

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 |
| | | | | | | |

