



Syngenta Turf Spray Calibration Checker

The Syngenta Turf Sprayer Calibration Checker has been specifically designed to enable quick and routine maintenance of sprayer output at optimum levels, with the minimum of down time.

The advantages:

- **Quick and easy to use**
- **Works for all 0.5 m nozzle spacing booms**
- **Requires no reference to calculations**



How to use the calibration checker

- 1 Ensure you have already calibrated your sprayer using the calibration calculations shown below
- 2 To check your nozzle output at anytime after calibration, select your forward application speed from the left hand column of the table printed on the cylinder
- 3 Read off the calibration time in seconds from the right hand column for your chosen forward application speed
- 4 Collect the output of one nozzle for the specified time and read off the water volume per hectare that would be applied
- 5 If the output level is above* the required volume the sprayer operating pressure should be reduced. If the output level is below the required level the sprayer pressure needs to be increased
- 6 Adjust the sprayer pressure as required and recheck nozzle output

* If the application rate is significantly different to the required level, it may be necessary to change the size of nozzle used. Refer to nozzle manufactures output charts to select an appropriate size nozzle and recheck

Initial sprayer calibration

Accurately check the forward speed when spraying.

Forward speed (Km/hr) =	$\frac{360}{\text{Time taken to travel 100 m (seconds)}}$
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Collect the output from one nozzle for one minute. Use the result to calculate the expected application rate (litres/ha).

Water volume rate (litre/ha) =	$\frac{\text{Nozzle output (l/min)} \times 600}{\text{nozzle spacing (m)}} \div \text{Forward speed (km/h)}$
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Checking nozzles

- Routinely check the consistency of nozzle output across the boom. Collect and record the output from each nozzle for 30 seconds. Work out the average. If the difference with any nozzle is greater than 5% from the average, nozzles are unacceptably worn and the whole set should be changed.

For further advice and information take a look at the Syngenta Art of Application Zone on the dedicated turf management website www.greencast.co.za

The Syngenta Art of Application

Accurate spray application is an essential element of getting the best possible results from every fungicide, herbicide or growth regulator application.

The Syngenta Art of Application package provides turf managers and sprayer operators with the essential tools and advice to get sprays on target and applied in the optimal way – the **right product**, at the **right time**, in the **right place**.

Syngenta XC Turf Nozzles



- Designed specifically for turf applications
- More even coverage
- Better all-round leaf coverage
- Improve results
- Enable lower water volumes
- More effective on undulating ground
- Reduce risk of drift
- Increase spraying opportunities

Syngenta GreenCast

GreenCast provides a wealth of information to help maintain and improve turf quality, along with dedicated advice for better spray application.

www.greencast.co.za



GreenCast provides free:

- On-line advice and the latest information to help you achieve more accurate application
- Disease Risk forecasting giving up to five days advance warning of disease attacks, to enable better timing of fungicide applications
- Spray window forecasts let you know when there will be a chance to spray
- Podcasts with advice on spraying techniques
- Downloadable spray record sheets
- On-line spray calculation and calibration tools
- Full product advice and information on how to get the best results

Art of Application

Calibrate | Spray | Report | Deliver

Syngenta Nozzle Height Indicators



- Constant check that the boom is operating at the optimum height
- Quick and easy to fit
- Does not interfere with folding booms
- Flexible material causes no damage to turf

How to use

Syngenta Nozzle Height Indicators are fixed onto either end of the boom, requiring no tools or adapters. The flexible design fits all sprayers.

Each Nozzle Height Indicator is pre-marked every 5 cm; simply count off the number of marks from the bottom of the nozzle to the required spraying height above the turf and snip off with pliers.

Always measure nozzle height from the tip of the nozzle to the target turf surface.

IMPORTANT: The height from the nozzle tip to spray target has to be 50 cm for the nozzle to work effectively.

Adjust the boom to the correct height.

For fixed boom sprayers Nozzle Height Indicators are a valuable addition in checking suspension systems are operating correctly. With hydraulically adjusted boom height the Indicators are essential to ensure that nozzles are set to the correct height every time.



syngenta®



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