

NUTRIENT EFFICIENCY

Rootex™ replacement of 10-34-0 on corn

CORN, under center pivot

RESEARCH OBJECTIVE

Quantify the ability to replace 10-34-0 with Rootex™ on corn.

KEY OUTCOMES

Replacing a single application of 10-34-0 (12 gal/acre) at planting with an application of Rootex at planting (2 qt/acre) and at V6 sidedress (1 gal/acre) increased yield by 12 bushel/acre.

BACKGROUND

The CRO stated, “All the nitrogen with Rootex™ was broadcast, while 13 lbs N with 10-34-0 was applied 2x2. This may have provided an early season N advantage to the 10-34-0 treatment.”

THE TRIAL



WHO:
SEAgR



WHAT:

		Grower Standard + 10-34-0	Grower Standard + Rootex™
At Harvest	Yield, Bu/Ac	247.2	259.1
	SEM, Bu/Ac	6.8	3.7
	Test Weight, Lb/Bu	60.2	61.2
At V5	Root Weight, g	5.6	8.0
	Plant Height, in	21.0	24.6
	Stem Diameter, mm	9.5	12.9

Treatment	N, lbs/acre	P, lbs/acre	K, lbs/acre	Timing & Application
Grower Standard with 10-34-0	239.7	125.7	141.5	10-34-0 was applied at planting
Grower Standard with Rootex	239.4	2.2	141.8	Rootex™ was applied in-furrow at planting & as a sidedress at V6



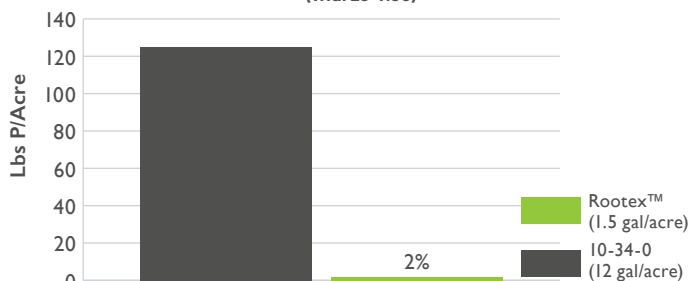
EVALUATION PARAMETERS:

- Yield
- Grain density
- V5 Evaluations



WHERE: Tifton County, GA

Applied Phosphate of 10-34-0 versus Rootex™
(Trial 23-N50)





Parameter	Control (%)	'Hercules' (%)
Root Weight, g	~5.5	43%
Plant Height, in	~22	17%
Stem Diameter, mm	~9	36%

Treatment	Yield, Bushel/Acre
Grower Standard + 10-34-0	~250
Grower Standard + Rootex™	~262.5 (↑ 5%)

Notes:

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