ABIOTIC STRESS

Can we reduce yield drag caused by abiotic stress?

TYPES OF CROP STRESS

- 1. TOO WET
- 2. TOO DRY
- 3. TOO COLD
- 4. TOO HOT
- 5. CROP DISEASE
- 6. HERBICIDES

- 7. FUNGICIDES
- 8. INSECTICIDES
- 9. ??????? YOU NAME IT

STRESS CAUSES A CASCADE OF CROP PROBLEMS

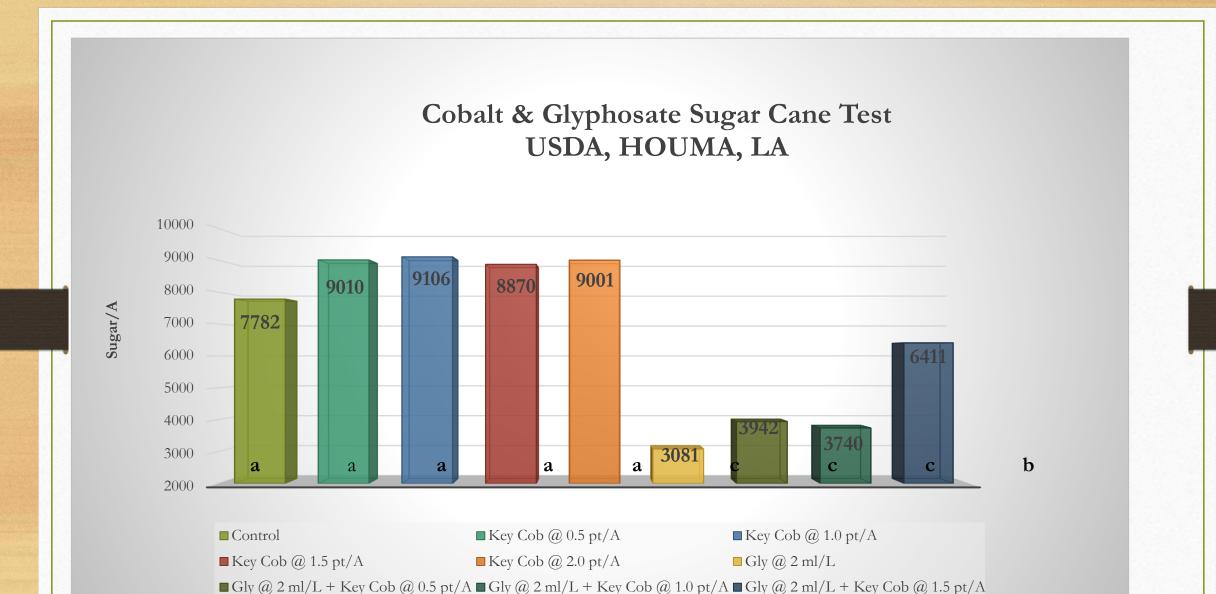
- 1. LIMITES ROOT GROWTH.
- 2. REDUCES SKELETAL STRUCTURE.
- 3. CAUSES FRUIT ABORTION.
- 4. ATTRACTS INSECTS.
- 5. SETS UP DISEASE
- Abiotic stress limits the production of normal plant growth through the destruction of new cells.

ROOT OF THE PROBLEM

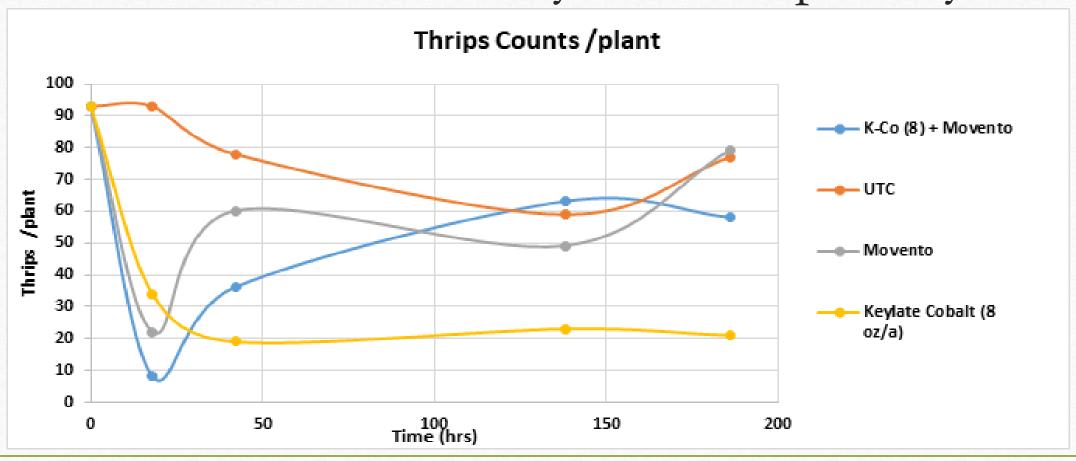
- WHEN A PLANT IS UNDER STRESS IT WILL PRODUCE DISTRUCTIVE ENZYMES THEREFORE WE SHOULD INTERRUPT THE PRODUCTION OF THESE ENZYMES.
- High blood pressure in a person is controlled with blood pressure pills. Plants have similar problems and we can help the plant with these problems. We have blood pressure pills for plants.

THANK YOU





Penn State University GH Thrip Study



BASF Soybean rust study

CONTROL: 1439 Kg/Ha 21.4 bu/A

HEADLINE: 1782 Kg/Ha 26.5 bu/A

Keylate Cobalt: 1760 Kg/Ha 26.1 bu/A

Headline + K. Cobalt 2490 Kg/Ha 37 bu/A