

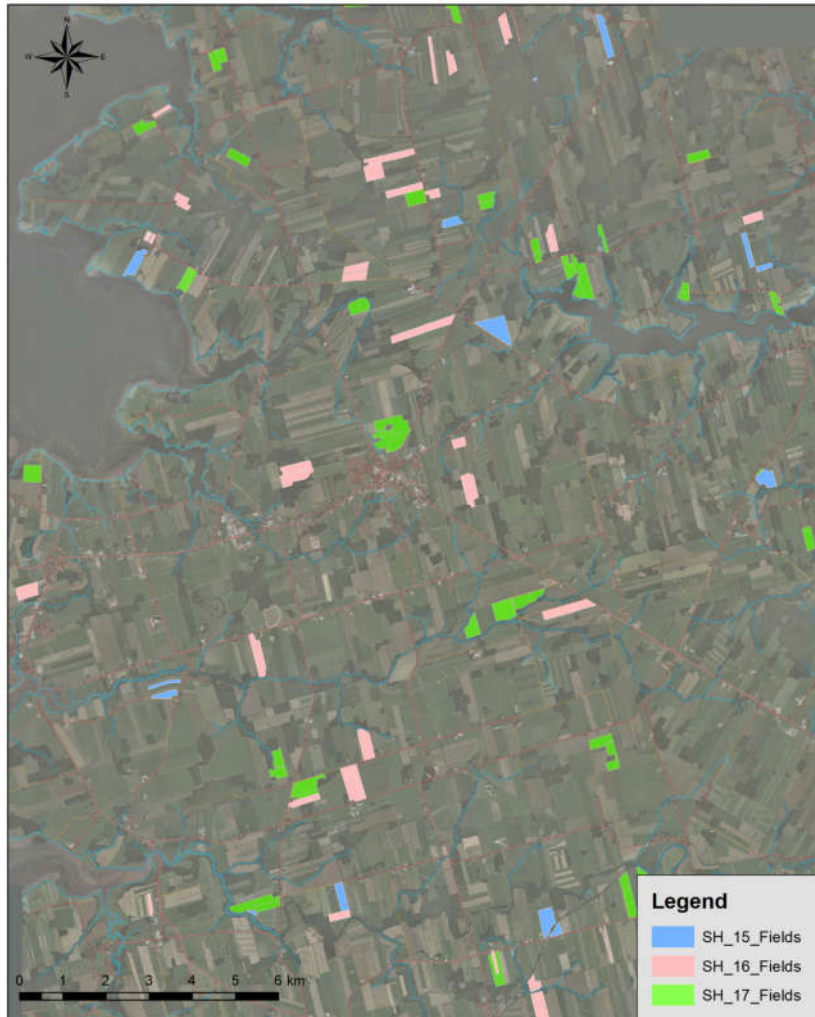


Soil Health 2015-2017

Kensington North Watershed Association

Grower Meeting Winter 2018

KN Soil Health Sites (2015-2017)



Produced for Kensington North Watersheds Assoc.

Cornell Soil Health Baseline Sampling 2015-2017

Year	Fields	Zones	Points	Field Area (ac)	Producers
2015	13	23	235	568	10
2016	28	63	492	1,257	18
2017	30	63	648	1,546	22

Cornell Soil Health Results

Histogram of ORG_MTR_RS (PE Analytical)

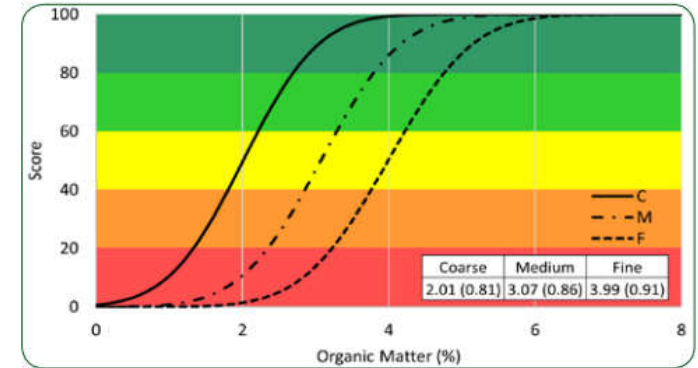
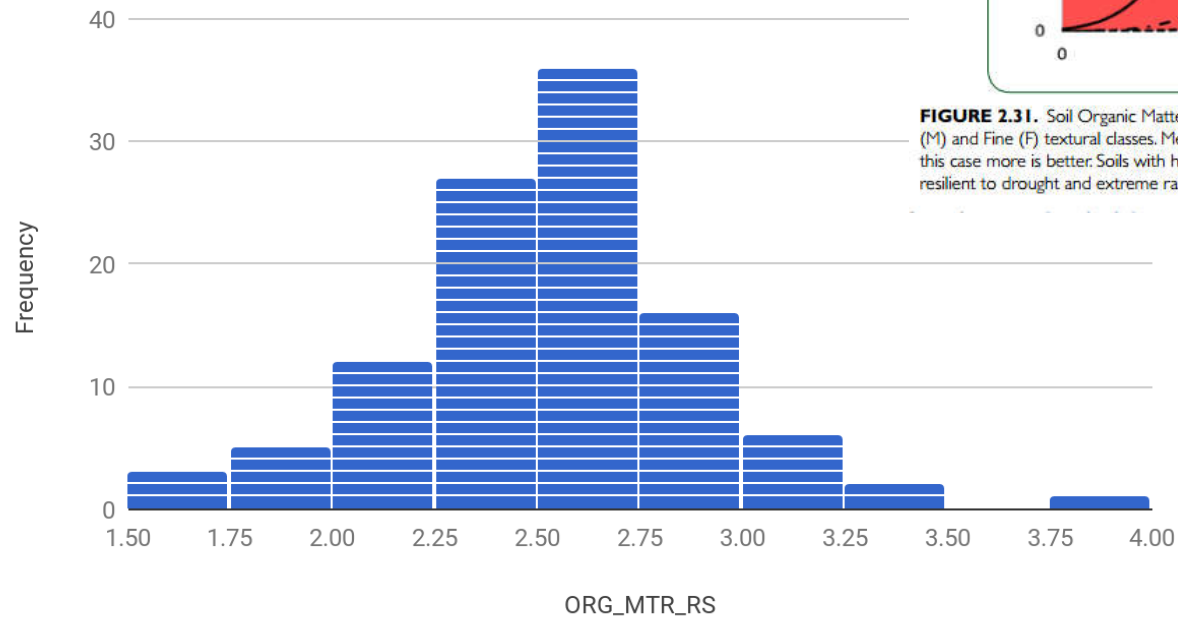


FIGURE 2.31. Soil Organic Matter (OM) scoring functions and upper value limits for Coarse (C), Medium (M) and Fine (F) textural classes. Mean and standard deviation (in parenthesis) for each class are provided. In this case more is better. Soils with higher OM scores generally require lower inputs of nutrients and are more resilient to drought and extreme rainfall.

Cornell Soil Health Results

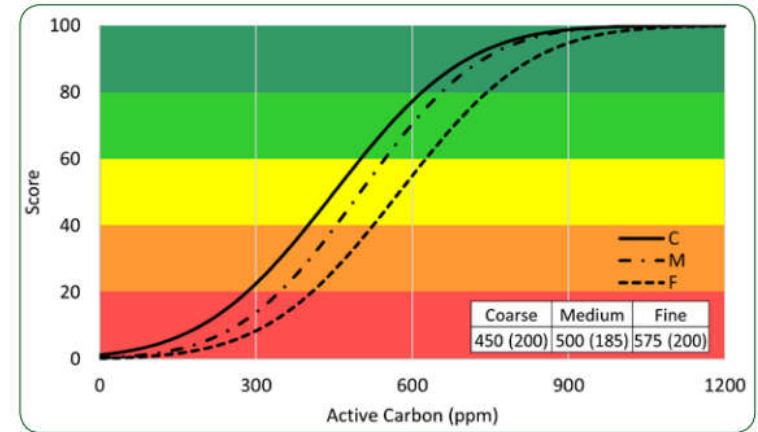
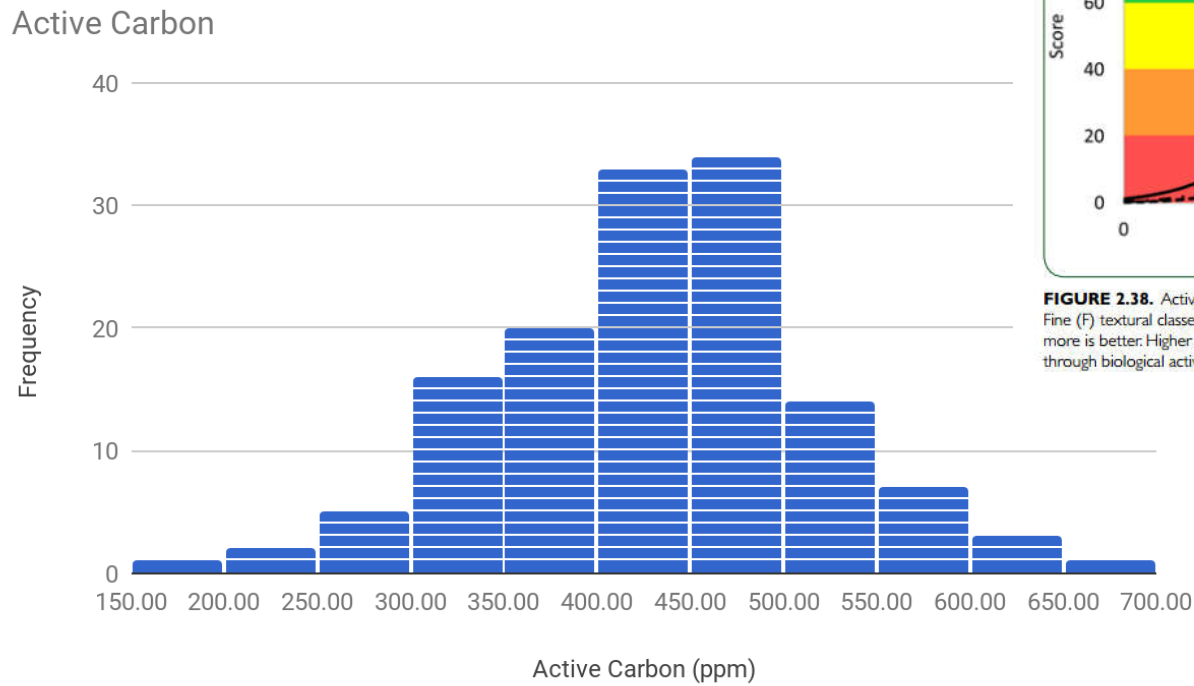
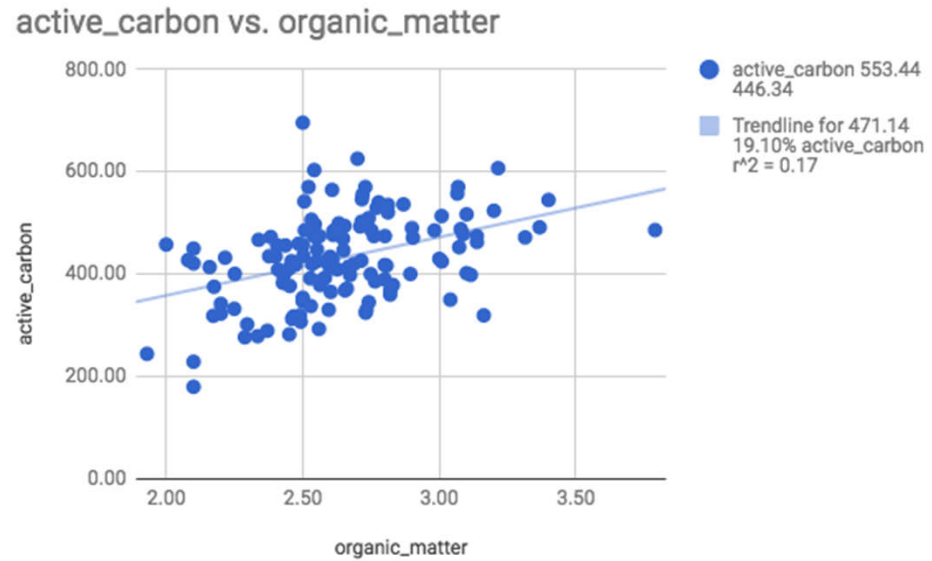


FIGURE 2.38. Active carbon scoring functions and upper value limits for Coarse (C), Medium (M) and Fine (F) textural classes. Mean and standard deviation (in parenthesis) for each class are provided. In this case more is better. Higher active carbon scores indicate a trend toward more organic matter building up in the soil through biological activity.

Cornell Soil Health Results



Cornell Soil Health Results

Soil Respiration

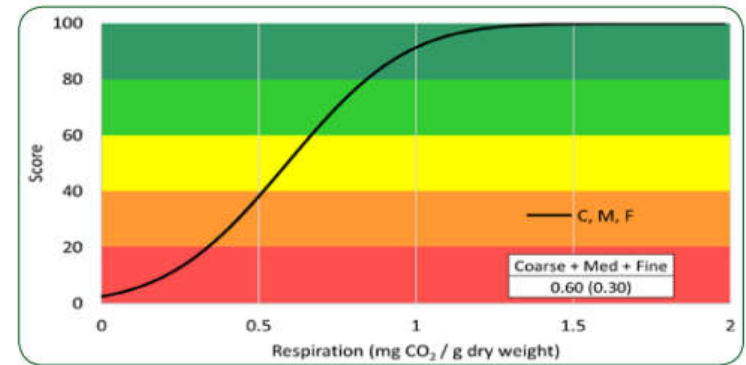
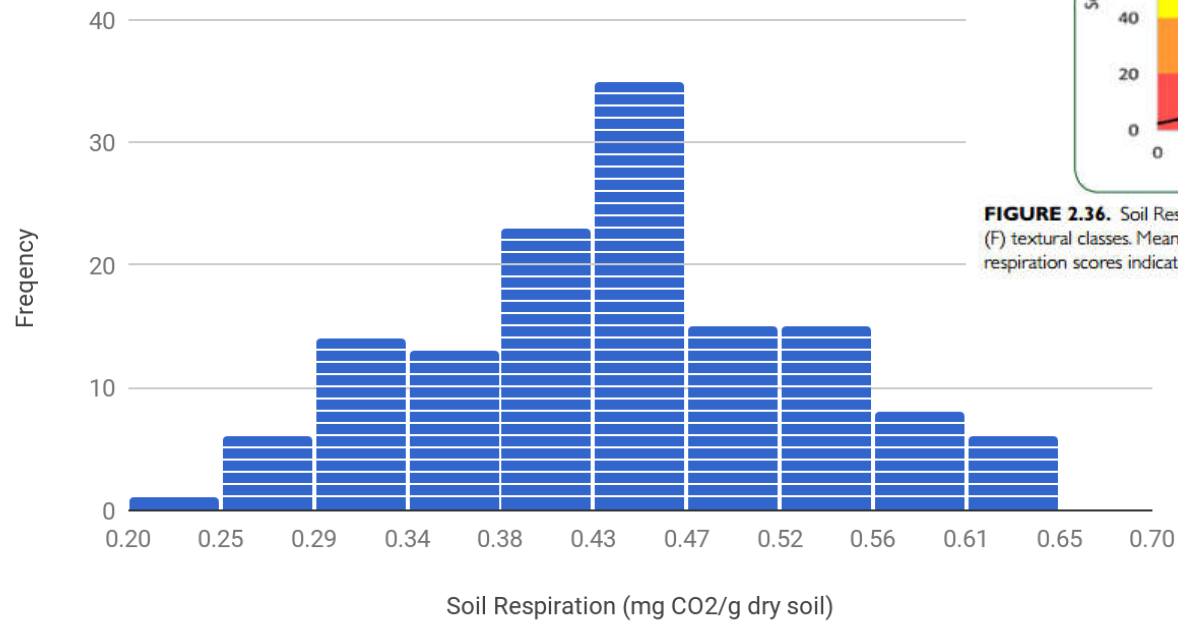


FIGURE 2.36. Soil Respiration scoring functions and upper value limits for Coarse (C), Medium (M) and Fine (F) textural classes. Mean and standard deviation (in parenthesis) is provided. In this case more is better. Higher respiration scores indicate the presence of a larger, more active soil community.

Cornell Soil Health Results

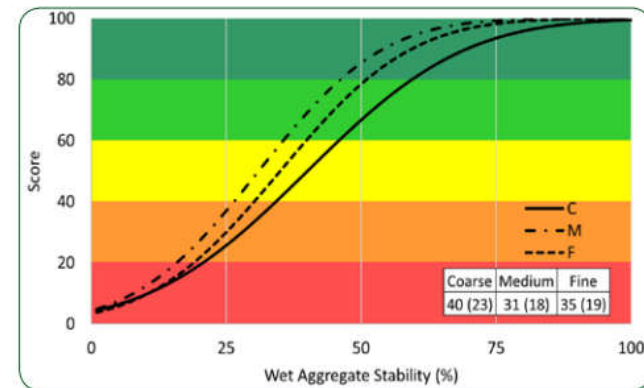
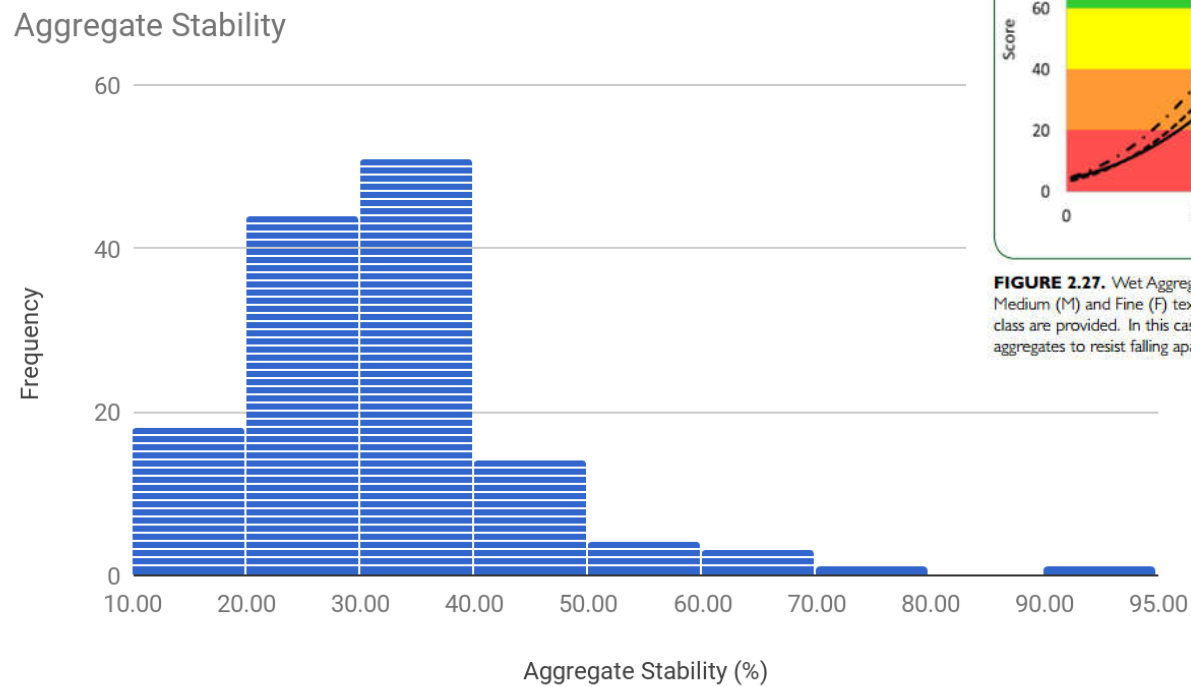


FIGURE 2.27. Wet Aggregate Stability scoring functions and upper value limits for Coarse (C), Medium (M) and Fine (F) textural classes. Mean and standard deviation (in parenthesis) for each class are provided. In this case more is better. Higher scores indicate a greater ability of the soil aggregates to resist falling apart when exposed to rainfall.

Tillage Split Trials

Synkro stubble cultivator



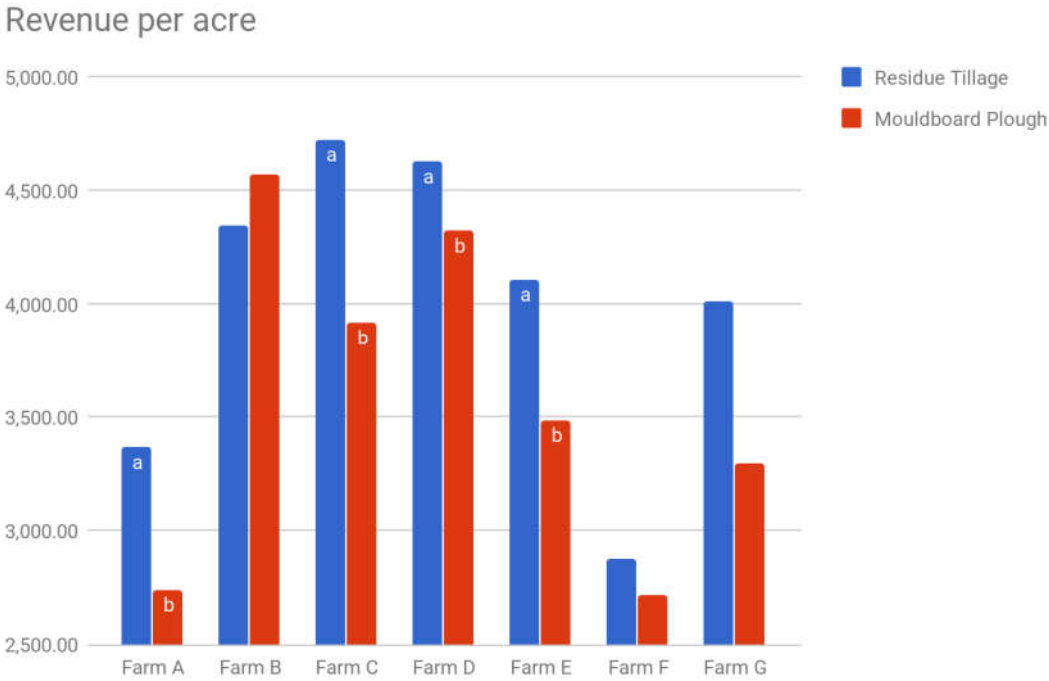
Courtesy pottinger.com

Lemken stubble cultivator

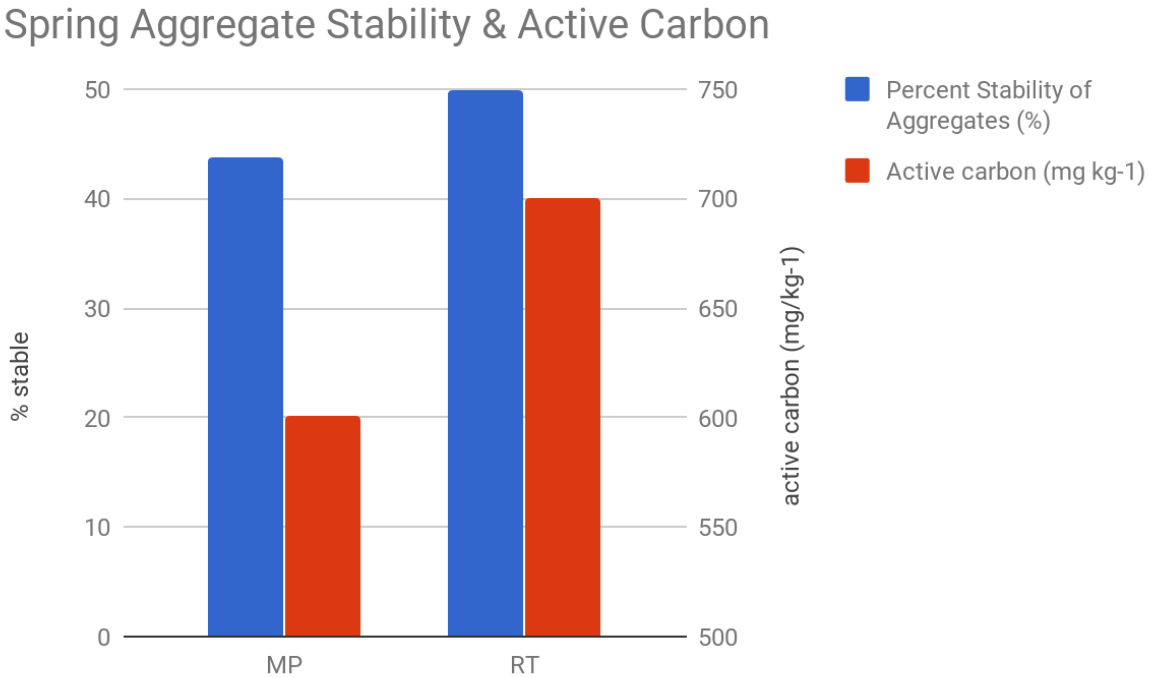


Courtesy lemken.com

Tillage Split Trial Results 2015-2017



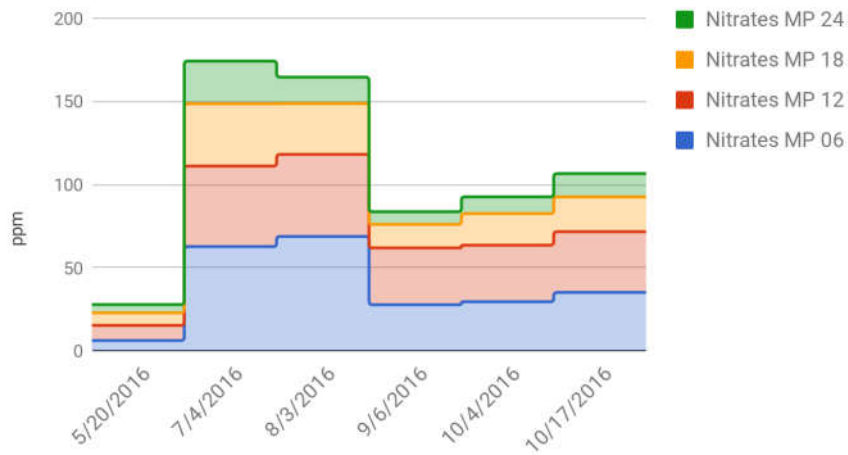
Tillage Split Trial Results 2015-2017



Tillage Split Trial Nitrate Results 2016

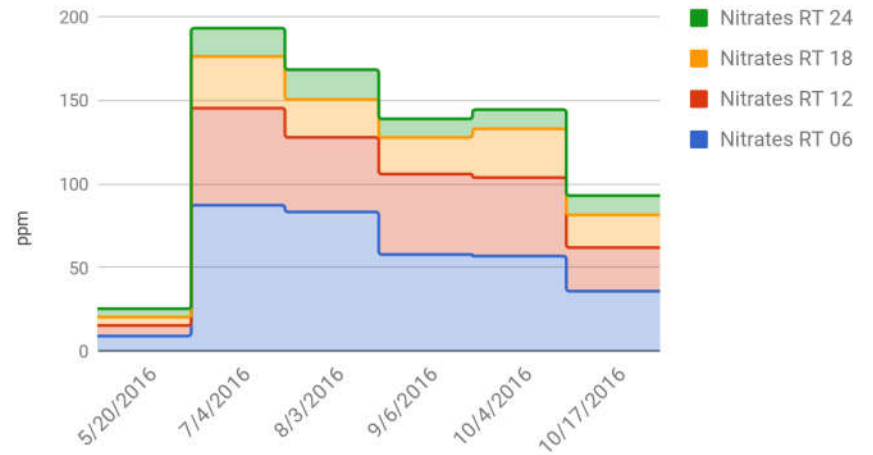
N03-N Mouldboard Plough

Mouldboard Plough - Nitrates 2016



N03-N Residue Tillage

Residue Tillage - Nitrates 2016





Soil Health Project

[Results](#) [Soil Health Story](#) [About](#)

Soil health data collected between 2015 and 2017 demonstrates multiple opportunities for improving soil productivity while also improving ecosystem services shared by all stakeholders in the wider Kensington North area.

