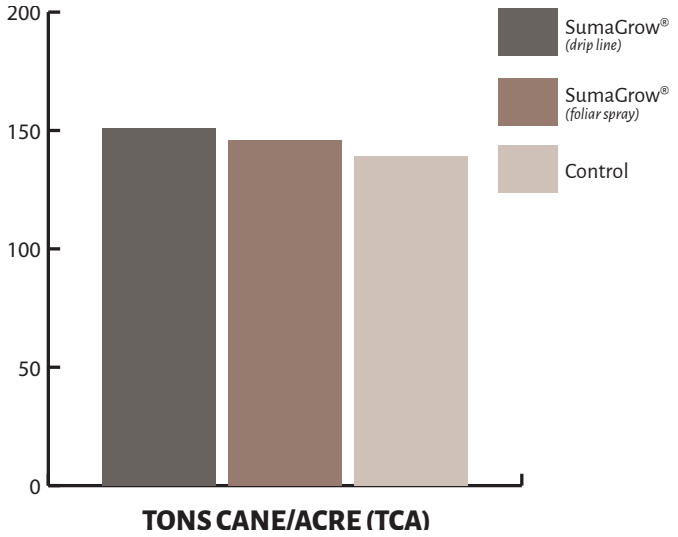
TRIAL RESULTS
EXECUTIVE SUMMARY

SUGARCANE - HAWAII

Research on the effect of products containing SumaGrow® on sugarcane in Maui, Hawaii

RESULTS			
Treatment:	**Weight**	**Phosphorus** *(ppm,ug/g)*	**Calcium** *(ppm,ug/g)*
SumaGrow® + Calcium Carbonate *(drip line)*	3763.333	65	4030
SumaGrow® + Calcium Carbonate *(foliar spray)*	3620.000	28	1694
Control *(no treatment)*	3453.333	22	1840



DISCUSSION:

The table above shows the calcium carbonate (sand) plus injected SumaGrow® had the greatest effects on increasing biomass of cane but had lower sugar content.

Additionally, the SumaGrow® and calcium carbonate had the most outstanding readings within the soil including the highest Electrical Conductivity (EC) of 0.5, highest value of phosphorous and total carbon in the soil, and also an outrageously high value of calcium.

All of these factors of increased nutrient availability and low nitrogen levels in the soil could indicate that the cane treated with SumaGrow® injection were still growing instead of ripening post fertilization and during the drying of the field. This is further indicated by its lower sugar content, higher cane biomass and the lower levels of nitrogen in the soil compared to the other treatment groups with lower EC and biomass but higher sugar content and soil nitrogen.

PRIMARY POINTS:

Crop: Sugarcane

Location: Maui, Hawaii

Layout: 30 ft. by 18 ft. plots with four rows

TREATMENT SCHEDULE:

The calcium carbonate was incorporated into the soil before planting.

The spray application was first applied at 2 gal/acre on July 23, and the second application was applied at 0.5 gal/acre on Oct. 4.

The injected application was applied at a rate of 1 gal/acre on Aug. 29 for the first application with the second application on Nov. 19 at 0.5 gal/acre and a third applied at 0.5 gal/acre on Sept. 1.

The field was allowed to grow for about 23 months. Fertilizer was applied to the field for the first year then only irrigated throughout the second. The irrigation was shut off in the end of February to start the drying and ripening of the sugarcane.

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