



CALIBRATION EXERCISE

Sprayers

Calibration of your equipment will provide:

- A cost effective pesticide application
- The precise amount of chemical for your given area and / or target.
- Minimal impact on the surrounding environment.

To calibrate spray equipment: Knapsack

Step 1 - Measure the sprayer output for 30 seconds.

Simply add 5 litres (1 gallon) of water to your sprayer.

Then pressurise your sprayer, keeping the pressure constant. Aim the nozzle into a beaker or bucket and apply for 30 seconds.

Measure the amount of water pumped out of your sprayer, repeat this process three times and get the average.

Example = 0.35 litres of water in 30 seconds.

Step 2 - Walking speed.

Measure the time it takes YOU to walk in 30 seconds and repeat this process 3 times to get the average.

Example = 10m

Step 3 - Width of spray pattern

Using this process you can calibrate the output of your sprayer over a particular area. Measure the width of your spray pattern. With this measurement and the measurement of your average distance walked in 30 seconds you can multiply the 2 figures to obtain the square meters / yards of your spray pattern.

Example = Spray pattern = 0.30m

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For example: Your average distance walked over 30 seconds is 10m and the width of your spray pattern is 0.3m, then simple $10\text{m} \times 0.3\text{m} = 3\text{m}^2$

Step 4 - Amount of water needed.

Multiply the area by the output of your sprayer.

For example 0.35lt divide $3\text{m}^2 = 0.116\text{lts}$

Therefore you are using 0.116 litres of water per 1 metre square.

If you were to spray an area, for example 100m^2 , then you would multiply your figure which in this example is $0.116\text{lts} \times 100\text{m}^2 = 11.6$ litres of water

Step 5 - Amount of chemical needed.

If your rate of chemical is 10 ml / 1 litre of water

$11.6\text{lts} \times 0.01 = 0.116$ litres

Therefore 116mls of chemical would be required to cover 100m^2 through this particular nozzle settings and sprayer.

Please refer to the manufacturers product labels for application rates for all products.

For general information regarding all our products, please contact sales@walkoversprayers.com. Or call 0845 521 1209