

CORN. (*Zea mays*).
 2-Year Quantum SDS
 Improved Early Season Plant Development & Yield

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Applications of Quantum 15-0-12 -8S applied with a Fungicide Improved Corn Yields- 2 Year data

Applications of Quantum 15-0-12- 8S were applied with a fungicide in corn to evaluate the growth and development of the corn and to observe the effects of the fungicide. The trials were conducted in 2010 and 2012. The Quantum SDS line of products contains clean, chloride-free liquid foliar nutrient blends utilizing slow release nitrogen technology and potassium thiosulfate. Quantum can be mixed with fungicides, insecticides, and micronutrients (Micro581, Nutrisol 8% Manganese, Boron etc.)

In 2010, Quantum was applied at 1 gal/A when the corn reached tassel. Quantum was applied alone and in combination with the fungicide Domark® applied at 4 oz/A. Domark® is a triazole fungicide containing tetraconazole. Plots were located in Fairfield NC and maintained by the grower to ensure good yields. Plot sizes for each treatment were 20 acres.

In 2012, Quantum was applied at 2 qt/A with Domark® at 4 oz/A and compared to an untreated area. This study was located in Shawboro, NC and treatments were applied when corn reached the V4-V5 growth stage.

In the 2010 trial, Quantum applied with Domark® provided excellent growth and development of the corn. Yields collected at the termination of the trial indicated that Quantum + Domark® yielded a 5 bu/A increase compared to Domark® alone (Table 1).

In 2012, an early application of Quantum + Domark® applied at V4-V5 increased yields by 20 bu/A over the untreated check (Table 2.). This data indicates that an early application of Quantum is providing the proper nutrition at a time when corn is actively growing, and Domark® is providing excellent control of early season diseases. Application of a foliar nutritional package plus a fungicide at tassel is important in controlling later season diseases as the ear fills out.

Table 1. 2010 Trial	
Treatment	Yield @ 15% moisture
Domark 4 oz	194bu
Domark 4 oz + 1 gal Quantum	199bu
Table 2. 2012 Trial	
Treatment	Yield @ 15% moisture
Check	130 bu/acre
Domark 4 oz + 2 qt Quantum	150 bu/acre



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