

## Calibration of liquid insecticide applicators for canegrub management

This calibration method can be used for all liquid imidacloprid products (Confidor® Guard, Senator®, Nuprid® and generic brands) and SHIELD systemic insecticide™.

### Equipment needed

- 100 metre tape measure.
- Measuring cylinder to measure up to 50 mm (with 1 or 2 mm increments).
- Stop watch.

Keep this sheet as a record of calibration

### Record the following:

Date: \_\_\_\_\_

Product applied: \_\_\_\_\_

Required insecticide product application rate in mL/100 m of row =

\_\_\_\_\_ mL/100 m row (A)

Row spacing in metres =

\_\_\_\_\_ m (B)

Tank volume in litres =

\_\_\_\_\_ L (C)

### Calibration procedure:

1. Convert application rate to L/ha:

0.1	x	Product rate (mL/100 m row) (A)	÷	Row spacing (m) (B)	=	L/ha (D)

2. Mark out 100 m and measure the time taken to drive that distance, in field conditions.

Tractor: \_\_\_\_\_ Gear: \_\_\_\_\_ Engine rpm: \_\_\_\_\_

Run 1: \_\_\_\_\_ secs Run 2: \_\_\_\_\_ secs Average time: \_\_\_\_\_ secs (E)

3. Measure output of all nozzles over one row, for the time recorded in Step 2.

Total nozzle output over one row: \_\_\_\_\_ L (F)

4. Calculate the water rate:

Total nozzle output over one row (F)	x	100	÷	Row width (m) (B)	=	L/ha (G)

5. Calculate the amount of liquid product to add to your spray tank

Spray tank volume (L) (C)	÷	Water rate (L/ha) (G)	x	Product rate (L/ha) (D)	=	L