**Check filters, nozzle, nozzle output and pump before each spraying day.**

**Always use clean water.**

### 1 To calibrate

1.1 Measure swathe width of the mister ……..m

1.2 Fill and measure tank with clean water and mark the water level

1.3 Measure length of a dummy spray application run ……..m

1.4 Top up, and measure, spray tank to the level in 1.2 ……..L

### 2 Area treated

2.1 Multiply the swathe width (1.1) x distance travelled (1.3) to give the area treated in

square metres .…….m x …….m = ...…… m2

2.2 Divide 2.1 by 10,000 (square metres in a hectare) to give hectares treated in dummy run ………ha

### 3 Coverage per hectare

3.1 Divide volume used (1.4) by area treated (2.2)

……. L ÷ …… ha = ……. L/ha

### 4 Coverage by spray tank

4.1 Divide tank volume (1.2) by coverage/hectare (3.1)

.… L ÷ …… L/ha = …... ha/tank

### 5 Amount of insecticide to be added to spray tank

5.1 Multiply insecticide application rate from label by coverage (4.1) to give the

amount of insecticide to be added to a full tank

…… ml/ha x ....... ha/tank = ........ mL/tank

5.2 Divide mL/tank (5.1) by 1000 (mL in a litre) to give the amount of insecticide to add to the tank in litres

....... mL ÷ 1000 (mL per litre) = ........ L

**Example**

**Check filters, nozzle, nozzle output and pump before each spraying day.**

**Always use clean water.**

**1 To calibrate**

1.1 Measure swathe width of the mister **9** m

1.2 Fill and measure tank with clean water and mark the water level

1.3 Measure length of a dummy spray application run **500** m

1.4 Top up, and measure, spray tank to the level in 1.2 **10** L

**2 Area treated**

2.1 Multiply the swathe width (1.1) x distance travelled (1.3) to give the area treated in square metres **9** m x **500** m = **4500** m2

2.2 Divide 2.1 by 10,000 (square metres in a hectare) to give hectares treated in dummy run **0.45** ha

**3 Coverage per hectare**

3.1 Divide volume used (1.4) by area treated (2.2)

**10** L ÷ **0.45** ha = **22.2** L/ha

**4 Coverage by spray tank**

4.1 Divide tank volume (1.2) by coverage/hectare (3.1)

**400** L ÷ **22.2** L/ha = **18.0** ha/tank

**5 Amount of insecticide to be added to spray tank**

5.1 Multiply insecticide application rate from label by coverage (4.1) to give the amount of insecticide to be added to a full tank

**270** ml/ha x **18.0** ha/tank = **4860** mL/tank

5.2 Divide mL/tank (5.1) by 1000 (mL in a litre) to give the amount of insecticide to add to the tank in litres

**4860**  ÷ **1000** (per litre) = **4.86** L