



New Ripener Application Methods and Evaluation of Two Potential Compounds

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615 and 299

Joby Beaud, New Roads

First Stubble Ho 12-615 and L 01-299, RCB, 3 Reps,
100 ft X 150 ft (25 rows) plots

Treatments Applied with DJI Agras T10 Drone on August 15,
2022 @ 2 GPA, 10 ft above crop, 12 ft swath, AIXR 11002

Hand Sampled and Harvested September 19, 2022
35 days after treatment

Plots weighted with weigh wagon to determine tonnage



615 and 299

Ripener Treatments

- Roundup PowerMax3 @ 3.4 oz/A
- Roundup PowerMax3 @ 5 oz/A
- Roundup PowerMax3 @ 6.6 oz/A
- Roundup PowerMax3 @ 2.5 oz/A + Moddus @ 11 oz/A
- Moddus @ 19 oz/A
- Untreated Check



Ho 12-615

Treatment	Rate/A	Tons/A	TRS	Sugar/A
Pmax3	3.4 oz	41.7	224 a	9092 a
PMax3	5 oz	39.2	232 a	9094 a
PMax3	6.5 oz	37.8	242 a	9135 a
PMax3 + Moddus	2.5 oz + 11 oz	35.6	229 a	8131 a
Moddus	19 oz	40.1	208 a	8274 a
Check		42.6	162 b	6911 b
P-value		0.3787	0.0011	0.0124

Harvested September 19, 2022, 35 days after treatment



L 01-299

Treatment	Rate/A	Tons/A	TRS	Sugar/A
Pmax3	3.4 oz	40.3	219 ab	8841 a
PMax3	5 oz	36.7	225 a	8277 a
PMax3	6.5 oz	38.6	236 a	9087 a
PMax3 + Moddus	2.5 oz + 11 oz	35.8	238 a	8513 a
Moddus	19 oz	38.4	205 b	7840 a
Check		40.7	158 c	6418 b
P-value		0.2160	0.0001	0.0031

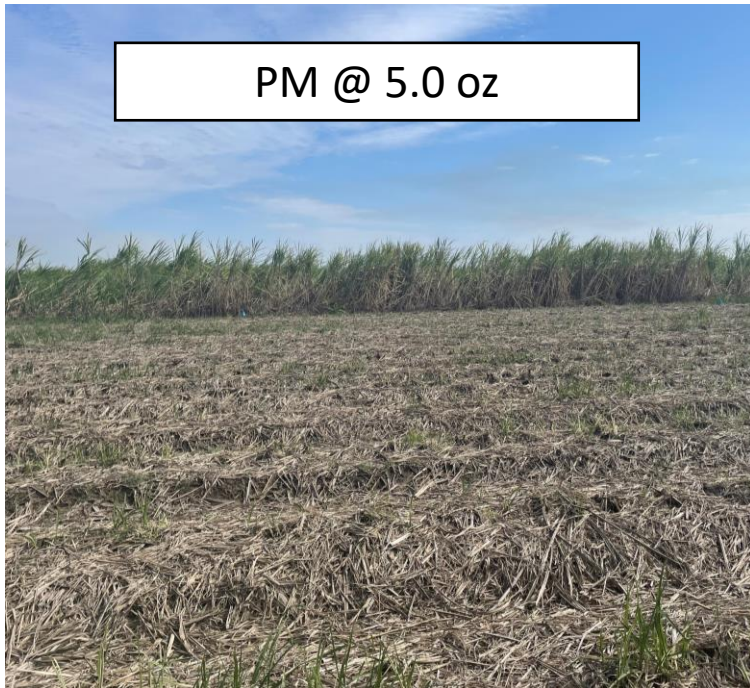
Harvested September 19, 2022, 35 days after treatment



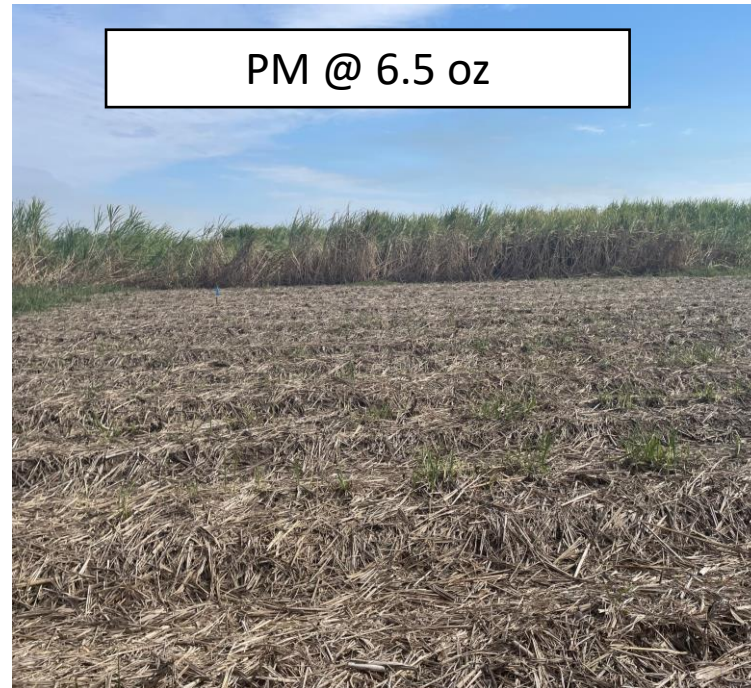
PM @ 3.4 oz



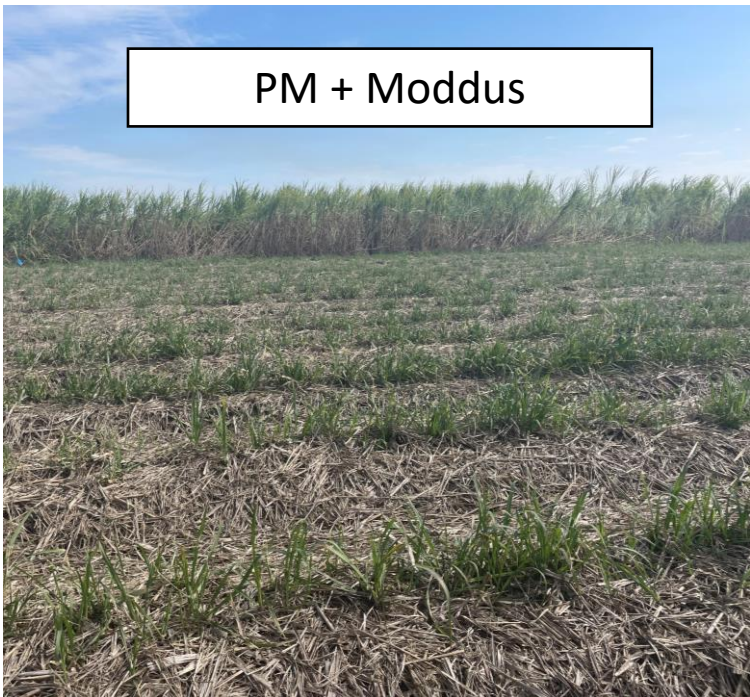
PM @ 5.0 oz



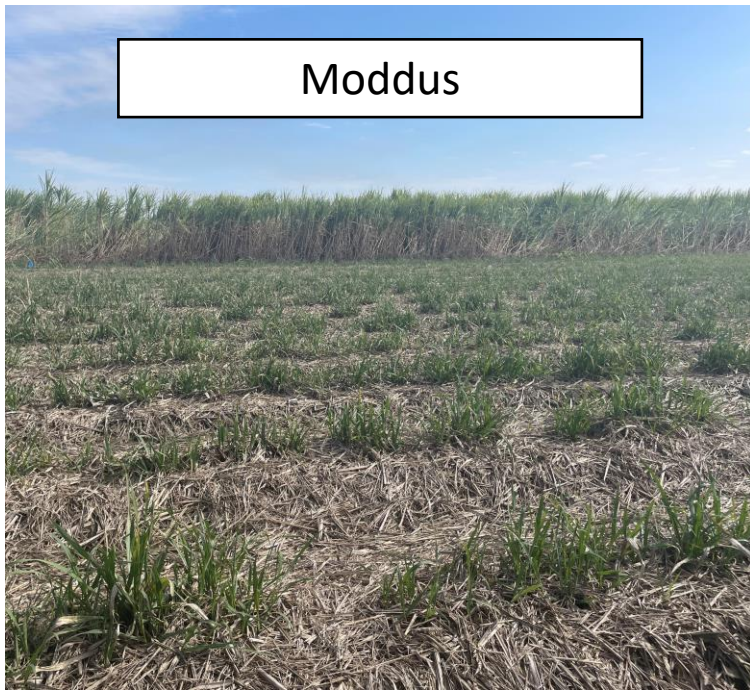
PM @ 6.5 oz



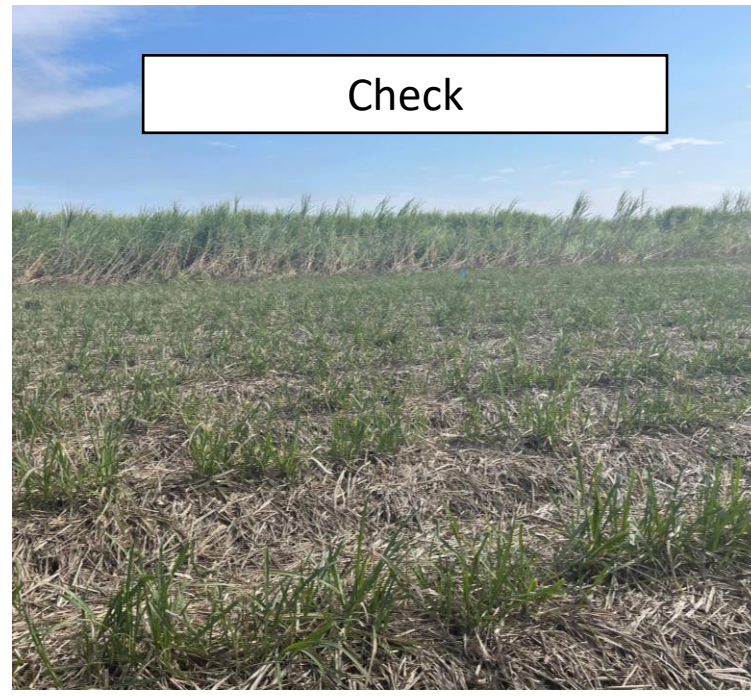
PM + Moddus



Moddus



Check





1 GPA vs 2 GPA

Harper Planting Partnership, Cheneyville
Stubble HoCP 09-804, RCB, 3 Reps, 24 ft X 1800
ft plots

Treatments Applied August 29, 2022 with Drone

Sampled and Harvested October 5, 2022, 37 DAT
Truck Weight used to determine Tons/A



HoCP 09-804

Treatment	Rate/A	GPA	Tons/A	LSU TRS	LSU SPA	LASUCA TRS	LASUCA SPA
PM 3	5 oz	1	40.0	231	8872	211	8410
PM 3	5 oz	2	41.7	253	10552	226	9420
PM 3 + Moddus	2.5 oz + 11 oz	2	40.3	239	9612	201	8099
Check	-	-	41.4	217	8984	197	8143
P-value			0.5223	0.2177	0.0025	0.3126	0.1989

Harvested October 5, 2022, 37 DAT



L 12-201

Blackberry, Vacherie

Plantcane, RCB, 3 Reps, 100 ft X 108 ft (18 rows)
plots

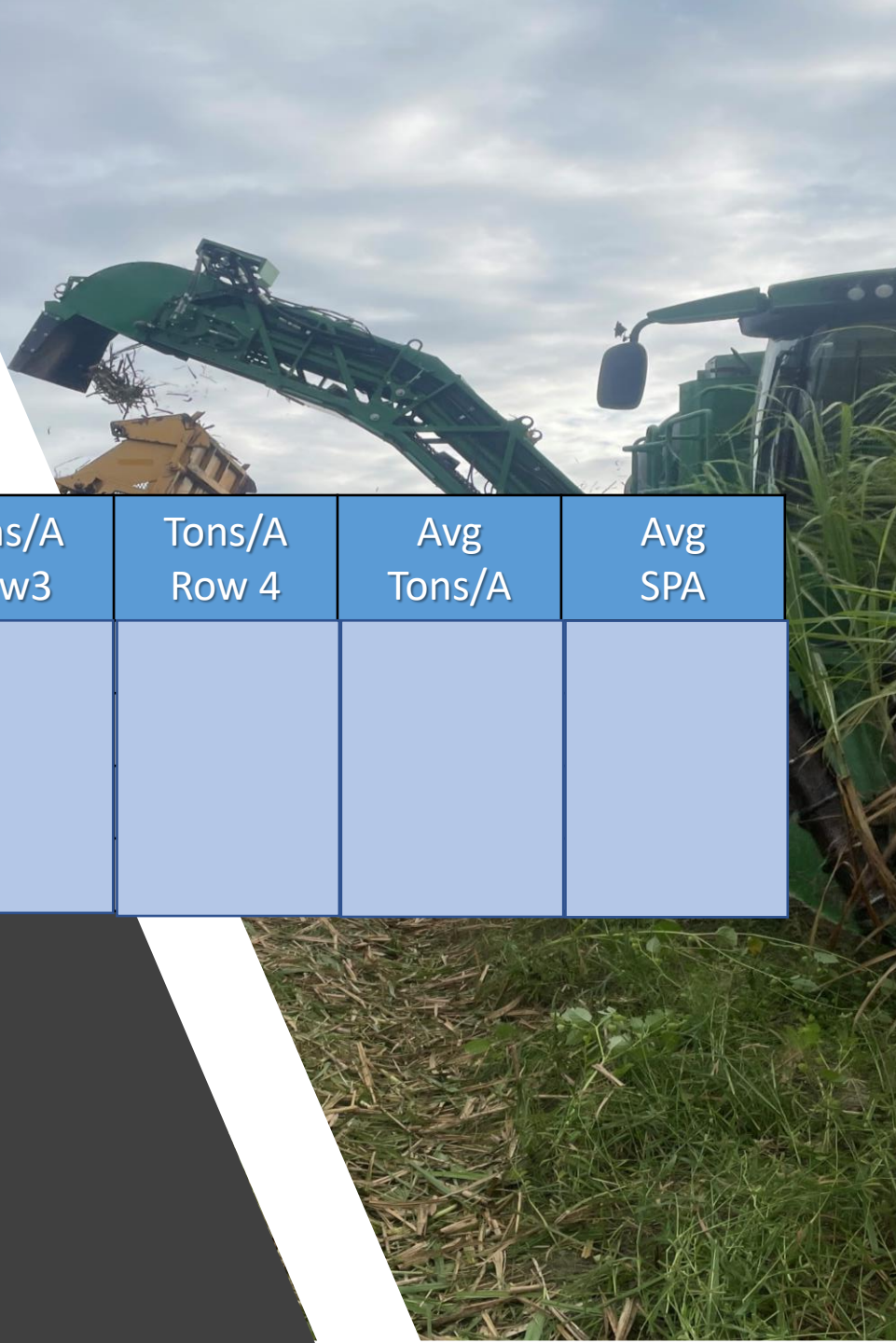
Treatments Applied September 14, 2022 with
Drone @ 2GPA

Hand Sampled and Harvested October 20, 2022,
36 DAT

Weigh Wagon used to determine Tons/A



L 12-201

A photograph showing green harvesting machinery, likely a combine harvester, in a field. The machine is positioned in the upper right quadrant of the image, with its header and auger visible. The background shows a cloudy sky and some green vegetation. The image is partially obscured by a white diagonal line that separates it from the dark grey background on the left.

Treatment	Rate/A	TRS	Tons/A Row1	Tons/A Row2	Tons/A Row3	Tons/A Row 4	Avg Tons/A	Avg SPA
PM 3	5 oz	246 a	49.5 ab					
PM 3 + Moddus	2.5 oz + 11 oz	246 a	47.0 b					
Check	-	227 b	53.6 a					
P-value		0.0564	0.0918					

Harvested October 20, 2022, 36 DAT

Rinskor (Loyant)

Sugar Research Station

First Stubble L 01-299, RCB, 4 Reps, 12 ft X 40 ft plots

Treatments Applied August 16, 2022 with Tractor @ 10 GPA

Rinskor @ 1.4, 2.7, 4.1, and 5.5 oz/A

Roundup PowerMax3 @ 5 oz/A

Untreated Check

Sampled at 30, 45, & 59 DAT

Harvested October 14, 2022



Rinskor

Treatment	Rate/A	TRS (30DAT)	TRS (45DAT)	TRS (59DAT)
Rinskor	1.36 oz	130 b	178 b	201 b
Rinskor	2.73 oz	128 b	171 b	193 b
Rinskor	4.10 oz	126 b	161 b	194 b
Rinskor	5.46 oz	121 b	163 b	190 b
Pmax3	5 oz	193 a	252 a	265 a
Check	-	133 b	163 b	192 b
P-value		0.0001	0.0001	0.0001

9-15-22

9-30-22

10-14-22



Rinskor

Treatment	Rate/A	TRS (59DAT)	Tons/A (59DAT)	Sugar/A (59DAT)
Rinskor	1.36 oz	201 b	31.8	6439
Rinskor	2.73 oz	193 b	30.4	5849
Rinskor	4.10 oz	194 b	31.7	6143
Rinskor	5.46 oz	190 b	30.2	5711
Pmax3	5 oz	265 a	26.5	7009
Check	-	192 b	30.4	5824
P-value		0.0001	0.7047	0.6190

Harvested October 14, 2022



Raptor---Imazamox

Sugar Research Station

First Stubble L 01-299, RCB, 4 Reps, 12 ft X 50 ft plots

Treatments Applied August 16, 2022 with Tractor @ 10 GPA

Raptor @ 1, 2. & 4 oz/A + 0.25% v/v NIS

PMax3 @ 5 oz/A

Check

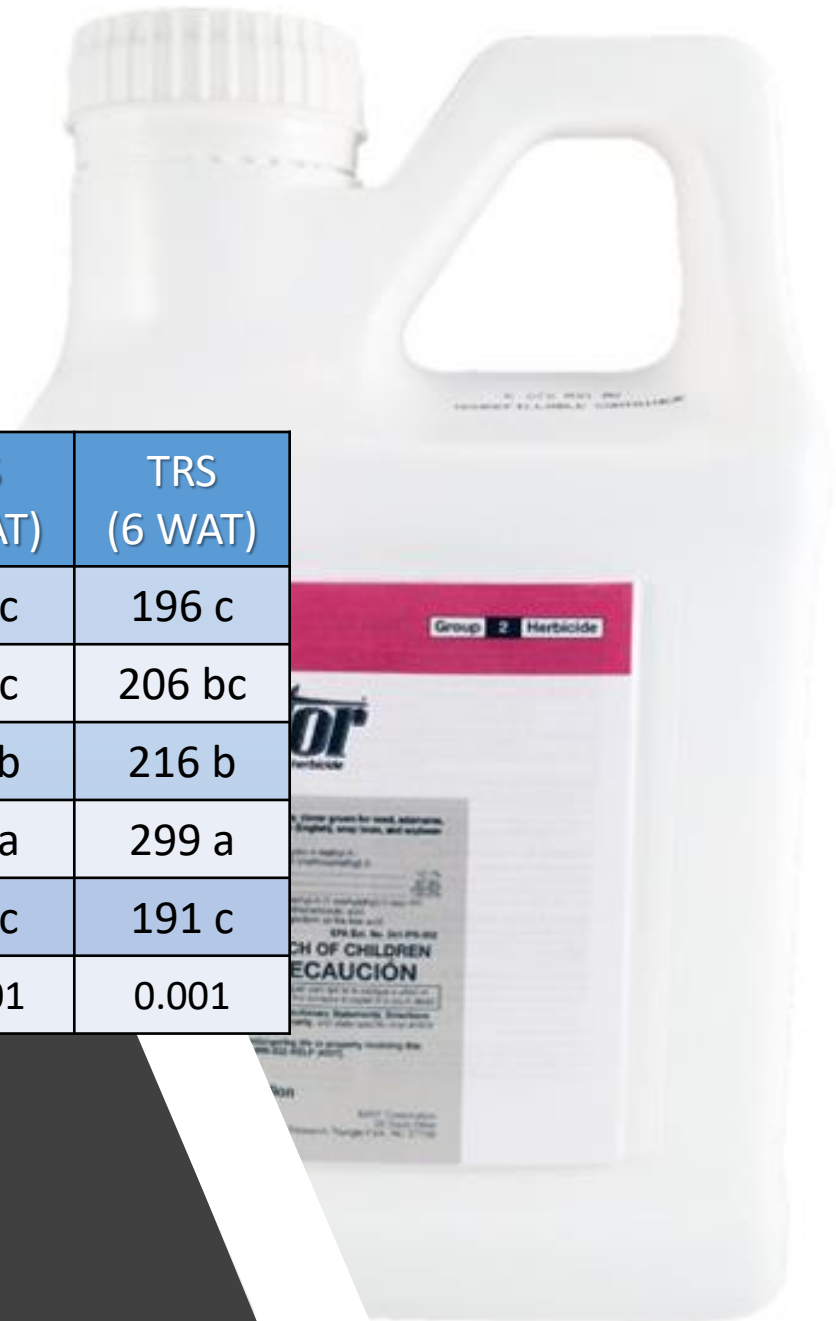
Sampled at 1, 2, 3, 4, 5, and 6 WAT

(Press and Wet Chemistry)

Harvested October 3, 2022



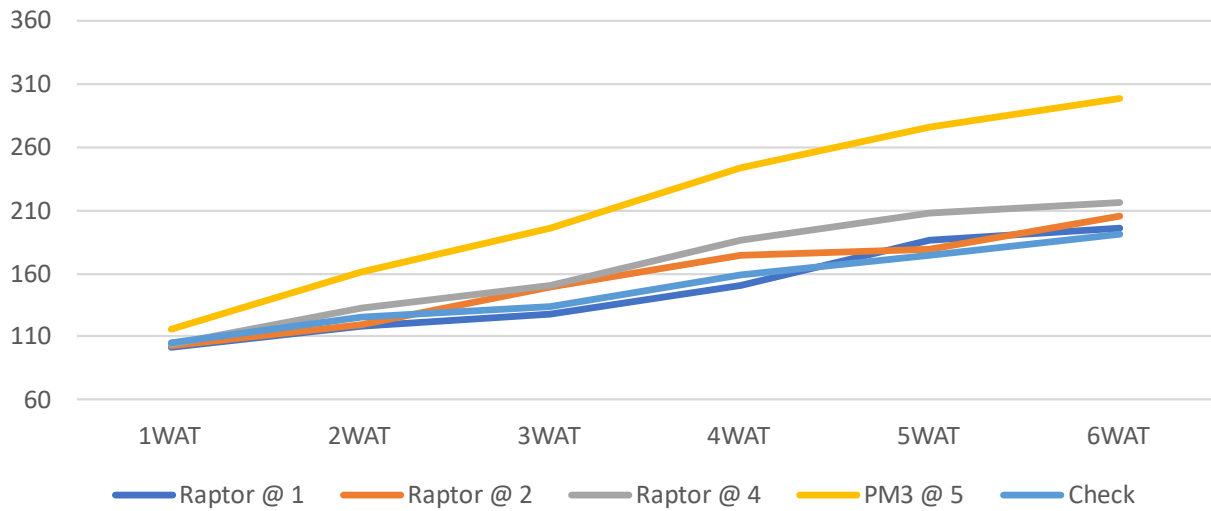
Raptor



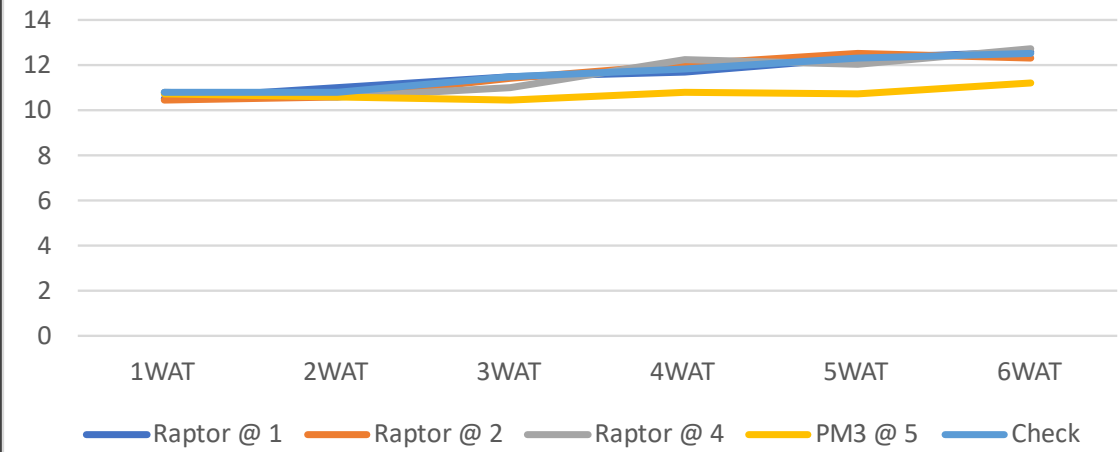
Treatment	Rate/A	TRS (1 WAT)	TRS (2 WAT)	TRS (3 WAT)	TRS (4 WAT)	TRS (5 WAT)	TRS (6 WAT)
Raptor	1 oz	101 b	118 c	128 c	151 d	186 c	196 c
Raptor	2 oz	103 b	118 c	149 b	174 bc	179 c	206 bc
Raptor	4 oz	104 b	132 b	151 b	186 b	208 b	216 b
Pmax3	5 oz	116 a	161 a	196 a	244 a	277 a	299 a
Check	-	105 b	125 bc	134 c	159 c	175 c	191 c
P-value		0.0160	0.0001	0.0001	0.0001	0.0001	0.001

Raptor

TRS



Fiber



Raptor

Treatment	Rate/A	TRS (6 WAT)	Tons/A (6 WAT)	SPA (6 WAT)
Raptor	1 oz	196 c	33.0	6444 b
Raptor	2 oz	206 bc	34.3	7065 b
Raptor	4 oz	216 b	35.7	7726 b
Pmax3	5 oz	299 a	30.6	9139 a
Check	-	191 c	34.5	6586 b
P-value		0.001	0.4669	0.0024

Harvested September 27, 2022



Raptor---HoCP 14-885 Ho 12-615

Sugar Research Station

First Stubble, RCB, 4 Reps, 12 ft X 50 ft plots

Treatments Applied August 16, 2022 with Tractor @ 10 GPA

Raptor @ 1 oz/A + 0.25% v/v NIS

PMax3 @ 5 oz/A

Check

Sampled at 6 WAT

Harvested October 3, 2022



Raptor

Treatment	Rate/A	615 TRS (6 WAT)	885 TRS (6 WAT)
Raptor	1 oz	191 b	160 b
Pmax3	5 oz	251 a	225 a
Check	-	189 b	154 b
P-value		0.003	0.002

Harvested September 27, 2022



Thank You!

Questions?

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