



Effects of Foliar Applied Fase2 on High Density Honeycrisp Apples in Michigan. Experiment 15 – 806B

Experiment Info:

Planted:	2012
Harvest:	9-4-2015
Yield Goal:	1500 bushels
Target Fert.:	
Variety:	Honeycrisp
Population:	1100 / acre
Row Width:	
Prev. Crop:	
Plot Size:	10 trees
Replications:	4
Rootstock:	Bud 9

Soil Test Values (ppm):

pH:	7.7
CEC:	9.5
%OM:	1.2
Bray P1:	23
Bicarb P:	-
K:	129 ppm
S:	7 ppm
%K:	2.1
%Mg:	17.2
%Ca:	70.2
%H:	0.6
Zn:	1.2 ppm
Mn:	8 ppm
B:	0.5 ppm

Objective:

Determine the effects of various foliar applications of Fase2 have on yield and plant growth on high density Honeycrisp apples.

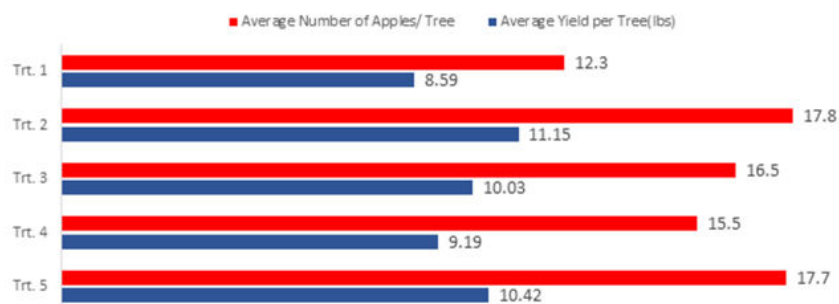
Material & Methods:

In the spring of 2012, the apple trees were planted at a spacing of 3.5 feet between trees and 11 feet between rows. All the trees are trained to slender spindle. Within the row, the plots are separated by ornamental crab apple trees to be used as a border tree and as an additional source of pollen at the time of flowering. The trellis design used for this orchard consists of a four wire system with the trellis top wire at a height of 11 feet. In the spring of 2014, all of the trees were headed at 18" above the soil and new tops were trained to the trellis. A base soil applied program for the AgroLiquid plots included (all rates are per acre) 12 gallons of High NRG-N + 5 gallons of Pro-Germinator + 0.5 gallons of Micro 500 + 0.125 gallons of Boron + 0.125 gallons of Manganese. All of the different fertility products were applied before bloom in the spring in a band next to the trees; foliar applications were made according to the treatment descriptions (all rates are per acre):

- Trt. 1 = Agroliquid soil application only
- Trt. 2 = Agroliquid + Fase2: Monthly applications of Fase2 at 2 quarts per acre made from first expanded leaf until harvest. Total of 5 applications during season.
- Trt. 3 = Agroliquid + Fase2: Three applications of Fase2 at 2 quarts per acre made on the first of June, July and August.
- Trt 4. = Conventional (A): Urea at 65lbs. + DAP at 109lbs. + SOP at 100 lbs. + Micro nutrient dry blend at 5 lbs.
- Trt 5. = Conventional (A): Urea at 65lbs. + DAP at 109lbs. + SOP at 100 lbs. + Micro nutrient dry blend at 5 lbs. Three applications of Fase2 at 2 quarts per acre made on the first of June, July and August.

Results:

Effects of Fase2 Foliar Applications on Honeycrisp trees (NCRS, 2015)



Conclusions:

- The addition of foliar applications of Fase2 in the season improved both the yield and also the number of apples per tree. These improvements were in addition to the yield of the soil applied fertility program only.
- In the case of three application or monthly applications (5 total applications during the season in Michigan) there seems to be no difference or increase in yield or fruit quality (data not shown) when used in high density honeycrisp.