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Confidential Client - Sweet Corn 2009

Objective: To test the effect of protocols featuring OceanSolution™ combined with reduced N rates on sweet corn yield.

Results: The 2009 trial compared a program featuring a full rate of a standard synthetic fertilizer program with an OceanSolution (OS) program featuring a 50% reduction of nitrogen.

Yield: The OS program out-yielded the synthetic program by 220 lb/acre with a 37% reduction in nitrogen application.

Test Plot	OS Yield (lbs/acre)	Synthetic Yield (lbs/acre)
Hybrid 1	15,648	14,987
Hybrid 2	20,718	20,497
Hybrid 3	15,428	16,089
Hybrid 4	16,530	15,869
AVG	17,191	16,971

Chemical and Nutritional Composition: Ear Leaf tissue analysis conducted at the University of Minnesota soils lab proved the OS program delivered 22% more iron to the sweet corn while producing 20% less aluminum and 39% less manganese, all of which indicate that the OS sweet corn was healthier. Also, a spectral analysis of the kernels performed by Thermo Fischer Scientific Labs, Shaumburg, Illinois revealed that the OS sweet corn contained considerably higher levels of magnesium, phosphorous, potassium, sodium, and zinc while maintaining 96% less aluminum and 68% less lead. All of these indicate the superior nutritional content of the OS corn.

Taste: The different types of corn were tasted by a panel which included a professional “super taster.” The primary super taster selected the OS sweetcorn everytime.

Conclusions: Tests with this confidential client demonstrated that OceanSolution programs can produce the same or greater sweet corn yields with significantly reduced nitrogen rates. The trial indicates possible benefits in kernel taste, chemical composition, and nutritional content.

