



# Effects of Different Nutrient Programs on Head Size on Celery in Michigan. Experiment 15 – 1206B

## Experiment Info:

Planted:	5-1-2015
Harvest:	9-22-2015
Yield Goal:	27.5 tons / acre
Target Fert.:	
Variety:	"Tango"
Population:	60 Heads / plot
Row Width:	5' beds
Prev. Crop:	Onions
Plot Size:	30' beds
Replications:	4

## Soil Test Values (ppm):

pH:	7.9
CEC:	22.6
%OM:	11
Bray P1:	15
Bicarb P:	
K:	111 ppm
S:	11 ppm
%K:	
%Mg:	
%Ca:	
%H:	
Zn:	2.6 ppm
Mn:	2 ppm
B:	0.8 ppm

## Objective:

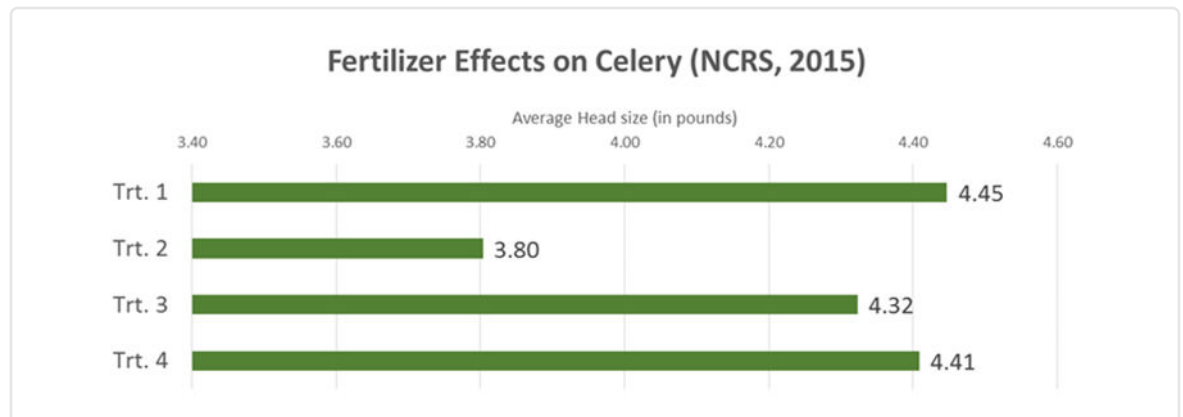
Compare soil fertility programs for impact on the yield of celery in Central Michigan.

## Material & Methods:

In the spring Celery was transplanted in 5 foot wide raised beds with two rows of plants at a spacing of 30" for a total of 50 plants per plot. Each of these plots were replicated four times in the field. The following rates of fertilizer were used at various times during the growing season. A transplant solution was used at the time of planting which consisted of 1 gallon of Pro-Germinator + 1 gallon of Sure-K + 1 gallon of Micro 500 per acre for all of the Agroliquid plots. At the time of first side dress all of the Agroliquid plots had 18.7 gallons of Pro-Germinator per acre added to the mixture.

- Trt. 1 = Conventional: 0-0-60 at 695 lbs. per acre + 18-46-0 at 200 lbs. per acre + 5 lbs. of micro nutrient blend were applied and incorporated into the raised beds before planting. On June 5<sup>th</sup>, first side dressed of the plants occurred with an application of 10-34-0 at 24 gallons per acre + 28% UAN at 12 gallons per acre was applied.
- Trt. 2 = Agroliquid: On June 5<sup>th</sup>, first side dressed of the plants occurred with 20 gallons of High NRG-N + 20 gallons of Sure-K. On July 27<sup>th</sup>, a second side dress application was made with 28% UAN + eNhance at 13 gallons + 20 gallons of Sure-K per acre.
- Trt. 3 = Agroliquid: On June 5<sup>th</sup>, first side dressed of the plants occurred with 20 gallons of High NRG-N + 20 gallons of Kalibrate. On July 27<sup>th</sup>, a second side dress application was made with 28% UAN + eNhance at 13 gallons + 20 gallons of Kalibrate per acre.
- Trt. 4 = Agroliquid (eNhance + 28%UAN) On June 5<sup>th</sup>, first side dressed of the plants occurred with 20 gallons of High Nrg-N + 20 gallons of Sure-K. On July 27<sup>th</sup>, a second side dress application was made with 28% UAN + eNhance at 13 gallons only per acre.

## Results:



## Conclusions:

- The Agroliquid plots that had Sure-K as part of the fertility program had the smallest average head size and in turn lowest yield (see report Experiment 15-1206A).
- The Agroliquid plots that had higher amounts of sulfur in the fertility program performed better than plots that did not include additional sulfur.