



Signature XTRA Stressgard®

The best

just got better

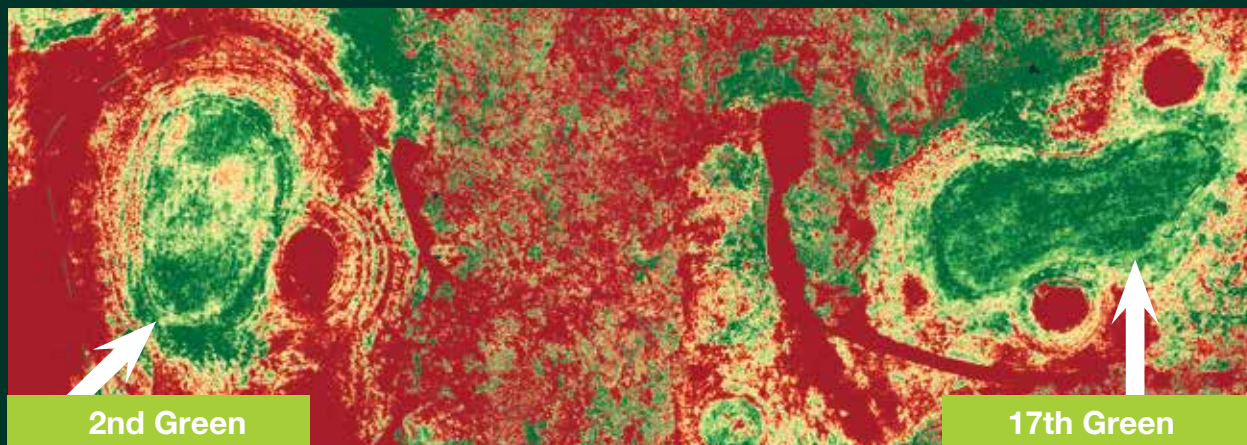


The best

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Standard Program

Signature Xtra Stressgard Program



NDVI* imagery, taken 25th March, comparing the turf on the 17th green treated with a Signature Xtra Stressgard program versus the 2nd green with a standard program. The results show turf in the Signature Xtra Stressgard treated green is healthier and more consistent.

*NDVI = normalised difference vegetation index.



We've only got 4 people on staff so using something like Signature Xtra with Stressgard formulation I could really see it help and I could take people off hoses and use them around the course.

With the treated greens, the roots are down to around the 13 cm mark which obviously gives them more of a chance to hold on during those stressful times which is great to see.

Been able to stick to my program and use that consistently has been really good. It's been really good peace of mind being able to come in each day and find it just the way you left it the day before and being able to carry on with your usual work, it's been really good."

Keenan Hobbs, Superintendent, Shoalhaven Heads Golf Club

// Couchgrass, North Queensland



Standard Program



Signature Xtra Stressgard Program



We've had over 2 metres of rain over the wet season. December and January alone we had over 1.8 metres over the Christmas, New Year period. Our front 9 greens normally give us the most disease pressure, all on one side of the course where we normally get the disease. The 9 treated greens came up well, we had a lot of rain and then some days were over 40 degrees as well ... so for them to come through that alright was very impressive. We normally get a lot of Pythium in these greens, so not to get any major Pythium outbreaks throughout the entire wet season, and it's been a really bad wet season this year, has meant a great deal to the club."

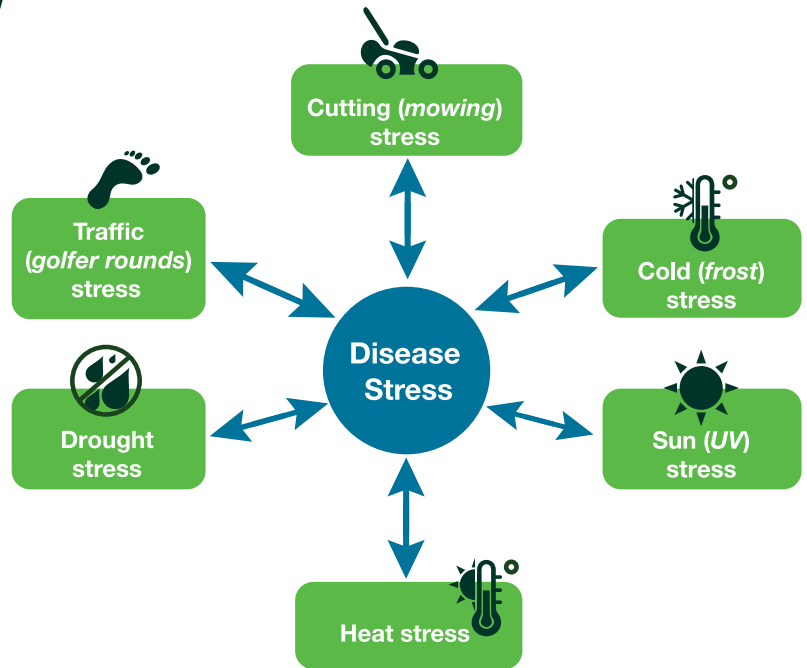
Grant Cockerell
Superintendent, Half Moon Bay Golf Course

The best

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Signature Xtra Stressgard is a true systemic fungicide that controls tough turf diseases – pythium and anthracnose, as well as enhancing turf health and minimising turf stress from abiotic and biotic sources.

A new and improved formulation of fosetyl-aluminium, optimised with new proprietary components to provide excellent preventative control of turf disease and turf health improvement even under the most severe environmental conditions.



“With Poa greens your stress level throughout Spring/Summer is huge! Our greens have a shallow root system, high organic matter underneath. This makes it quite a challenge in Spring/Summer not to lose grass, and if you do lose grass, the recovery is not there.

We sprayed the back 9 greens with Signature Xtra Stressgard, we've had no disease pressure for the entire Spring/Summer season which is great. Being Poa greens we get high disease pressures, and the Signature Xtra Stressgard has really helped us get through the season quite well. We also found other benefits as these greens didn't suffer from wilt as much as the front 9.”

Chris Allen, Superintendent, Keysborough Golf Club

// A two-pronged approach to reducing turf abiotic stress

From outside
– UV protection

From inside-up
– regulation of the
plant's natural
defenses

End Result –

- Prevents oxidative damage to membranes
- Protection and retention of cell turgor
- Retention of chlorophyll
- Increase in net photosynthesis

Science for a **better life**



<i>Features</i>	<i>Benefits</i>
// Improved preventative control of pythium and anthracnose <ul style="list-style-type: none"> - Pythium root rot and pythium blight - New formulation now controls anthracnose - No documented reports of resistance development 	// Healthy, uniform turf that is free from disease <ul style="list-style-type: none"> - Turf is protected above and below ground from two of the most damaging diseases to highly maintained turf - Trusted disease control with no known resistance after 30 years of use
// Enhanced Stressgard Formulation Technology for proven plant health effects <ul style="list-style-type: none"> - Alleviates both abiotic and biotic stresses, proven in independent university trials - Optimised formulation reduces oxidative stress 	// Improved turf health during periods of stress <ul style="list-style-type: none"> - Healthier roots, leading to better water and nutrient utilisation - Wilt protection - Mitigation and recovery from wear stress and mechanical damage (eg. aeration, scalping) - Improved turf colour, quality and density
// Flexible rate and spray interval structure	// Greater application flexibility <ul style="list-style-type: none"> - Tailor a program to location and season specific conditions, optimising resources
// Enhanced dispersable granule formulation with minimal dust in an HDPE bottle	// Easier to use <ul style="list-style-type: none"> - Easier to pour, mix and apply, with improved compatibility. Improved storage
// Upwards and downwards systemic mobility in the plant	// Flexible product placement <ul style="list-style-type: none"> - Able to target protection of root diseases without the need for follow up irrigation - Easy to schedule into foliar application program

Signature Xtra Stressgard has a range of application rates and interval ranges to give turf managers greater application flexibility and the ability to tailor an application program to disease pressures as influenced by geography, turf type and climatic conditions.

CROP	DISEASE	DISEASE PRESSURE	SPRAY INTERVAL	RATE	CRITICAL COMMENTS
Turf	Pythium (<i>Pythium</i> spp.) Anthracnose (<i>Colletotrichium graminicola</i>)	Low	14 days	5.5 kg/ha	Select application rate and corresponding spray interval according to disease pressure and spraying schedule. Refer to Disease Pressure under General Instructions. Begin application when conditions first favour disease development and repeat application until conditions no longer favour disease. Apply 400 – 800 L water/ha.
			21 days	11.0 kg/ha	
		Moderate to high	7 days	5.5 kg/ha	
			14 days	11.0 kg/ha	
			21 days	16.5 kg/ha	
		Severe	7 days	11.0 kg/ha	
14 days	16.5 kg/ha				

Active ingredient: 600g/kg FOSETYL-ALUMINIUM

Pack size: 2.75kg HDPE bottle



Our front 9 greens suffer from shade issues and air movement issues. We sprayed them with Signature Xtra Stressgard. The way these greens performed compared to a fairly comprehensive program for our back 9 greens with just circulating one product, is a real positive. It was interesting to see the different label rates and the way the program was actually written by Bayer. It seemed to work well for us in the times of high disease pressure to up the rate and keep the frequency the same.

What was good was that it came in a bottle so measuring wise it was better so whenever you had any left over, not being in bags, you could put the lid back on. The way that it mixes is similar to the existing Signature and it mixed well with other products which is good."

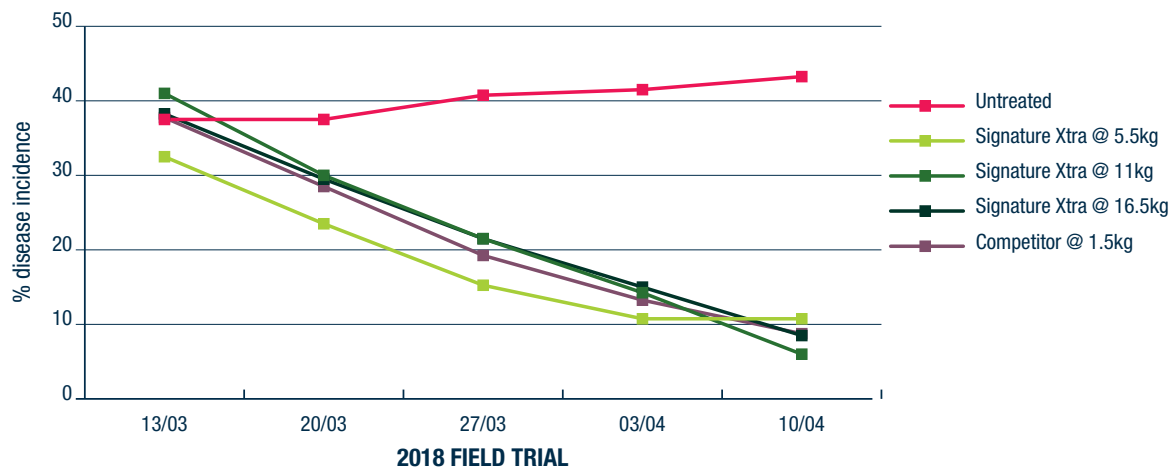
Gareth Hammond, Terrey Hills Golf and Country Club



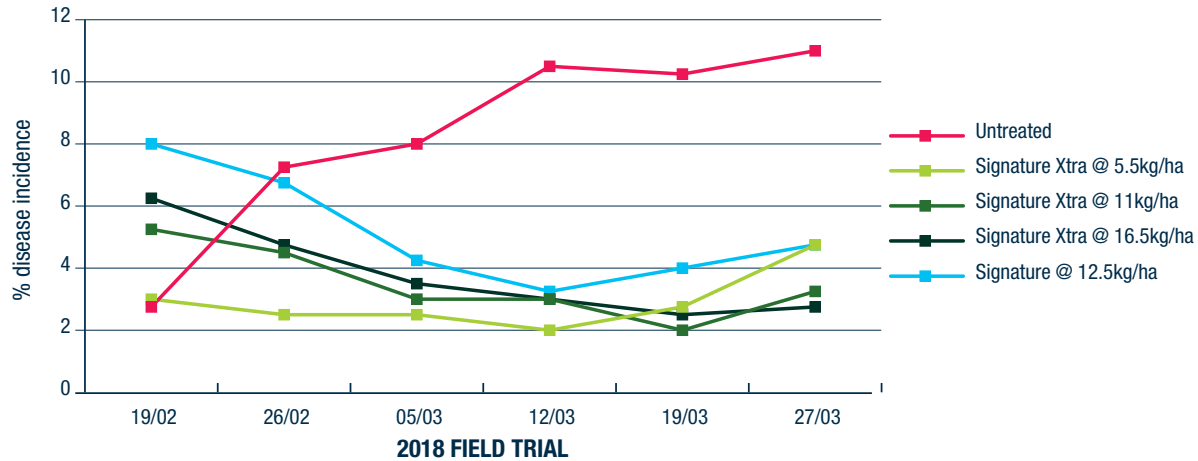
Signature XTRA
Stressgard®

Trial Data

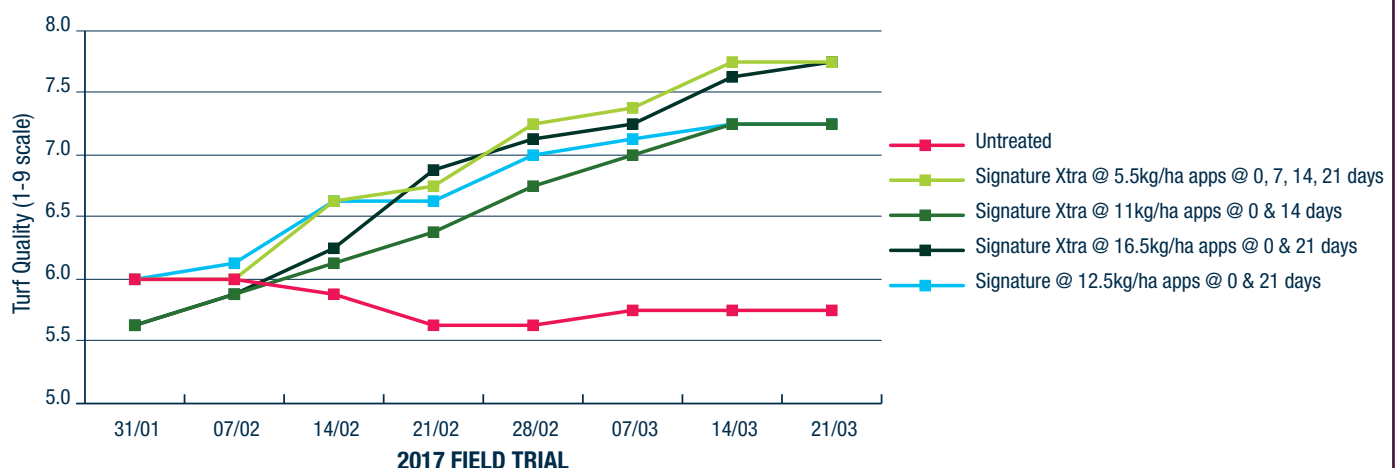
Anthracnose – Poa, Sydney



Pythium – Couchgrass, Qld



Turf quality in Pythium trial, Bentgrass, Sydney



Trust

the Bayer brand

// Science For A Better Life

Every day, turf managers around the world face extreme challenges to prepare high quality and consistent surfaces that meet the playability requirements of their customers. Turf stress induced by severe environmental conditions is just one example of many challenges.

With this in mind, Bayer is committed to research and development, striving to identify and develop new and innovative solutions for turf managers.

The development of Signature Xtra Stressgard is a direct result of this investment and after 3 seasons of successful use in the United States, Bayer is excited to be making this advanced formulation of Signature available to Australian turf managers.

As an inventor company, Bayer sets trends in these research-intensive areas. Bayer's product and services are developed to improve the quality of life. Bayer is committed to the principles of sustainable development, placing equal value on our economic, environmental and social performance.

Environmental Science, a business unit of the Crop Science Division of Bayer, is a leader in our industry today, and aspires to become a thought leader tomorrow. Guided by our purpose of "Fostering healthy environments where we live, work and play", we aim to provide to our customers high-quality solutions beyond products, investing in innovation, promoting sustainable development and strengthening our customer centricity.



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