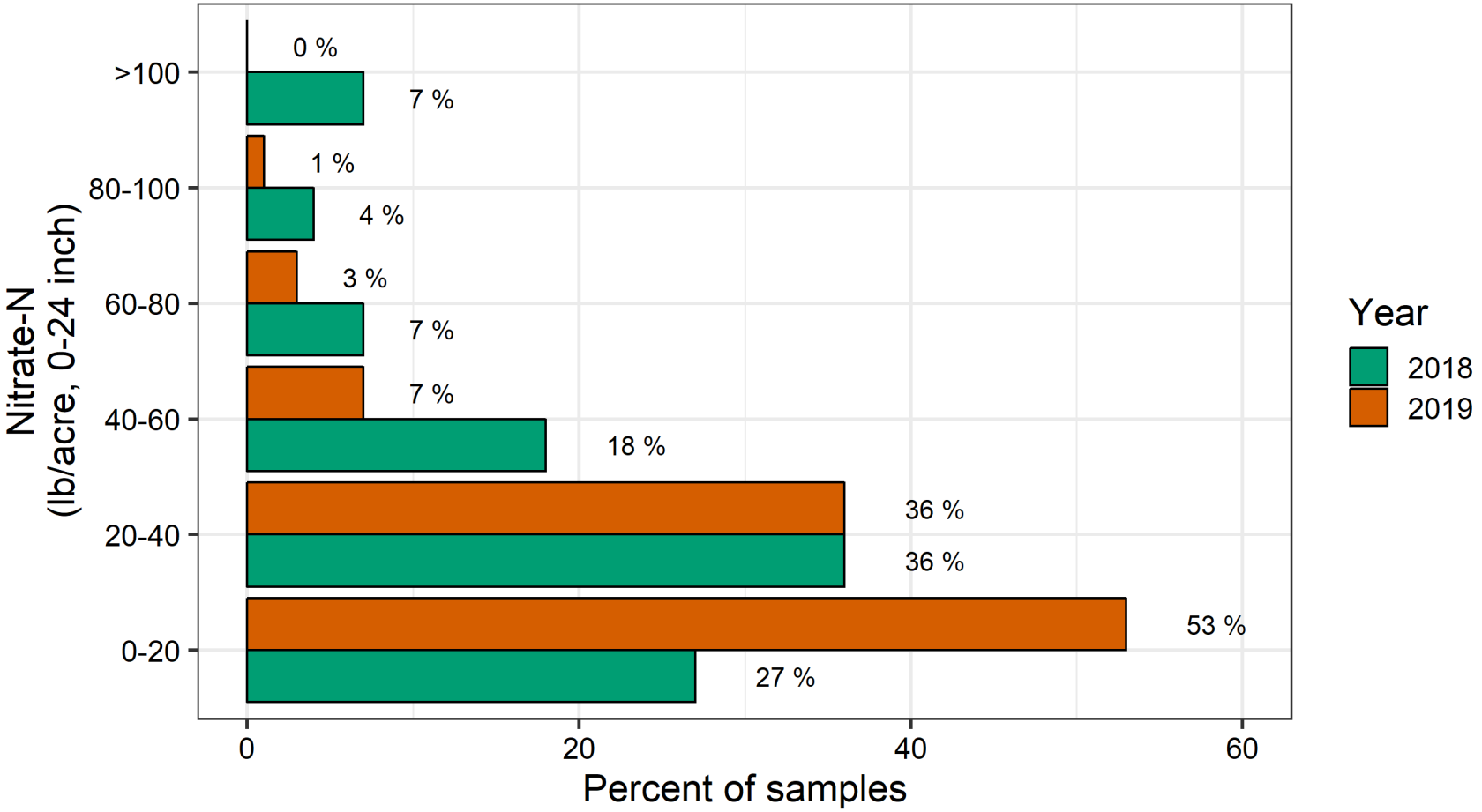
Residual nitrate following sunflower

Trend from 1986 to 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Variability in residual nitrate following sunflower in 2018 & 2019



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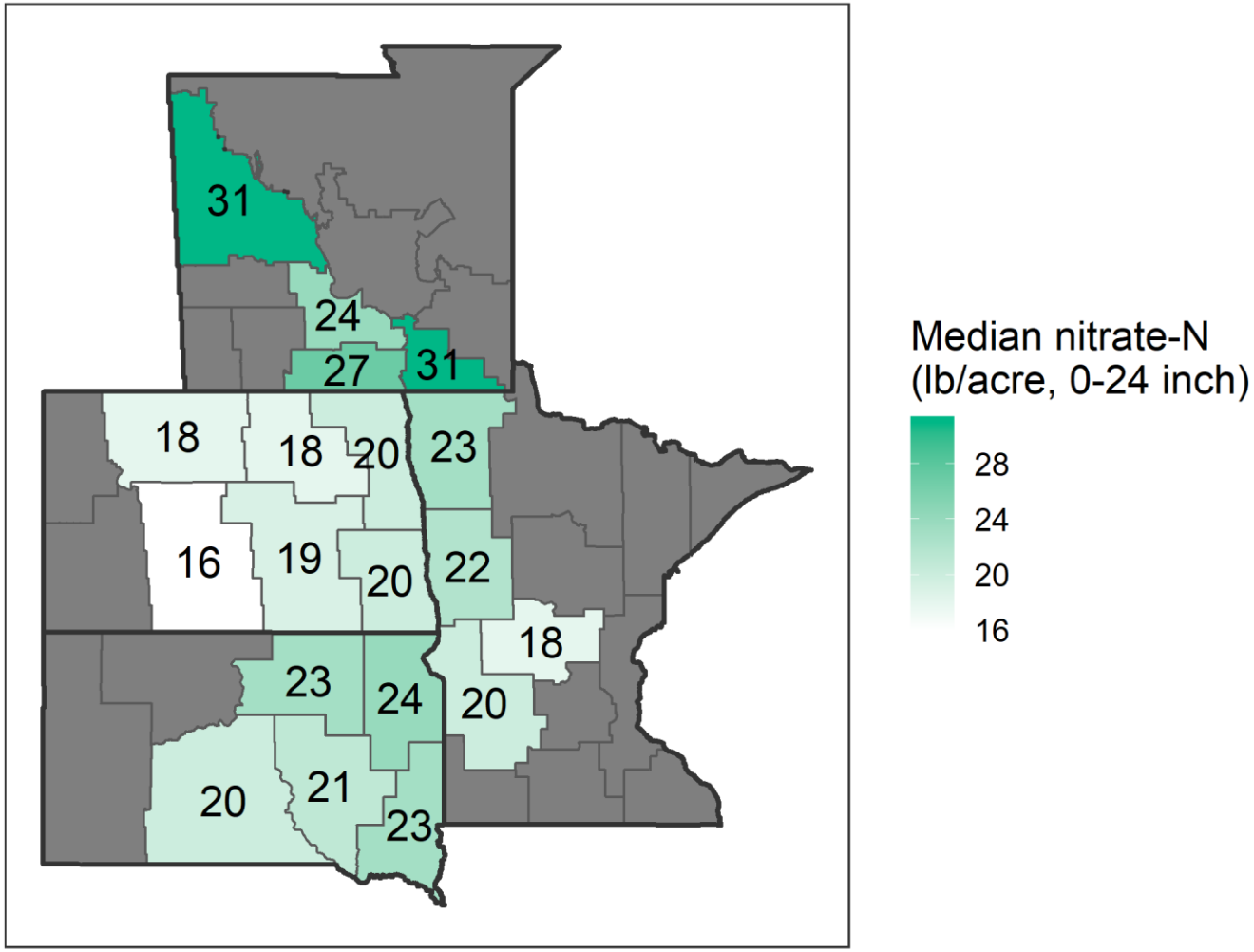
AGVISE Laboratories, Northwood, ND

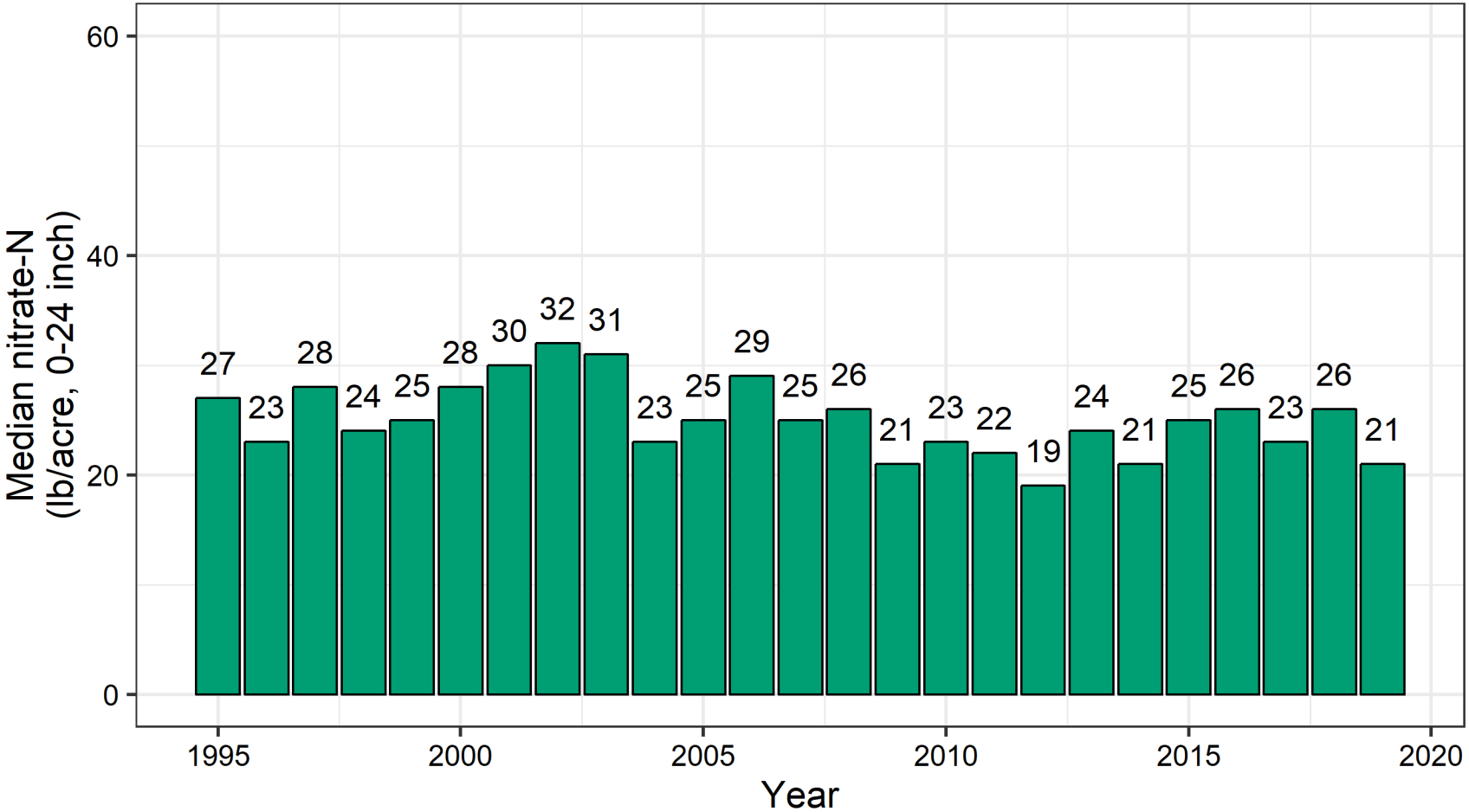
Residual nitrate following soybean in 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

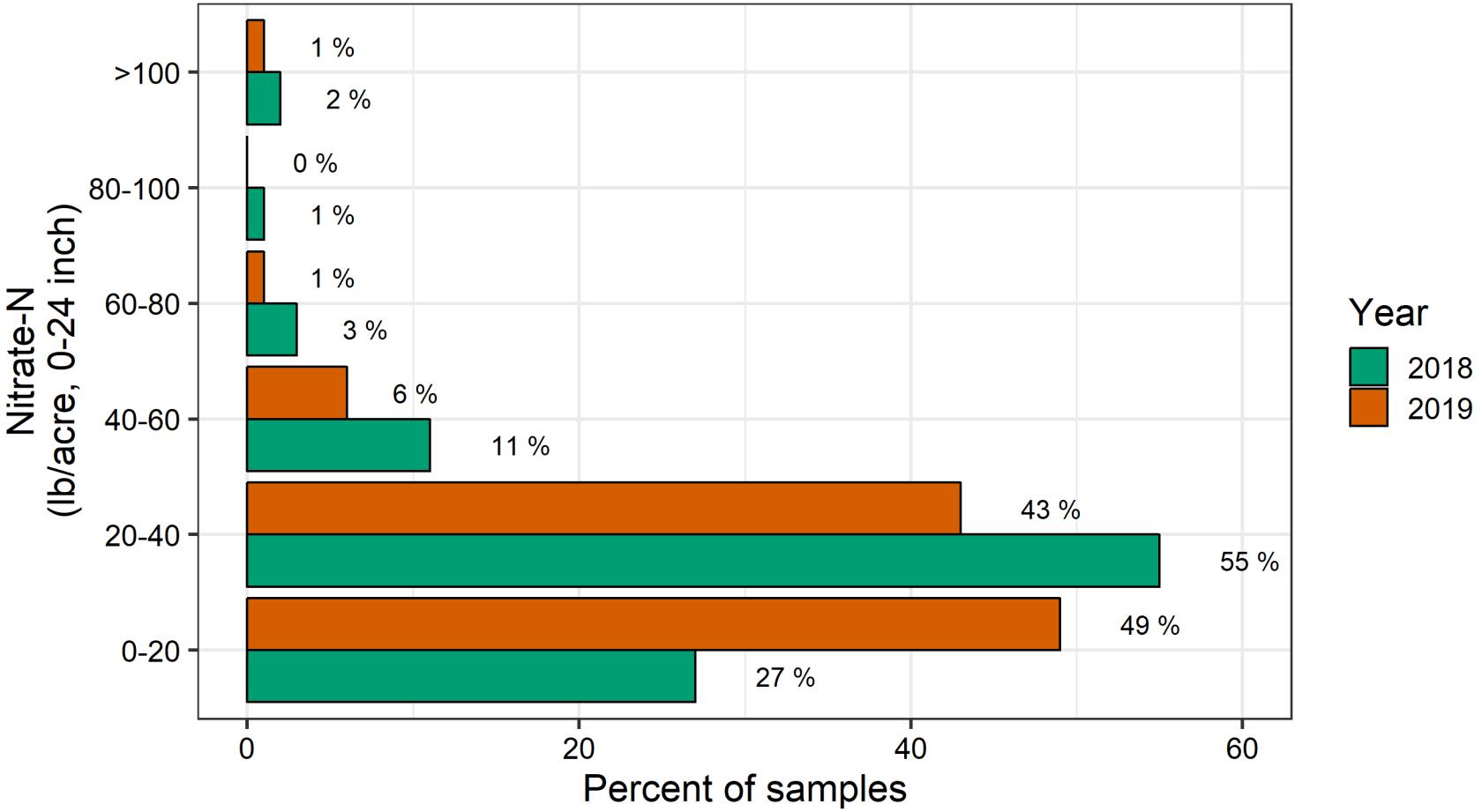
Residual nitrate following soybean

Trend from 1995 to 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Variability in residual nitrate following soybean in 2018 & 2019



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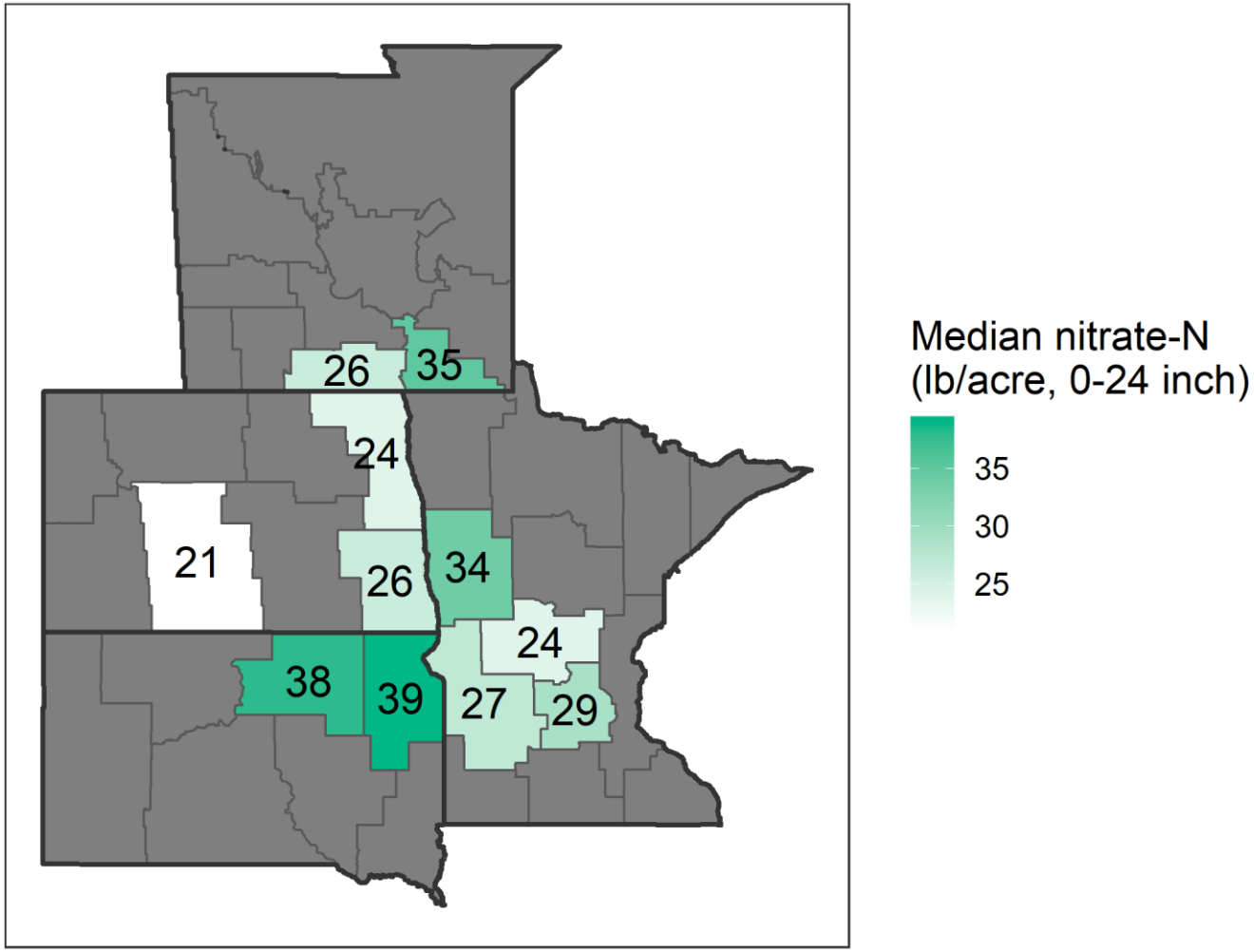
AGVISE Laboratories, Northwood, ND

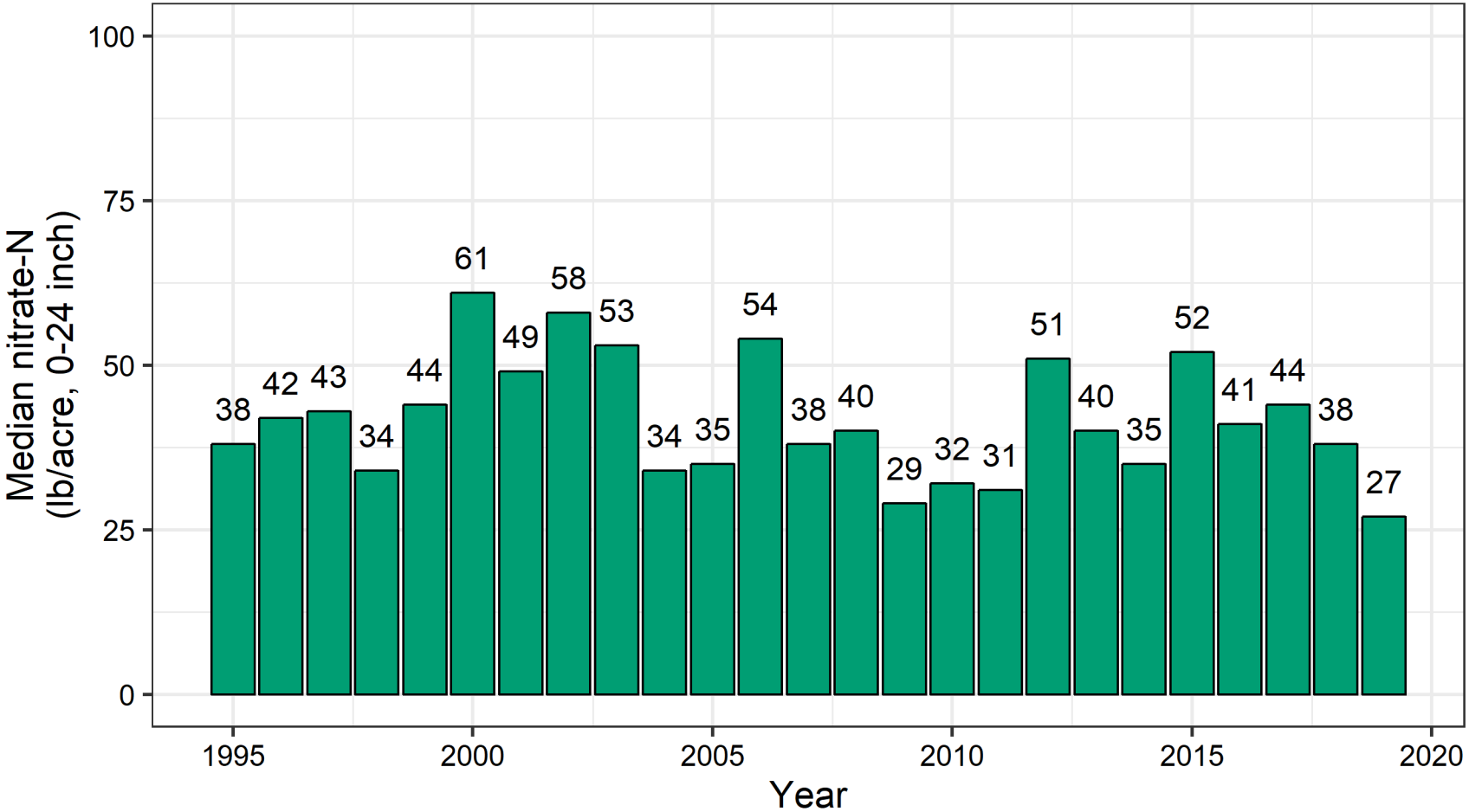
Residual nitrate following corn in 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Residual nitrate following corn

Trend from 1995 to 2019



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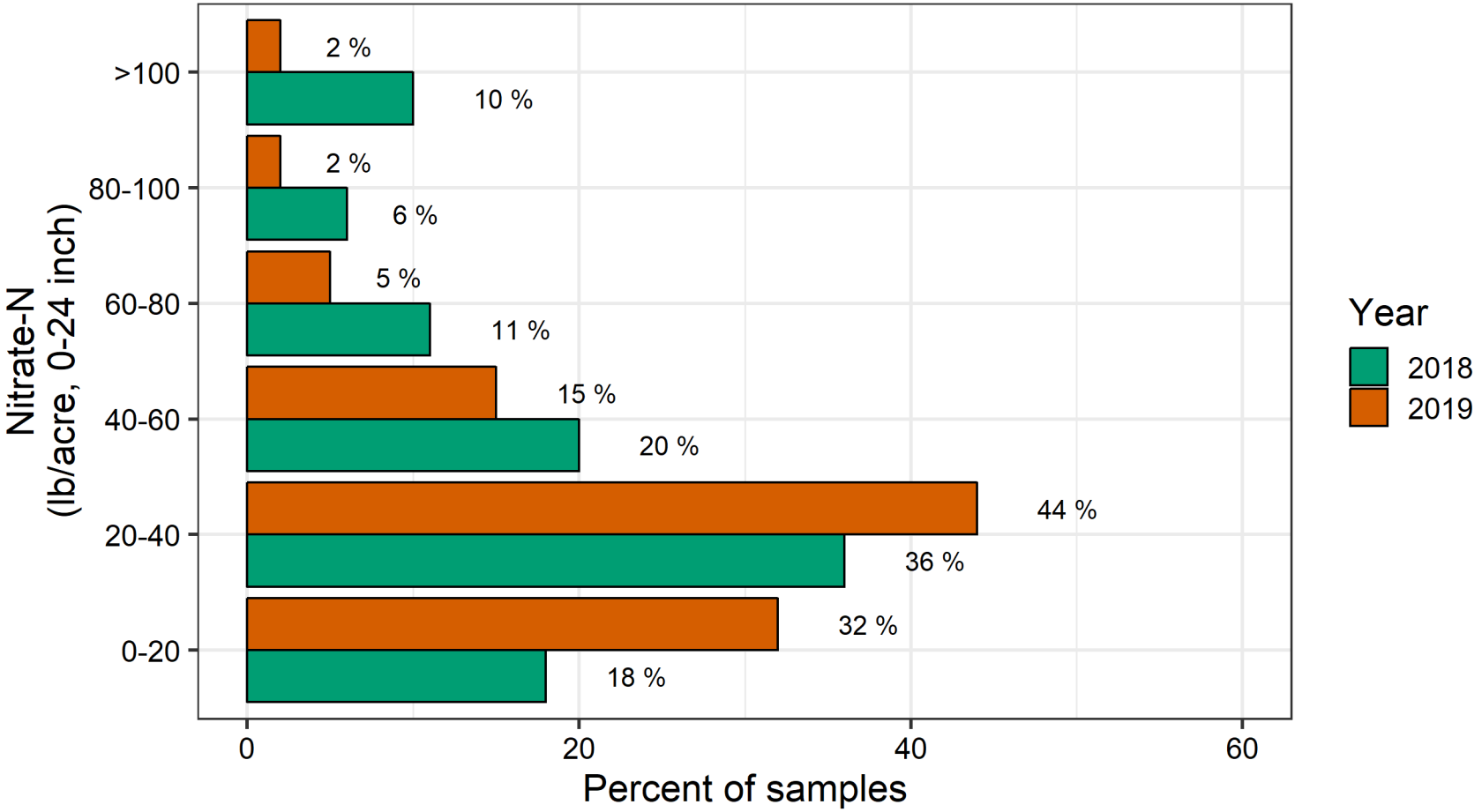
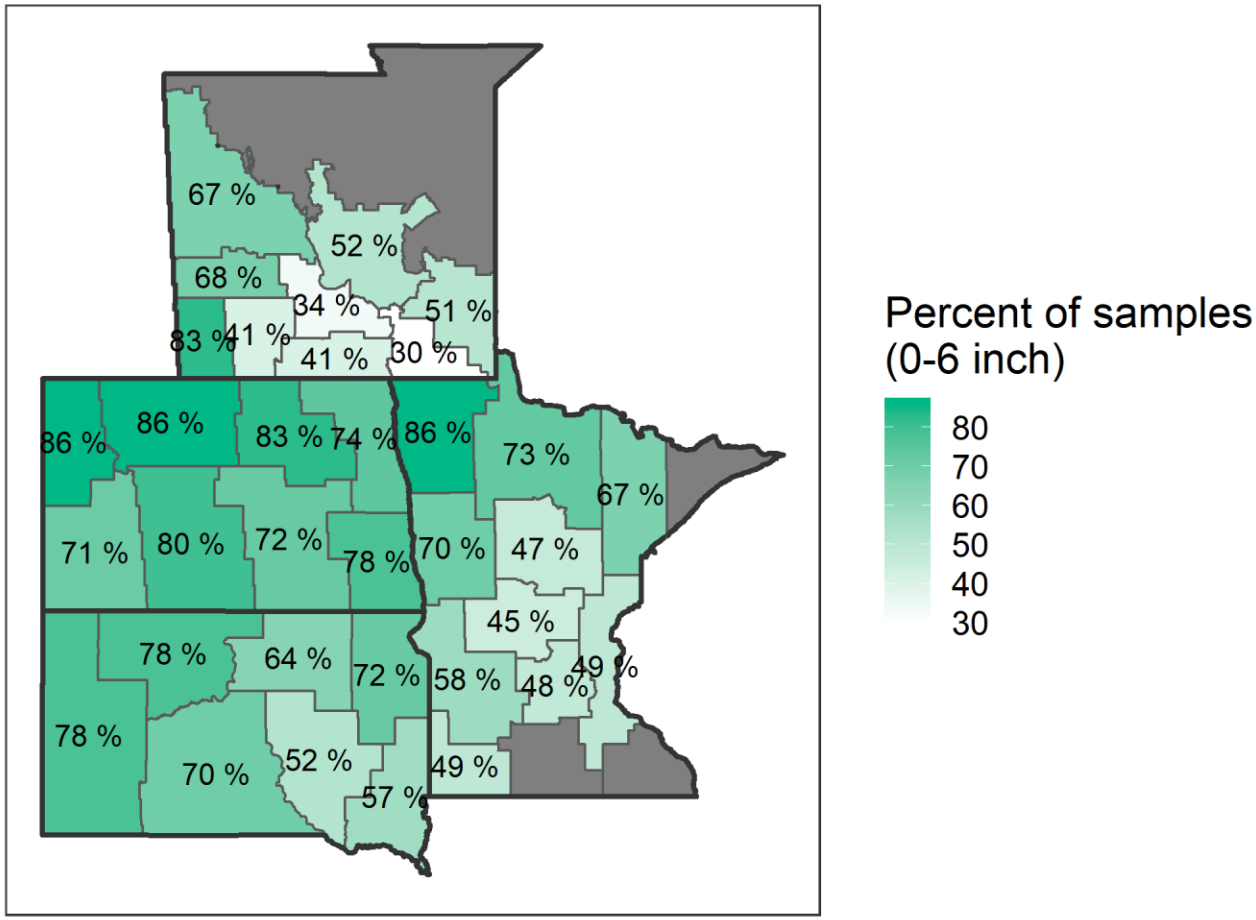
AGVISE Laboratories, Northwood, ND

Variability in residual nitrate following corn in 2018 & 2019



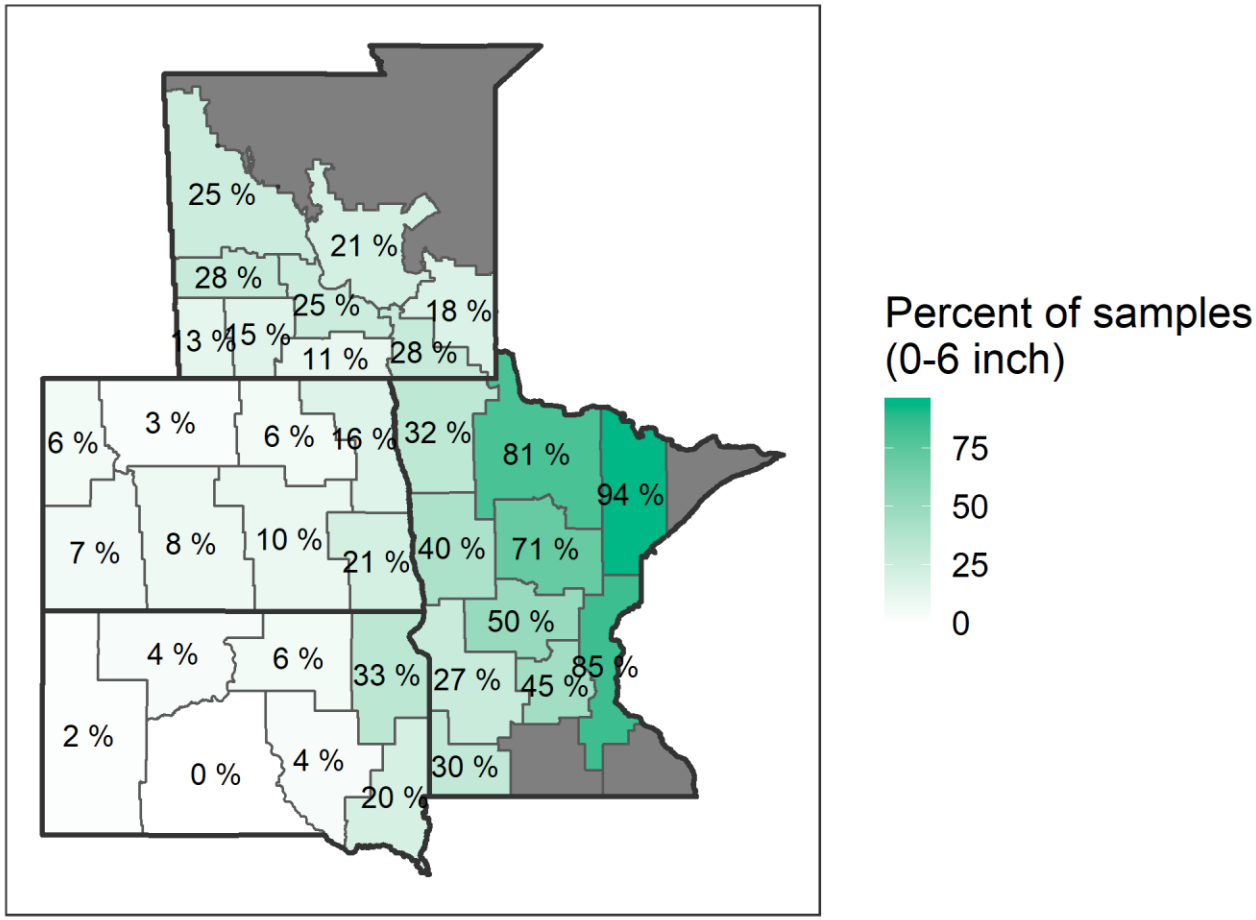
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil test phosphorus below 15 ppm (Olsen P) in 2019



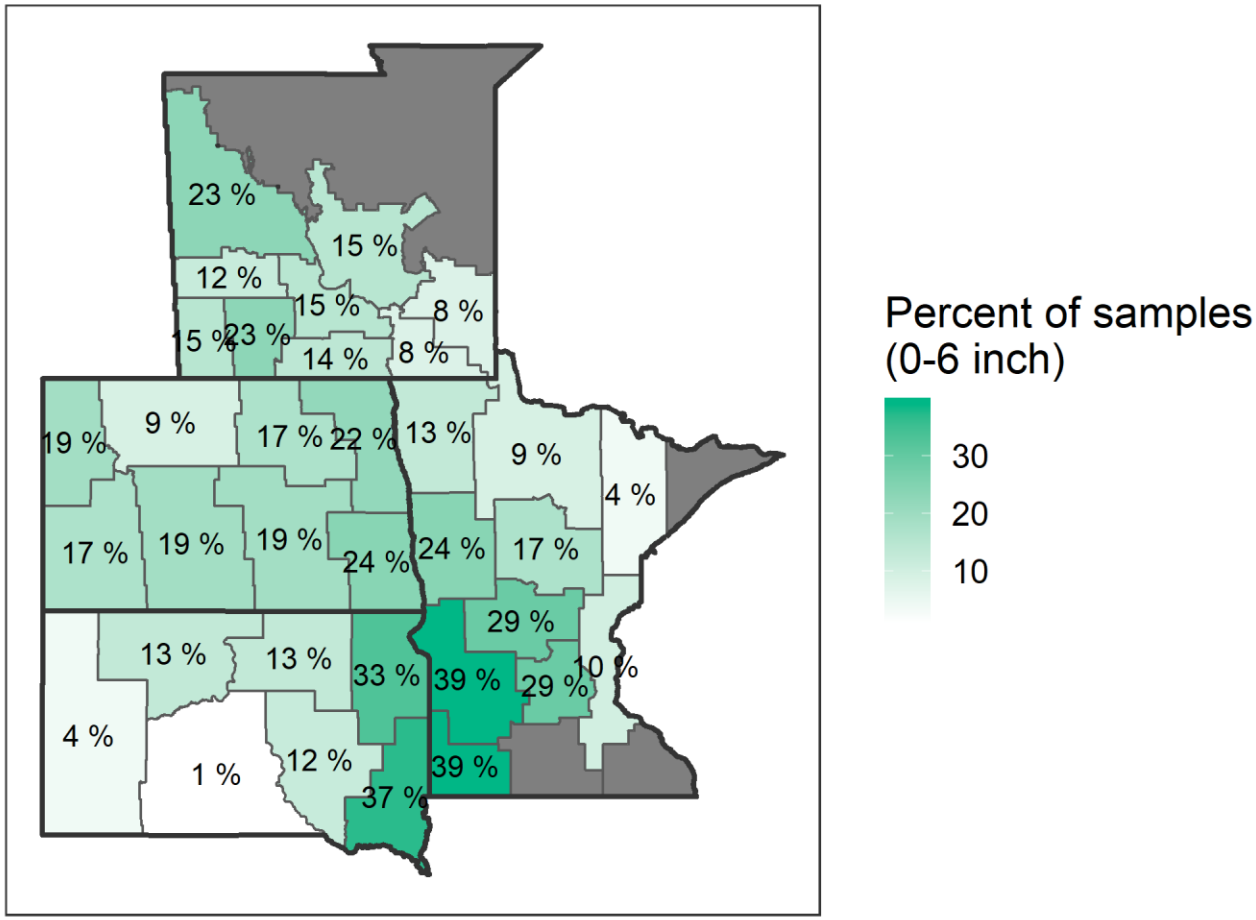
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil test potassium below 150 ppm in 2019



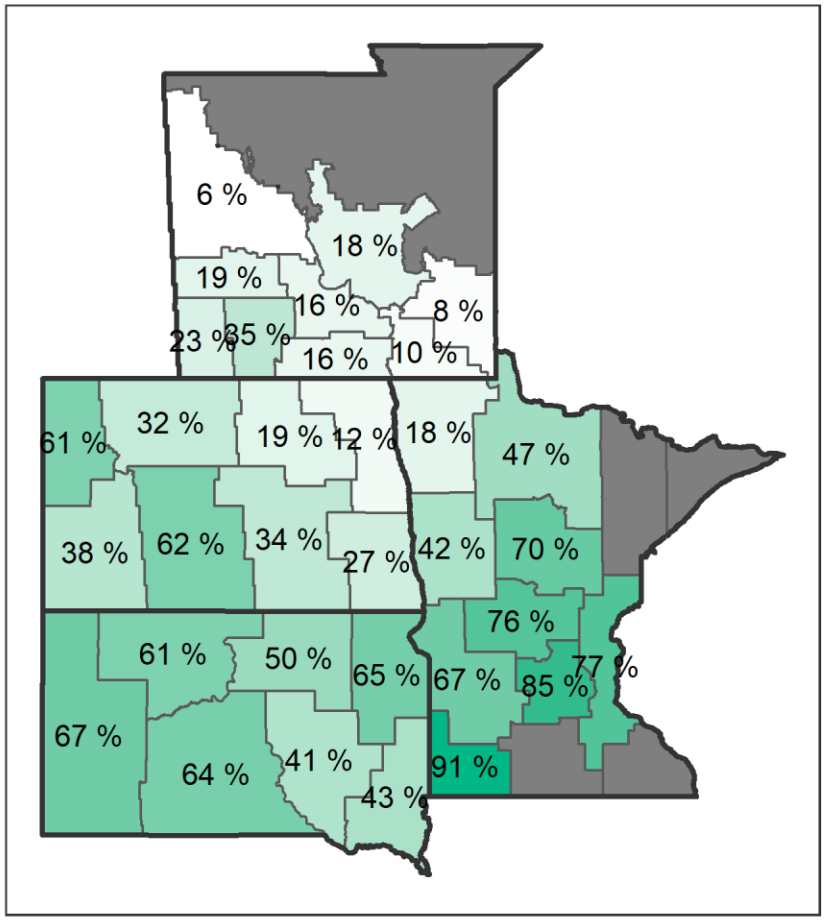
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil test potassium between 150 and 200 ppm in 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil test sulfur below 15 lb/acre in 2019



Percent of samples (0-6 inch)

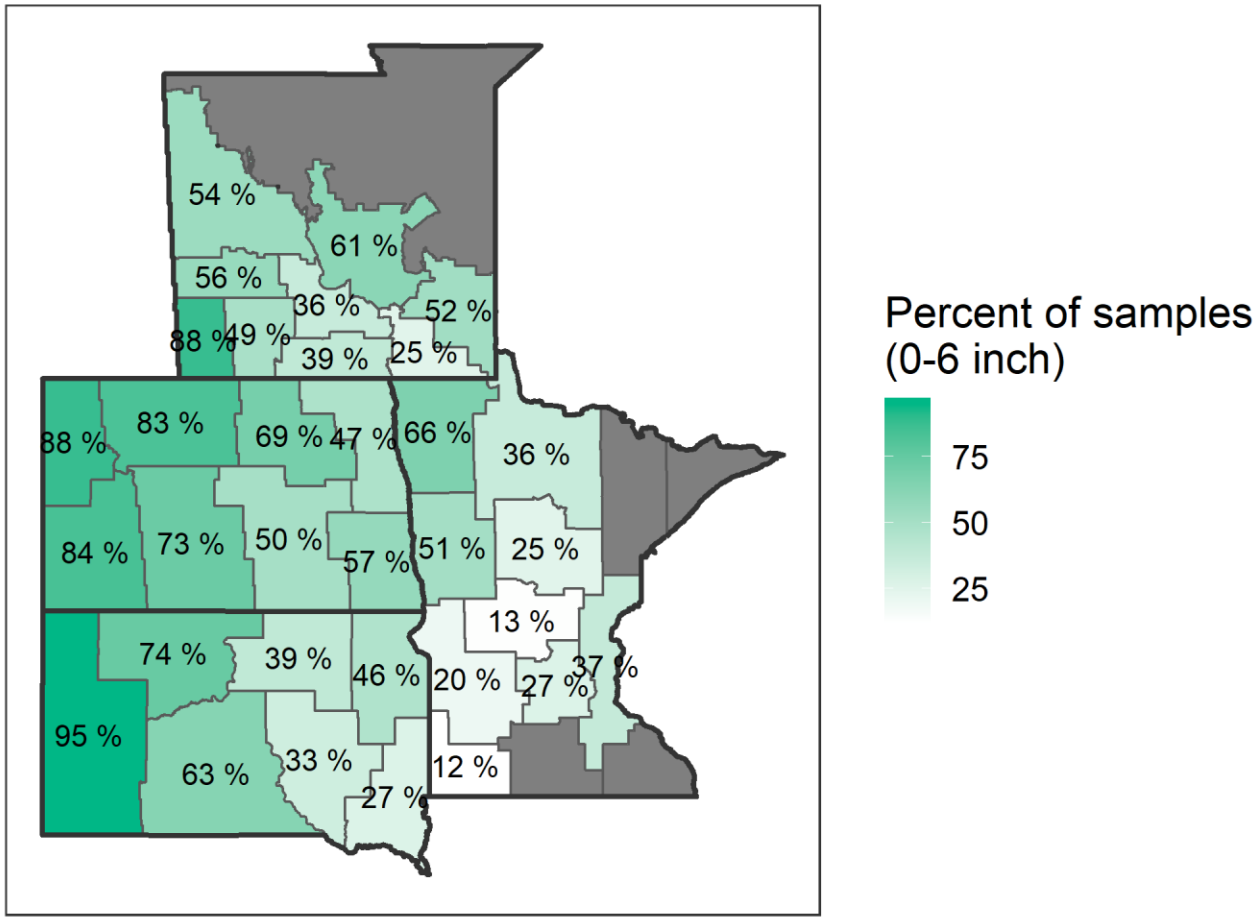
75

50

25

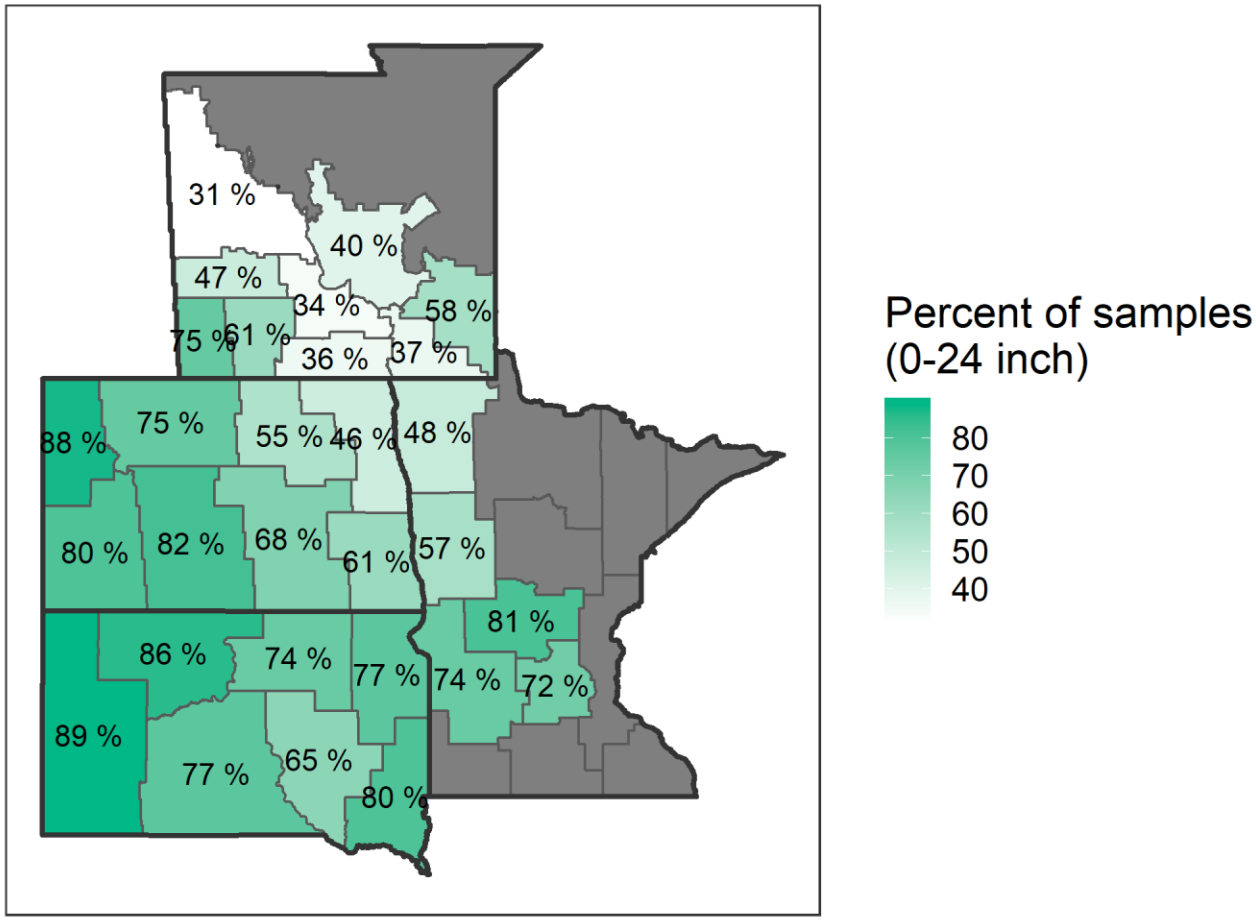
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil test zinc below 1.0 ppm in 2019



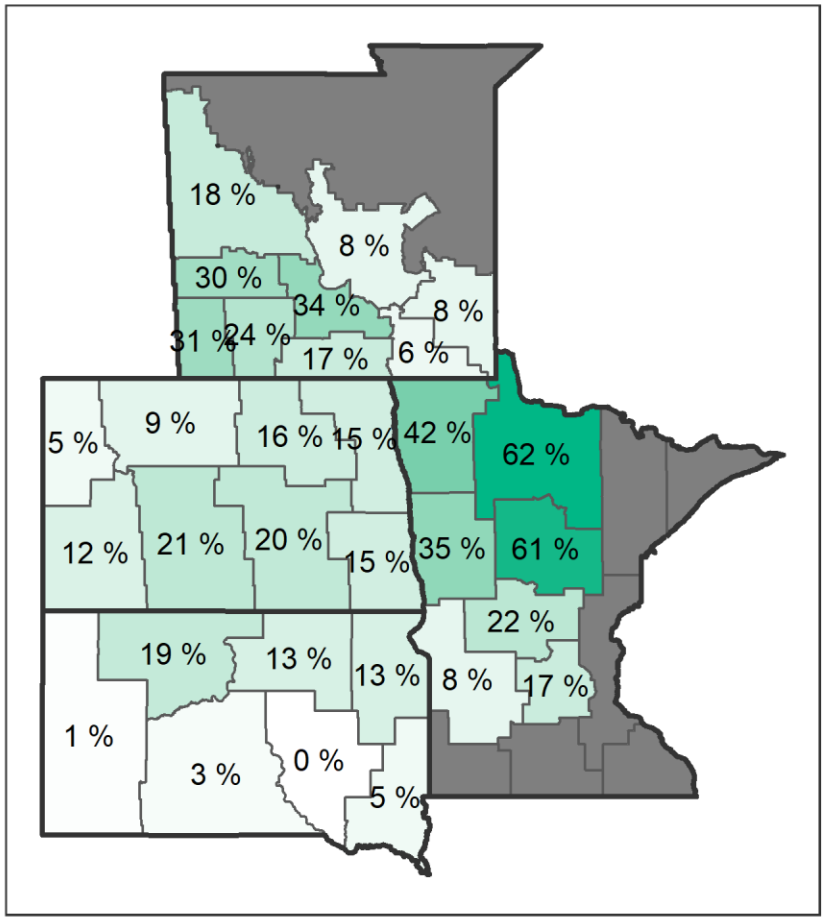
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil test chloride below 40 lb/acre in 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil test copper below 0.5 ppm in 2019

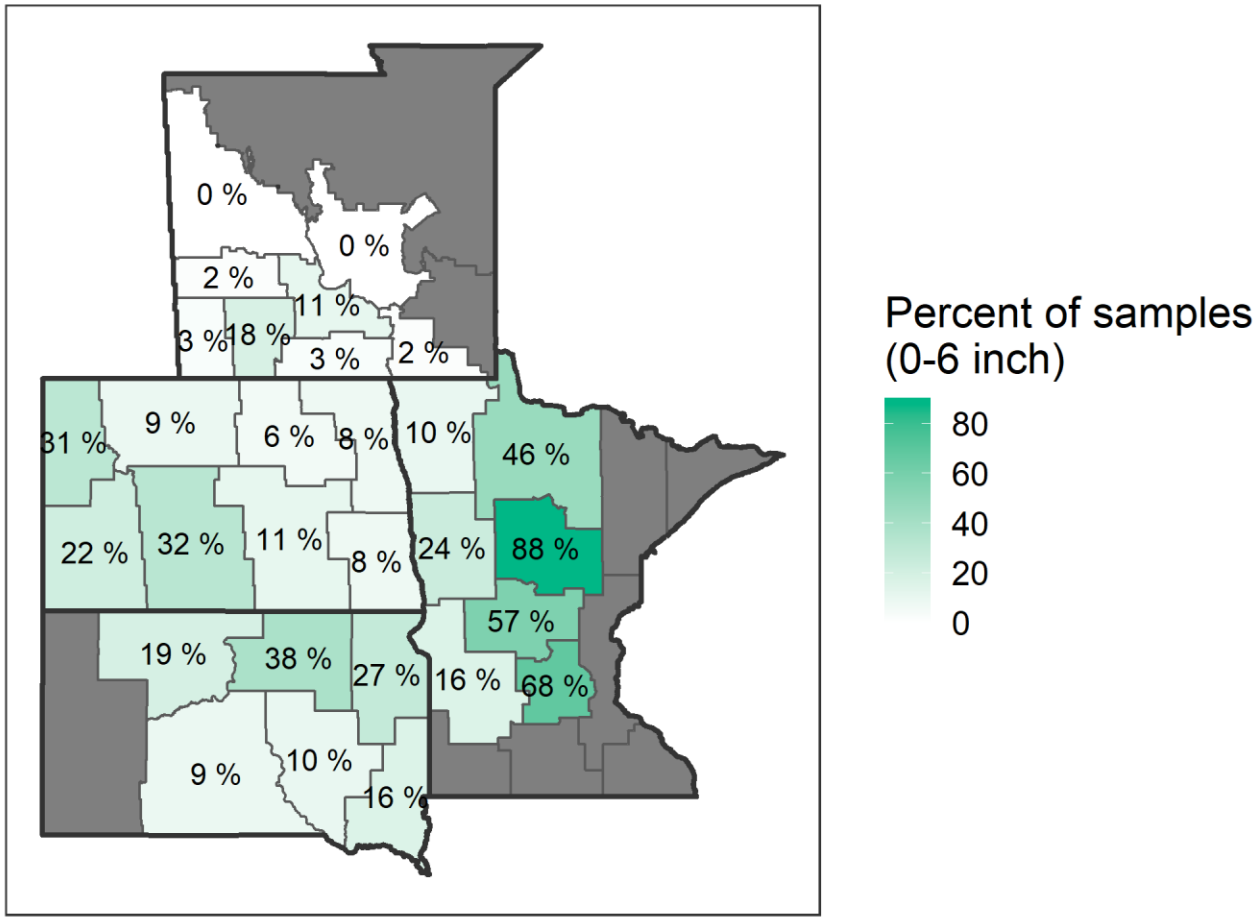


Percent of samples (0-6 inch)

60
40
20
0

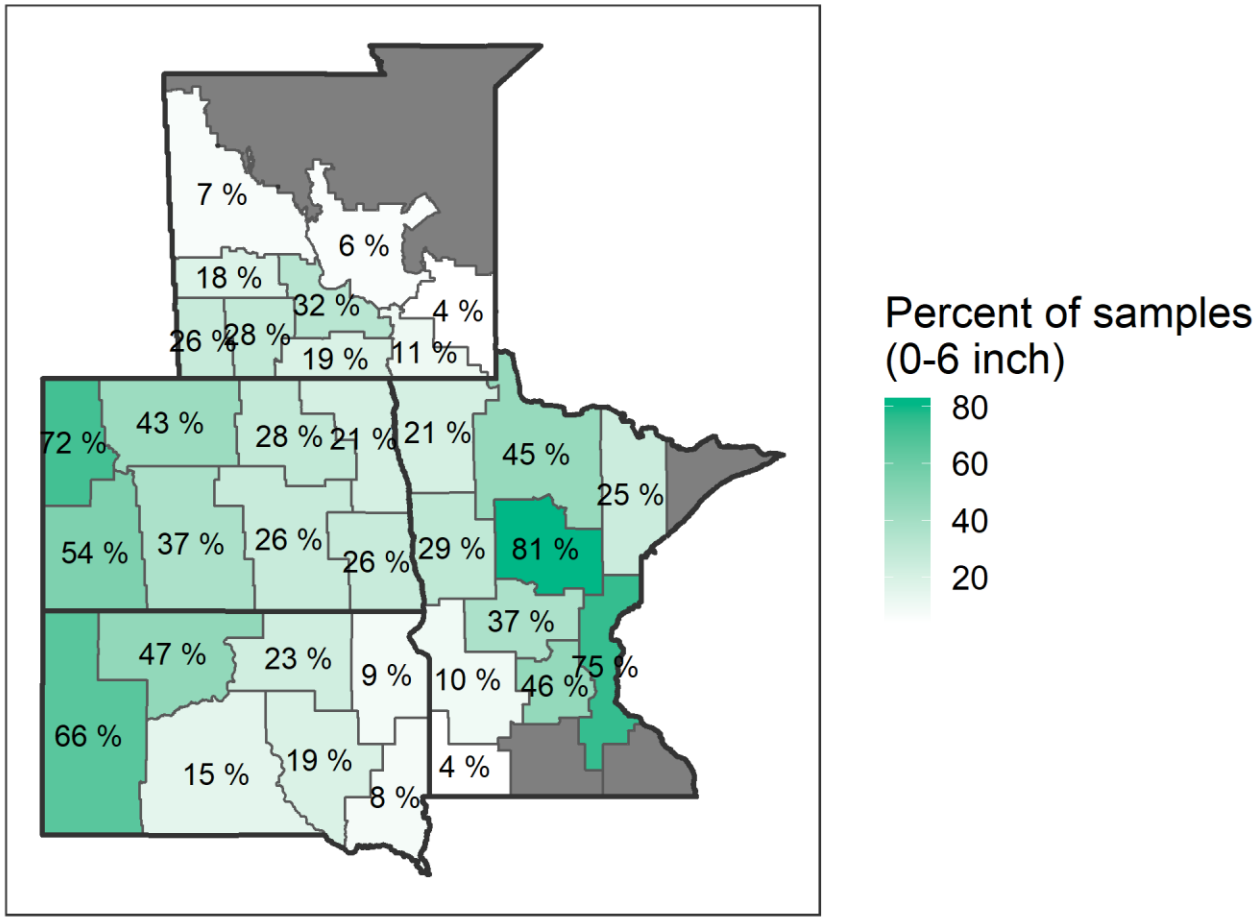
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil test boron below 0.4 ppm in 2019



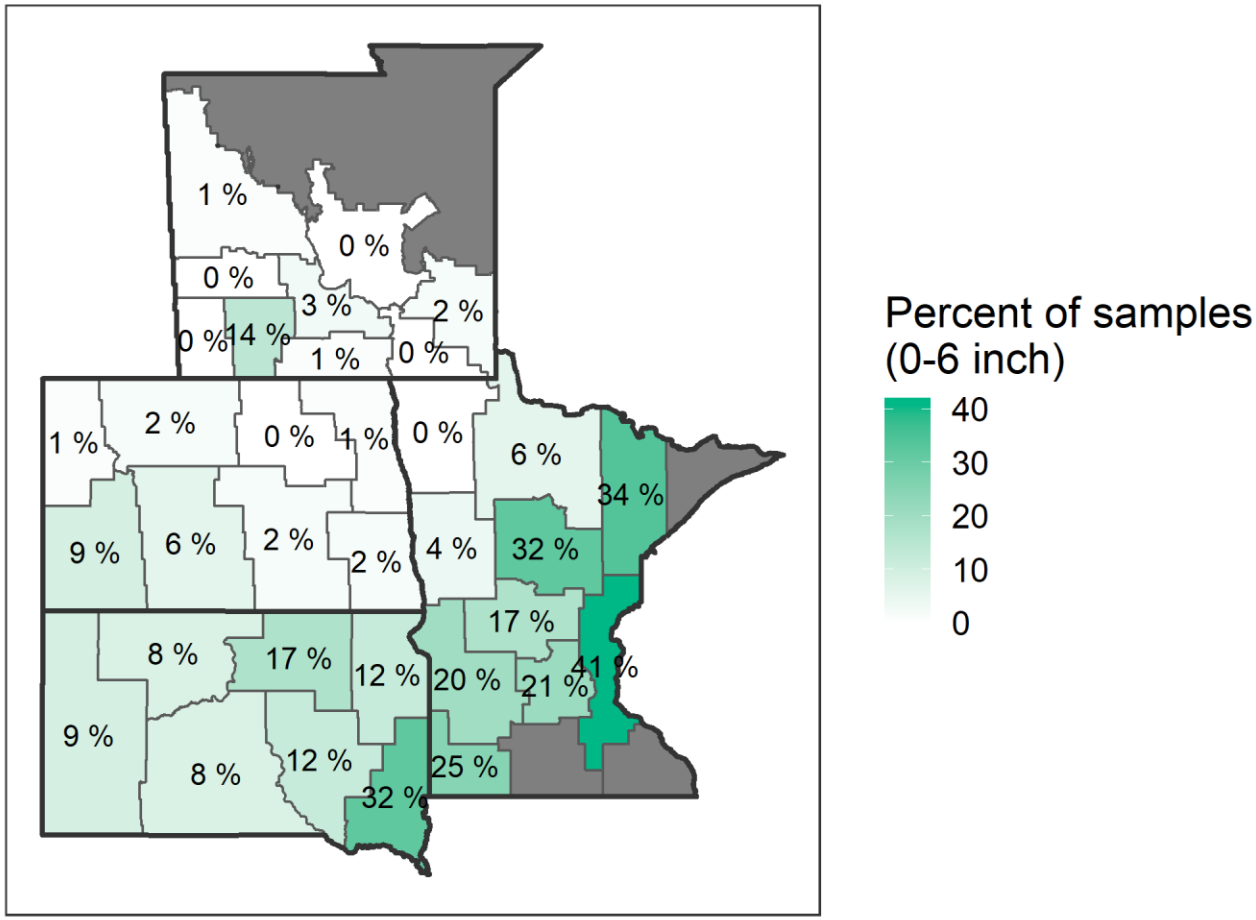
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil organic matter below 3% in 2019



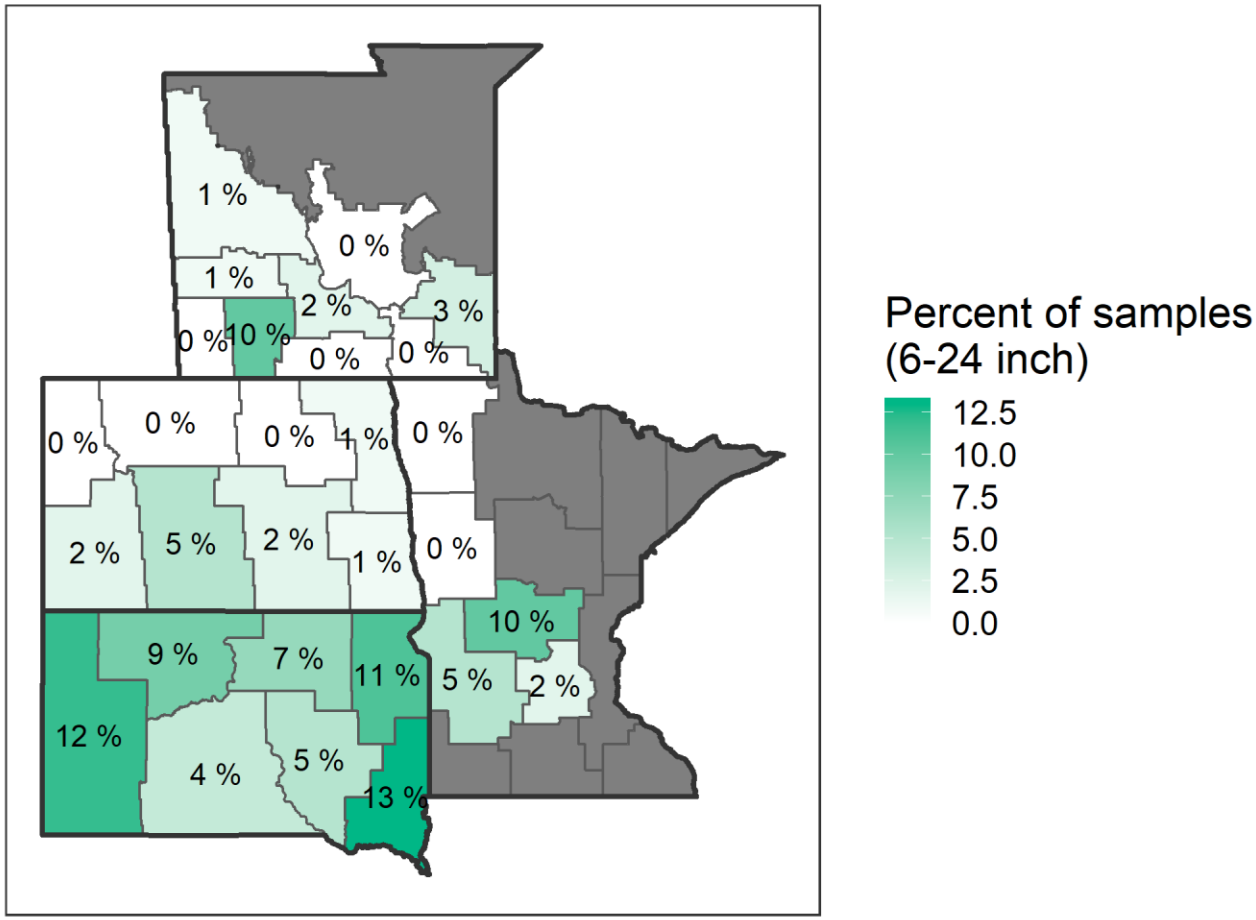
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil pH below 6.0 in 2019



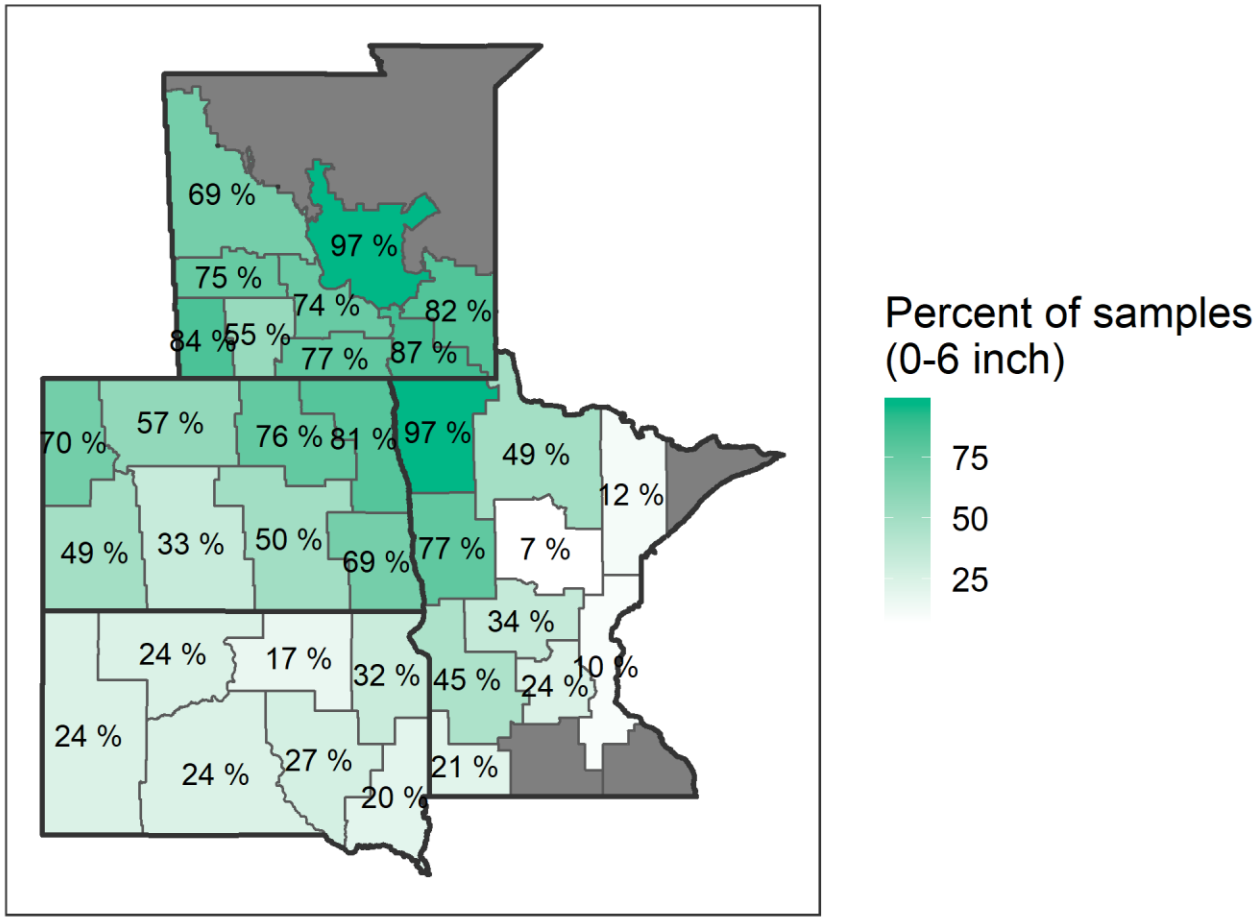
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with subsoil pH below 7.0 in 2019



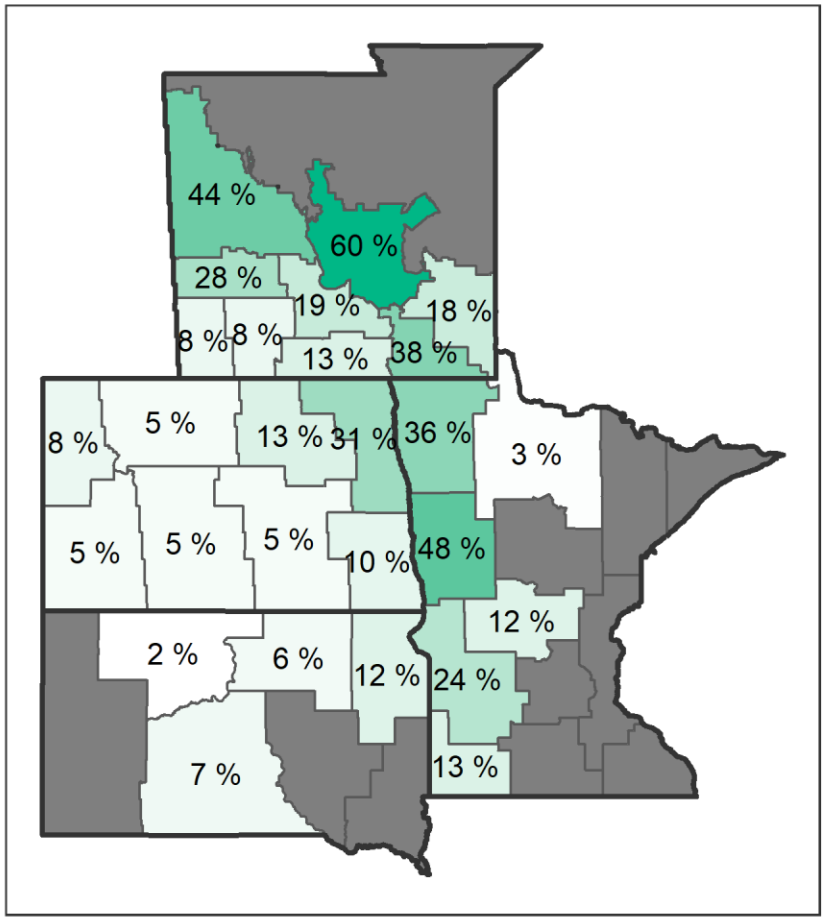
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil pH above 7.3 in 2019



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil carbonate (CCE) above 5.0% in 2019

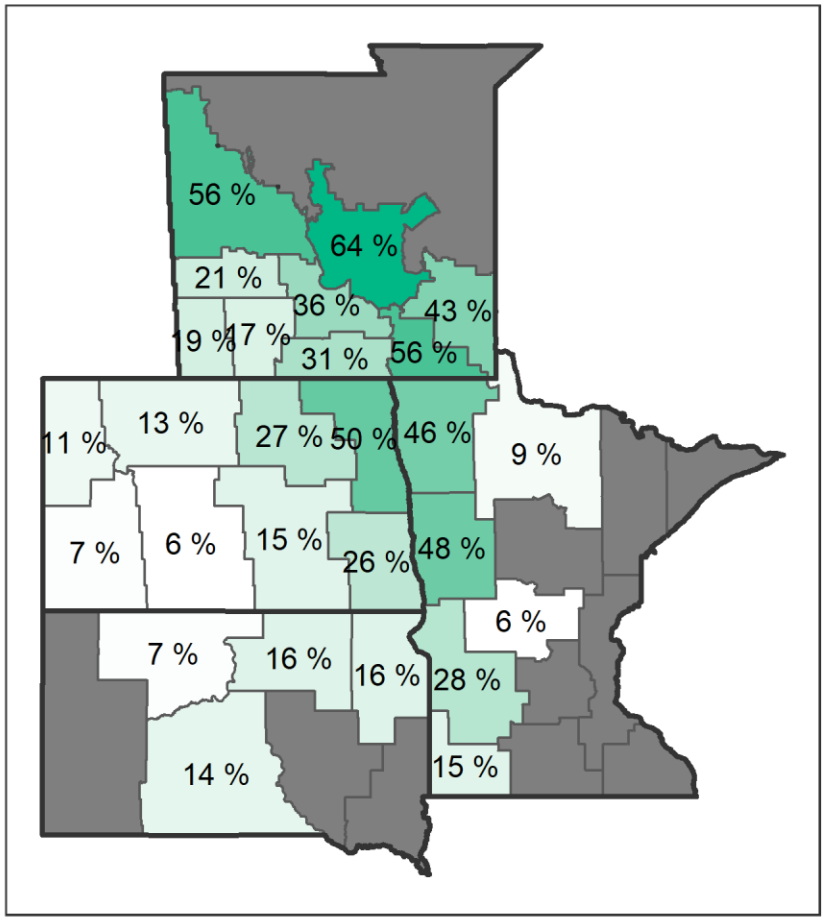


Percent of samples (0-6 inch)

60
50
40
30
20
10

Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with high risk of soybean iron deficiency chlorosis (IDC) in 2019



Percent of samples (0-6 inch)

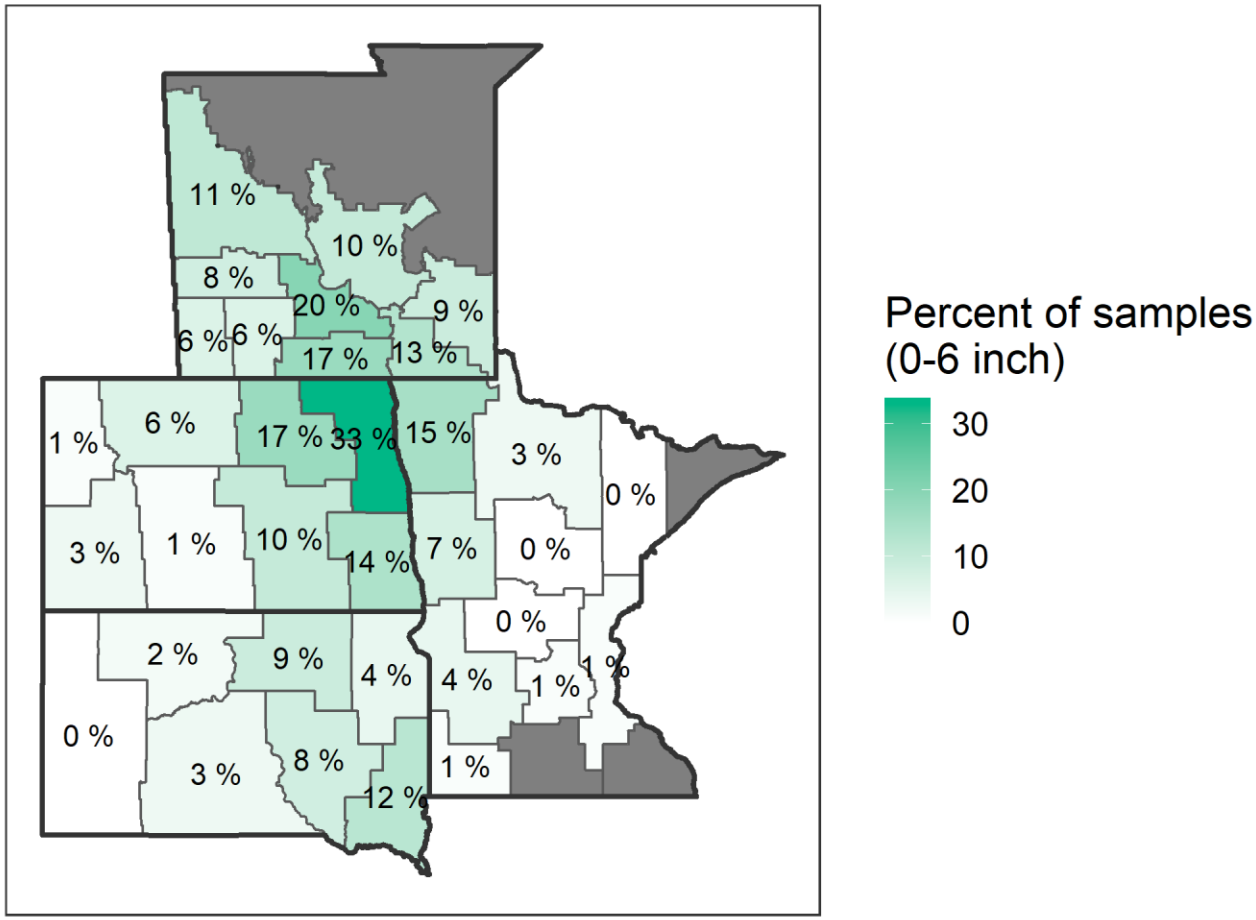
60

40

20

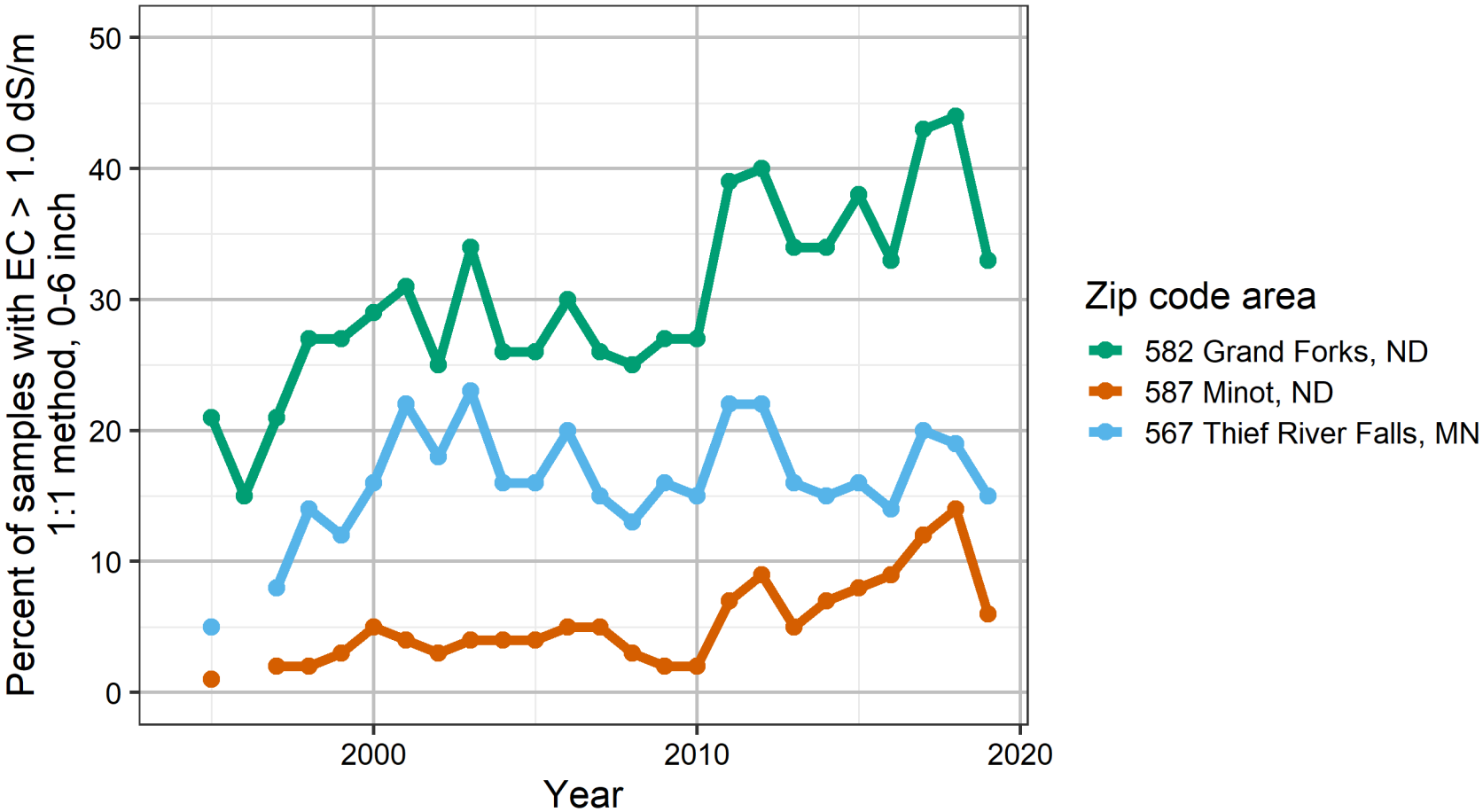
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil samples with soil salinity above 1.0 dS/m (1:1) in 2019



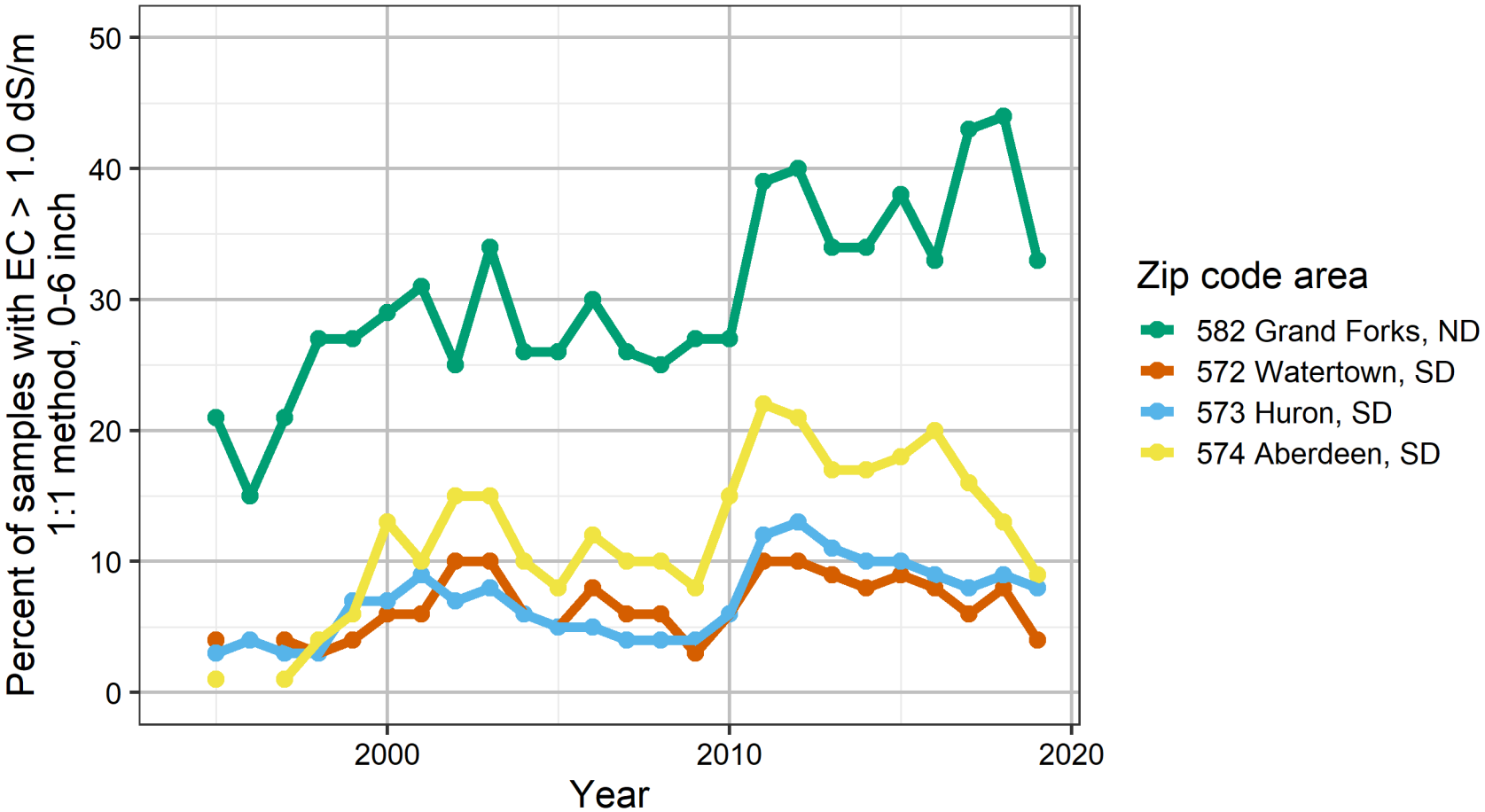
Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

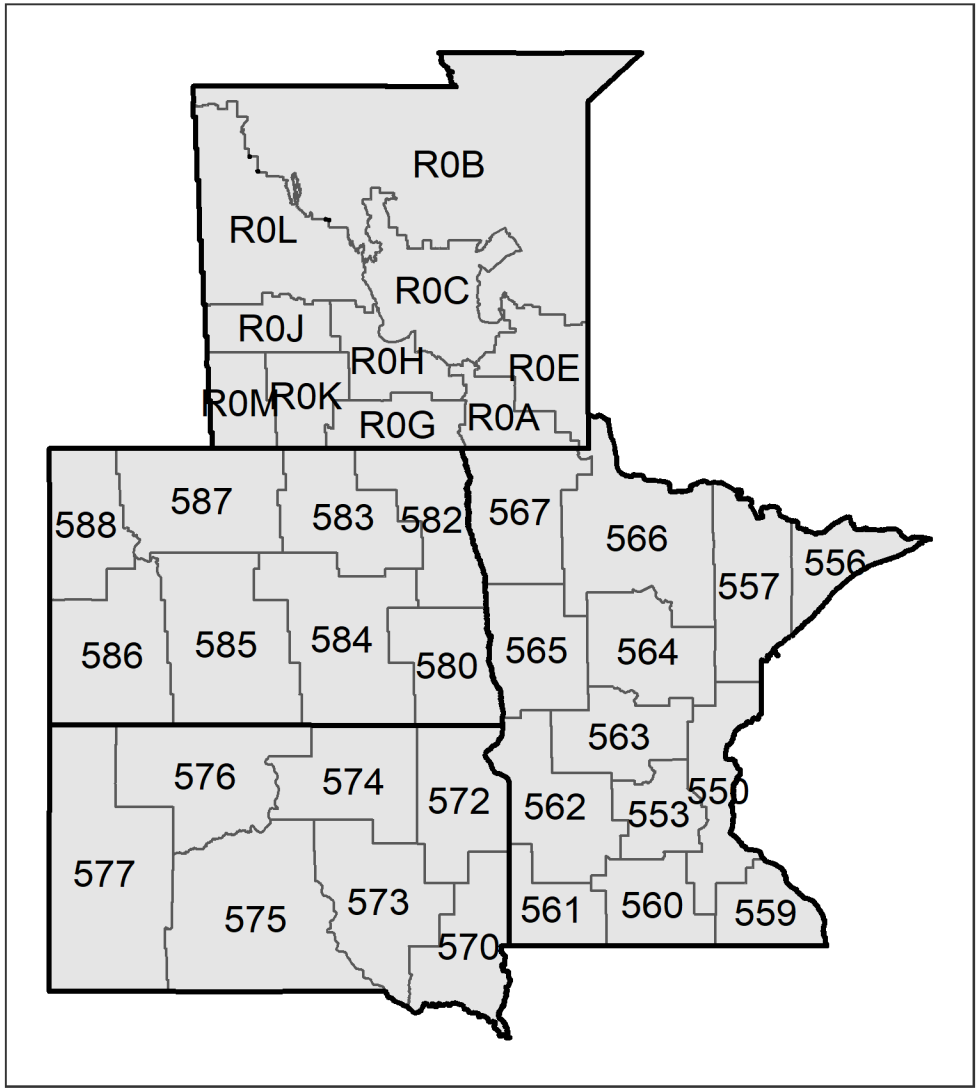
Soil salinity trend (>1.0 dS/m) across northeast ND & northwest MN



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Soil salinity trend (>1.0 dS/m) across eastern SD & northeast ND



Data not shown where n< 100
AGVISE Laboratories, Northwood, ND

Postal code areas for soil test summary