



Example Boom Sprayer Calibration Form

Step 1:

Swath or spray width (m) = _____ m

Step 2:

Total Sprayer Output = Number of Nozzles x Output per nozzle (L / minute / nozzle)

$$= \frac{\text{_____}}{\text{number of nozzles}} \times \frac{\text{_____}}{\text{output per nozzle (L / minute / nozzle)}}$$

Total Sprayer Output = _____ L/min Total Sprayer
Output

Step 3:

Travel speed km/h = (distance travelled (metres) ÷ time(seconds)) X 3.6

$$= \left(\frac{\text{_____}}{\text{Distance travelled (metres)}} \div \frac{\text{_____}}{\text{time (seconds)}} \right) \times 3.6$$

Travel speed = _____ km/h

Other Useful Formulas

Calculating travel speed in metres /sec

m/sec calculation = distance travelled (m) ÷ time (s)

_____ m ÷ _____ s = _____ m/s

eg 100m travelled in 25 seconds $100 \div 25 = 4\text{m/sec}$

Tip: 60 seconds in 1minute

Calculating product use rate per 100L

= (Required rate/ha ÷ Spray application rate L/ha) X 100

(_____ (kg or L)/ha ÷ _____ L/h) X 100

= _____ kg or L/ 100L

Tip:

1000grms = 1kg

1000ml = 1L