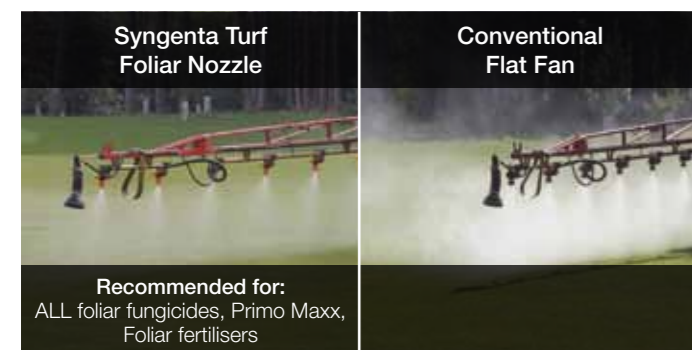


Fine Tuning

Fine tuning to deliver the final 10% performance from turf products brings together all the skills and tools available to sprayer operators to get the best possible results.

New

Syngenta Turf Foliar Nozzles have been specifically designed to improve application techniques in turf and to enhance the results that can be achieved with Syngenta Turf products.



- Specific nozzles for turf applications
- Target sprays where required for the best possible results
- Syngenta Turf Foliar nozzle provides up to 75% more droplets than conventional air induction nozzle – for optimum leaf coverage
- Excellent drift reduction – gives up to four more days of spraying per month vs conventional flat fan
- Increase spray retention on the leaf
- Enable reduced water volumes – lower water volumes increase work rates and can enhance product performance
- Designed exclusively by Syngenta application specialists



Syngenta Nozzle Height Indicators



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

Syngenta Training & Technical Support



- On-Line application podcasts and training
- Application Technical Updates and reports
- On-line Forum for application advice and discussion

Syngenta Sprayer Calibration Checker System



- Quick and easy to use for calibrating conventional boom sprayers
- Designed specifically to check calibration of nozzles operating at typical turf spraying water volumes
- Works for all 0.5m nozzle spacing booms – with simple adjustment for other nozzle spacings
- Precision pre-marked cylinder requires no reference to calculations

GreenCast®

Syngenta GreenCast

The Art of Application Zone is an integral part of Syngenta GreenCast, the UK's most advanced turf management website. GreenCast provides a wealth of information to help maintain and improve turf quality, along with dedicated advice for better spray application.



GreenCast is free of charge and provides:

- On-line advice and the latest information to help you achieve more accurate application
- Disease Risk forecasting gives 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 for advice on spraying techniques
- Downloadable forms for your spray records
- On-line spray calculation and calibration tools
- Interactive Top Tips Forum for application advice
- Full product advice and information on how to get the best results from your applications

www.greencast.co.uk / www.greencast.ie

Turf Spray Application on Target to Deliver



Art of Application

CALIBRATE | SPRAY | REPORT | DELIVER

Watch new Syngenta nozzles in action on GreenCast – www.greencast.co.uk / www.greencast.ie

Accurate spray application is an essential element of getting the very best possible results from every fungicide, herbicide and growth regulator application; achieving 90% control is good, but helping achieve the final 10% can make the crucial difference in delivering consistently great turf quality.

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**.

Fine tune performance to complete the picture and achieve a great result



Turf managers need to get the best possible performance from every aspect of turf treatment; selecting the right product is half the battle, but putting it on at the right time and accurately is equally important. Fine tuning with nozzle selection can deliver the final 10% to complete the picture and achieve a great result.

Fungicide Timing to Tackle Disease

Having selected the correct product, the timing of application – to hit the target when the active ingredient will work most effectively – is crucial to get the very best performance.

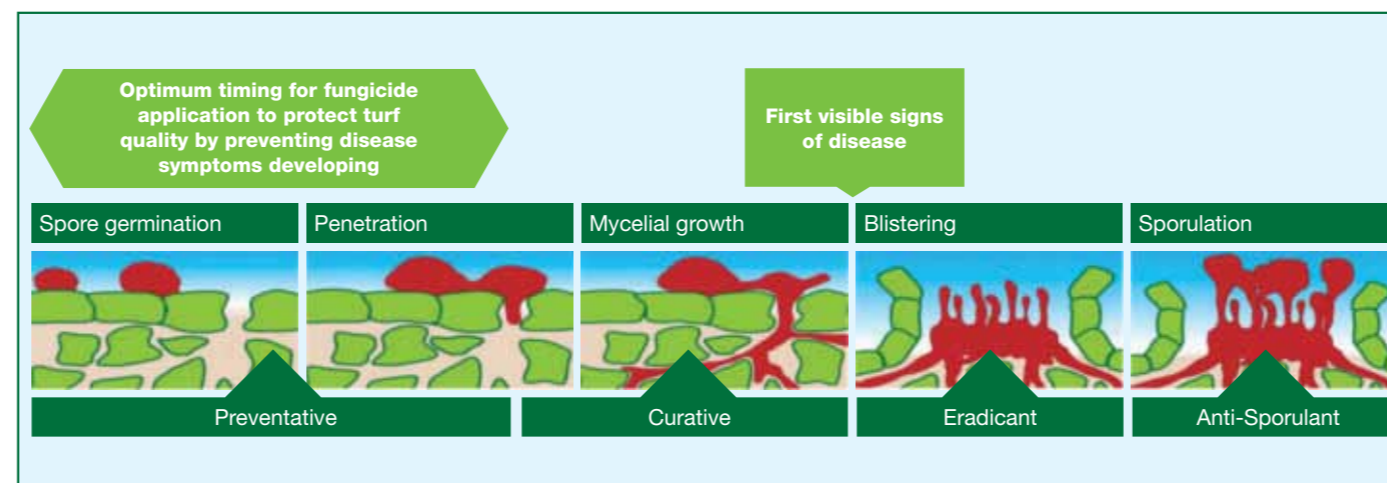
Independent STRI trials have shown the best results with most fungicides can be achieved from application when there is a risk of disease attack, but before there are any visible signs of infection.

Syngenta GreenCast Five Day Weather and Disease Summary is a unique turf disease forecasting system providing turf managers with five days advance warning of localised conditions posing a risk of turf disease infection. Using the GreenCast system can help decide the optimum

timing for the right fungicide application to prevent disease breaking out.

STRI trials validating the GreenCast system have shown applications based solely on the disease risk forecasting can maintain better turf quality from fewer fungicide applications and at lower cost over the course of the season, compared to routine application or treatment at the first visible signs of infection.

Application of fast acting Syngenta fungicides at the first visible signs of infection can stop the spread of disease and protect surrounding clean turf, to prevent further loss in quality and aid recovery of healthy turf.



Sprayer Set-up & Calibration

Application technique, sprayer maintenance and set-up has a fundamental role in ensuring consistently accurate application – that sprays hit and are retained on their intended target.

- Visually inspect nozzles, pump and pipes for leaks before every use
- Regularly check nozzle height, boom stability and tyre pressure
- Service sprayers thoroughly each season
- Undertake an independent National Sprayer Testing Scheme (NSTS) inspection each year

Walk-behind sprayers, frequently used to treat the most sensitive greens and selected areas, must also be subjected to the same routine maintenance to ensure they continue to give accurate results.

Knapsack applications are widely used in turf and amenity situations for spraying selected or inaccessible areas. Operators must take extra care to ensure they are achieving consistent and even application at the desired rate of product to the area treated, and avoid over wetting of the leaf to the point of run off.

Calibration

Regular calibration of your sprayer is essential to check the right application rate is being achieved.

Nozzles must be regularly checked to ensure consistent application across the spray boom – the complete set should be replaced if there is greater than 5% difference between nozzles. Use the Syngenta Calibration Checker System to quickly and accurately assess nozzle output and spray water volumes.

Nozzle height

The operating height of the sprayer nozzle tip is critical for maintaining the spray pattern coverage, and should operate at 50cm above the target as well as a significant impact on potential spray drift. Undulating golf course greens and surrounds present a difficult challenge for operators. Check booms are level, ensure any boom suspension system is operating effectively and fit the Syngenta Nozzle Height Indicators to assure accurate and consistent results.

Visit the GreenCast Art of Application Zone to download guidelines to aid calibration of boom and knapsack sprayers, along with calibration and spray record sheets.

Water volume

High water volumes can lead to over wetting of the leaf and run-off of the product. Syngenta trials have shown that, where the label permits and accurate application can be maintained, reducing water volumes can enhance results with Syngenta fungicides, herbicides and growth regulators.

Reduced water volumes when using new Syngenta Turf Foliar Nozzles means faster spraying operations that will:

- Reduce disruption to play
- Enable more timely applications
- Release time for other turf management

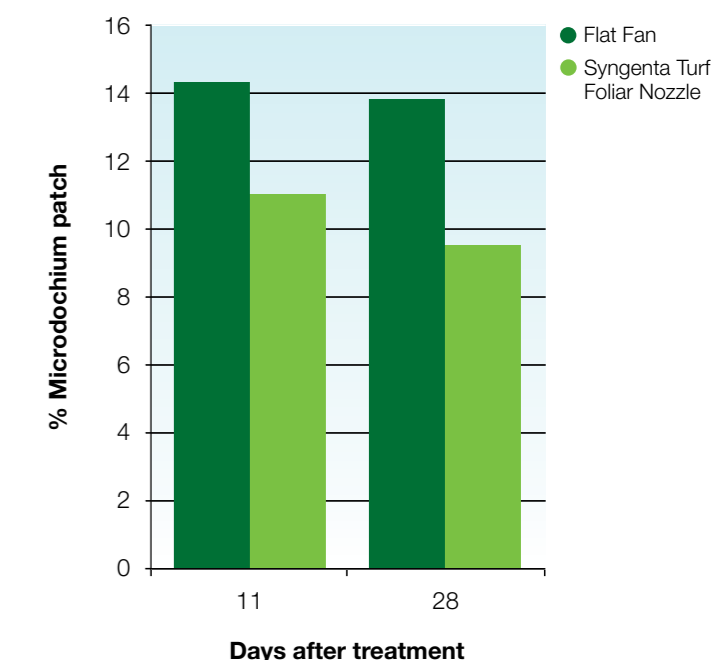
In practice, reducing water volume from 500 l/ha – 125 l/ha can give a 70% increase in sprayer output.

Nozzle selection

Nozzle selection and the droplet spectrum of the spray pattern can have a dramatic effect on hitting the target and spray retention on the leaf when required.

Conventional flat fan nozzles can, achieve a good overall result. However, the largest droplets produced by flat fan nozzles are more inclined to bounce and roll off the leaf, whilst the smallest droplets are lost as spray drift; 10% of spray lost as run off or drift immediately means 10% loss in potential product efficacy.

Syngenta Turf Foliar Nozzles are specifically designed for turf applications to operate effectively at optimum water volumes and, since they are significantly less susceptible to drift, enable more spraying days to ensure application at the best possible timing. Syngenta Turf Foliar Nozzles have been shown to enhance the efficacy and longevity of turf disease control:



STRI 2009 - Instrata 9 l/ha