

# To Shred, Clip, Bushhog, etc.

Ryan Viator, Wendell Jackson, Herman Waguespack, and Blaine Viator



# Date of shred

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**-no-shred**

**-Jan 15**

**-Feb 1**

**-Feb15**

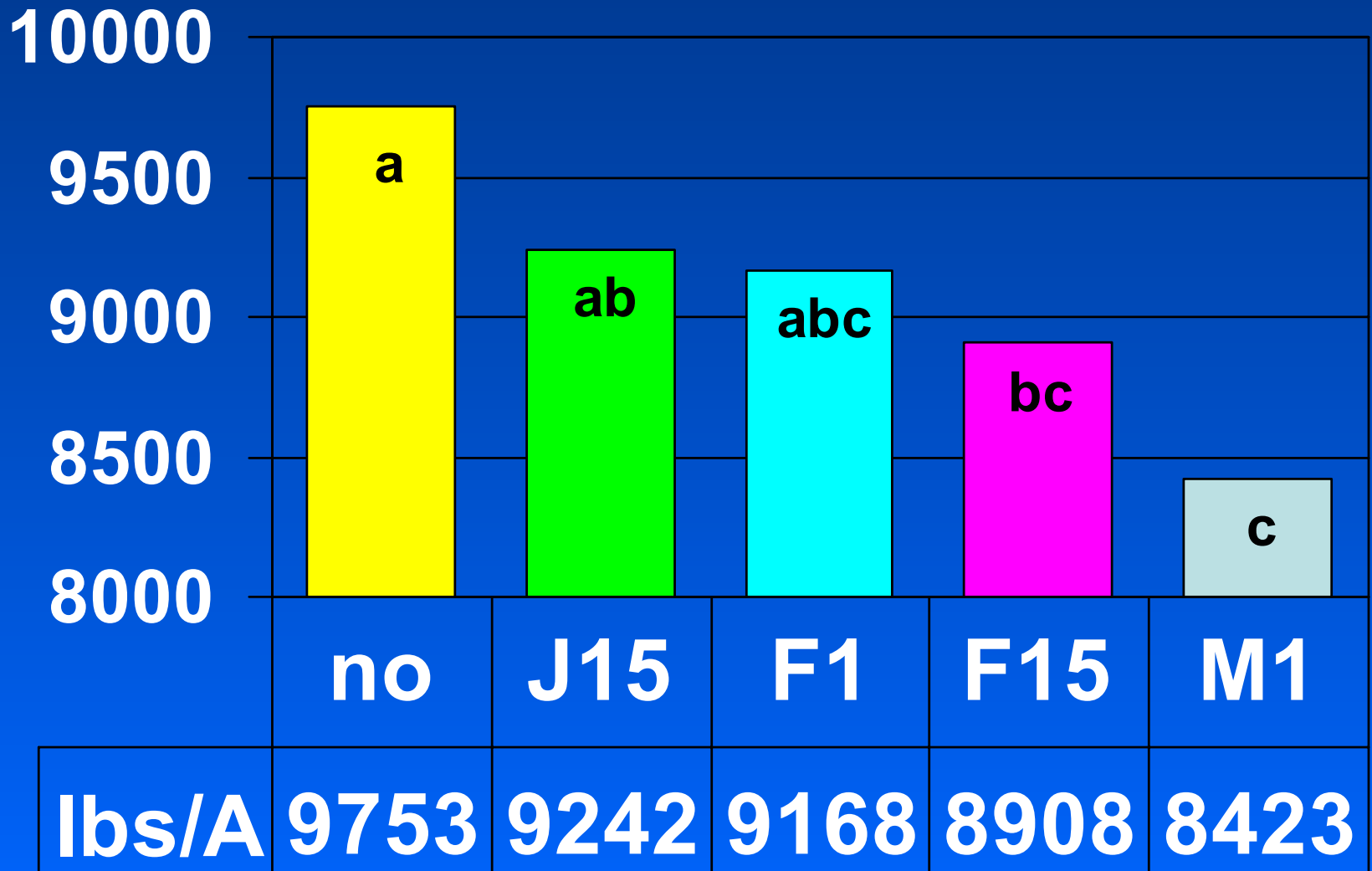
**-Mar 1**

**-1<sup>st</sup> stubble**

**-150 ft plots**

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# Sugar



# Shredding with 540 & 128

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-No shred

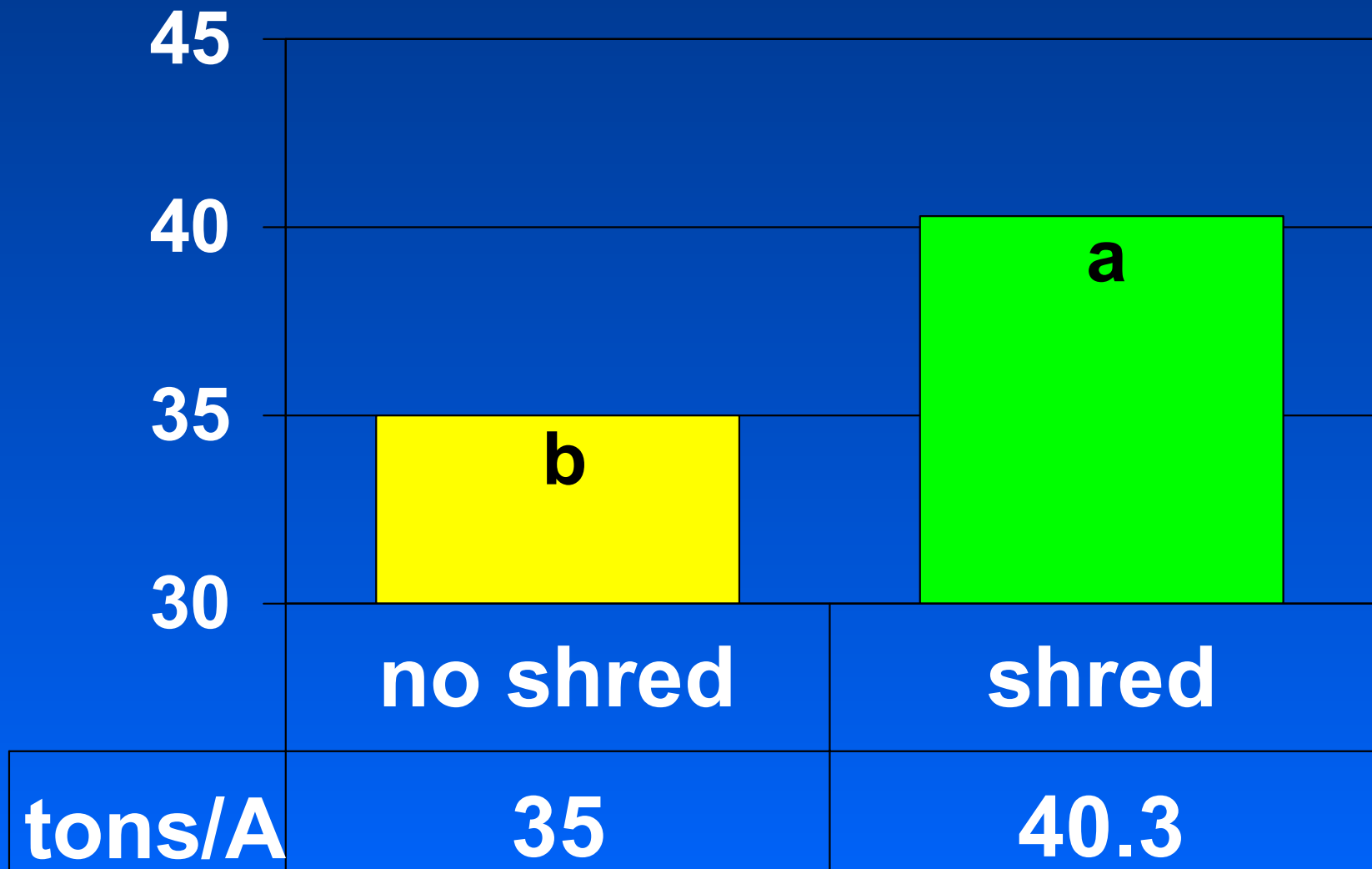
-Shred

-1<sup>st</sup> stubble (taken for seed as plant cane)

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# 540 Tons

( $p < 0.05$ )



# 128 tons

( $p < 0.05$ )





# Things to consider...

- **RSD**
- **Stubble damage**
- **Timing**
- **Burning**





Can shred new varieties...not like 384.





# Conservation Tillage

A green John Deere tractor is shown from a front-three-quarter view, pulling a yellow conservation tillage implement (likely a strip-till planter) through a field. The tractor has large, treaded tires and a prominent green grille. The implement is a long, yellow frame with multiple planting units. The field contains rows of young green corn plants. The background shows a clear blue sky and a line of trees in the distance.

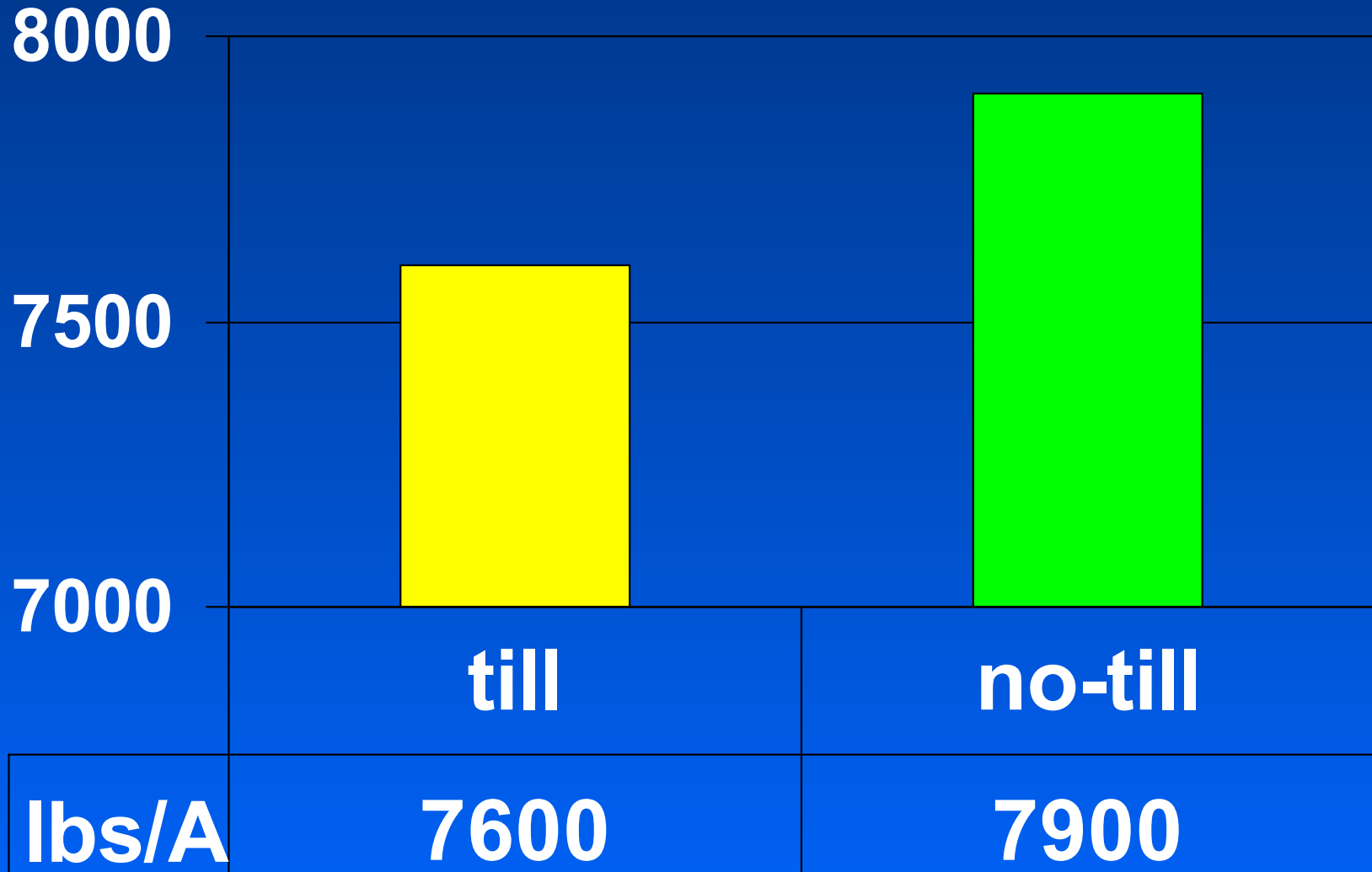
**Ryan Viator and Richard Johnson**

# Conservation Tillage

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- no-till and standard tillage for one year
  - plant cane, 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> stubble
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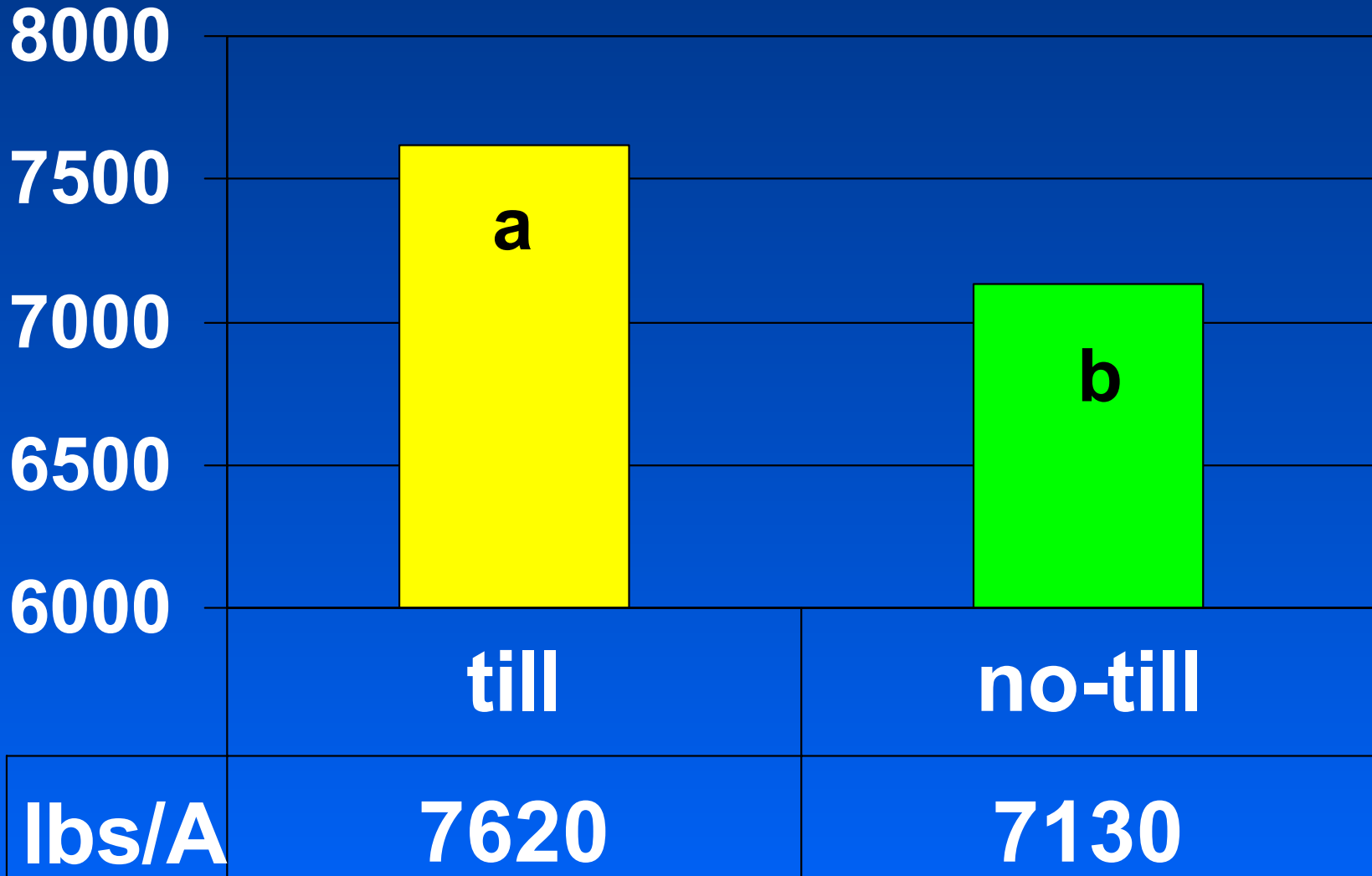
# Plant cane





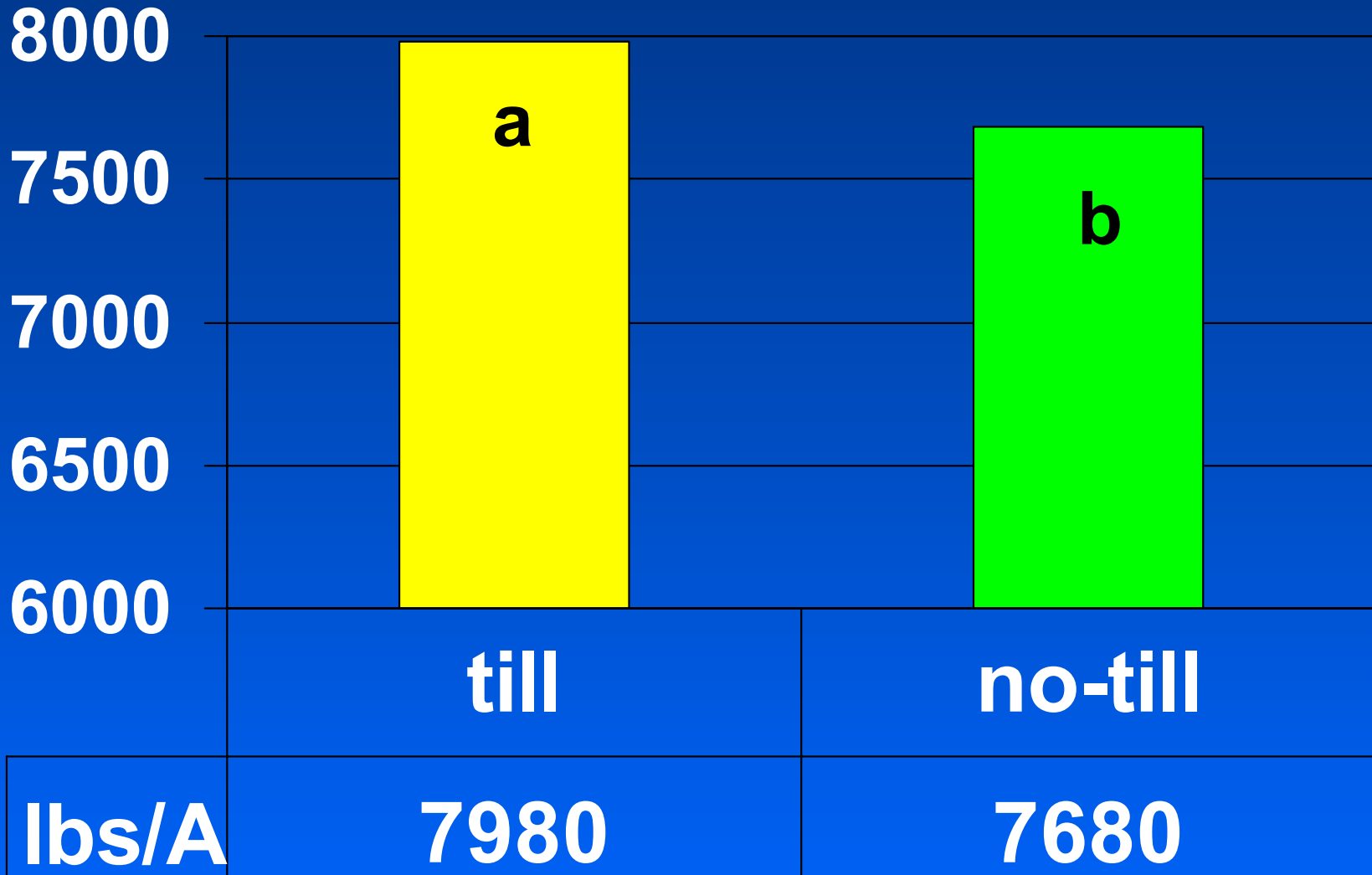
# 1<sup>st</sup> stubble

(p<0.05)



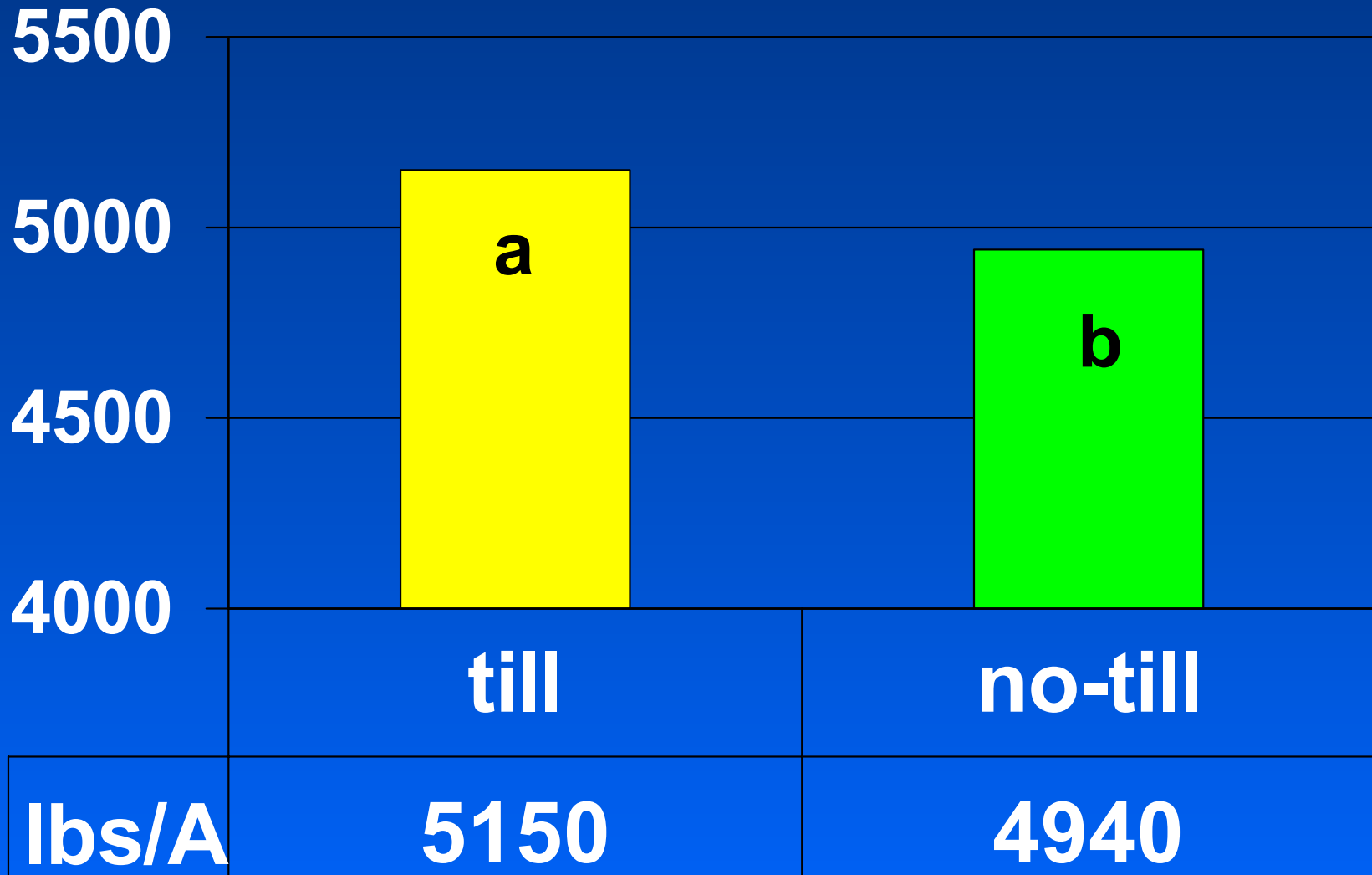
# 2<sup>nd</sup> stubble

(p<0.05)



# 3rd stubble

( $p < 0.05$ )





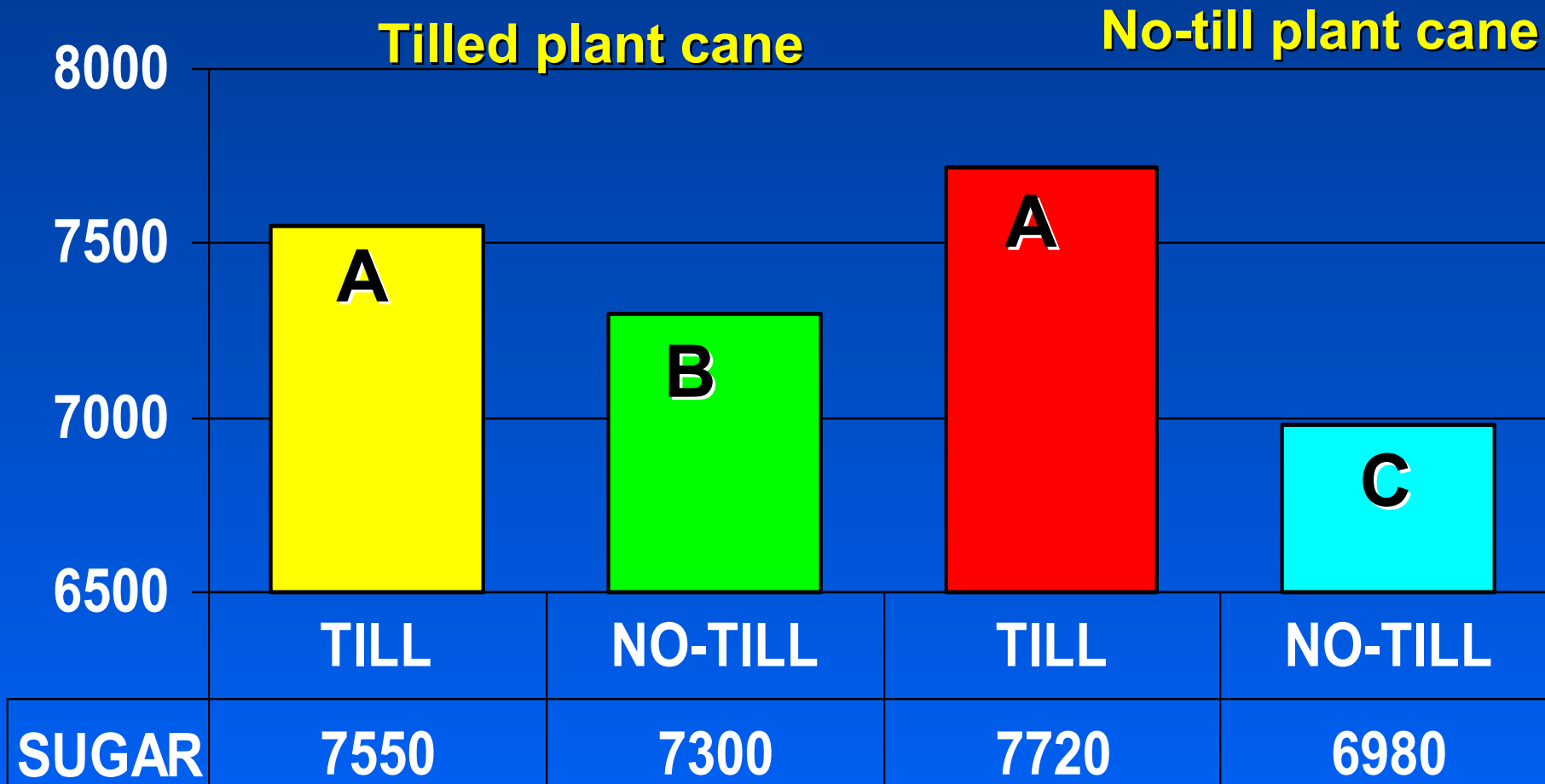
# Conservation Tillage

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- Multiple years
  - Whole cycle
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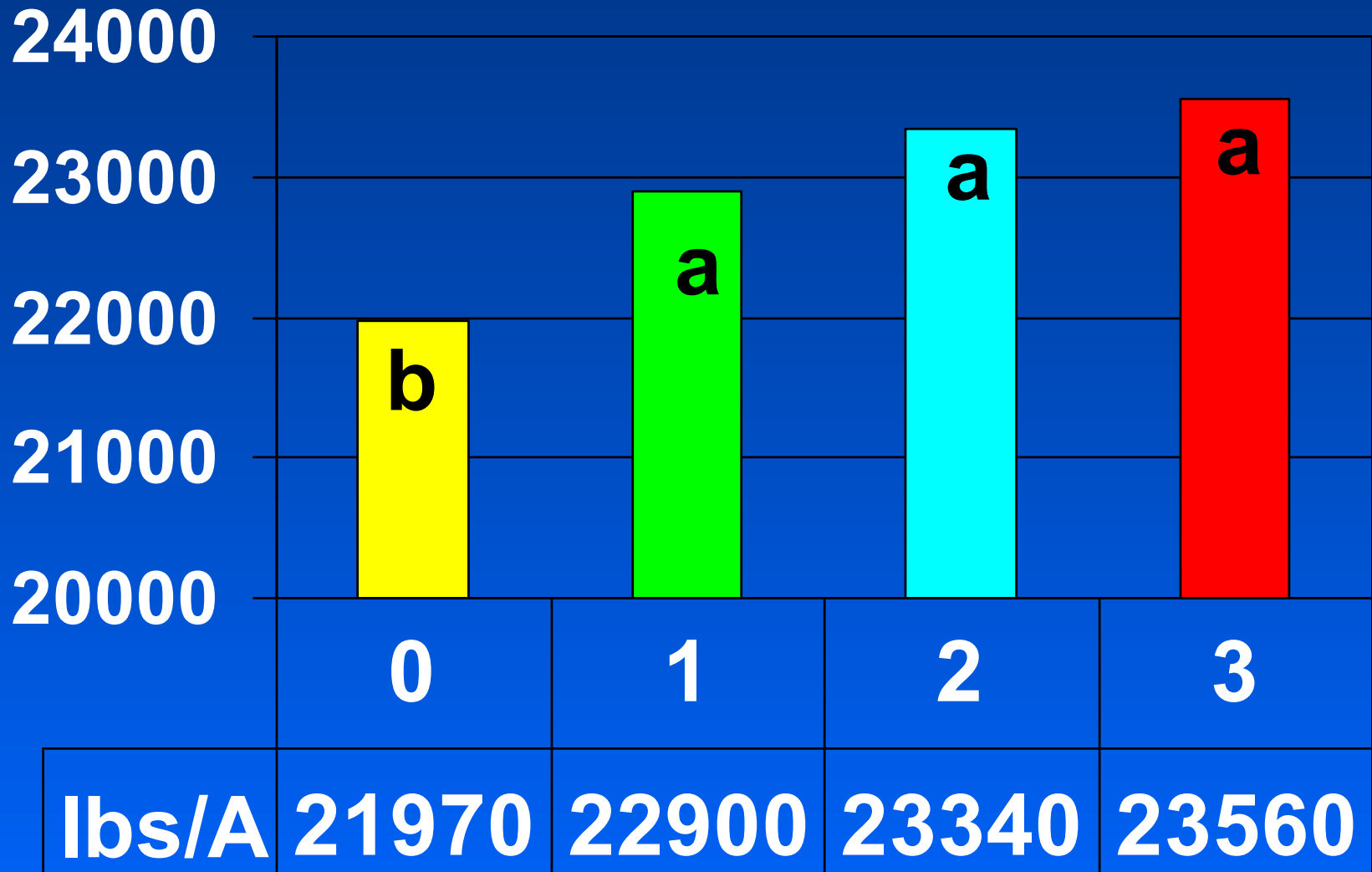
# 1<sup>st</sup> Stubble sugar yield

( $p < 0.05$ )



# Plant, 1<sup>st</sup>, 2<sup>nd</sup> sugar yields

( $p < 0.05$ )





# Summary

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**-Plant cane may be no-tilled.**

**-Need tillage for stubble crops...especially if perennial weeds are present.**

**-The more consecutive years no-tilled, the greater the yield loss.**

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# Sugarcane Post-Harvest Residue Management in a Temperate Climate

**Ryan Viator, Rich Johnson, and Edward  
Richard, Jr.**





# Residue Removal Options

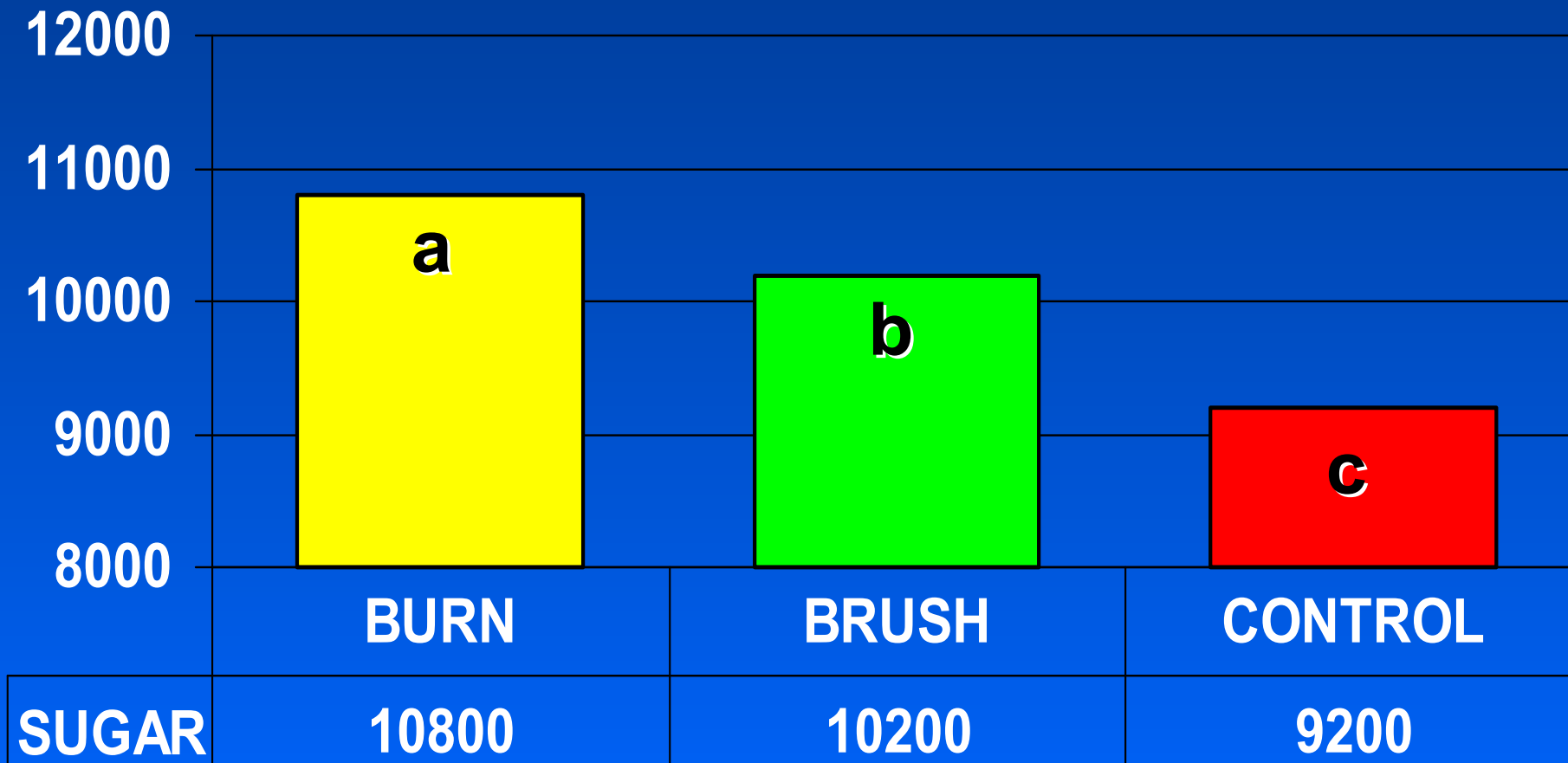


**LCP 85-384, Ho 95-988, HoCP96-540, L 97-128.**



# Sugar yield

( $p < 0.05$ )

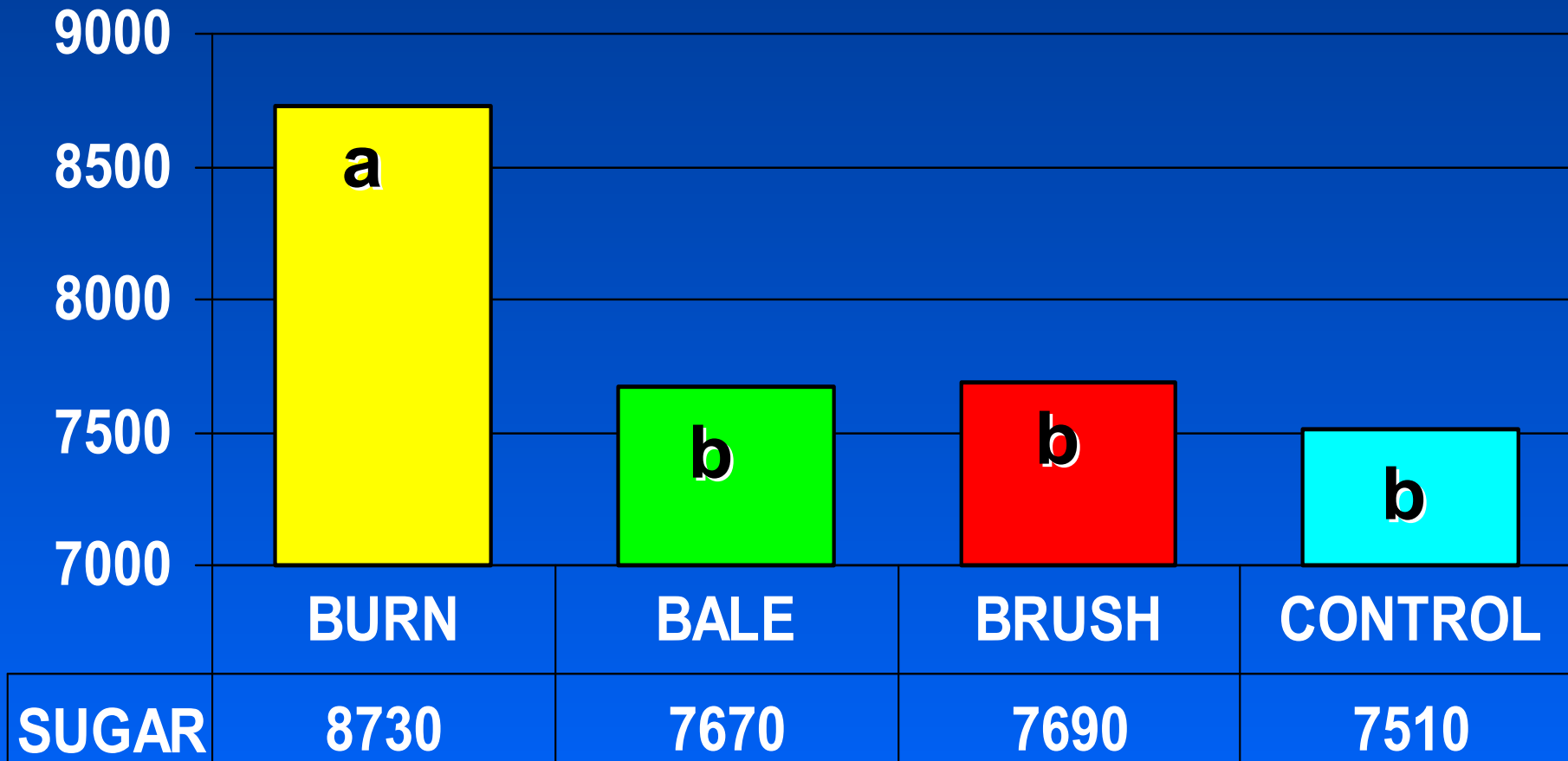


Heavy tonnage= more residue



# HoCP 96-540 sugar yield

( $p < 0.05$ )





# New Varieties

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-1<sup>st</sup> ratoon

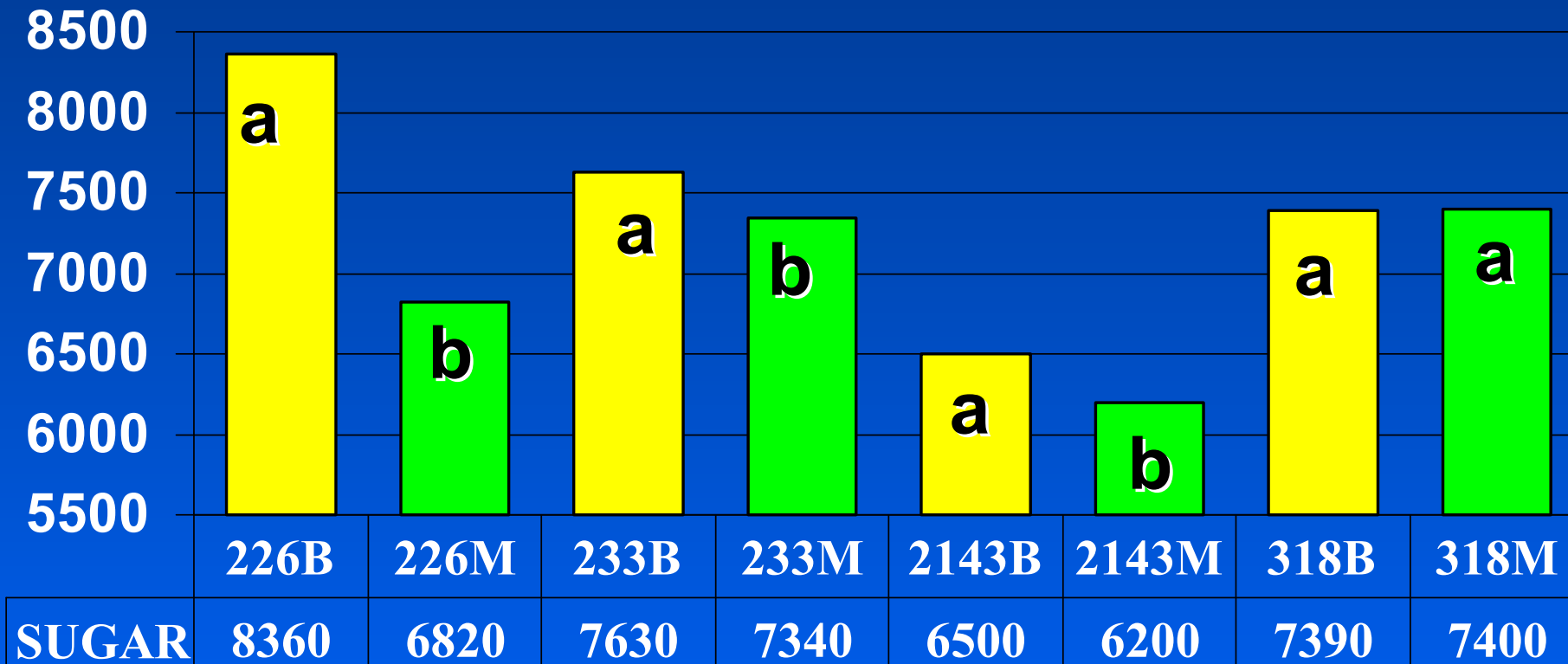
-Heavy soil

-Burn or full retention

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# Sugar yield

( $p < 0.05$ )



# Summary

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- Remove residue soon after harvest and before emergence.**
  - HoCP 96-540 and L 99-226 are sensitive.**
  - Most commercial varieties will show yield loss... L 99-233 and CP 79-318 may be tolerant.**
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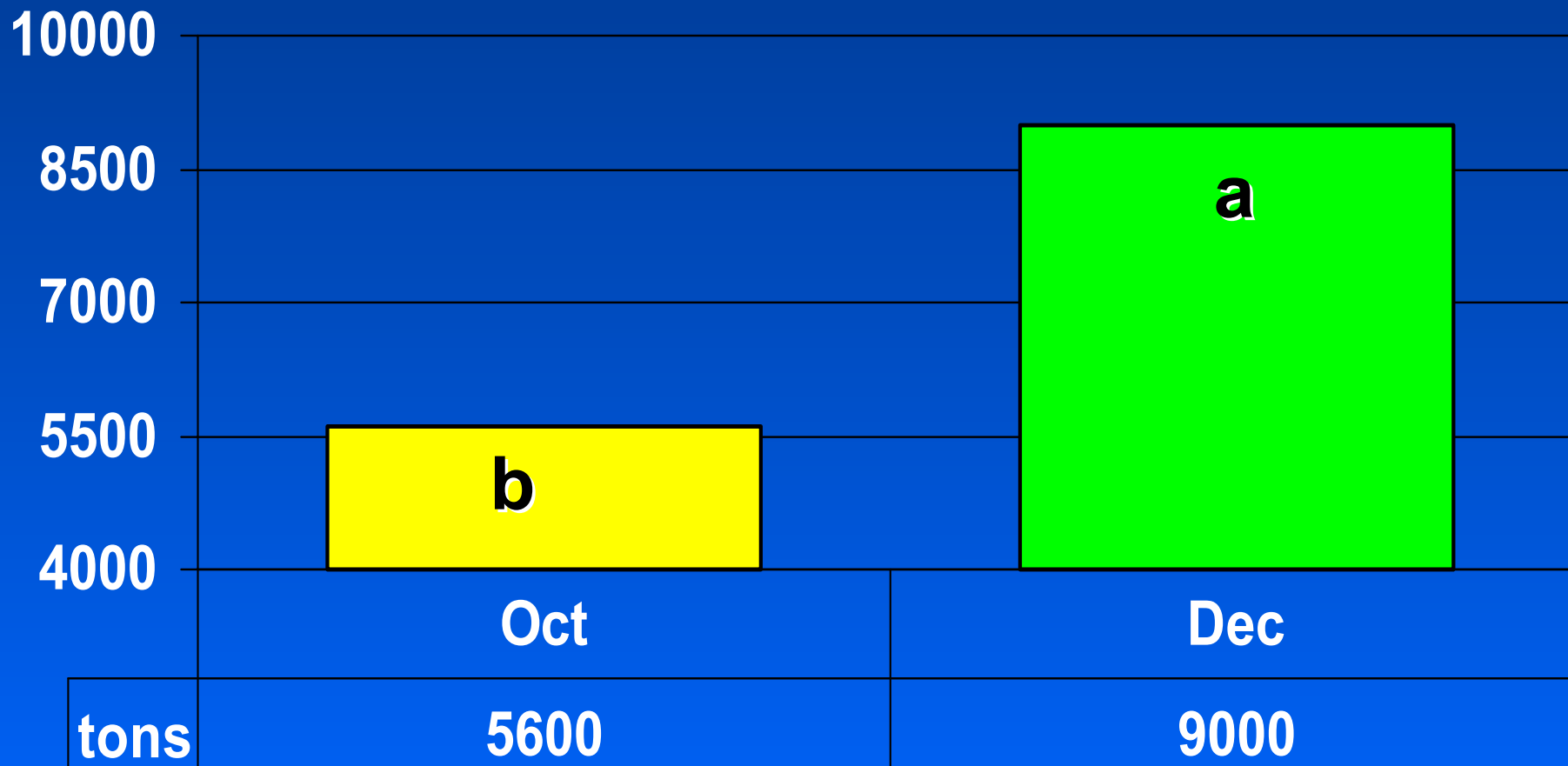
# Date of Harvest

**LCP 85-384, Ho 95-988, HoCP96-540, L 97-128.**



# Cane yield

( $p < 0.05$ )



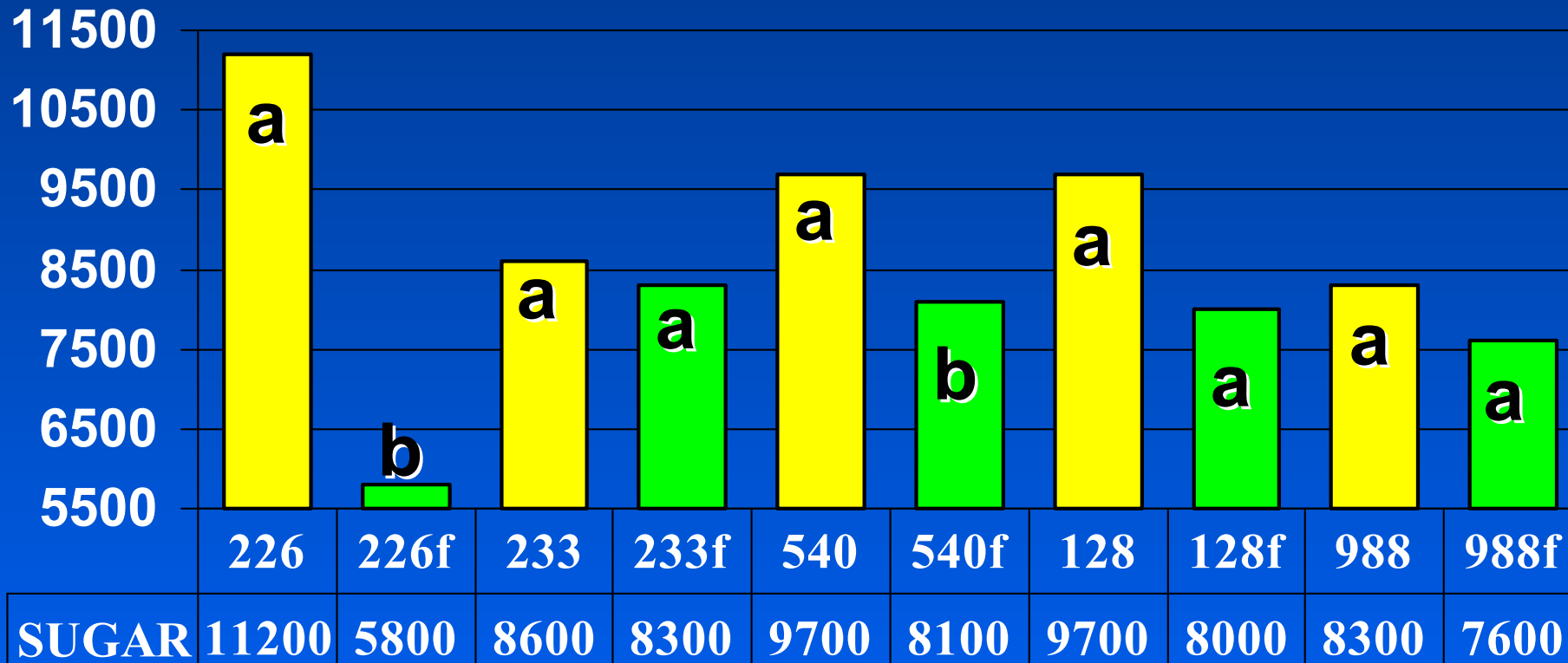


Flood Tolerance (Feb-Aug)  
5 days monthly; plant-cane



# Sugar yield

( $p < 0.05$ )



# Population

( $p < 0.05$ )

