

Potassium (K₂O)

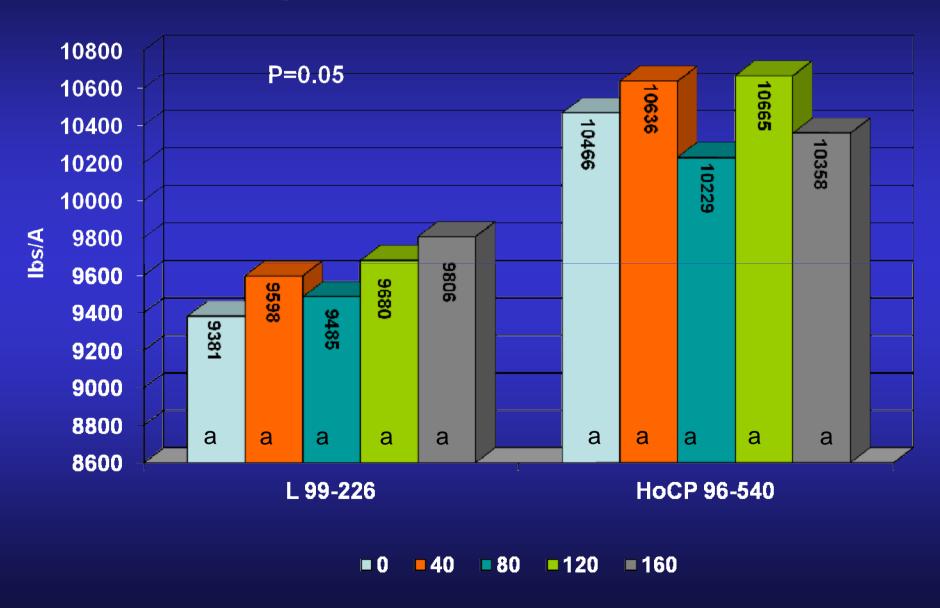
- About 3 lbs removed / T cane.
- Potassium rate recommendations are based on soil test.
- Potassium is important for proper water use and may help in drought tolerance.
- Potassium deficient plants are more prone to certain diseases and more likely to lodge.

Soil test	Plant	Stubble
Very Low	130	140
Low	110	120
Medium	80	80
High	0	0
Very High	0	0

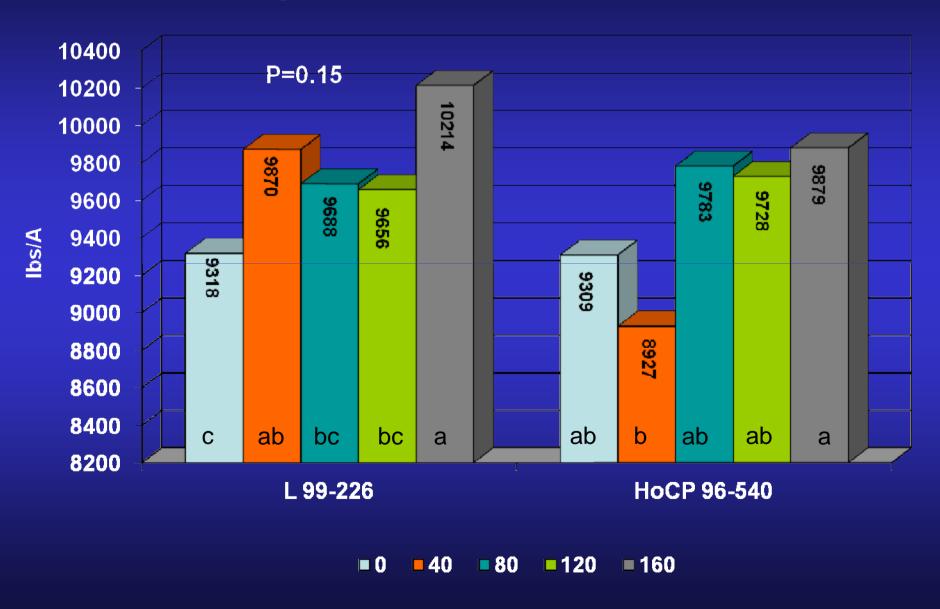
USDA Potassium Fertilizer Studies, 2011-2012

- Varieties: HoCP 96-540, L 99-226
- Crop Age: PC, 1R, 2R
- All soils tested low for potassium
- K rates: 0, 40, 80, 120, 160 lbs K₂O/A (KCI)
- Reps: 6

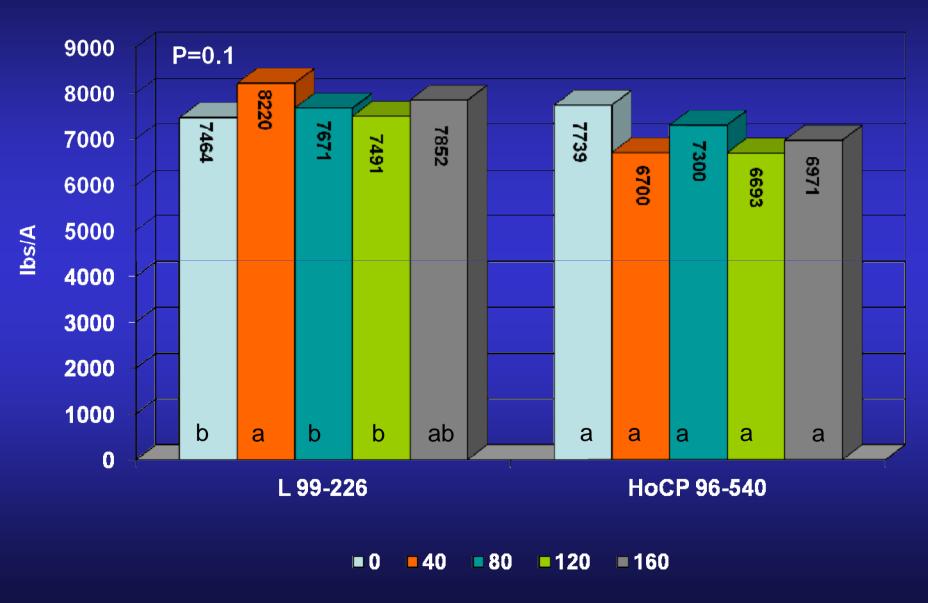
Varietal Response to Potassium Fertilizer Sugar/A, Plant cane, USDA, 2012



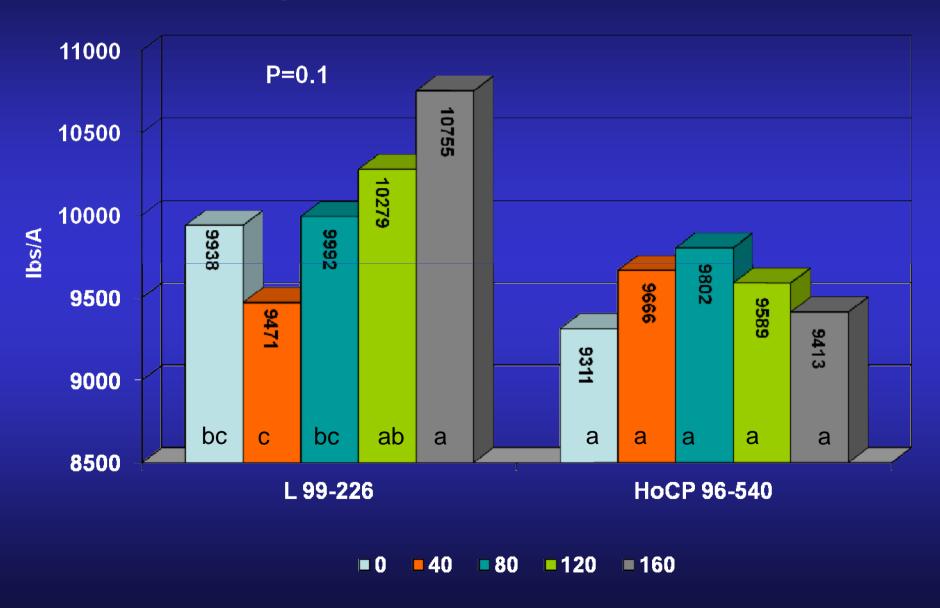
Varietal Response to Potassium Fertilizer Sugar/A, 1st stubble, USDA, 2012



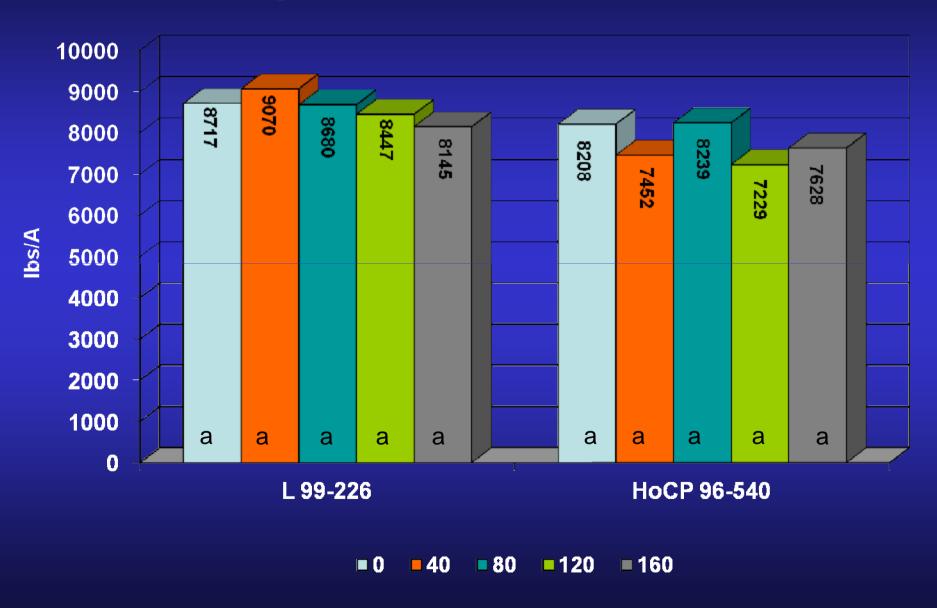
Varietal Response to Potassium Fertilizer Sugar/A, 2nd stubble, USDA, 2012



Varietal Response to Potassium Fertilizer Sugar/A, Plant cane, USDA, 2011



Varietal Response to Potassium Fertilizer Sugar/A, 1st Stubble, USDA, 2011



Summary of Potassium Studies (2011-2012)

- Optimum K Rate 0-160 lb N/A, HoCP 96-540, L 99-226, Plant cane, 1st and 2nd stubble.
- Response to potassium was location specific.
- Additional research needed and all studies will be continued through 2nd stubble.

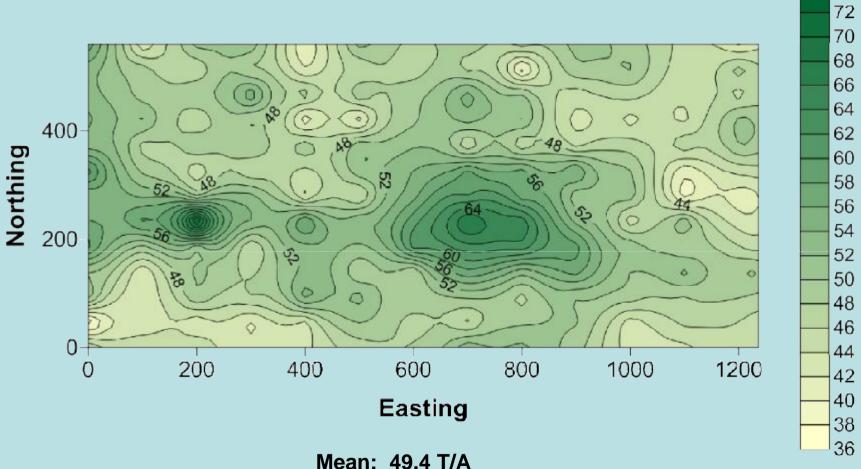
VR Potash Study Armelise Plantation, 2012, HoCP 96-540, PC



Management zones based on soil grid sampling.

- Blaine Viator

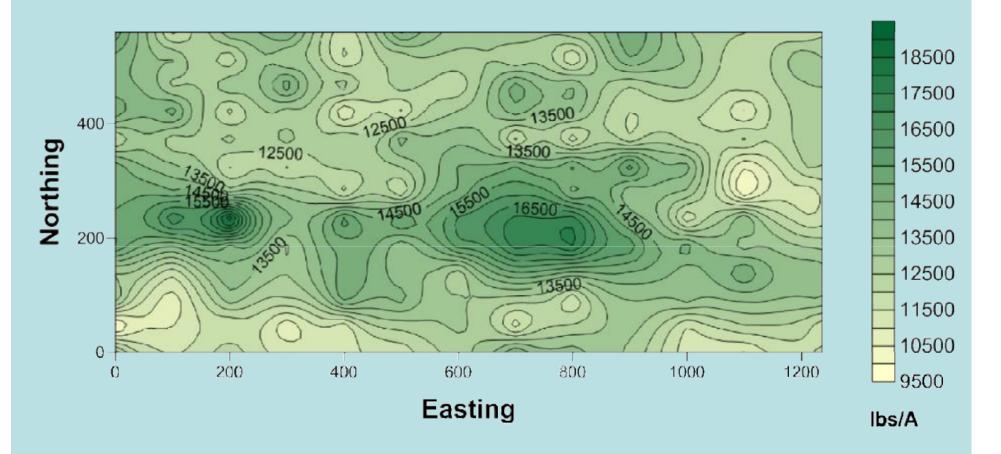
Dugas VR Potash HoCP 96-540, PC, 2012, Tons



Range: 35.1 - 69.7 T/A

Tons/A

Dugas VR Potash HoCP 96-540, PC, 2012, Sugar



Mean: 268 lb/T Mean: 13,175 lb/A

Range: 231 – 295 lb/T Range: 9,340 – 17,845 lb/A

VR Nitrogen Study, Acadia Plantation 2012, HoCP 96-540, PC



Management zones by Veris soil EC

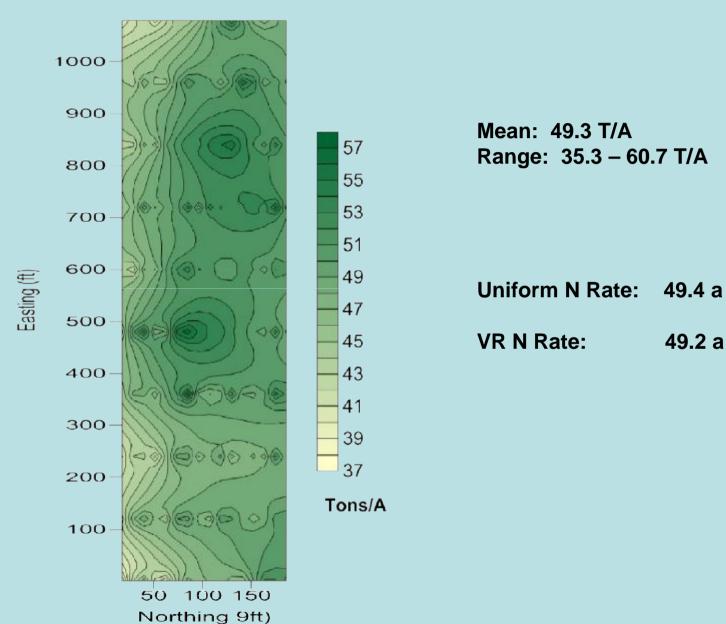
Uniform N Rate: 90 lb N/A

VR N Rate: 80, 90, 100 lb N/A

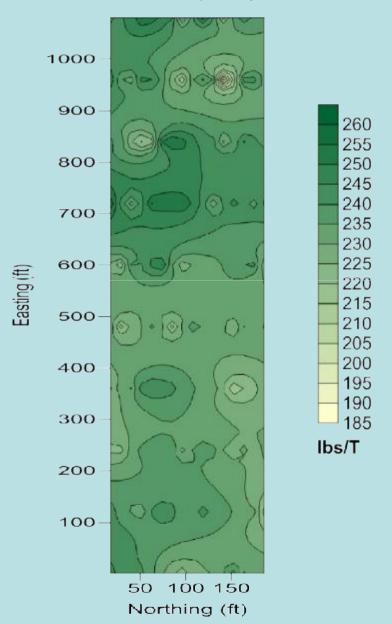
Plots: 6 rows x 1,200 ft

4 replications

Acadia VR N Experiment 2012 HoCP 96-540, PC, Tons/A



Acadia VR N Experiment 2012 HoCP 96-540, PC, TRS



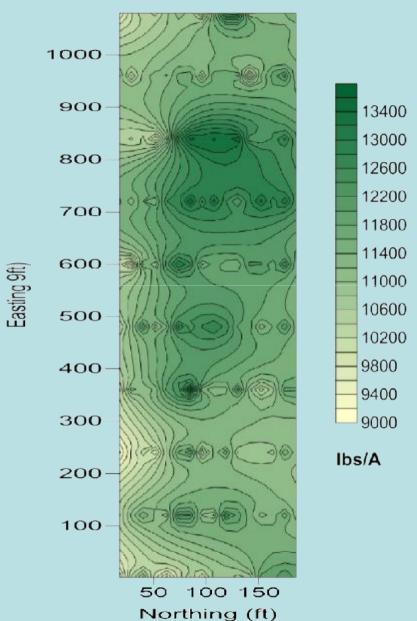
Mean: 236 lb/T

Range: 202-264 lb/T

Uniform N Rate: 235.8 a

VR N Rate: 235.7 a

Acadia VR N Experiment 2012 HoCP 96-540, PC, Sugar/A



Mean: 11,610 lb/A

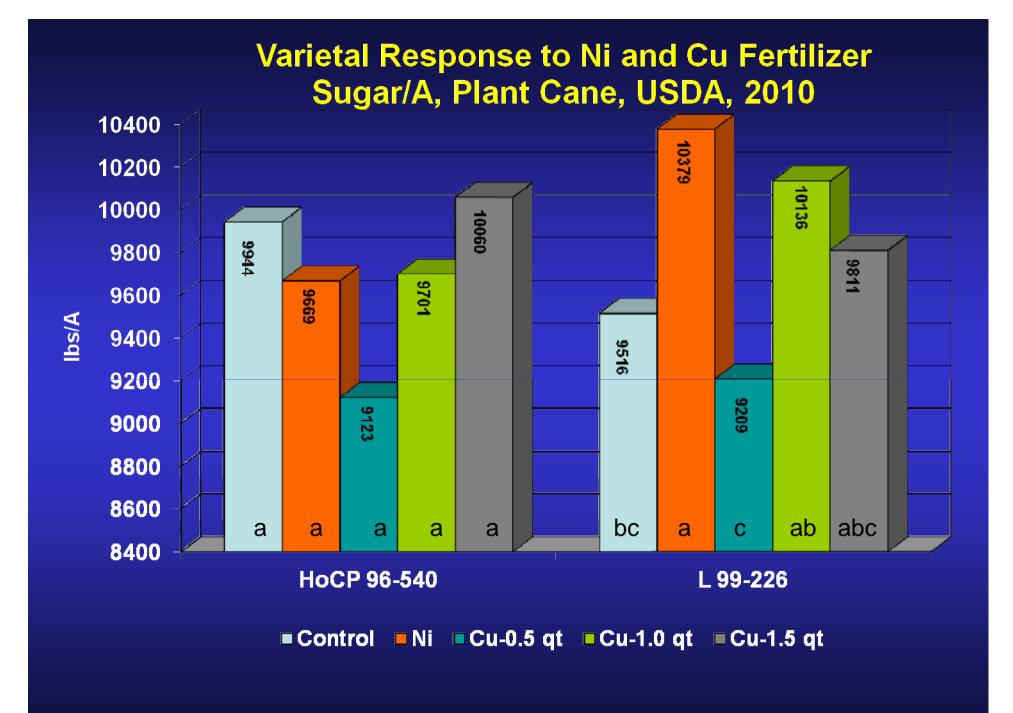
Range: 7,965-14,880 lb/A

Uniform N Rate: 11,638 a

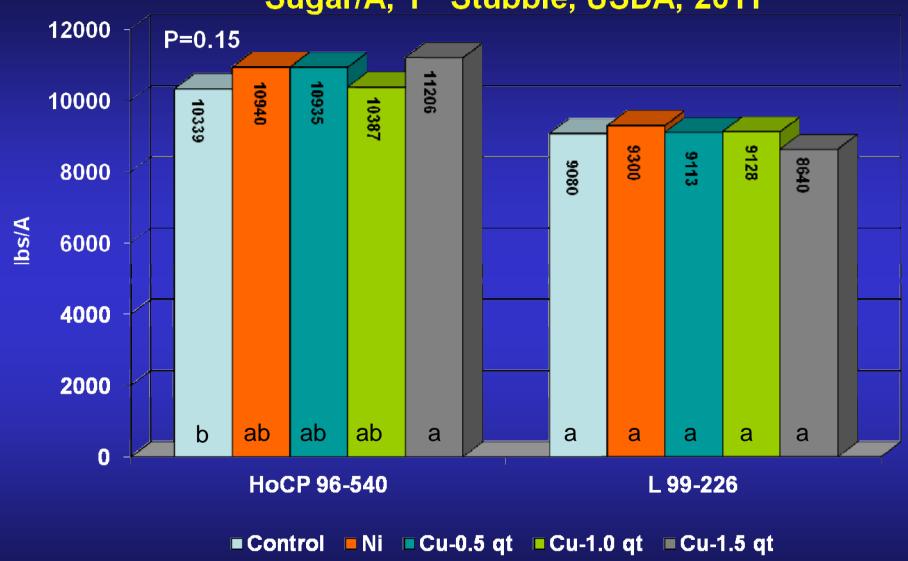
VR N Rate: 11,579 a

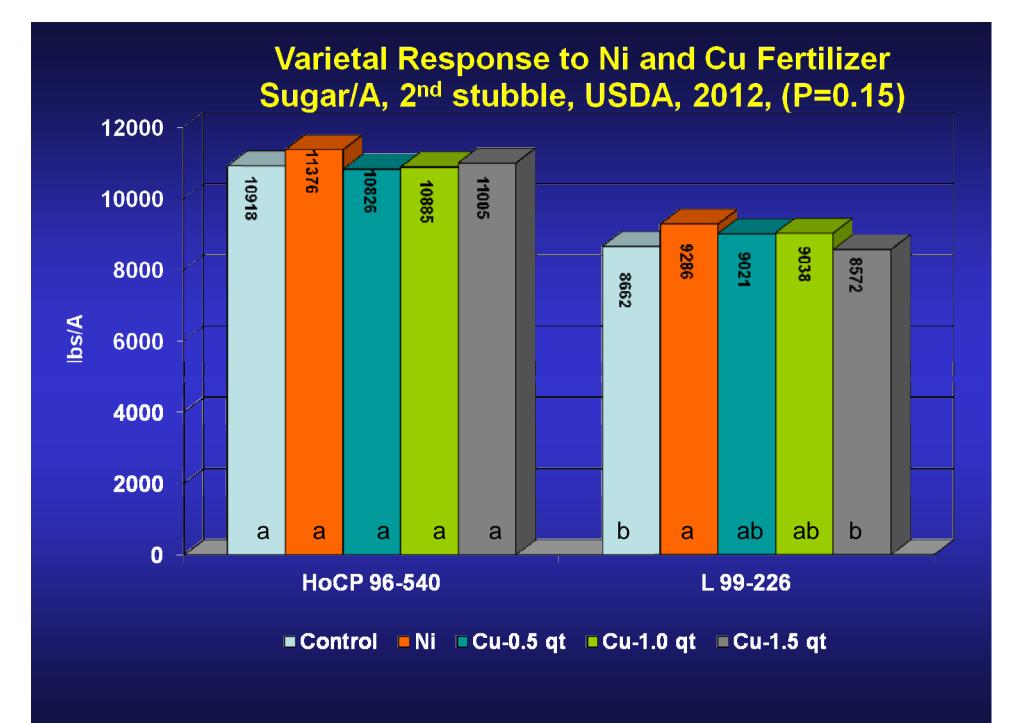
Copper and Nickel Fertilizers

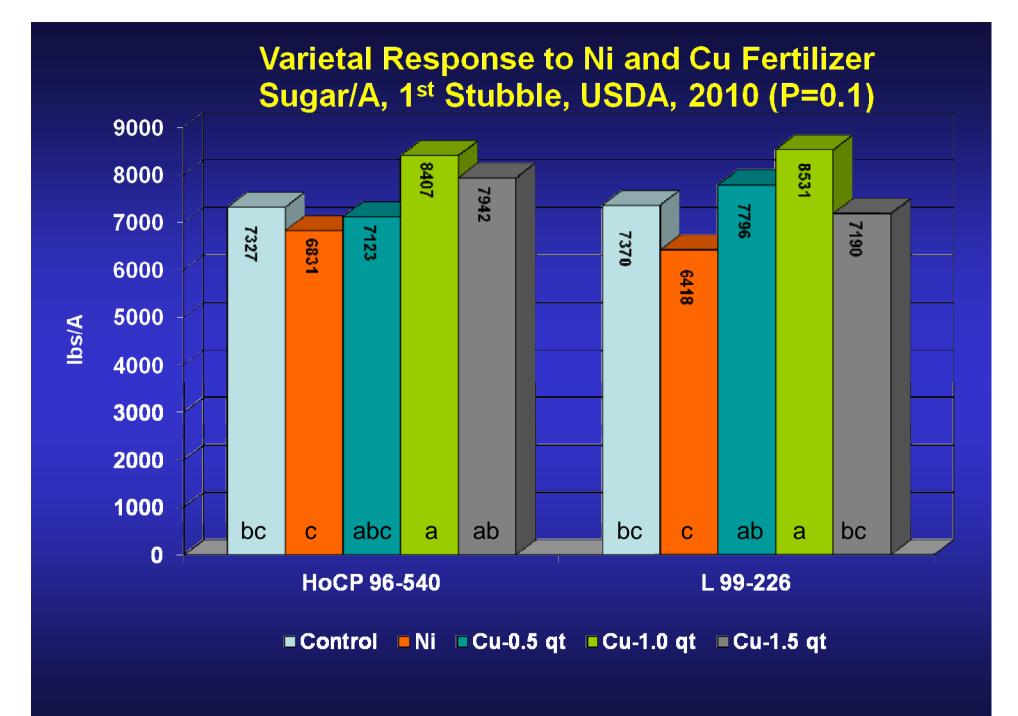
- May help with plant disease resistance.
- Important in metabolism of nitrogen.
- Important in photosynthesis and respiration.
- Foliar applied: 2x in May and June
 - Keylate Copper: 0.5, 1, 1.5 qt/A,
 - Nickel Plus: 300 ppm
- Varieties: HoCP 96-540, L 99-226
- Reps: 6

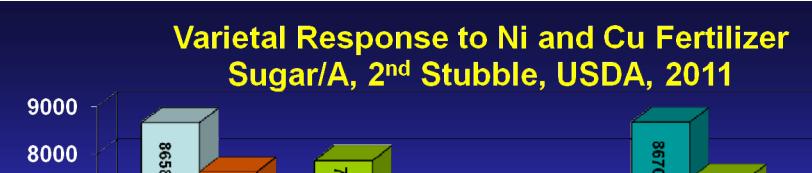


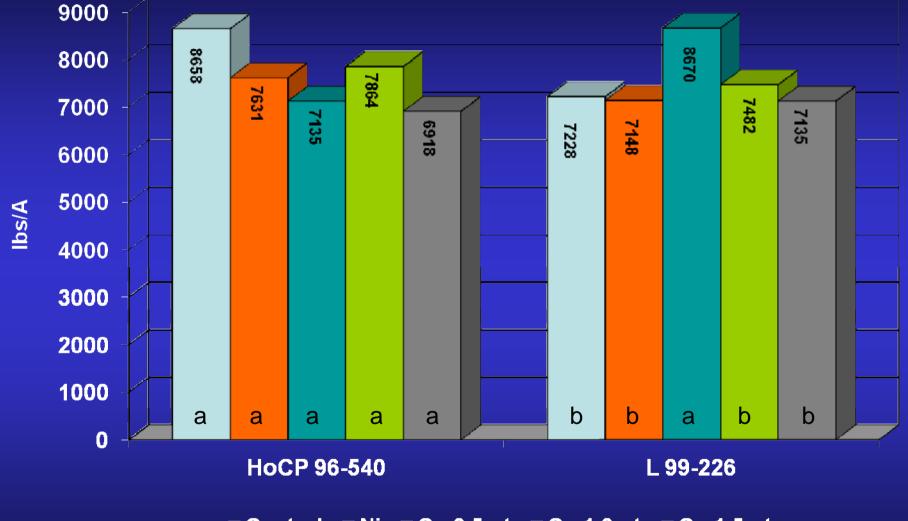
Varietal Response to Ni and Cu Fertilizer Sugar/A, 1st Stubble, USDA, 2011











■ Control ■ Ni ■ Cu-0.5 qt ■ Cu-1.0 qt ■ Cu-1.5 qt

USDA/LSU, Copper and Nickel Study

- Foliar applied: 2x in April and May
 - Keylate Copper: 1, 1.5 qt/A,
 - Nickel Plus: 300 ppm
 - Manniplex Nickel: 1 pt/A
 - Headline: 9 oz/A
- Variety: HoCP 96-540, PC
- Reps: 6

Response to Ni and Cu Fertilizer Tons/A, HoCP 96-540, Plant cane, USDA/LSU, 2012

