



Foliar Application of Lint Booster to Cotton

Great Plains Crop Services. Groom, TX

Experiment Info:

Planted:	06/10/20
Harvest:	11/15/20
Yield Goal:	1000
Target Fert.	105-35-0
Variety:	FM1911
Population:	35000
Row Width:	30"
Prev. Crop:	cotton
Plot Size:	4 row x 30'
Replications:	4

Soil Test Values (ppm):

pH:	7.3
CEC:	23
%OM:	2
Bray P1:	M3: 58
Bicarb P:	
K:	660
S:	11
%K:	7
%Mg:	24
%Ca:	68
%H:	
Zn:	0.7
Mn:	4
B:	1

Objective:

Evaluate foliar applications of AgroLiquid's Lint Booster at different rates and timing for effect on yield of cotton.

A replicated plot experiment was conducted in the Texas Panhandle to evaluate Lint Booster which is a new foliar fertilizer. It has an analysis of 7-2-4-1S with 0.1% Mn and 0.2% Zn and is intended to provide yield response without fear of leaf burn or other crop damage. Cotton was planted on June 11 which is much later than normal on account of excessive early season rain and storms. Cotton plots were mechanically harvested on November 15. Yield results from the different treatments are in the following table, which is arranged in order of yield from high to low.

Effect of Foliar Application of Lint Booster on Cotton Yield					
<i>Great Plains Crop Services - Groom, TX. 2019</i>					
	gal/A per app.	Pinhead Square	Early Bloom	Cutout	Lint lb/A
Lint Booster	1.5		X	X	1325
Lint Booster + B	2 + 0.125		X		1302
Lint Booster	1	X	X	X	1287
Lint Booster	2			X	1261
No Foliar					1213
Lint Booster	1.5	X	X		1204
Lint Booster	2	X			1182
Lint Booster	2		X		1113
Sure-K	1	X	X	X	1037

LSD(0.2): 118. CV: 12%

Conclusions:

- Yield response is greatest when Lint Booster is applied at later growth stages like Cutout when no more harvestable fruit is set, but bolls are still developing.
- The treatment containing MicroLink 5% Boron applied as a single application at Early Bloom was the second highest yielding treatment, yielding higher than a treatment at the same time without Boron. Growers are wary of foliar Boron.
- Sure-K has been utilized as a cotton foliar with mixed results. Cotton utilizes potassium during growth, but there is ample soil potassium at this site. The additional components of Lint Booster are beneficial.