

**Wheat. (*Triticum aestivum*).**  
Wheat Seed Treatment  
Improved Early Season Plant Development & Yield

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### Wheat Treatments to Improve Yields, 2013

A wheat trial was initiated to evaluate early season plant development and yields with wheat seed treated with various fungicides and biological products. Three separate treatments of ProShield, Impact S and Dividend® were applied prior to planting using the variety Cape Fear. Wheat was planted on November 21, 2012 near Columbia, North Carolina. Local grower practices were used to ensure optimum yields. Plots were harvested on June 17, 2013.

ProShield is a combination of fungicides and a biological plant growth regulator. Impact S is a biological plant and yield stimulant designed for use as a seed treatment. Impact S activity uses the cell dividing properties of cytokinins. Resulting actions can produce a substantial increase in crop production and greatly enhance crop quality. Both treatments were compared to a Dividend® treated check.

Based on initial visual observation all treated plots germinated and grew well. ProShield and Impact S treated plants had better and more robust root systems. By midseason (topdress) all plots were similar in visual observation of top growth. When the plots were harvested the ProShield plots out-yielded the Dividend® check by 18 bu/A, a 25% increase. Impact S plots out-yielded the Dividend® check by 16 bu/A, a 22% increase. Low disease levels were observed.

**Table 1.**

Treatment (bu/A)	Yield @ 13% Moisture	Increase over Check
ProShield	90.3	25%
Impact S	88.4	22%
Dividend® (Check)	72.31	

PROSHIELD and IMPACT S are products of Coastal AgroBusiness, Inc.  
DIVIDEND is a product of Syngenta Crop Protection. Greensboro, NC 27409.