

Introduction

- SW Louisiana & Texas Gulf Coast climate
 - Long season
- Ratoon 2nd crop
 - Re-growth from 1st crop stubble
 - "ratoon", "stubble", "second crop"
- of 1/3 of 1st crop yield
 - Higher profit margin
- Lower input costs
 - Irrigation, harvest, drying
 - 90 lb N/A
 - Other chemicals limited





When not to ratoon

- Remember 1st crop conditions effect ratoon crop
 - Disease and insect pressure
 - Death of tillers prevent regrowth
- Red rice
 - Reduce yield and quality
 - may want to avoid ratoon crop to prevent germination of red rice seed
- Did you harvest under dry conditions?
 - muddy soil leads to heavy rutting

Plant Growth Regulator

ProGibb® 40%

Water Soluble Granule



For Organic Production

Rice

To promote main culm and tiller panicle extension resulting in improved pollination and seed yield.

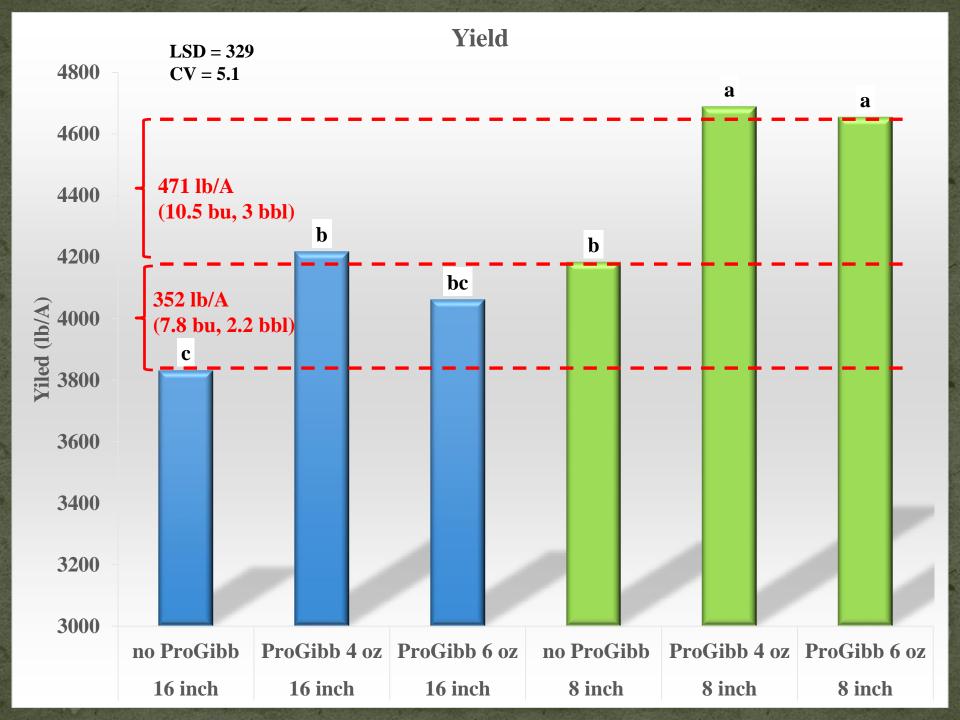
3 - 8 GRAMS A.I

7.5 - 20 grams product

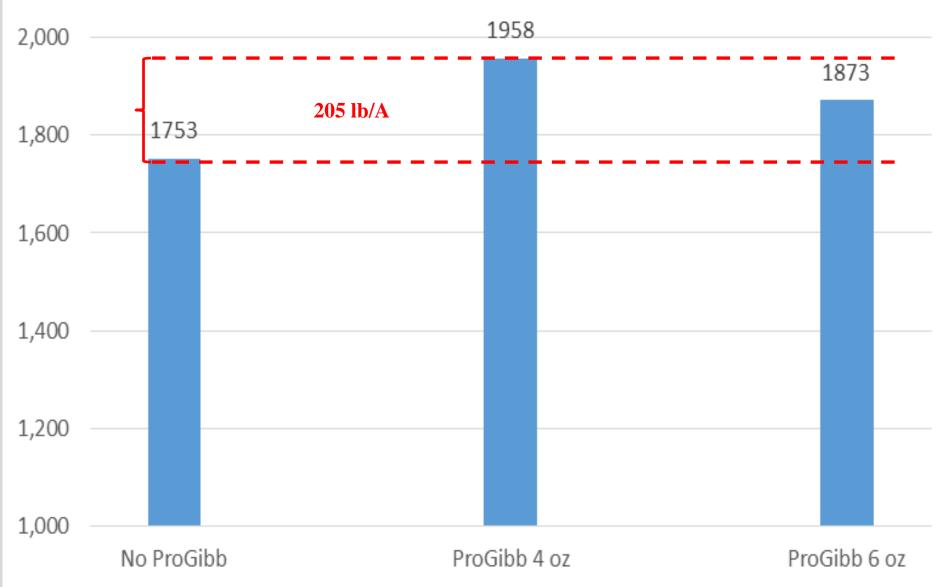
0.3 - 0.7 ounces product

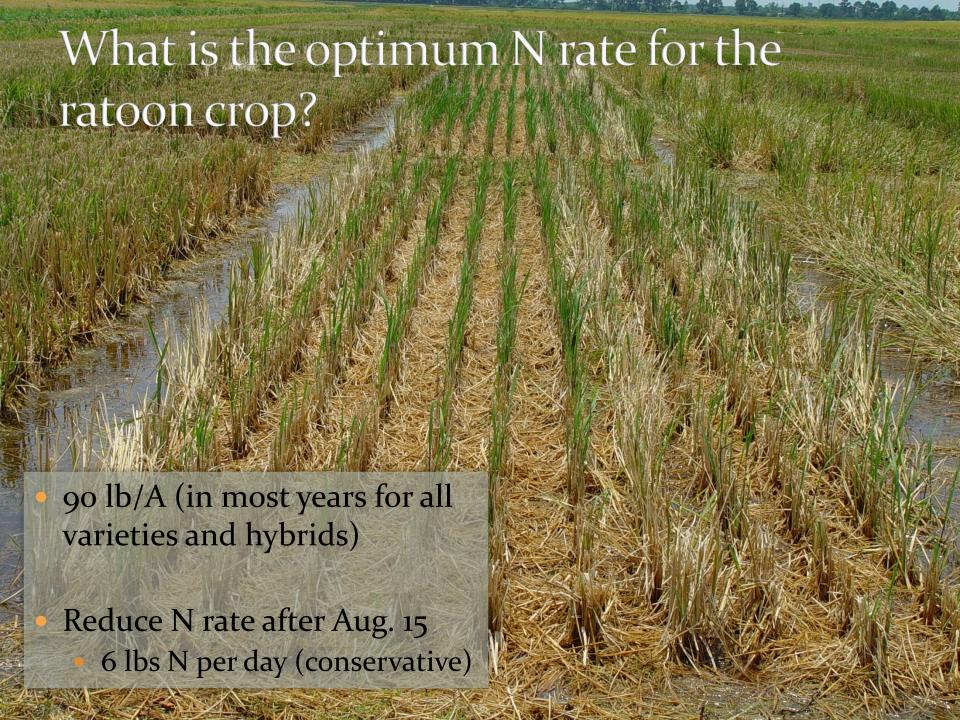
Make a single application between split-boot and 100% panicle heading.

Heading applications to the first crop also has been observed to accelerate re-growth of second crop rice.



Evaluation of ProGibb on application at softdough on ratoon yields (Crowley, 2016)







N time of application study 90 lb/N A:

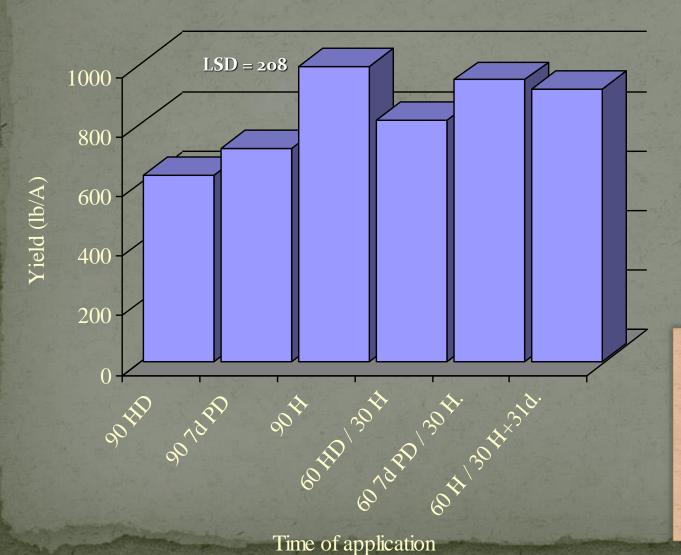
- 1) Heading (HD)
- 2) 7 day pre-drain (7d PD)
- 3) Harvest (90H)

- 4) 60 HD + 30H
- 5) 60 7d PD + 30 H
- 6) 6oH + 3o @ 31dPH





Effect of time of N application on Trenasse ratoon yield



Splitting ratoon N applications and early ratoon N applications do not provide any advantage over the one time harvest N application.



Nutrient Requirement by Rice

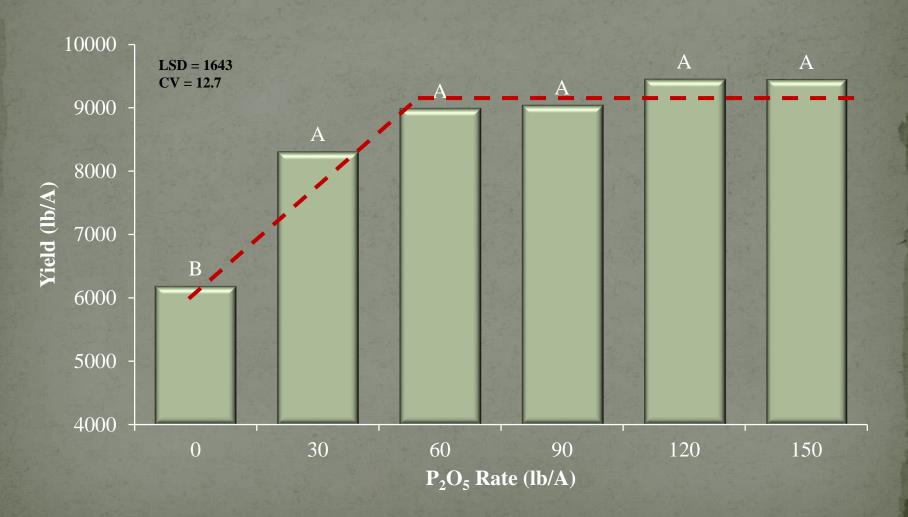
Nutrient	Removal, lb/bu
N	0.45
P_2O_5	0.28
K ₂ O	0.18
Nutrient	Uptake, lb/bu
N	0.72
P_2O_5	0.39
P ₂ O ₅ K ₂ O	1.08

So, a 200-bu (9,000 lb/A or 56 bbl) rice crop will take up 78 lb P_2O_5

(70% grain ≈ 55 lb/A; straw ≈23 lb/A)

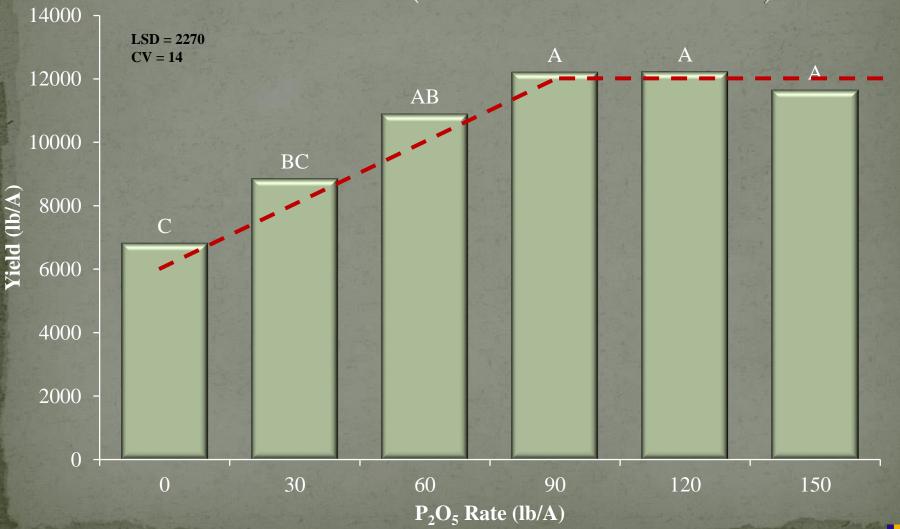


Evaluation of P Rate Miller Bro. Farms – Egan, LA (2011).



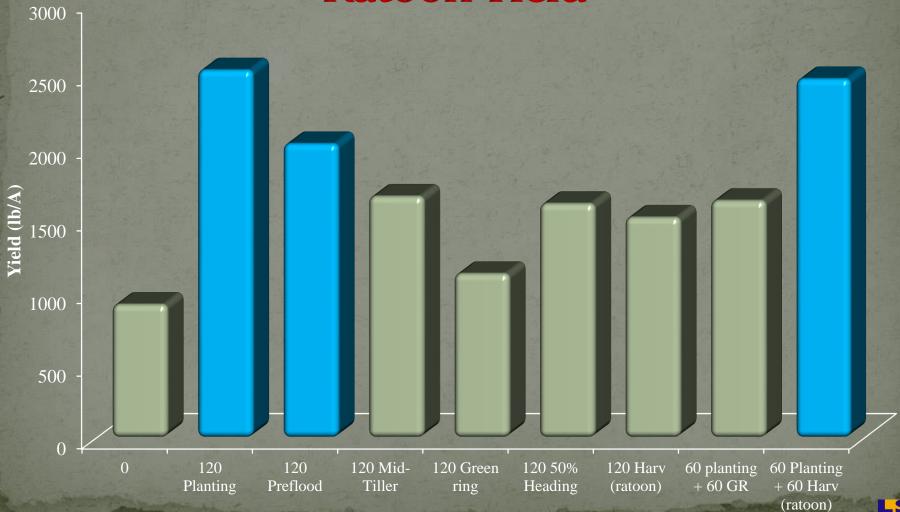


Evaluation of P Rate Total Yield (Main + Ratoon)





Evaluation of P Fertilizer Timing on Yield Miller Bros. Farm – Egan, LA (2011). Ratoon Yield





Ratoon Stubble Management

Fungicide application did not improve yield or reduce incidence of Cercospora



Standard (16")

Low Harvest (8")

Bush Hog (2")

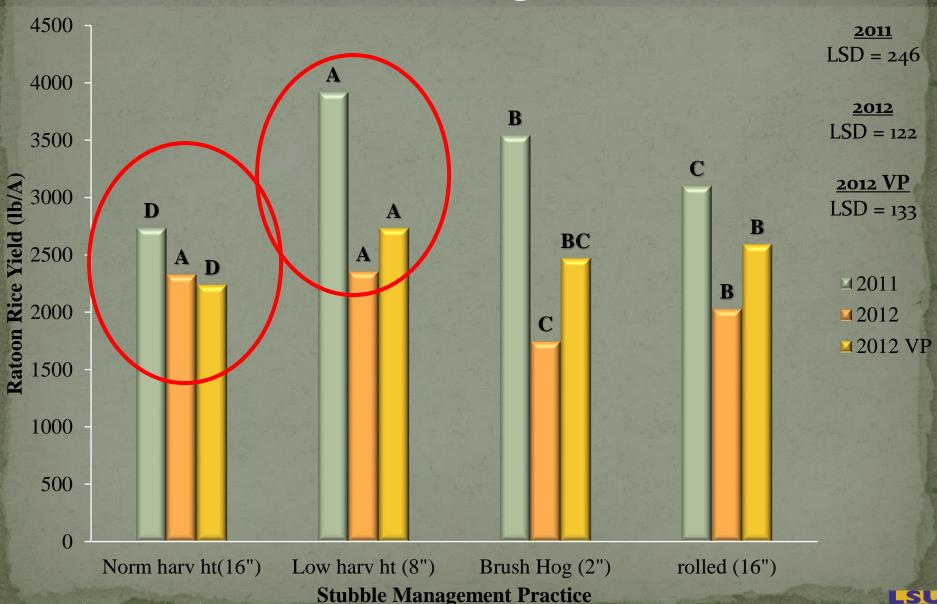
Rolled

CL131 and Catahoula

Quilt XL (21 oz, 4WAH)

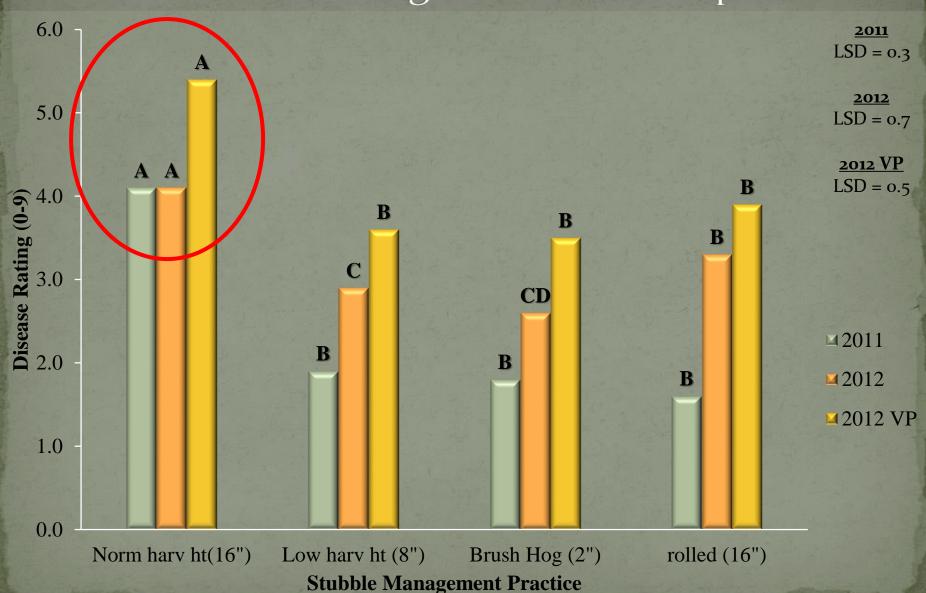


Effect of Stubble Management on Yield





Effect of stubble management on Cercospora





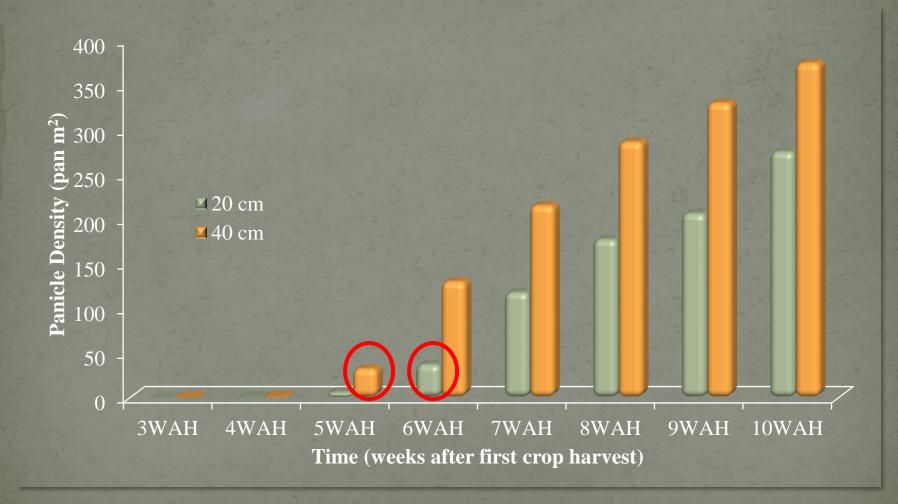
What does stubble management do to agronomics?

(8" vs. 16")



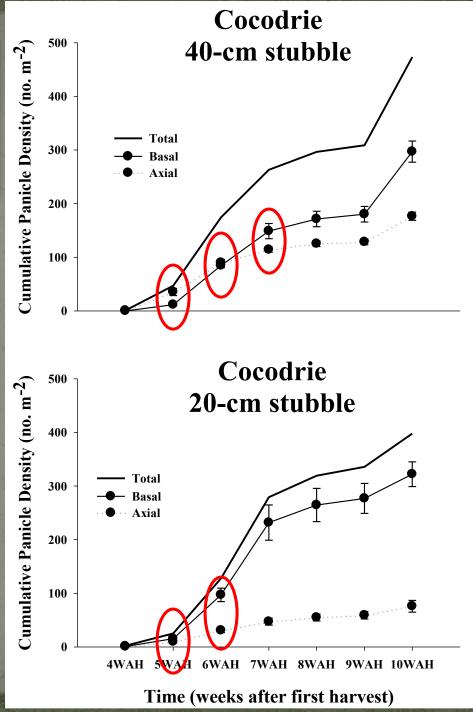


Cumulative ratoon panicle emergence of Trenasse (pooled over years)





Panicle emergence was also differentiated by panicle origin on a weekly basis





If the 40cm stubble treatment produced more total panicles than the 20cm treatment
Why did the 20 cm treatment produce a significant yield advantage?

2 upper



Base Node

Axial and Basal Panicle Weights (pooled overyears)

Axial

	F	P
Variety (V)	0.4	0.53
Stubble Height (SH)	2.9	0.09
V x SH	0.1	0.78

Basal

	F	P
Variety (V)	2.3	0.13
Stubble Height (SH)	39.2	<.001
V x SH	0.4	0.55

	Axial	Basal
Stubble Height	g panicle ⁻¹	
20 cm	0.4	0.9
40 cm	0.5	0.7
LSD	0.2	0.1



