

# Catalyst Project Report

## Grower Information

<b>Grower Name:</b>	Tony, John & Mark Bugeja
<b>Entity Name:</b>	BUGEJA J & J PTY LTD ATF J & J BUGEJA & SONS
<b>Trial Farm No/Name:</b>	MKY-04074C
<b>Mill Area:</b>	Mackay
<b>Total Farm Area ha:</b>	325
<b>No. Years Farming:</b>	45
<b>Trial Subdistrict:</b>	Homebush
<b>Area under Cane ha:</b>	290

## **Background Information**

**Aim:**

**To assess the efficacy of imidacloprid applied at varying rates.**

**Background:**

Imidacloprid is continually being detected in local waterways at above threshold levels. One way of reducing this value is to reduce the rates at which it is applied to the paddock. A number of growers apply grub control products on a yearly basis, however may not check to see if grubs are actually present in the soil.

This trial uses two rates and a nil treatment to assess whether the block requires treatment yearly and if it requires the full label rate of 1.4L/ha

**Potential Water Quality Benefit:**

Reduction in imidacloprid run-off

**Expected Outcome of Trial:**

Adequate grub control at reduced rates

**Service provider contact: Farmacist**

**Where did this idea come from: Grower/Farmacist**

<b><u>Plan - Project Activities</u></b>	<b>Date : (mth/year to be undertaken)</b>	<b>Activities :(breakdown of each activity for each stage)</b>
<b>Stage 1</b>	October 2018	Apply treatments
<b>Stage 2</b>	May 2019	Grub assessments
<b>Stage 3</b>	October 2019	Harvest for yield

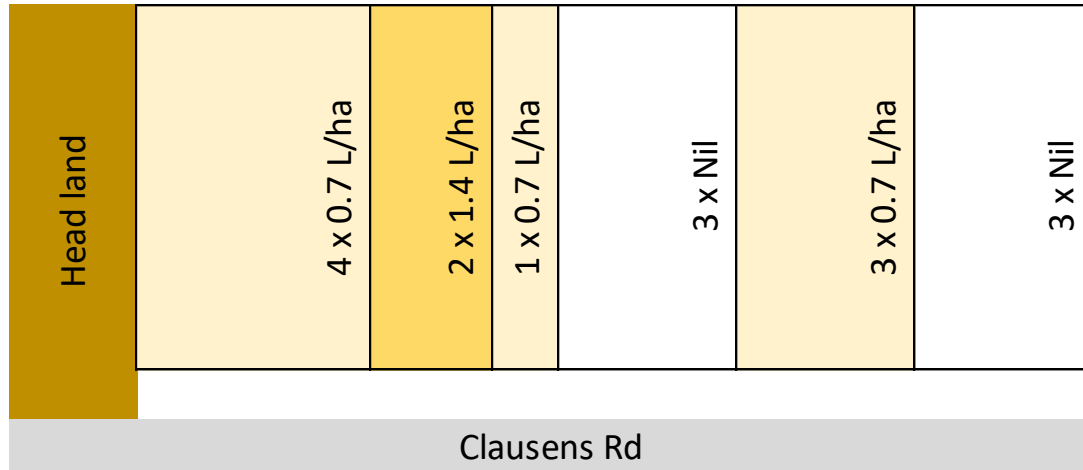
## Project Trial site details

<b>Trial Crop:</b>	Sugar cane
<b>Variety: Rat/Pit:</b>	Q240 2R
<b>Trial Block No/Name:</b>	18-1
<b>Trial Block Size Ha:</b>	19
<b>Trial Block Position (GPS):</b>	-21.253158, 149.074773
<b>Soil Type:</b>	Calen

**Block History, Trial Design:**

Tony Bugeja 2019 Imidacloprid Trial

↑ North



**Treatments:**

**T1. Nil**

**T2. 0.7L/ha**

**T3. 1.4L/ha**

## Results:

### Grub Counts April 2019

Grub counts were conducted at this site in April 2019 to assess the incidence of harmful cane grubs in the trial area. A number of stools from each soil zone in each treatment were assessed for grub presence.

No cane grubs were found across the whole site, however 2 redheaded grubs and 1 christmas grub were found in one of the untreated sections of the paddock.

These low pressures indicate that low levels of grubs were present in the paddock at this time. Further monitoring over a longer period is needed for more conclusive results.

The impact of these treatments on yield will be assessed at harvest.

## Conclusions and comments

Established 2018

Advantages of this Practice Change:

Disadvantages of this Practice Change:

Will you be using this practice in the future:

% of farm you would be confident to use this practice :

