



Is it beneficial to add supplemental lime to previously limed soil?

The original lime was added April, 2004



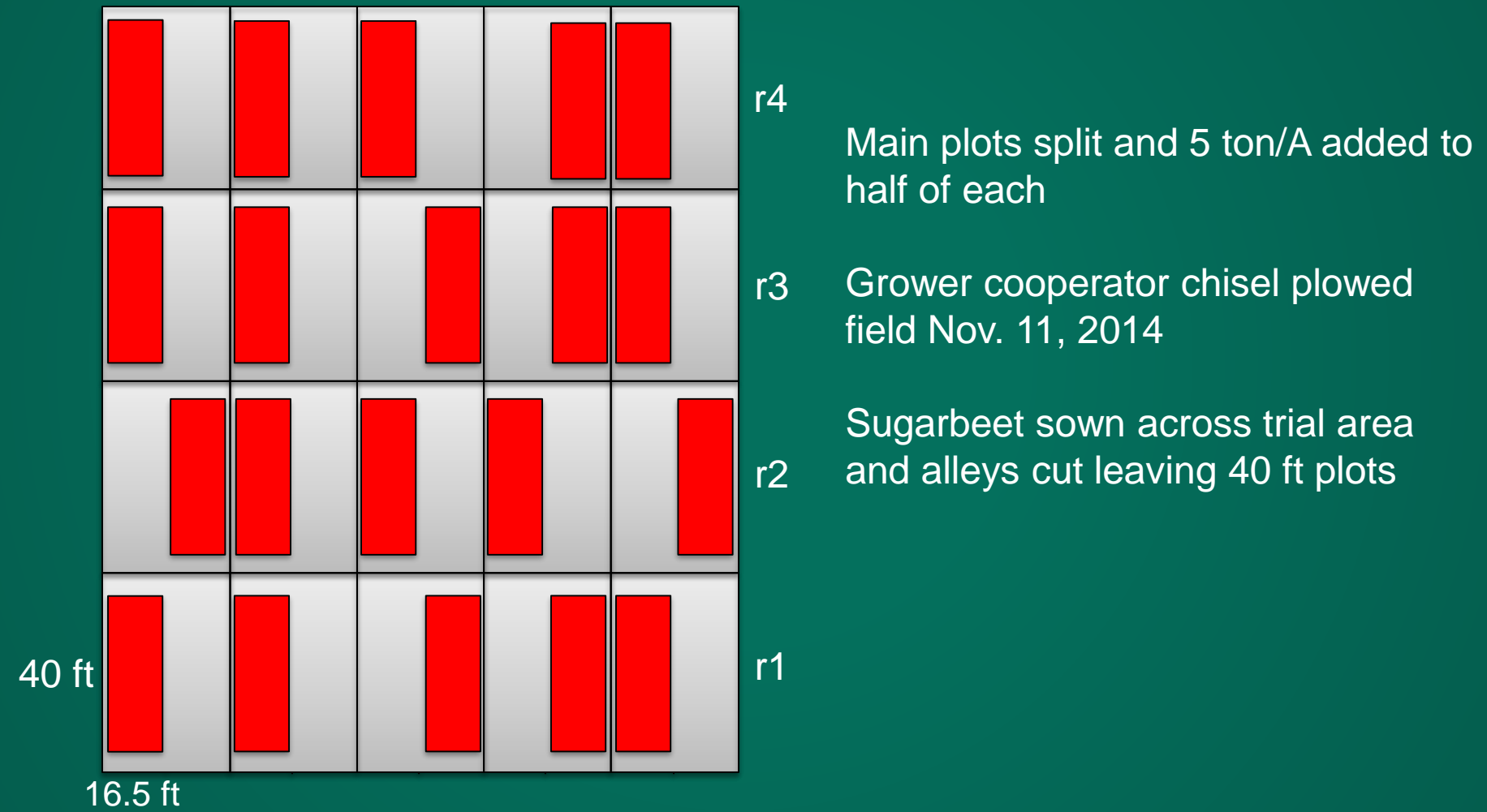
	10	15	0	5	20	r4
	15	5	20	0	10	r3
	20	10	15	0	5	r2
60 ft	0	5	10	15	20	r1
	33 ft					

Original main plot size was 33 ft wide by 60 ft long

Sugarbeet sown across trial area and alleys cut leaving 40 ft plots

Trial location	Breckenridge, MN
Aph Soil Index Value	98
Soil pH	6.3
Date limed	April, 2004
Rates (Ton wet wt/A)	0, 5, 10, 15, 20
Rates (Ton dry wt/A)	0, 2.7, 5.3, 8, 10.6

Supplemental lime added Oct. 31, 2014

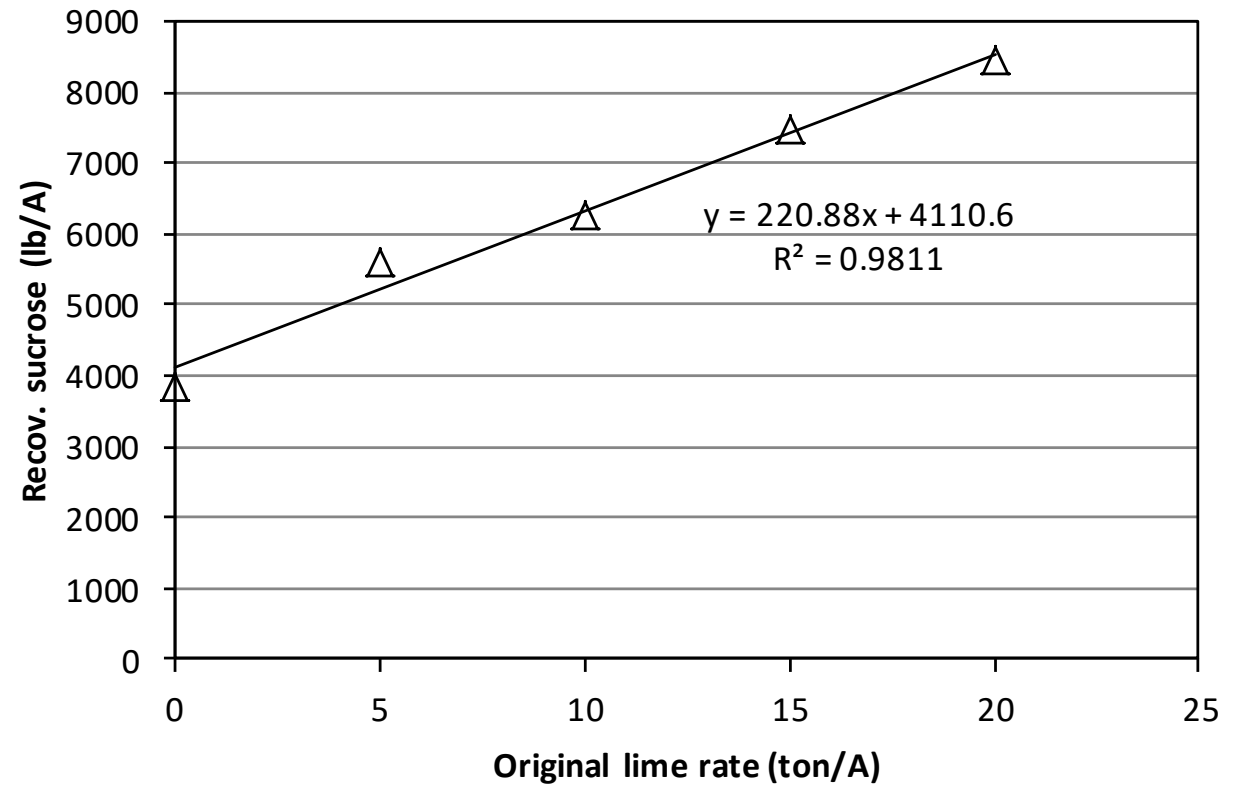
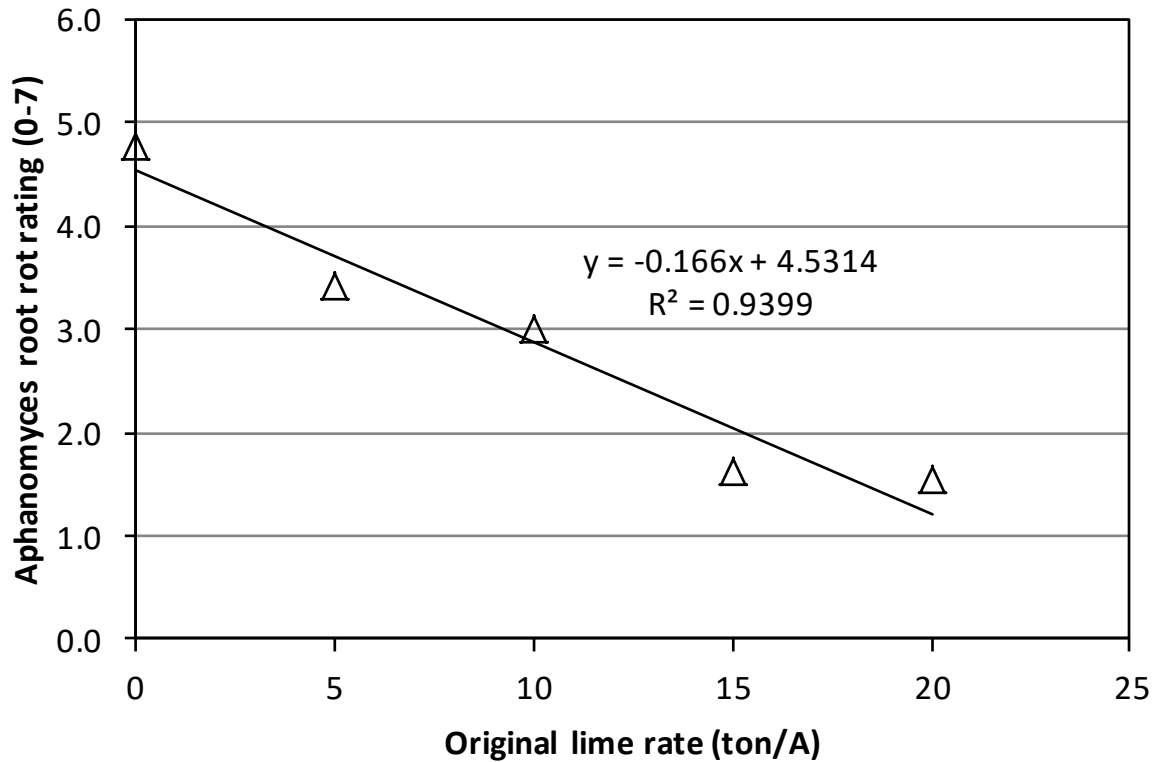


Experiments (2005 – 2015)

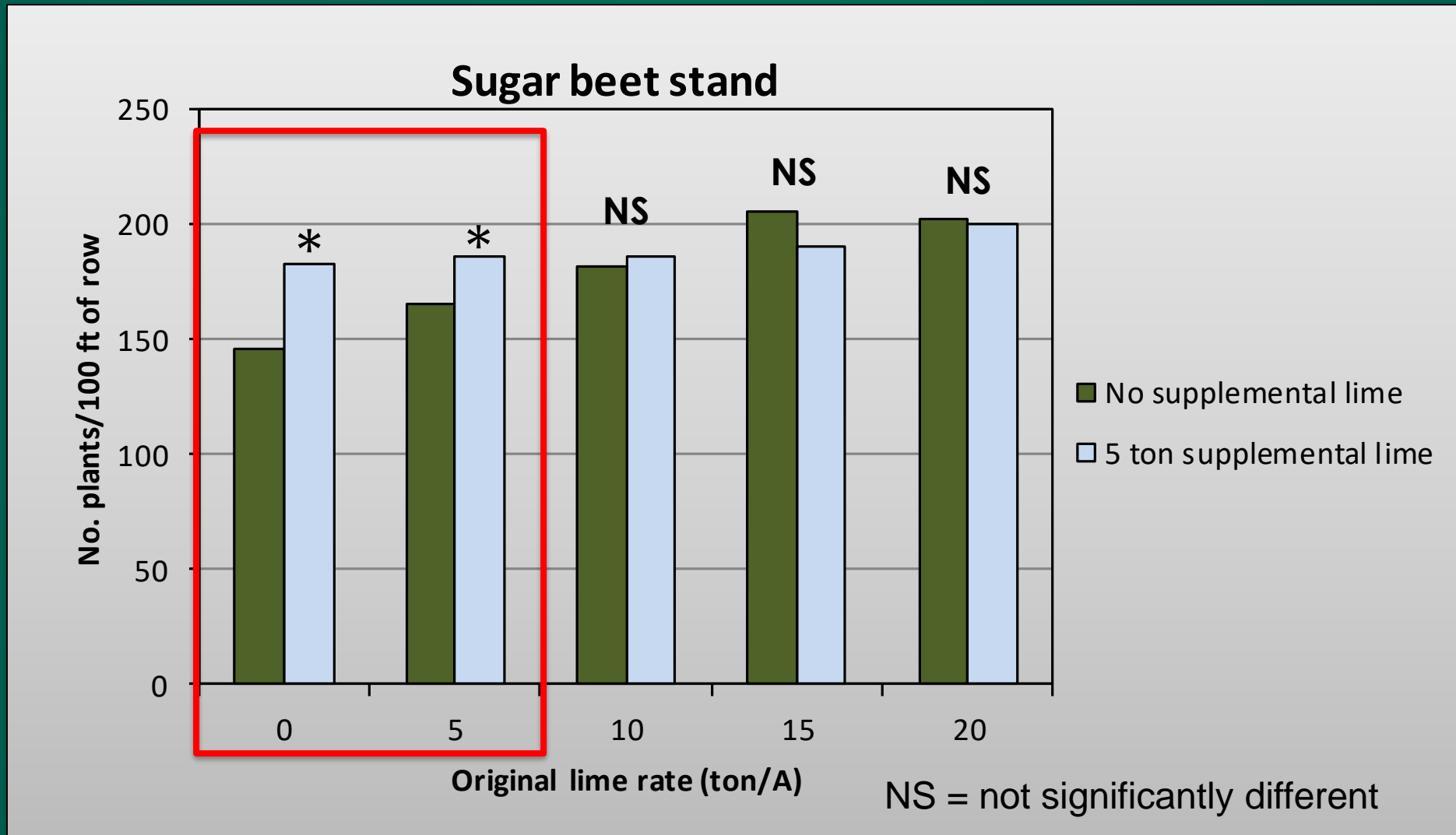


	I	II	III	IV
2004	Wheat	Wheat	Wheat	Wheat
2005	Sugarbeet	Wheat	Wheat	Wheat
2006	Soybean	Sugarbeet	Soybean	Soybean
2007	Wheat	Wheat	Sugarbeet	Wheat
2008	Corn	Corn	Corn	Sugarbeet
2009	Sugarbeet	Soybean	Soybean	Soybean
2010	Corn	Sugarbeet	Corn	Corn
2011	Soybean	Soybean	Sugarbeet	Soybean
2012	Wheat	Wheat	Wheat	Sugarbeet
2013	Sugarbeet	Soybean	Soybean	Soybean
2014	Corn	Sugarbeet	Soybean	Corn
2015	Soybean	Soybean	Sugarbeet	Soybean

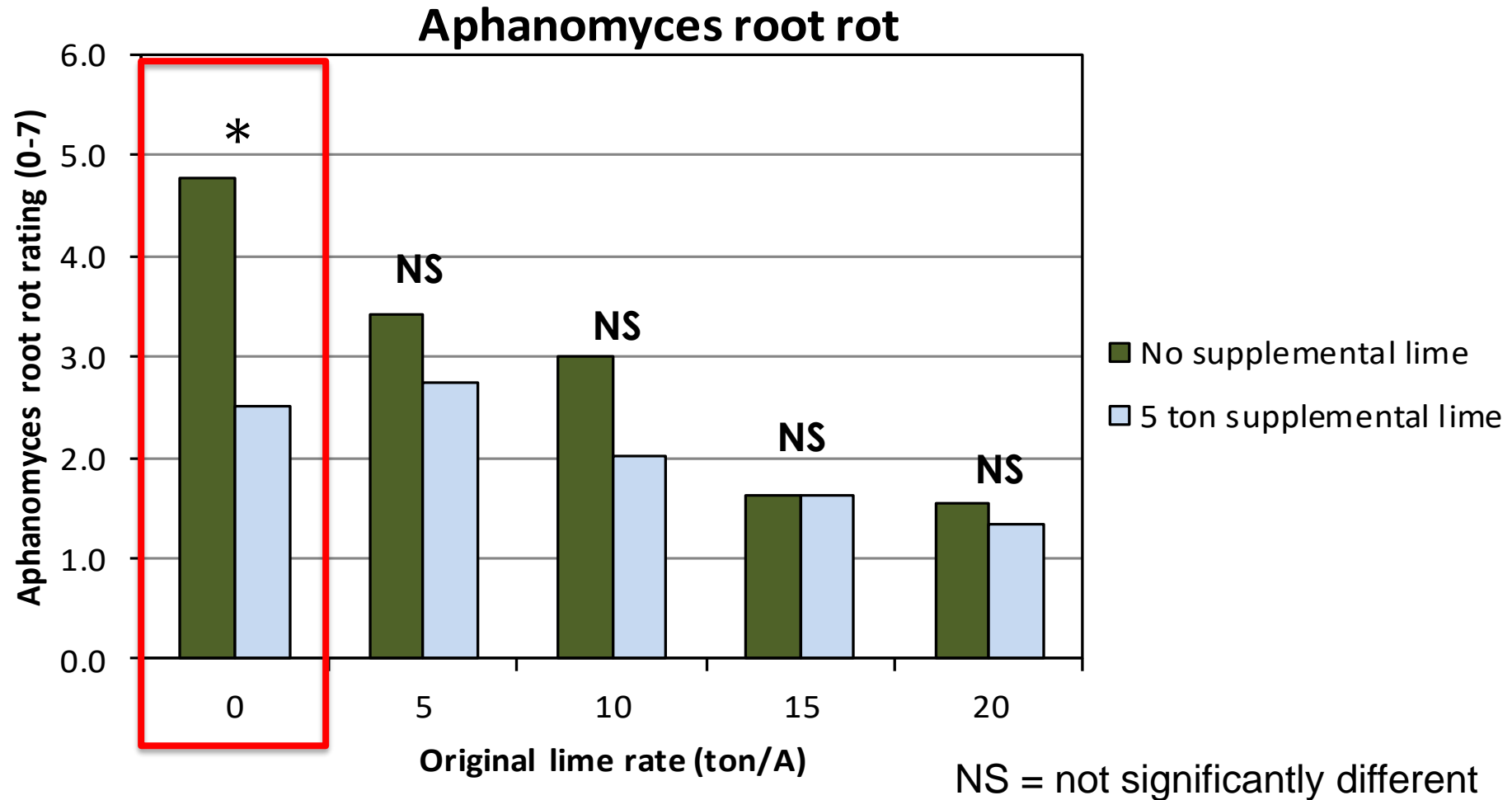
The original lime still adds benefit after 11 years...



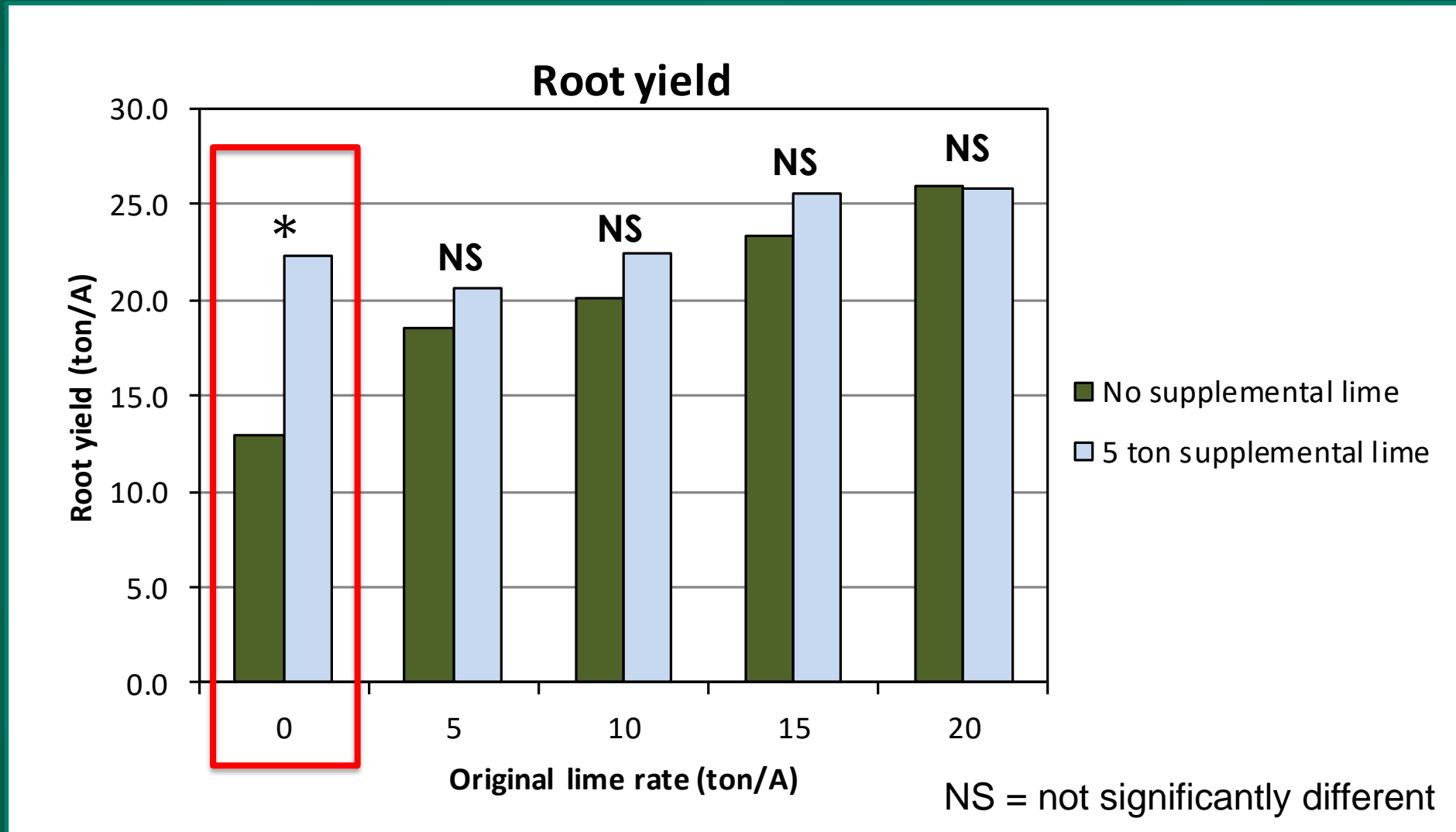
Higher stands in 0 and 5 Ton original lime



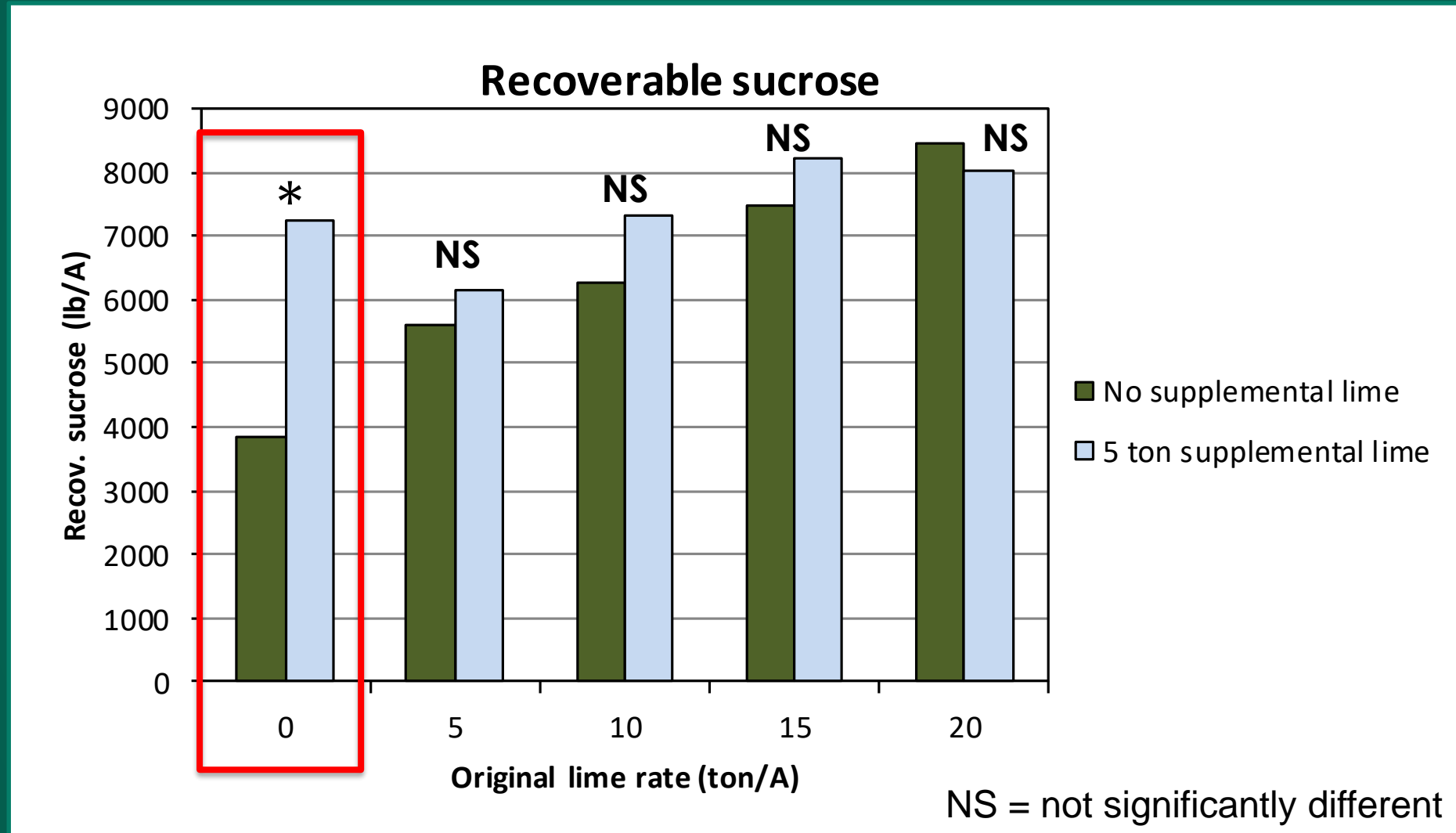
Low Aphanomyces when there is no original lime



Higher yield when there is no original lime applied...



Higher RSA when there is no original lime applied



So What Did We Learn – 1 year data...



- Original lime is still effective after 11 years
- Application of 5 ton/A spent lime in the late fall was beneficial the following growing season
- Where lime had not been previously applied, application of 5 ton/A significantly decreased *Aphanomyces* and increased sugarbeet yield
- Where lime had been previously applied at 5 ton/A, application of additional 5 ton/A significantly increased sugarbeet stand, but not yield
- Experiment will be repeated in 2016 (and beyond?)