

# Varietal Response to Ripener Application

#### Study Information:

- Ripener: Roundup PowerMax
- ; Rate: 5.3 oz/A
- Reps: 4

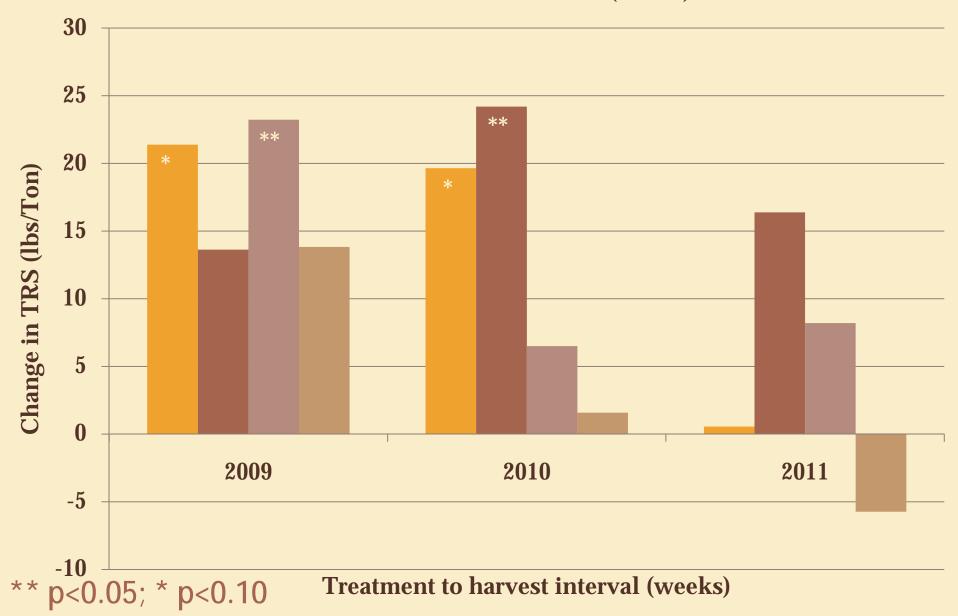
#### Application Dates:

- ú Aug 24, 2009
- ú Sept 3, 2010
- ú Aug 22, 2011
- ¡ Harvest: Hand-cut
  - ú 4, 5, 6, and 7 at weeks

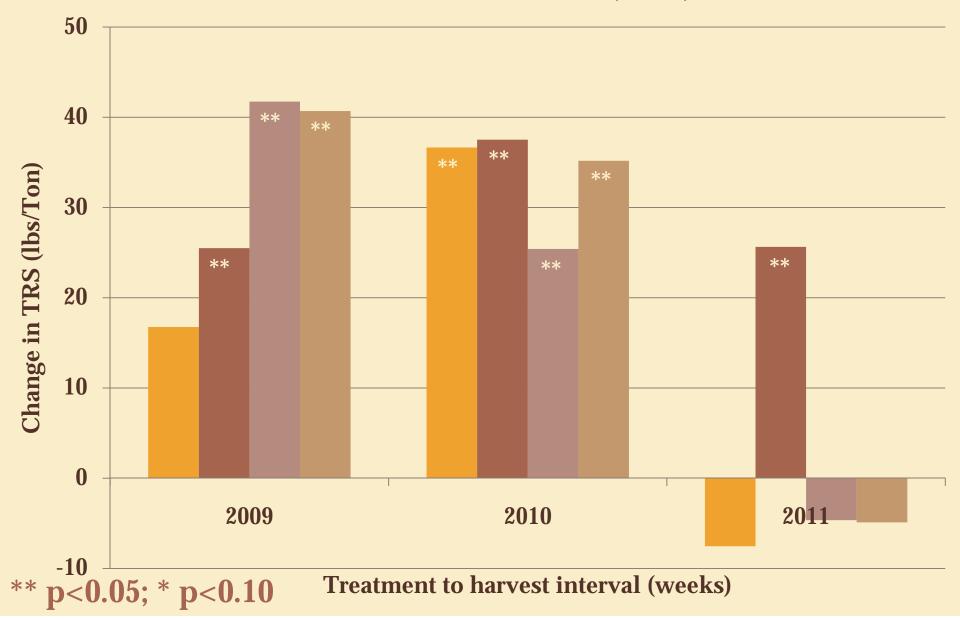
#### Varieties Tested:

- ; Ho 95-988
- : HoCP 96-540
- i L 97-128
- L 99-226 (2010, 2011)
- i L 99-233
- ; Ho 00-950
- L 01-283
- L 03-371 (2010, 2011)

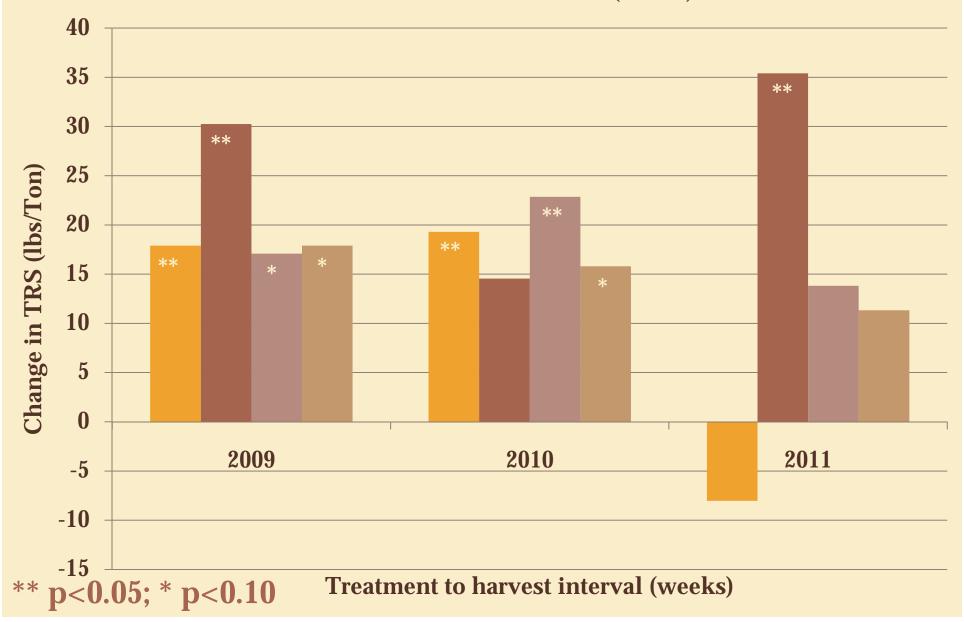
### Ho 95-988



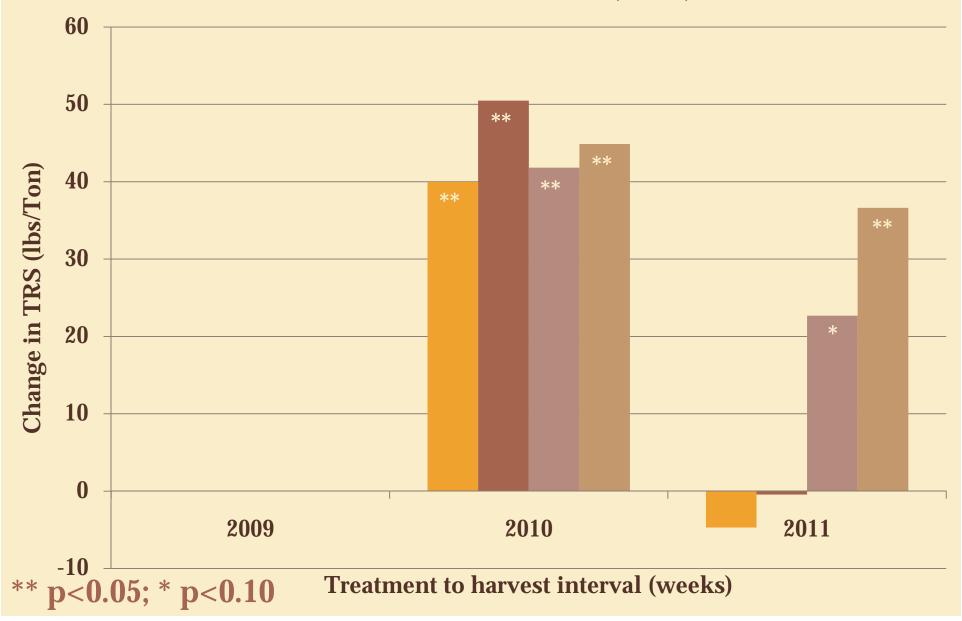
# **HoCP 96-540**



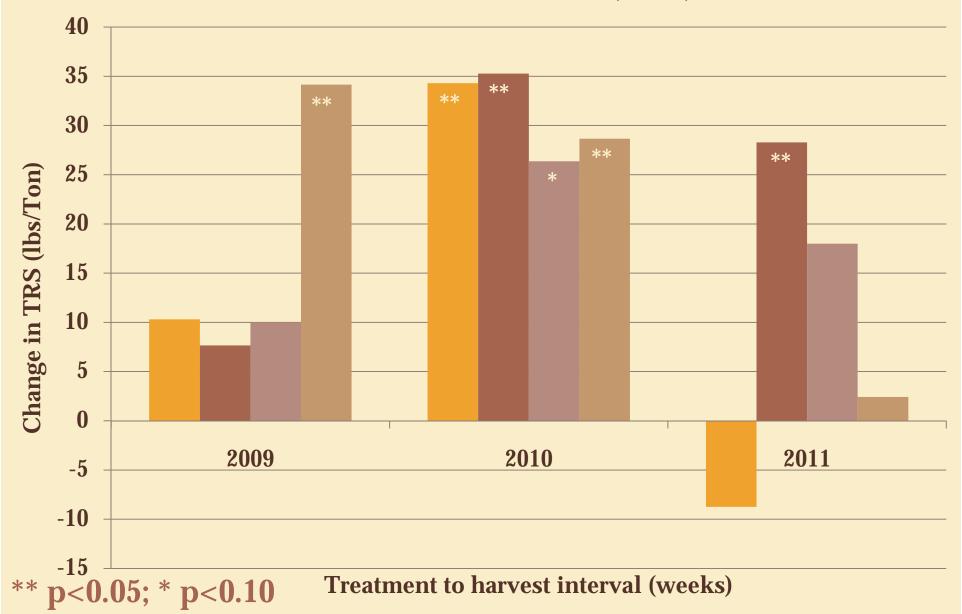
L 97-128



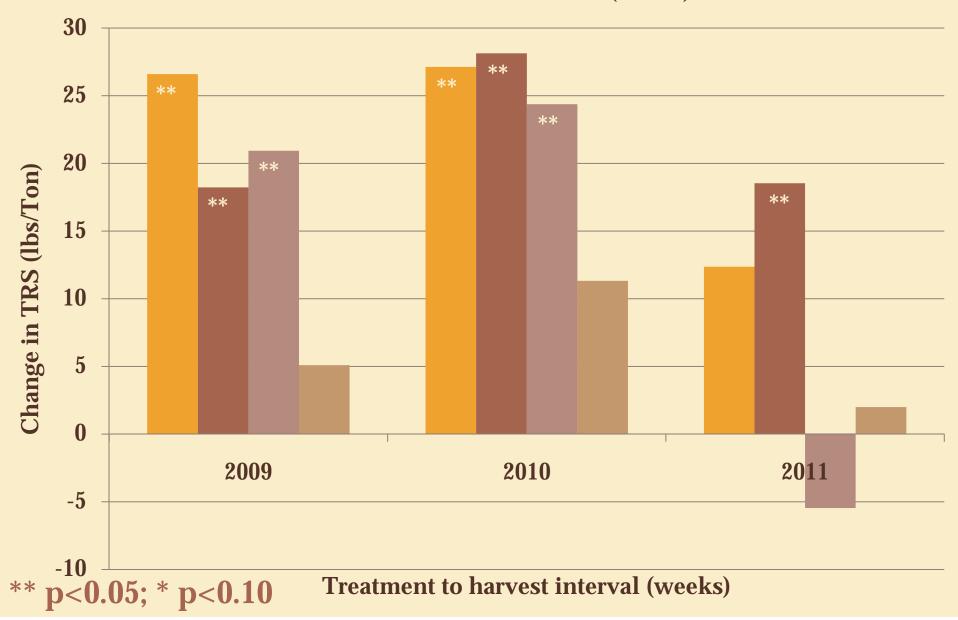
L 99-226



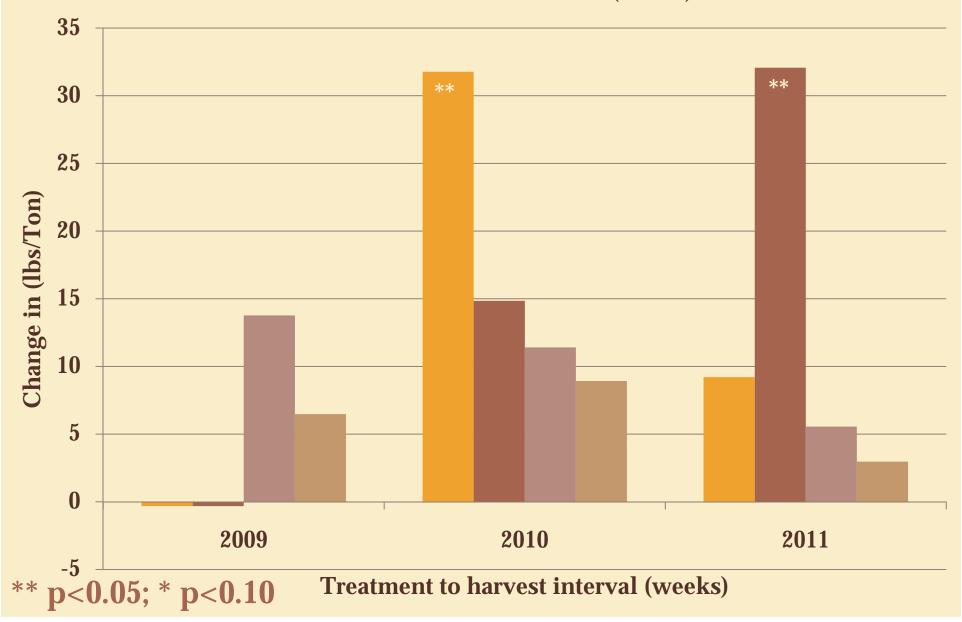
L 99-233



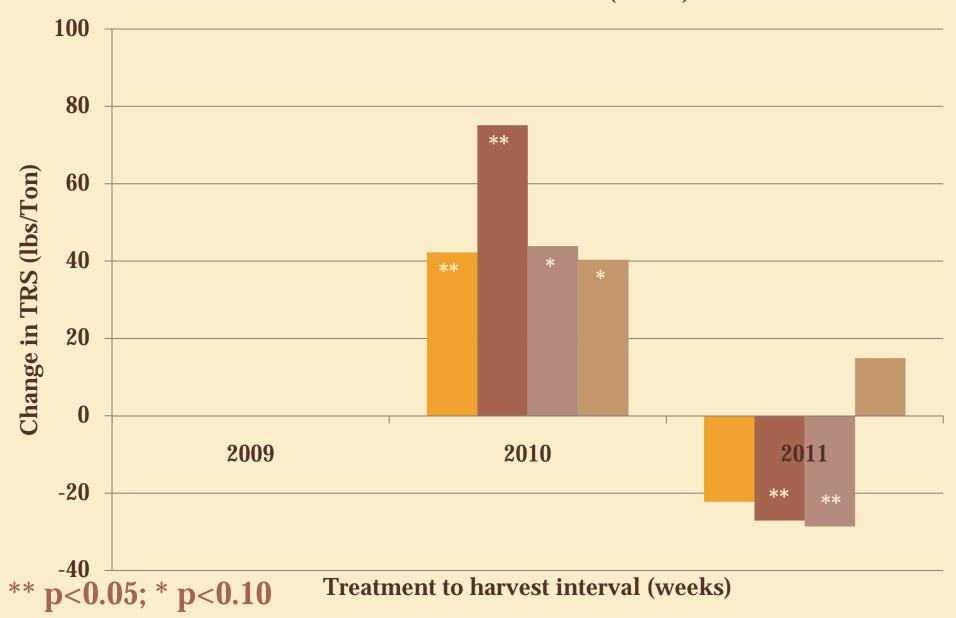
### **HoCP 00-950**



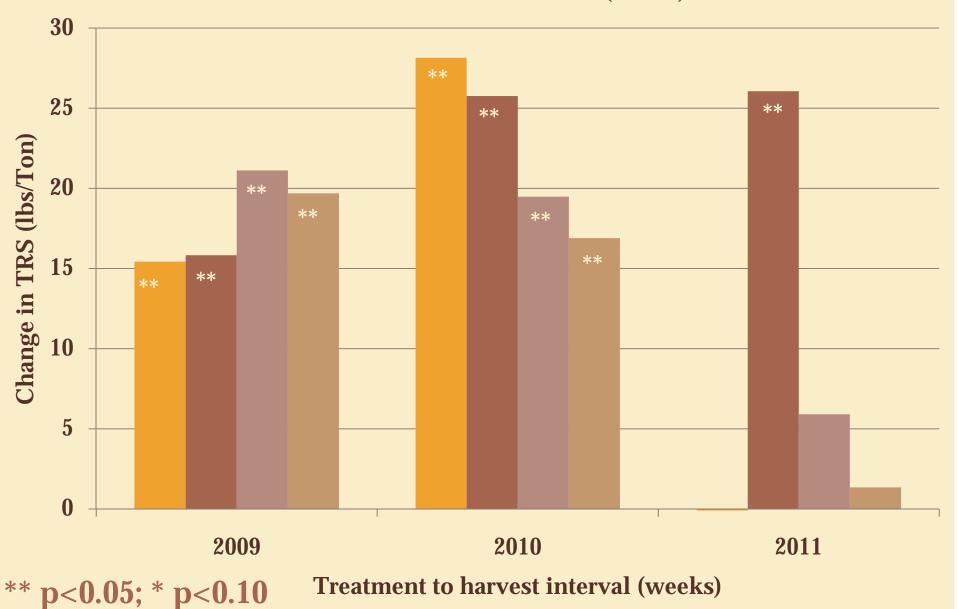
L 01-283



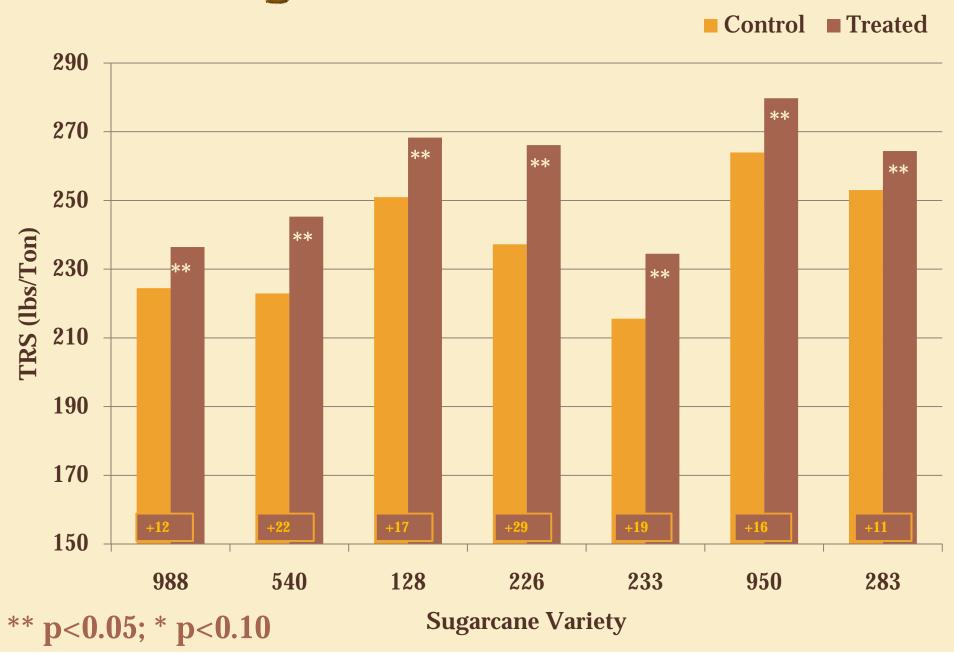
L 03-371



# Average of all varieties



# Average of 4 harvest dates



# Varietal Response to Glyphosate

HoCP 96-540

L 99-226

#### Sensitive (>20 lbs/T) Moderate (15-20 lbs/T)

L 97-128

i L 99-233

L 00-950

#### $\underline{Poor}$ (<15 lbs/T)

HoCP 95-988

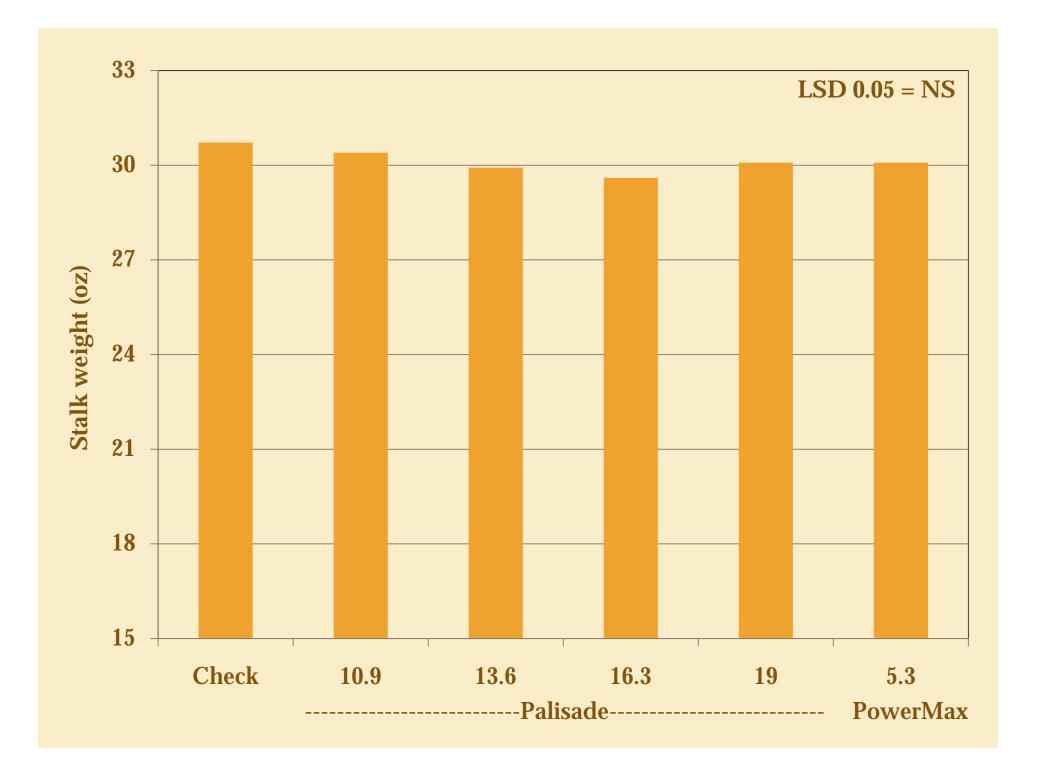
L 01-283

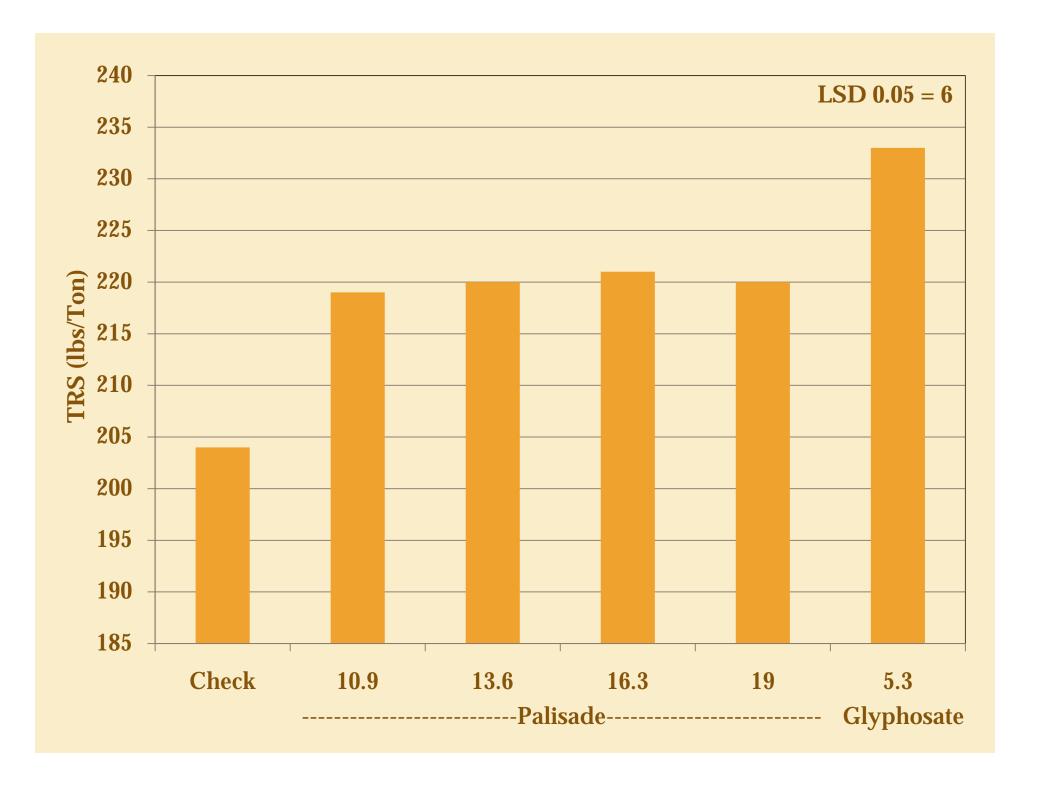
# Palisade (trinexapac-ethyl)

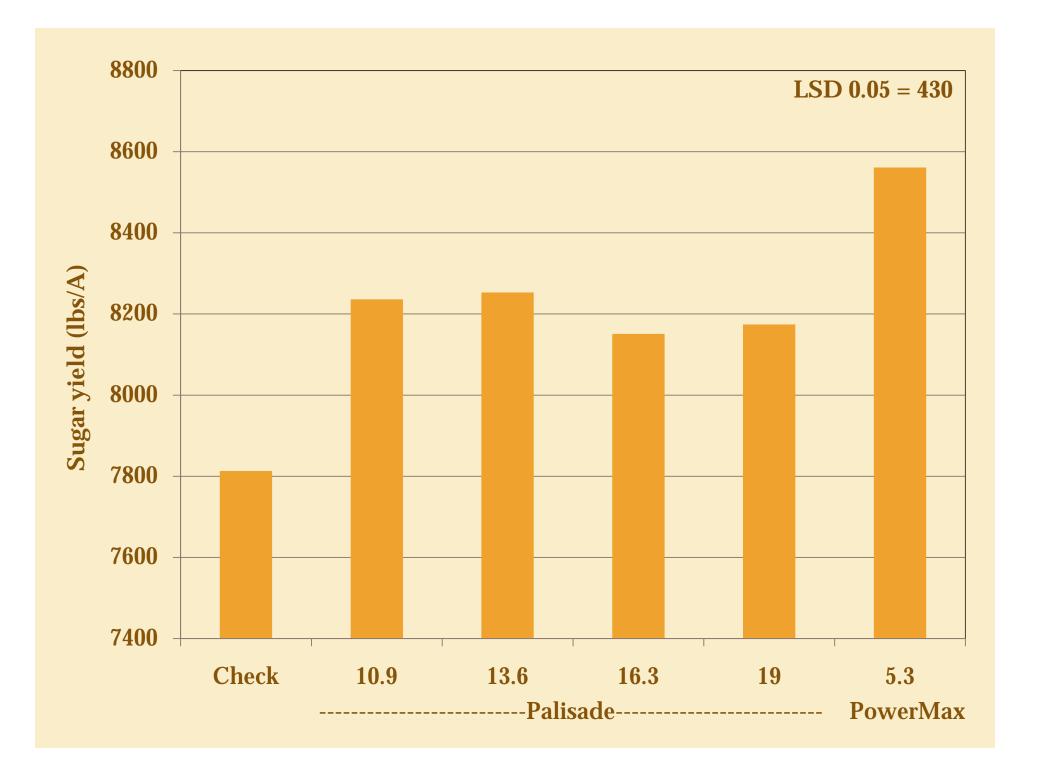
- Likely to be registered for 2012 harvest season
- " Is not an herbicide;
  - i It regulates cell elongation through inhibition of gibberellins
  - Results in short internodes (~one inch)
- Effects are temporary
  - Only 3 to four internodes are affected
- Should not impact subsequent stubble crops
  - Will not hurt cane if harvest is delayed
  - No observations of injury to cane emerging after application

# Palisade (trinexapac-ethyl)

- Trials with Palisade 2.1 EC at USDA-ARS
  - Nine studies conducted from 2004-2010
  - Rates evaluated: from 10.9 to 19 oz/A
  - **i** Compared to glyphosate
    - ú 5.3 oz Roundup PowerMax
    - ú 6 oz Polado L
    - ú 5.7 oz Touchdown Total
  - Most trials were conducted in HoCP 96-540, but also in LCP 85-384 and L 97-128







# Palisade (trinexapac-ethyl)

#### Will increase TRS in sugarcane

- May not increase TRS as much as glyphosate
  - ú 16 lbs/Ton increase vs 29 lbs/Ton
  - ú Some varieties may respond better
- Risk to crop will be less
  - ú Could be used in plant cane
  - ú No injury due to drift

#### Research needed

- **Varietal response to Palisade**
- Effects of repeated annual applications through complete crop cycle
- Sugarcane response to timing of application during harvest season (early, mid, late)
- Possible tank-mixes that may improve performance

