



Bayer CropScience Pty Ltd
ABN 87 000 226 022
Level 1, 8 Redfern Road
Hawthorn East Vic 3123
Australia
Tel. +61 3 9248 6888
es.bayer.com.au

News Release

Managing turf in periods of low sunlight levels and shade

Australia, March 2021

Overcast weather conditions being experienced in eastern regions of Australia, with regular and consecutive days of very low sunlight levels, combined with rapidly shortening day length, can place increased abiotic stress on turf plants. Low light levels can reduce the photosynthetic rate and the build-up of carbohydrate reserves in turf.

In low light, couch grass becomes thin, off-colour, weak looking and mower scalp injury is common (algae can then establish.) Cool-season turf with low energy reserves due to low light conditions may compromise speed of recovery from autumn renovations.



How can Stressgard help mitigate stress from shade and low light conditions?

The science:

- 1) Photosynthesis is the driver of all plant energy production and subsequent processes
- 2) The protection and maintenance of chlorophyll with Stressgard ultimately improves the turf's ability to photosynthesise, which is beneficial to all turfgrass under any stress condition

The research:

- 1) A study by *Huang and Liu*, published in 2009 in the International Turfgrass Society Research Journal showed that Signature® Stressgard® alone in the absence of disease, can improve photosynthesis under low light conditions.
- 2) Research by *Danneberger et. al* in 2017 from Ohio State University demonstrated the positive impact of Signature on creeping bentgrass in shade, being thicker, more rigid cell walls, complete cells and higher internal turgor pressure leading to upright, non-elongated growth.

Stressgard Benefits – Quality and vigour under shade stress



2017 Shade Stress Trial. Dr. Bingru Huang, Rutgers University

Product/ Disease	Anthracnose	Brown Patch	Dollar Spot	Fusarium	Gray Leaf spot	Helminthosporium	Pythium	Rust
Exteris Stressgard		✓	✓	✓	✓	✓		✓
Interface Stressgard		✓	✓	✓	✓	✓		✓
Reserve Stressgard		✓	✓					
Signature Xtra Stressgard	✓						✓	



About Bayer

Bayer is a global enterprise with core competencies in the life science fields of health care, nutrition and agriculture. Its products and services are designed to help people and planet thrive by supporting efforts to master the major challenges presented by a growing and aging global population. Bayer is committed to drive sustainable development and generate a positive impact with its businesses. The company has operated in Australia since 1925 and has a long term commitment to the health and nutrition of all Australians. Locally, Bayer currently employs almost 900 people across the country and is dedicated to servicing the needs of rural and remote communities. The Bayer brand stands for trust, reliability and quality throughout the world. For more information, go to crop.bayer.com.au

Contact:

James Royal

(m) 0408 903 252

www.es.bayer.com.au

@Amplify_Turf

Forward-Looking Statements

This release may contain forward-looking statements based on current assumptions and forecasts made by Bayer management. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. These factors include those discussed in Bayer's public reports which are available on the Bayer website at www.bayer.com. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.