

# Cultural Practices

R.P. Viator



# Tillage X Residue

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-Burn, brush, full retention

-Cultivated twice after residue trts.

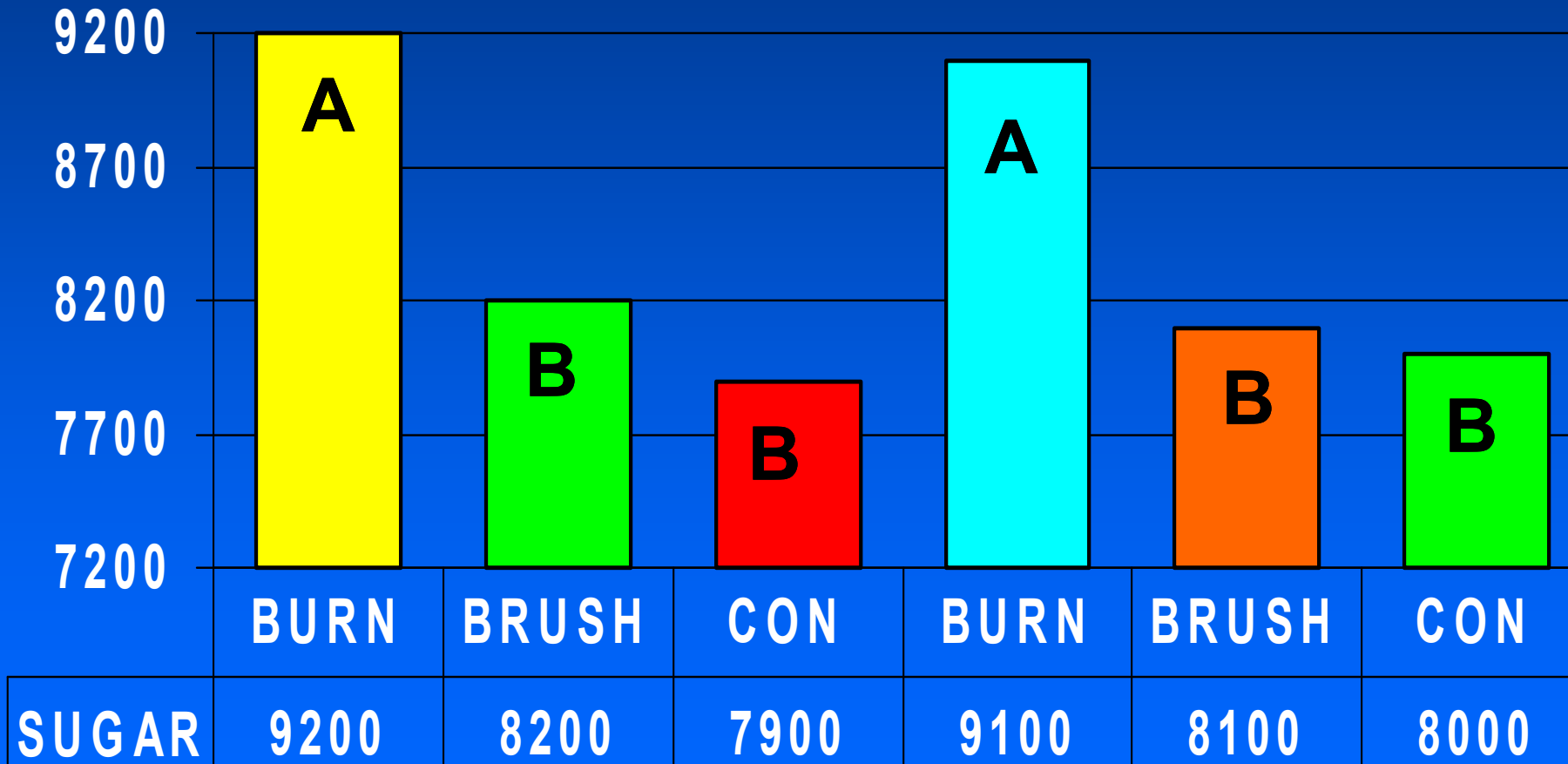
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# 1<sup>st</sup> Stubble sugar yield

( $p < 0.05$ )

Incorporation

None



# N rate X Residue

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- Burn, brush, full retention

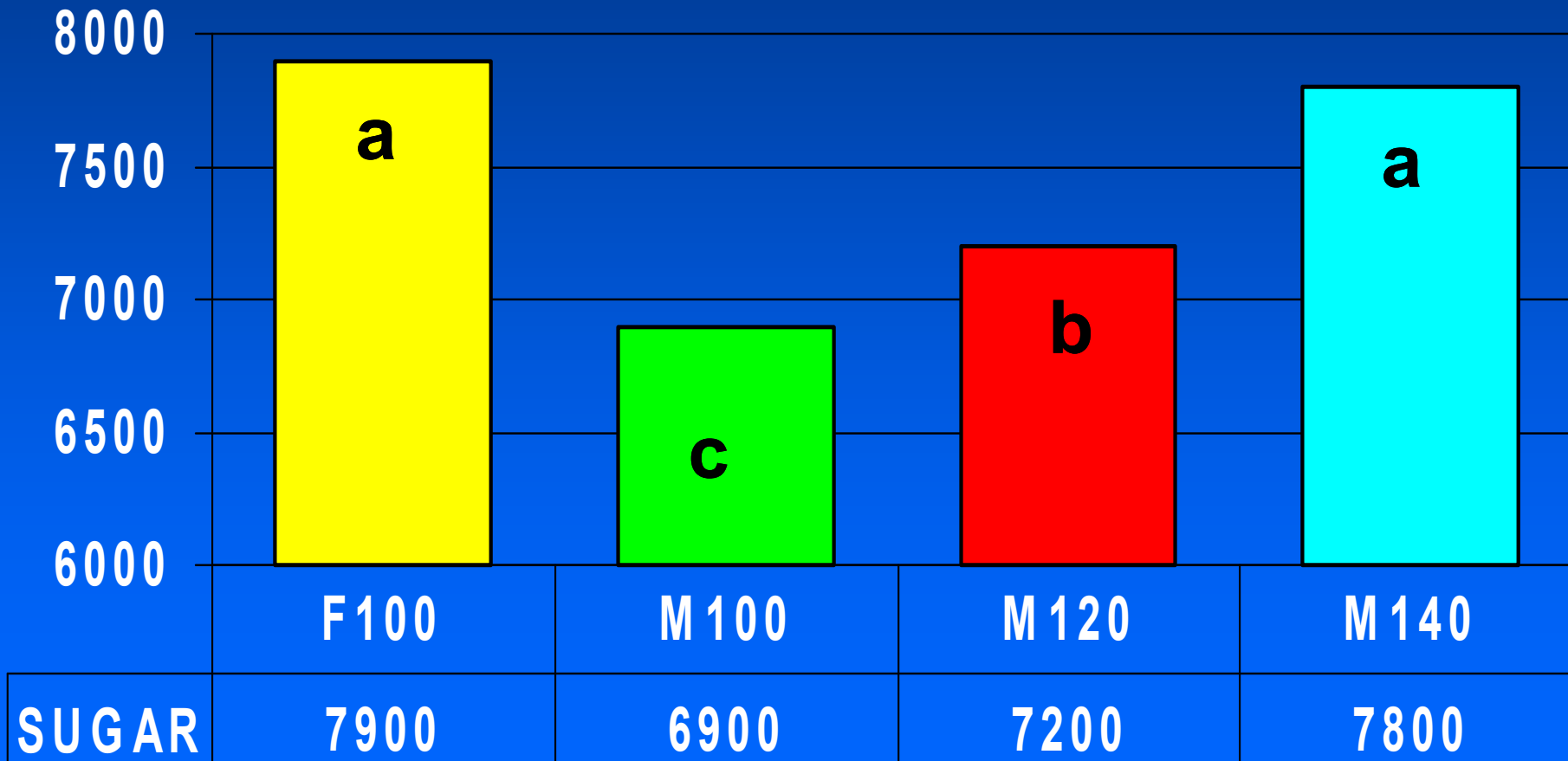
-100, 120, 140 lbs N

- HoCP 96-540

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# HoCP 96-540 sugar yield

( $p < 0.05$ )



# HoCP 00-950

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-Full retention or removed

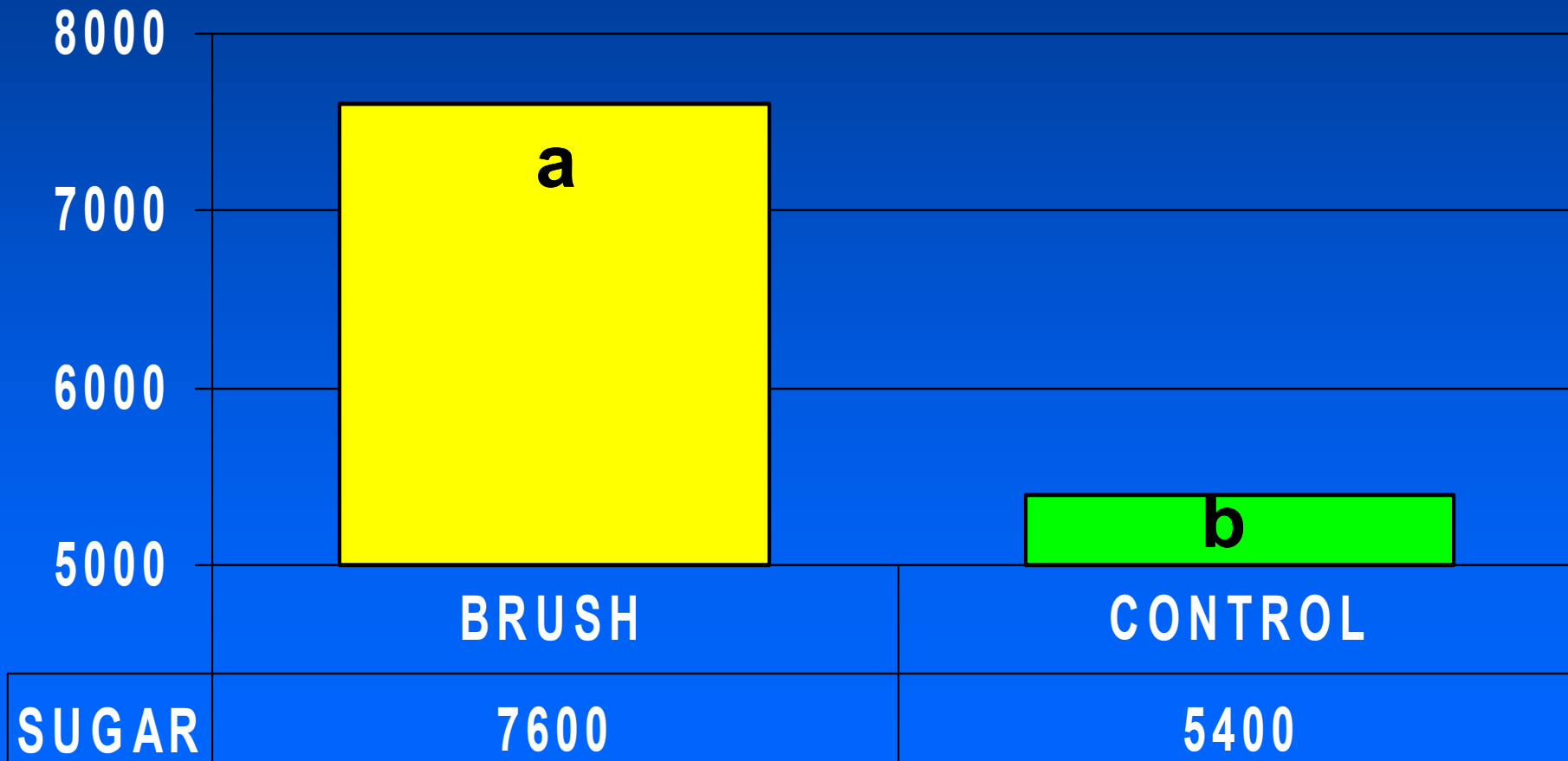
-2<sup>nd</sup> stubble

-Heavy land.

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# HoCP 00-950 sugar yield

( $p < 0.05$ )



# Summary

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**-Incorporation did not mitigate yield losses associated with brushing or full retention.**

**-Where residue is brushed into the furrow, 140 lbs N was needed to achieve optimal yields.**

**-Where residue was retained on row top, additional N showed no benefit.**

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# Summary

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**-Residue retention with HoCP00-950 reduces yields by 30%.**

**-Don't plant where you can't remove the residue.**

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# Planter Study

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- Cane can compensate for gaps less than three feet.
  - Data on gaps and yield loss.
  - Conducted on CP 70-321 and HoCP 96-540.
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**-Every 1% of row feet with gaps >3ft will decrease tonnage by about 0.20 tons/A.**





# Summary

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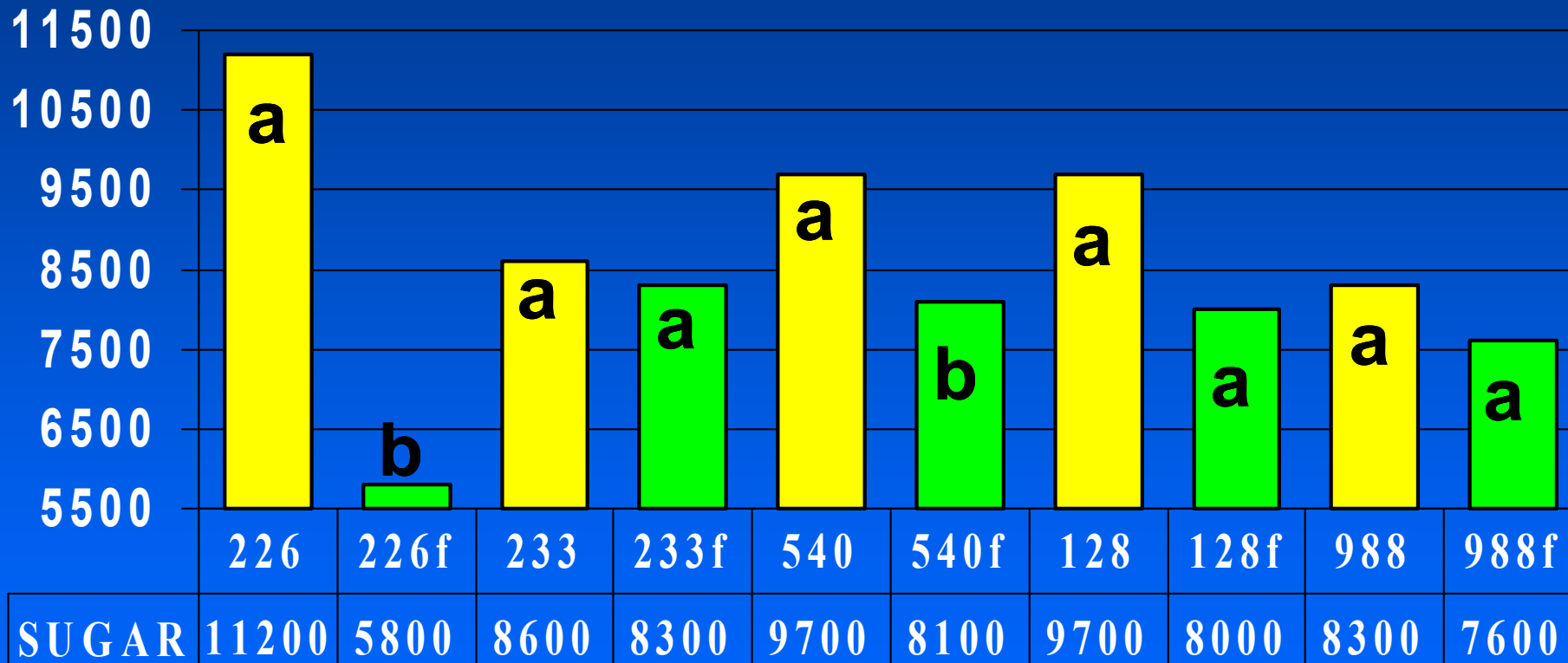
- Cane can compensate well to gaps...given adequate stands surrounding gaps.
  - These new varieties are not like LCP 85-384.
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# Flood Tolerance (Feb-Aug) 5 days monthly; plant-cane



# Sugar yield

( $p < 0.05$ )



# Date of harvest

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**-LCP 85-384, Ho 95-988, HoCP 96-540,  
and L 97-128 plant cane.**

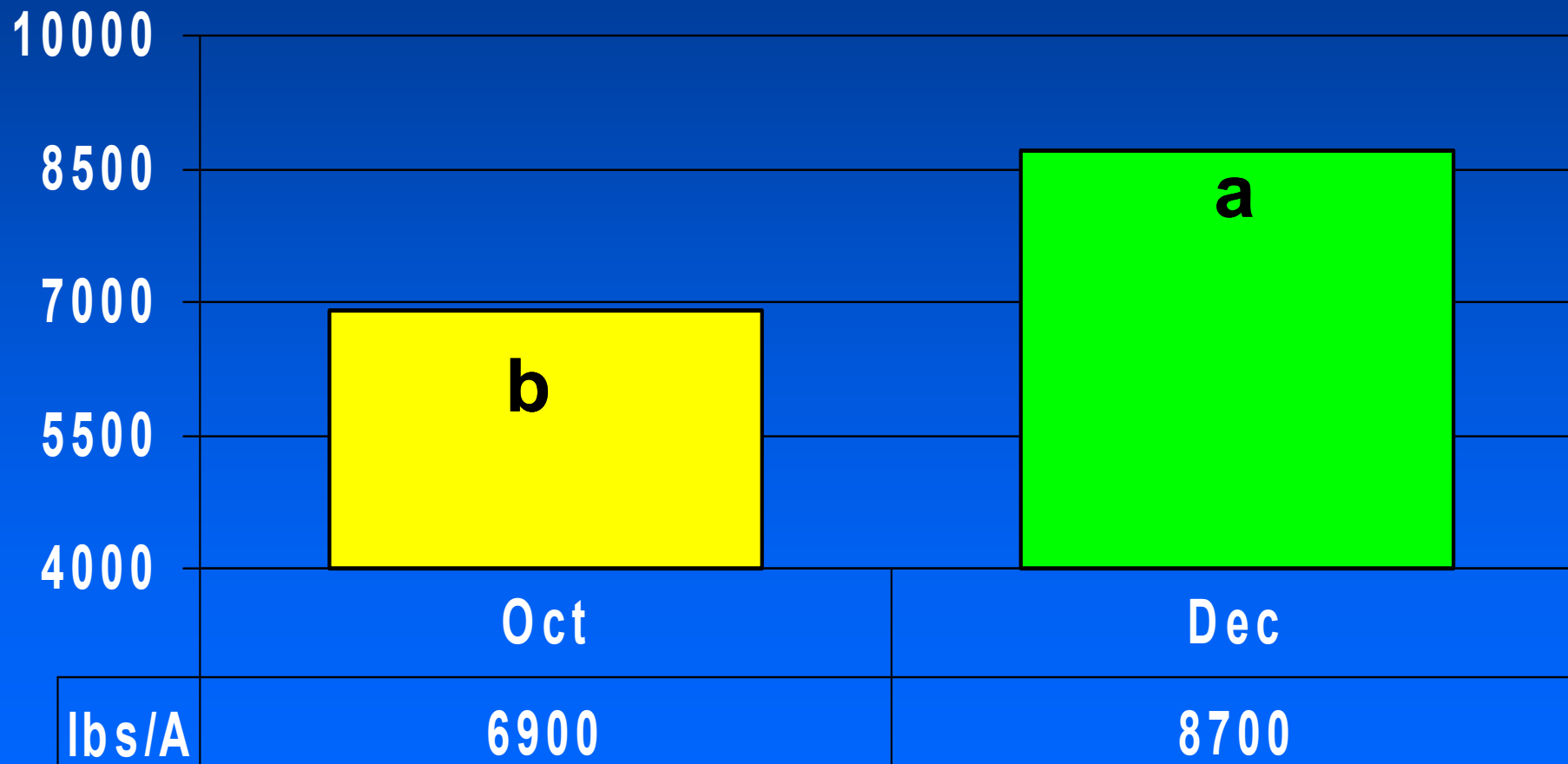
**-Oct. 15 and Dec 1 (no ripener).**

**-Harvested subsequent 1st stubble  
on Dec. 1 the following year.**

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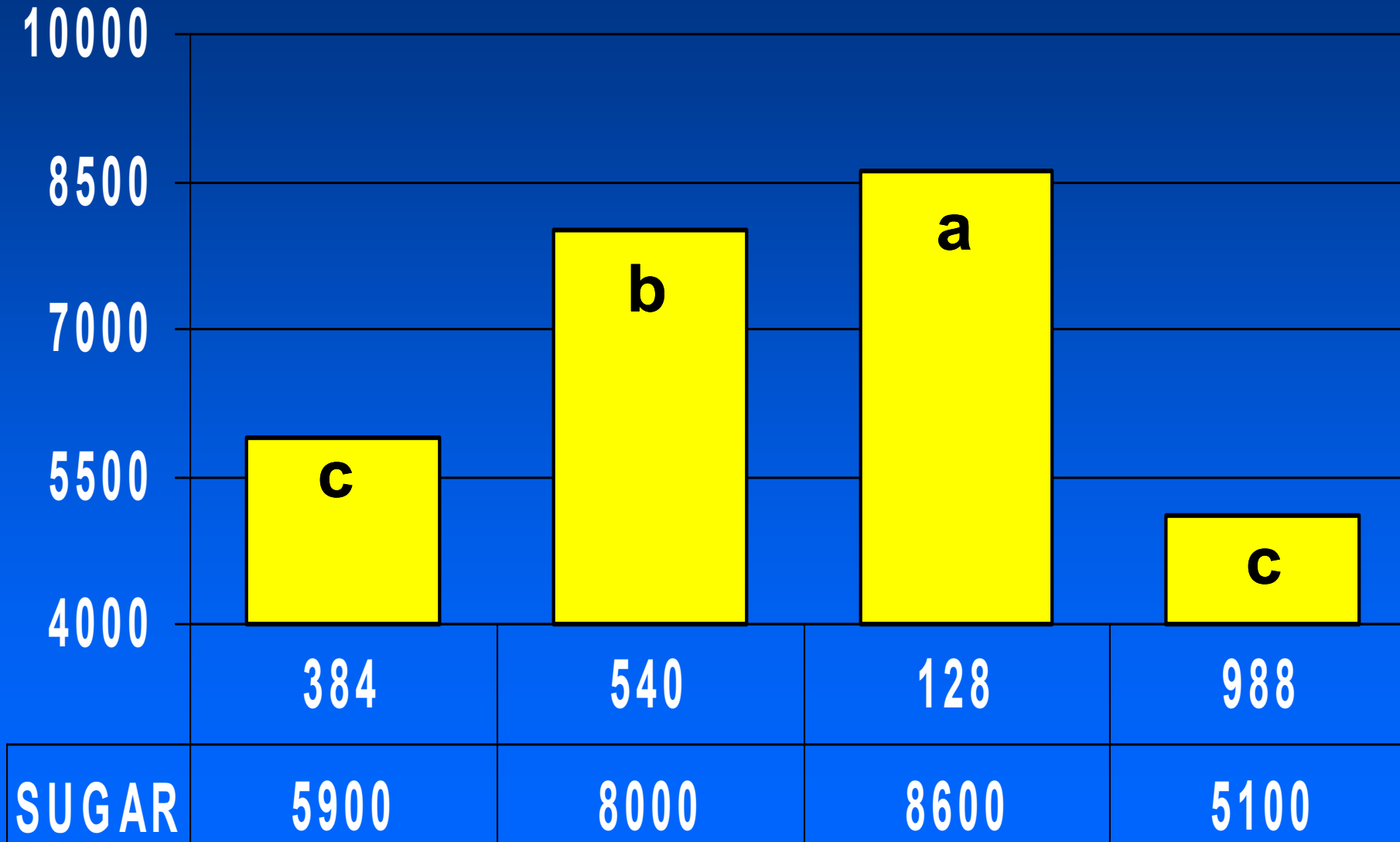
# First stubble

( $p < 0.05$ )



# First stubble

( $p < 0.05$ )



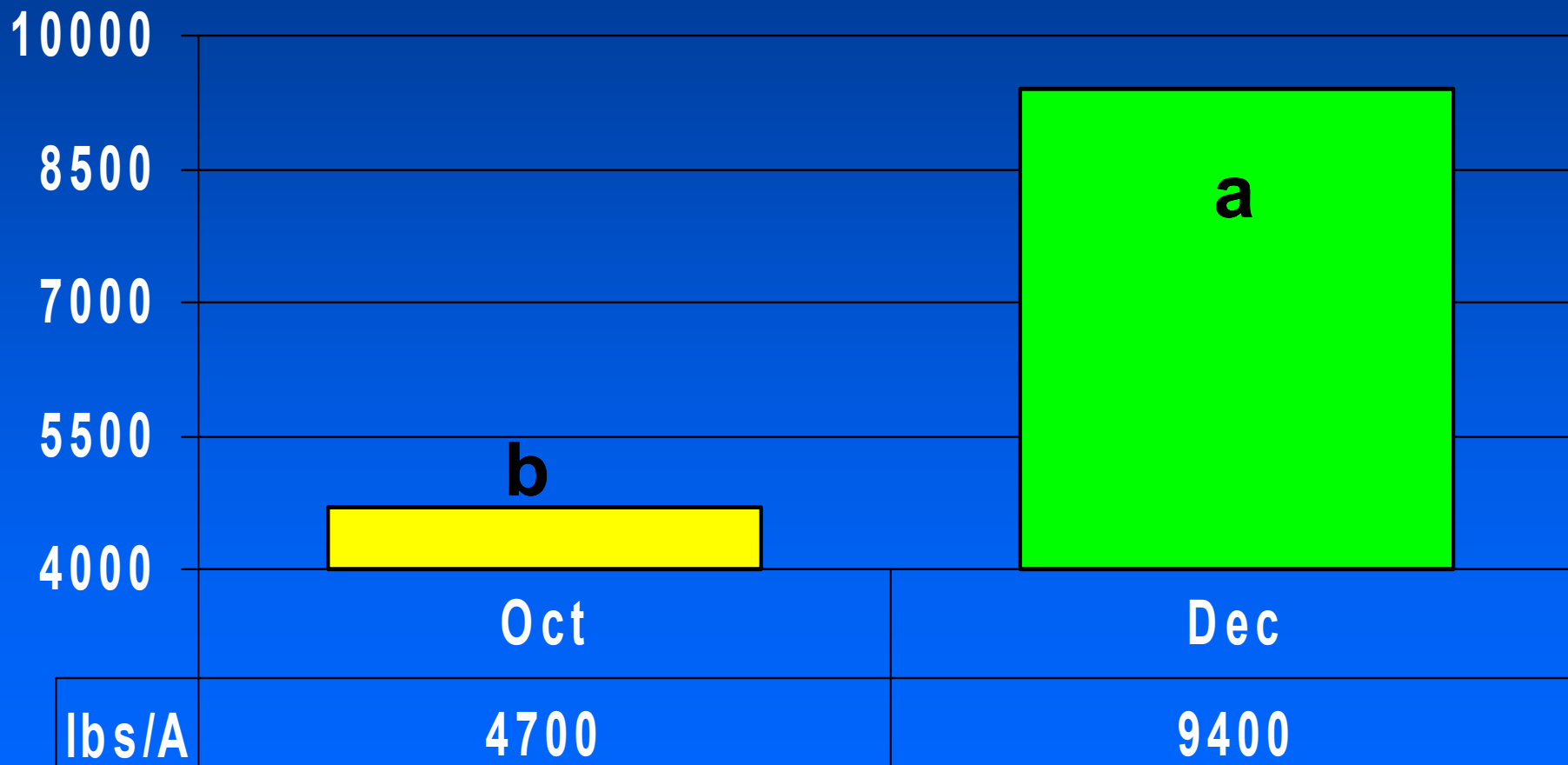
# Date of harvest

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- Plant cane and 1st stubble both cut early.
  - Oct. 15 and Dec 1 (no ripener).
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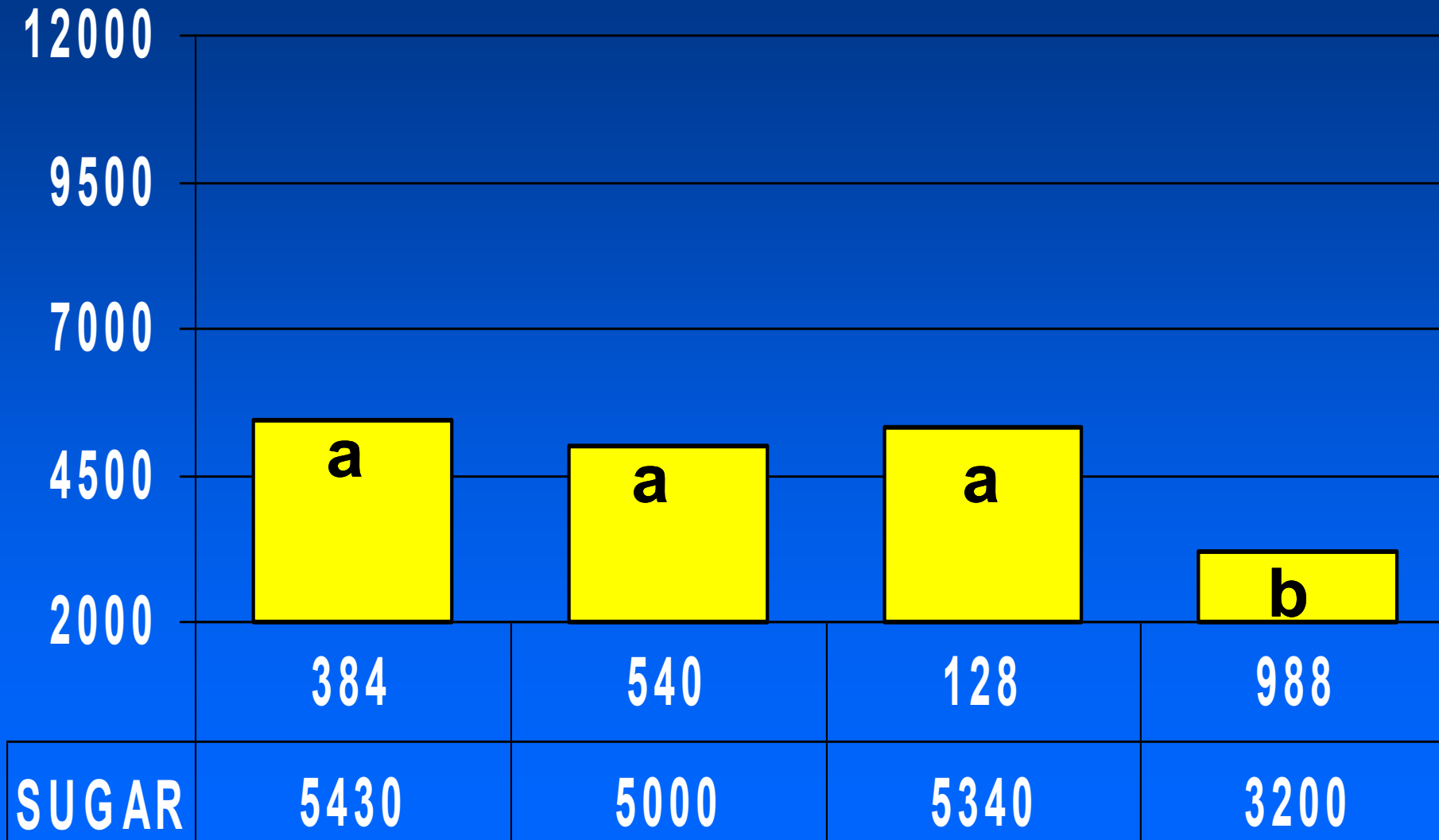
# Second stubble

( $p < 0.05$ )



# Second stubble

( $p < 0.05$ )



# Take home message

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- Try not to harvest everything in one area early.
  - L 97-128 tolerated one early harvest the best.
  - Consecutive early harvest made production of 2nd stubble not profitable.
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# Yield Components

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-Major varieties.

-Height

-Lower, middle, upper diameter

-Stalk counts

-Stalk density

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# TONS

	<b>540</b>	<b>226</b>	<b>233</b>	<b>950</b>
<b>HEIGHT</b>	<b>0.33</b>	<b>0.74</b>	<b>0.08</b>	<b>0.52</b>
<b>DIAMETER</b>	<b>0.34</b>	<b>0.66</b>	<b>0.10</b>	<b>0.53</b>
<b>POPULATION</b>	<b>0.49</b>	<b>0.68</b>	<b>0.70</b>	<b>0.90</b>
<b>DENSITY</b>	<b>0.33</b>	<b>0.69</b>	<b>0.09</b>	<b>0.53</b>

