

Cotton. (*Gossypium hirsutum*),
Applications of Impact F
Yield Increase

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Application of Impact F for Enhanced Cotton Yields, 2011

Three trials were conducted in 2011 to evaluate the effects of Impact F versus an untreated check on cotton yields. At the first location in Colerain, NC, Impact F was applied as a single application 1 week post bloom (7-12-11). The second trial was located in Oak City, NC where Impact F was applied pre-bloom (6-23-11) followed by a second application post bloom (7-11-11). In the third trial located in Kinston, NC, Impact F was applied on 6-20-11 as a side dress treatment with 30% nitrogen at the 8 leaf stage of the cotton. Impact F was applied at 1 quart per acre at all three locations. Soil type at all locations was a Norfolk loamy sand. Yields were collected using the grower cooperators' harvester.

Impact F is a biological plant and yield stimulant designed for use as a foliar or soil spray. Impact F activity uses the cell dividing properties of cytokinins. Resulting actions can produce a substantial increase in crop productions and greatly enhance crop quality.

Impact F applied at 1 week after first bloom and 1 week after first bloom and then again 18 days later provided the biggest impact on cotton yields (Table 1 & 2). Side dressed applications did increase yield by 5% (Table 3). Based on the results of these 3 studies, Impact F increased cotton yields by 28% over the untreated check (Table 4). Future studies should include applications at side dressing followed by early applications at 1 week post bloom and then at mid bloom 14-21 later.

Table 1. Colerain NC		Table 2. Oak City NC	
Treatment	Yield (lbs of lint/A)	Treatment	Yield (lbs/A Lint)
Untreated Check	718.67	Untreated Check	389
Impact F	923.53	2 X Impact F	587
	204.86		198

Table 3. Kinston, NC		Table 4. Test Location Summary	
Treatment	Yield (lbs of lint/A)	Pounds increase	% Yield increase
1 qt/A Impact in N side dress	947.19	204.86	28.5%
N side dress Only	901.97	198	51%
	45.22	45.22	5%
		Average	149.36
			28%

Impact F is a product of Coastal AgroBusiness, 3702 Evans Street, Greenville NC 27834