

Increased Corn Growth and Pumpkin Maturation Rate in Upstate New York, USA

A farm in northern New York wanted to increase corn growth and pumpkin maturation rates to meet an increased demand in product that season.

Basis of Treatment

ByoGrow products include a unique blend of components designed to correct soil problems and provide basic nutrient requirements of plants and crops. The primary ingredients in *ByoGrow* include a proprietary humic acid extract, essential soil microbes, and a proprietary microbial biostimulant. *ByoGrow NPK* also contains a blend of N-P-K nutrients.

ByoGrow is scientifically designed to restore and maintain naturally beneficial microbial colonies in multiple soil environments. *ByoGrow* is engineered with an organic derived extract and nine enhanced plant beneficial soil microbes that are assimilated by plants on a cellular level. This advanced formula increases natural biological activity, detoxifies soil from contaminants, accelerates root development for critical nutrient storage, protects against pathogenic diseases, and transports valuable nutrients from the soil into the cell membrane of the plant. *ByoGrow* also contains an advanced biostimulant alkaloid compound derived from plant extracts, primarily aloe vera and kelp. This patented component provides for microbial stimulation that functions at a subenzymatic level – naturally increasing biological activity and facilitating beneficial microbial outcomes.

Treatment

Approximately 50% of a corn maze used for fall harvest activities was treated with *ByoGrow NPK* at one gallon per acre. The corn was sprayed with diluted

product when the plants were approximately 3-4 inches high. An adjacent pumpkin patch was treated in a similar fashion with one gallon per acre shortly after planting.

Results

Results in the corn maze indicated increased corn growth rates were sustained in the treated portion of the fields. Representative samples of corn stalks were evaluated and treated stalks circumference was measured at 5.25 inches compared to 3.5 inches for untreated. Additionally, most of the sampled stalks from the treated areas were 1.5 to 2.0 feet higher than untreated with some stalks having three ears of corn compared to untreated stalks with two.

Pumpkins in the treated areas were ripe for market on August 5, approximately one month before untreated pumpkins. Most pumpkin stalks in the treated areas had more and larger pumpkins than untreated areas.

Summary

Treating with *ByoGrow NPK* helped a farmer in upstate New York with increased yields and faster maturation.

