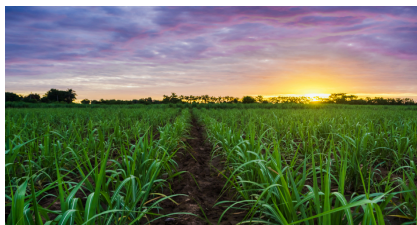


Sugarcane Case Study – McLean Farming in Mackay, Queensland



Three farm trials were established with McLean Farming in Mackay in October 2020 to assess NxtTech's range of crop nutrients particularly the impact of ortho silicic acid (OSA). The products used were: Geoxol soil conditioner, Silixol OSA and CitruSaver, which is an immune stimulator. The objectives were to increase cane yield, CCS (Brix) and reduce the incidence of yellow canopy syndrome (YCS). The crops were harvested in July 2021.

The first two trials resulted in significant increases in cane yield and minor changes in CCS. The farmer also reported much higher stick counts/metre for the treated crops. YCS was reduced initially but the effect gradually disappeared.

The results of the trials attached are promising with an average increase in cane yield of over 11 tonnes per hectare. Further trials are planned in 2021-22, which will include an increase in product applications. It is anticipated the higher doses will not only increase cane yield but also boost CCS and help to minimise YCS. Also, a trial in a different geographic area with different ratios of plant and ratoon cane is planned.

Summary Sugarcane Trial Results 2020-21

Company and Farm or block	Area	Variety	Class	Duration	Yield Increase	% Increase vs control
McLean Farming						
Block 1	1 Ha	SRA9	1R	10 months	11.3 tonnes	13.2
Block 2	1 Ha	183	3R	10 months	11.0 tonnes	12.9
Block 3	1 Ha	183	3R	10 months	-	-

Notes:

1. The soil at Mclean Farming has been treated with the IFERT fertiliser programme and is considered in optimum condition relative to other sugar growers. The fact the NxtTech products achieved an 11 tonne per Ha increase on this type of soil is impressive
2. CCS – Block 1: 14.43 treated vs 14.35 control;
3. Block 3 was not harvested due to problems at the local mill