

**Cotton.** (*Gossypium hirsutum*),  
Application of Quantum, Micro 581, 9% Boron  
Yield Increase

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### Application of Quantum, Micro 581 and 9% Boron for Enhanced Cotton Yields, 2011 & 2012

In 2011 and 2012, trials were conducted in Kinston, NC to evaluate a single application of Quantum at 1 gal/A applied 3 weeks after bloom with Micro 581 and 9% Boron both at 1 qt/A, and compared to an untreated check. In 2011 the trial was applied July 25<sup>th</sup>, 2011 and harvested on November 15<sup>th</sup>, 2011. The soil type was Pactolus. In 2012 the trial was applied on July 31<sup>st</sup>, 2012 and harvested November 25<sup>th</sup>, 2012. The soil type was Pamlico. Cotton varieties were Phytogen 375 and Phytogen 499 planted in 2011 and 2012, respectively. The Quantum products are clean, chloride-free liquid foliar nutrient blends utilizing slow release nitrogen technology and potassium thiosulfate. Nutrisol 9% Boron is used in soil and foliar applications on crops requiring Boron. NutriSol Micro 581 is a formulation designed for use on crops requiring a balanced fertility program requiring trace elements.

A yield increase was observed at both locations and in both years. In 2011 the single application of Quantum, Micro 581 and boron yielded a 73.57 lb increase which was a 7% increase over the untreated check. Similar results were observed in 2012 with the single application of Quantum, Micro 581 and boron producing a yield increase of 113.1 lb/A which was a 9% increase over the untreated check. Fiber quality measurements of strength, length and uniformity were also improved. However, there were no differences in micronaire. The results of this study indicated that a well balance fertility program during blooming can improve cotton yields.

<b>Kinston, NC 2011</b>		<b>Yield</b>	
<b>Treatment</b>	<b>lb/A Lint</b>	<b>% Increase</b>	
Untreated check	1053.25		
1gal Quantum 5-0-20, 1qt Micro581 + 1qt Boron 9% (3wks after 1st bloom)	1126.82		
	73.57	7%	
<b>Kinston, NC 2012</b>		<b>Yield</b>	
<b>Treatment</b>	<b>lb/A Lint</b>	<b>% Increase</b>	
Untreated check	1276.91		
1gal Quantum 5-0-20, 1qt Micro581 + 1qt Boron 9% (3wks after 1st bloom)	1390.01		
	113.10	9%	

Quantum is a product of Coastal AgroBusiness, 3702 Evans Street, Greenville NC 27834  
NutriSol Micro 581 and 9% Boron are distributed by Coastal AgroBusiness.