

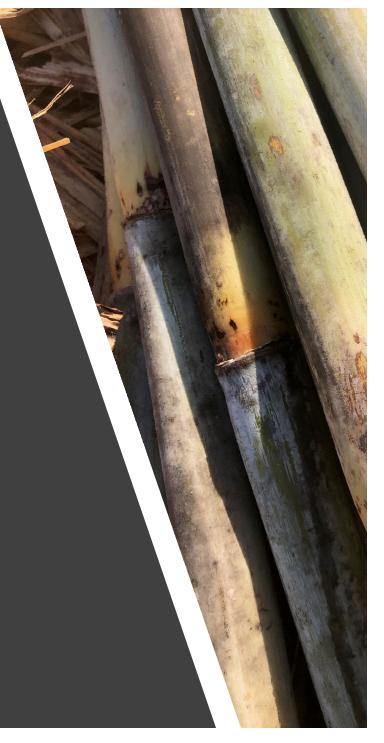
A Review of 2019
Ripener
Trials

Al Orgeron LSU AgCenter



August 9th





August 9th

Sugar Research Station

Plantcane L 01-299

Plot size: 12 ft X 60 ft

4 Replications

3 Treatments, RCB

- -Roundup PowerMaxII @ 6 oz/a
- -Roundup PowerMaxII @ 6 oz/a + Intake @ 8 oz/a
- -Untreated Check



**Hand sampled:** 

September 3

September 10

September 18

Days after treatment

25

32

40

	TRS (lb/ton)		
Treatment	25 DAT	32 DAT	40 DAT
Check	140 b	161 b	170 b
P-MaxII	219 a	241 a	261 a
P-MaxII + Intake	211 a	246 a	258 a

	% Fiber		
Treatment	25 DAT	32 DAT	40 DAT
Check	11.5 a	12.1 a	12.1 a
P-MaxII	10.8 ab	10.8 b	11.2 b
P-MaxII + Intake	10.4 b	10.9 b	11.5 b





Treatment	Height (in)	Tons/A	Sugar/A
Check	99.5 a	38.3 a	6493 b
P-MaxII	77.9 b	31.9 b	8353 a
P-MaxII + Intake	78.6 b	30.4 b	7783 a





Intake

**B** Sure<sup>®</sup>



September 11<sup>th</sup>

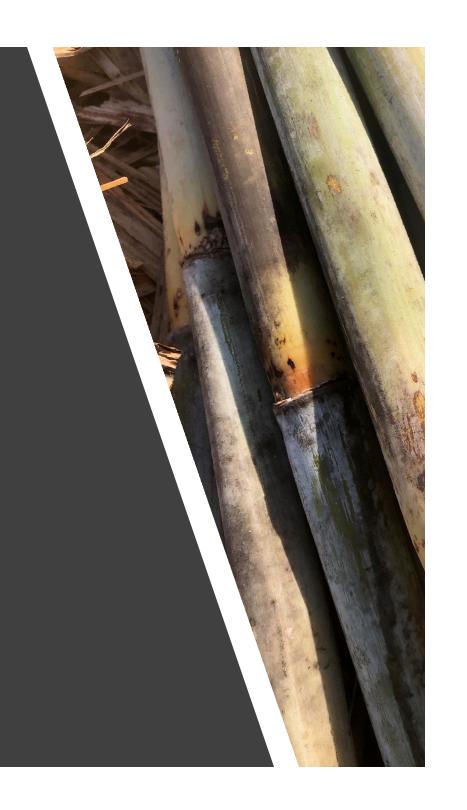
Sugar Research Station

Plantcane L 01-299

Plot size: 12 ft X 40 ft

4 Replications

6 Treatments, RCB



Treatment	Rate/A	
Untreated Check		
Roundup Power Max II	5.3 oz	
Roundup Power Max II + Moddus	2.65 oz + 11 oz	
Roundup Power Max II + Intake	5.3 oz + 8 oz	
Roundup Power Max II + Anova	5.3 oz + 16 oz	
Roundup Power Max II + B Sure	5.3 oz + 16 oz	







Harvested: October 16th

35 DAT

Treatment	TRS (lb/ton)	Tons/A	Sugar/A	% Fiber
Check	189 c	48.7 a	9192 b	11.6 a
P-Max II	257 a	46.8 a	12020 a	10.8 a
P-Max II + Moddus	241 ab	48.2 a	11643 a	11.2 a
P-Max II + Intake	248 ab	44.5 a	11037 ab	10.9 a
P-Max II + Anova	246 ab	45.9 a	11327 a	11.0 a
P-Max II + B Sure	234 b	47.3 a	11118 ab	11.1 a

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Treatment	TRS (lb/ton)	Tons/A	Sugar/A	% Fiber
Check	189 c	48.7 a	9192 b	11.6 a
P-Max II	257 a	46.8 a	12020 a	10.8 a
P-Max II + Moddus	241 ab	48.2 a	11643 a	11.2 a
P-Max II + Intake	248 ab	44.5 a	11037 ab	10.9 a
P-Max II + Anova	246 ab	45.9 a	11327 a	11.0 a
P-Max II + B Sure	234 b	47.3 a	11118 ab	11.1 a

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Treatment	TRS (lb/ton)	Tons/A	Sugar/A	% Fiber
Check	180 b	47.3 a	7924 b	12.1 a
P-Max II	258 a	42.0 a	10861 a	12.1 a
P-Max II + Moddus	229 a	44.7 a	10237 a	12.3 a
P-Max II + Intake	244 a	44.0 a	10742 a	12.0 a
P-Max II + Anova	252 a	42.4 a	10668 a	11.9 a
P-Max II + B Sure	232 a	44.6 a	10312 a	11.9 a

Trials 3 and 4
Late-Season Ripened
Cane Exposed to
Freezing Conditions

Trial 3 - GNL Farms, Bachelor Tractor, 2 X 30 ft plots

Trial 4 - H.E. Harper Farms, Cheneyville
Airplane, 12 rows wide X 1870 ft
long, center 6 rows used to
calculate yield (1.5 acre), 2 trucks

### GNL Farm LLC

2 Treatments – Stubble L01-299, 4 Reps

Glyphosate @ 7 oz/a

Non-treated Check

Treated 10-22-2019







## November 13, 2019

### Wednesday's low temps break 112-year record



November 13, 2019

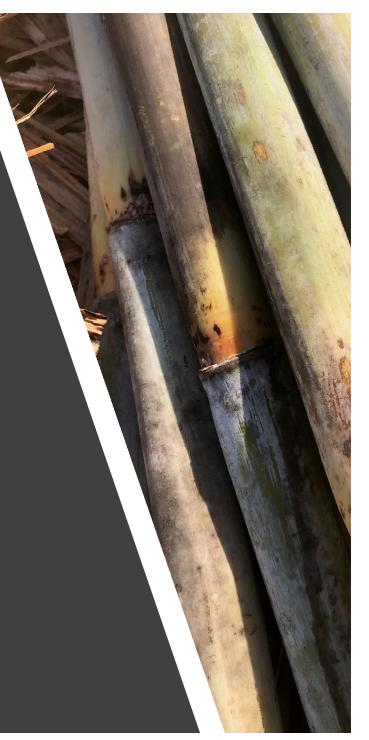
GNL trial had ripener on for 21 days prior to the freeze

Hand cut samples were gathered 6 and 19 days after the freeze

Harper trial had ripener on for 25 days prior to the freeze

Hand cut samples were gathered 7 and 20 days after the freeze

Data was pooled from the two experiments





Parameters Evaluated

TRS
Juice pH
Titratable acidity





Parameters Evaluated

7 Days Post Freeze

рΗ

5.39 a

5.38 a

**TRS** 

238 a

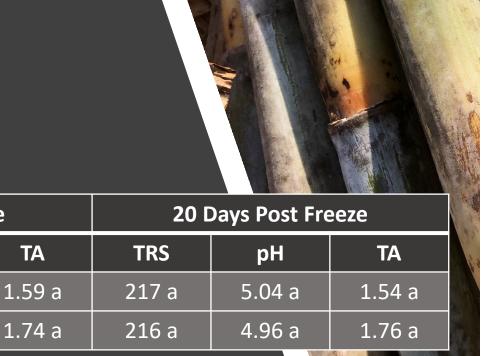
238 a

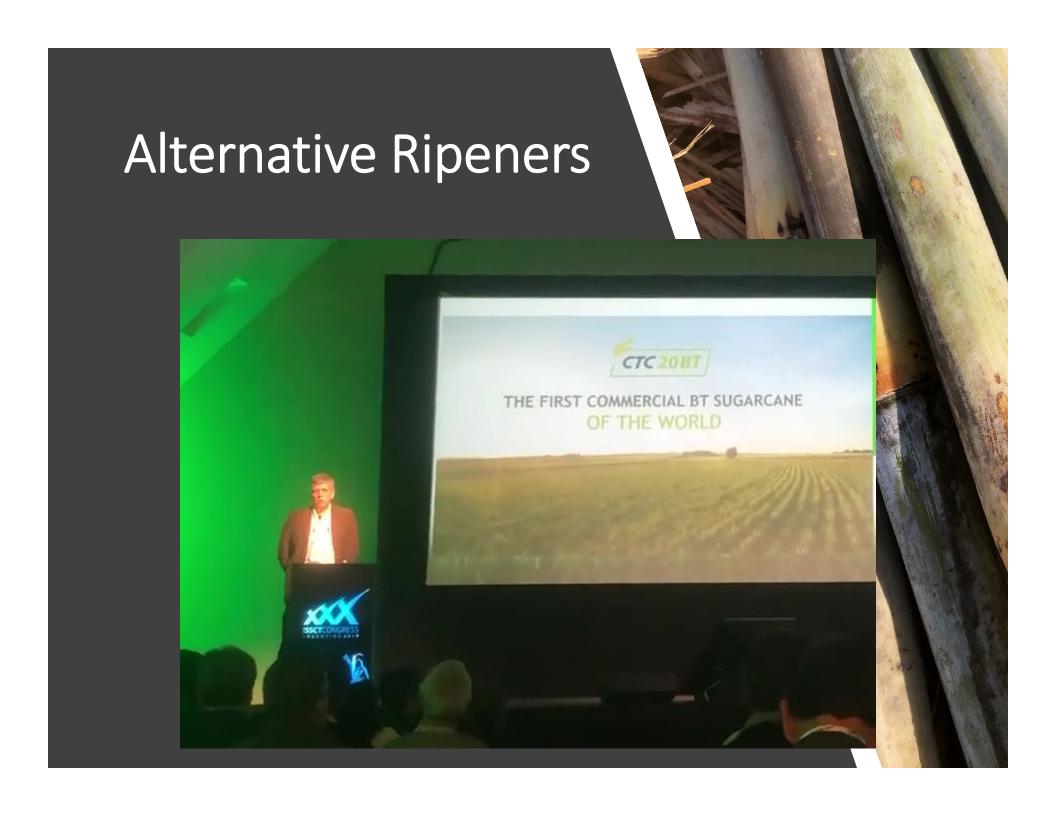
TRS
Juice pH
Titratable acidity

**Treatment** 

Glyphosate

Check





# Trial 5 Alternative Ripener

September 12<sup>th</sup>, Sugar Research Station First Stubble L 01-299, Plot size: 6 ft X 40 ft, 3 Treatments, RCB, 4 Reps

- -Roundup PowerMaxII @ 5.3 oz/a
- -Select @ 5.5 oz/a (96 g ai/ha)
- -Untreated Check

	TRS (lb/ton)			
Treatment	27 DAT 42 DAT			
Check	174 b	206 b		
P-MaxII	203 a	244 a		
Clethodim	161 b	197 b		



### Summary

 Despite the short crop in August, glyphosate ripener increased TRS and Sugar Yield per Acre

 Cane Tonnage, TRS, and Sugar Yield was not improved for the ripener additives evaluated as compared to the standard glyphosate application.

• TRS, juice pH, and titratable acidity was no different in 3 week ripened cane as compared to non-ripened cane.

 Our goal is to identify a glyphosate alternative ripener and a manufacture willing to invest into gaining a sugarcane label.



# Questions