Catalyst Project Report

Grower Information	
Grower Name:	Ross Windsor
Entity Name:	
Trial Farm No/Name:	MKY-04246A
Mill Area:	Mackay
Total Farm Area ha:	70
No. Years Farming:	20
Trial Subdistrict:	Sandy Creek
Area under Cane ha:	62

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 close the application channel using a stool zipper. This project will compare water quality from locations using a stool zipper (Figure 1)after application versus no stool zipper. This trial uses two treatments, one applied in an opening in the soil followed by the closing of the opening using a stool zipper and one applied in an opening in the soil with no closure. The stool zipper is a device that travels behind the applicator and closes the application channel over thereby reducing the risk of water entering the application channel causing imidacloprid to be transported out of the paddock (Figure 2).

Figure 1 - Stool zipper in application

Figure 2 - Comparison of application with and without a stool zipper

Potential Water Quality Benefit:
Reduction in imidacloprid run-off

Expected Outcome of Trial:
Improved water quality results

Service provider contact: Farmacist

Where did this idea come from: Grower/Farmacist

Plan - Project Activities	**Date : (mth/year to be undertaken)**	**Activities :(breakdown of each activity for each stage)**
Stage 1	September 2018	Block harvested
Stage 2	October 2 2018	Fertiliser applied
Stage 3	October 18 2018	Trial marked out and Inidacloprid applied
Stage 4	December 2018	Water quality testing commenced
Stage 5	September 2019	Block to be harvested

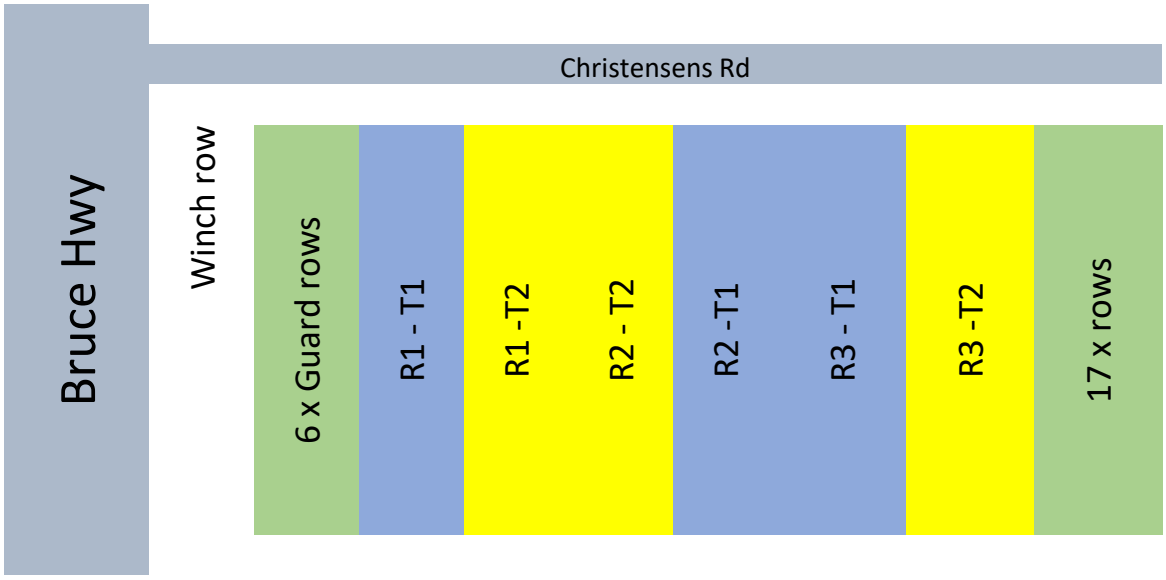
Project Trial site details	
Trial Crop:	Sugar cane
Variety: Rat/Plt:	Q240
Trial Block No/Name:	5-5
Trial Block Size Ha:	3.06
Trial Block Position (GPS):	-21.271195, 149.143065
Soil Type:	Calen/Brightley

Block History, Trial Design:

Imidacloprid run-off trial Ross Windsor 2018

North

Farm 4246, Block 5-5
Variety = Q240
Treatment 1 = Stool Zipper
Treatment 2 = Non-Stool Zipper
Each treatment 6 rows



Treatment area 6 x 0.33 ha
Row spacing = 1.6 m
Total area = 1.98 ha
Imidacloprid application rate = 1.2 L/ha @ 100 L/ha water
Product required = 2.4 L

Treatments:
T1. Stool zipper
T2. No stool zipper

Results:

Water Flow and quality

Water quality commenced in December 2018 and has continued sampling run-off events. Results are being assessed and will be provided in subsequent reports.

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 :