

Center Coulter Fertilizer Trials and a Variety Update

WILSON JUDICE, ATTICUS FINGER, AND HERMAN WAGUESPACK

AMERICAN SUGAR CANE LEAGUE AGRONOMY STAFF

LACA 2024 – FEBRUARY 9, 2024

Fertilizer: Where To Apply?



Where This All Started





Two Consecutive Years/Four Treatments:

- **Splitting Stubble**
- **Coulters 18 inches apart**
- **Conventional**
- **Surface-applied**



Lever Test

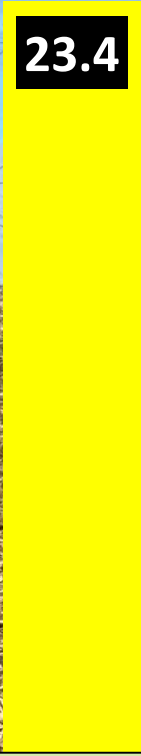
Two Treatments:

Center Coulter

Knives Behind Off-bar

Tons/Acre Coulter and Knife Applied Fertilizer

25



20

Tons/A

■ Coulter ■ Knives

Sugar/Ton Coulter and Knife Applied Fertilizer



Sugar/Acre Coulter and Knife Applied Fertilizer

5000

4000

3000



Sugar/Acre

■ Coulter ■ Knives

Woods Farm Test

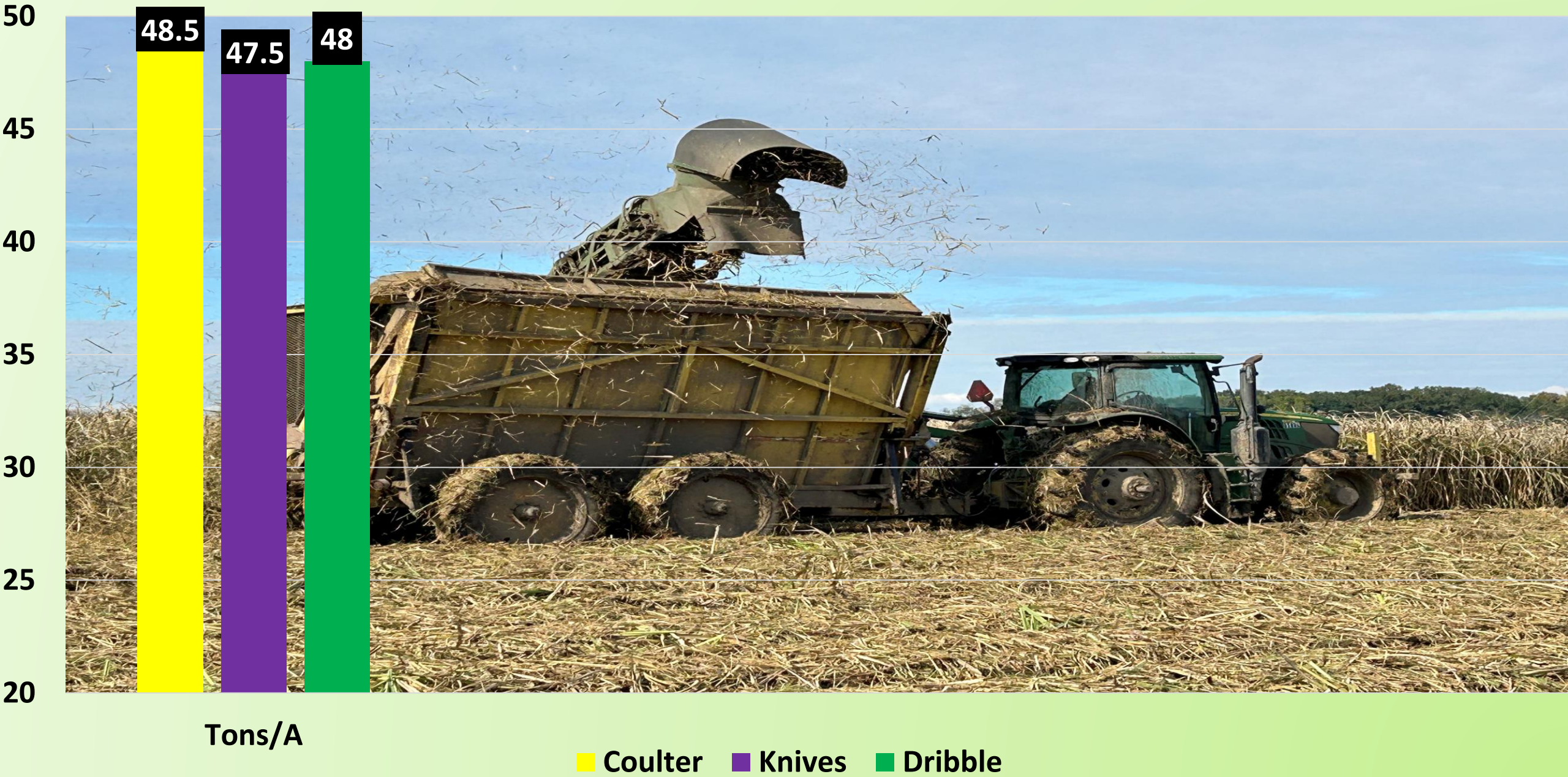
Three Treatments:

Center Coulter

Knives behind off-bar

Dribble behind off-bar

Tons/Acre Coulter, Knife, or Dribble Applied Fertilizer



Sugar/Ton Coulter, Knife, or Dribble Applied Fertilizer



Sugar/Acre Coulter, Knife, or Dribble Applied Fertilizer

11,000
10,500
10,000
9,500
9,000
8,500
8,000
7,500
7,000
6,500
6,000
5,500
5,000



Sugar/Acre

■ Coulter ■ Knives ■ Dribble



Questions?

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2023 Outfield Plant Cane

VARIETY	SPA		TCA		TRS		MSTWT		POPN		Obs.
L 01-299	8405		31.1		269		1.97		31858		30
HoCP 09-804	8429		30.6		273		1.63	-	39014		28
Ho 12-615	8838		33.2		266		1.83		37199		30
Ho 13-739	7913		29.3		269		2.06		38971		30
HoCP 14-885	10200	+	34.3	+	297	+	2.18	+	31418		30
L 15-306	9567	+	34.7	+	279		2.18	+	32058		28
HoL 15-508	7809		28.7		275		1.91		30190		29
Ho 17-738	7995		32.1		249	-	2.00		32448		30
HoCP 18-803	10768	+	38.9	+	275		2.12		37490		30
HoCP 19-947	8907		32.2		275		2.19		30025		29
Means	8883		32.5		273		2.01		34067		294

2023 Outfield Second Stubble

VARIETY	SPA		TCA		TRS		MSTWT		POPN		Obs.
L 01-299	8763		29.7		292		1.43		41184		30
Ho 05-961	5283	-	18.1	-	294		1.29		26804	-	27
HoCP 09-804	7572	-	26.0	-	289		1.11	-	73583	+	30
L 12-201	7347	-	24.1	-	301		1.69	+	28588		30
Ho 12-615	7705	-	26.6	-	287		1.24	-	43153		30
Ho 13-739	7365	-	24.6	-	298		1.63	+	29236		30
L 14-267	7800	-	26.4	-	294		1.73	+	30332		27
HoCP 14-885	8493		26.6	-	318	+	1.44		37324		30
L 15-306	8059		26.8	-	300		1.54		34251		27
HoL 15-508	7563	-	24.9	-	299		1.36		37091		30
Ho 17-738	7363	-	26.3	-	279	-	1.43		36989		30
CP 01-1372	6353	-	21.7	-	292		1.17	-	37678		24
Means	7472		25.1		295		1.42		38018		345

2023 Outfield Third Stubble



VARIETY	SPA		TCA		TRS		MSTWT		POPN		Obs.
L 01-299	9144		31.1		292		1.42		44292		18
HoCP 96-540	6099	-	20.5	-	295		1.55		27106	-	18
Ho 05-961	7838		26.2	-	297		1.41		36504	-	12
HoCP 09-804	8017		28.1		285		1.21	-	46950		18
L 11-183	5313	-	18.6	-	281		1.24	-	30311	-	18
L 12-201	6846	-	22.8	-	297		1.60	+	28790	-	18
Ho 12-615	7109	-	25.3	-	279	-	1.23	-	40995		18
Ho 13-739	7577	-	26.5	-	284		1.57		34013	-	18
L 14-267	8000		27.6		292		1.64	+	33515	-	17
HoCP 14-885	8279		25.8	-	321	+	1.54		34704	-	18
L 15-306	8212		27.1	-	300		1.43		38369	-	18
HoL 15-508	7643	-	24.9	-	305	+	1.43		35042	-	18
Means	7506		25.4		294		1.44		35883		209

2023 Outfield by Region

Region	TCA	TRS	SPA
West	26.41	283.73	7,457.4
Lower Bayou and River	31.36	289.24	9,016.73
Upper Bayou and Mid River	33.43	311.29	10,381.34
North	23.18	286.06	6,628.45



Laissez Le Bon Temps Rouler!

Outfield 2023 - 2020

Crop	Avg TCA	Avg TRS	Avg SPA
0	36.23	284.39	10273.62
1	30.21	301.50	9052.77
2	30.09	269.61	8140.15
3	24.11	288.68	6988.55
Average	30.16	286.05	8613.82

Outfield 2023 – 2020 by Region

West

Crop	Avg TCA	Avg TRS	Avg SPA
0	35.86	271.26	9740.18
1	31.70	304.47	9598.73
2	29.26	290.70	8523.35
3	28.14	266.88	7531.78
Average	31.24	283.18	8843.26

North

Crop	Avg TCA	Avg TRS	Avg SPA
0	35.08	280.48	9741.06
1	34.23	295.94	10123.66
2	29.02	245.23	7089.22
3	18.77	284.50	5375.72
Average	29.27	276.65	8085.92

Lower Bayou and River

Crop	Avg TCA	Avg TRS	Avg SPA
0	34.46	297.61	10261.35
1	19.87	315.41	6268.15
2	27.85	269.40	7489.88
3	26.01	299.56	7763.05
Average	27.05	295.49	7945.61

Upper Bayou and Mid River

Crop	Avg TCA	Avg TRS	Avg SPA
0	41.03	292.70	12014.78
1	31.21	295.16	9207.46
2	35.75	298.57	10660.73
3	29.14	309.59	9021.03
Average	34.28	299.00	10226.00

Questions?

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