

Turf Nu's

October Edition 2011

Nominee - A NEW solution to an old problem

What is Nominee?

For generations, superintendents have attempted to find a solution for controlling Wintergrass (*Poa annua*) in cool season turfgrass surfaces. Maintaining pure creeping bentgrass greens is a challenging task, even at the best of times, however in Australia we have struggled to have new tools available to put an effective management program in place.



Nominee

HERBICIDE

Pre-emergent herbicides (Exporsan & Dimension EW) are effective, but can only do half of the job, as they cannot control established wintergrass plants already present within the greens.

Plant Growth Regulators (Paclobutrazol, Trinexapac & Ethephon) are very useful tools in suppressing and shrinking the wintergrass plant and Ethephon has been an extremely useful tool in reducing seedhead development. However, PGR's in many situations still haven't provided complete removal of the wintergrass plant.

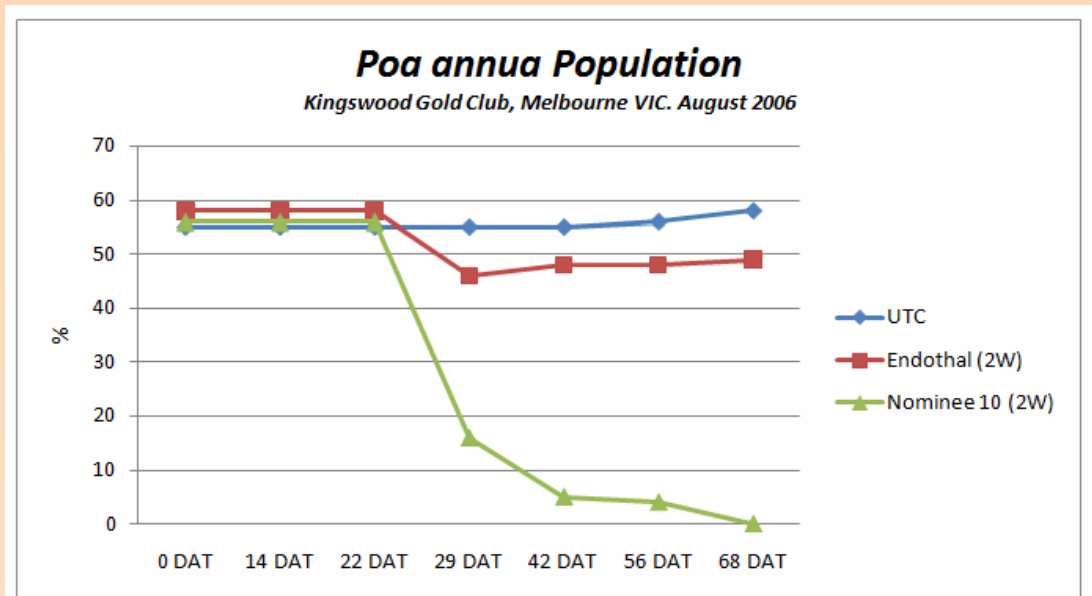
Endothal (Poacheck) has been the only clear cut option when it comes to full wintergrass removal, and it has provided superintendants with a useful tool, but often it impacts on the playability of greens, leaving behind a bumpy surface or variable result when used outside of optimum times.

Nominee herbicide is a new option that has been developed for the Australian turf market jointly by Nuturf and Sumitomo chemical company. **Nominee** is a post emergent herbicide that will selectively, but gradually reduce the presence of wintergrass (*Poa annua*) in bentgrass golf green situations. **Nominee** provides a new *Poa* management tool. With a unique mode of action **Nominee** will complement existing technologies currently available in the market place to strengthen and enhance programs in the fight against Wintergrass invasion.

Gradual Transition – The Key to Nominee

The key to **Nominee** is its ability to gradually transition wintergrass from the bentgrass sward. Ongoing field research in Australia since 2006, has indicated that when **Nominee** is used in a programmed approach of multiple applications at regular application intervals, wintergrass can be gradually removed from the bentgrass sward over a 50 – 70 day period. The gradual transition, allows bentgrass to grow and compete aggressively against the desiccating wintergrass population, ensuring that a consistent putting green surface is maintained. The severity of wintergrass infestation, and the desired level of control required will determine the intensity of program that your greens require.

Nominee Continued



Field trial conducted by Michael Robinson, Sportsturf Consultants. DAT = Days After treatment of initial application. Nominee was applied at 1L/ha 14 days apart. Endothal was applied at 1.5L/ha 14 days apart.

Nominee – Unique Chemistry

Nominee inhibits the enzyme acetolactate synthase (ALS), which plants require to produce three key amino acids essential for plants normal growth and development. When the acetolactate synthase enzyme is inhibited in susceptible plants, they slowly starve because essential amino acids are not produced. Wintergrass usually stops growing within 3 to 7 days after treatment with **Nominee** and turns yellow to brown within 7 to 14 days after treatment. Multiple applications are required for optimal control of both annual and perennial wintergrass biotypes. Most group B herbicides used in turf belong to the sulfonylurea chemical family (Monument, Coliseum, Tribute). **Nominee** is unique for turf, as it belongs to the Pyrimidinylthio-benzoate chemical family.

Nominee has Seed Suppression Characteristics

Nominee not only removes wintergrass plants, but field trials in Australia have proven that it is very effective in suppressing wintergrass seedhead development as well.

Turf Tolerance

Research has shown that Creeping bentgrass displays the greatest level of tolerance to **Nominee**. Turf treated may exhibit temporary yellowing and mild growth regulation. These symptoms generally appear 7-14 days after application, but tolerant turf species usually outgrow these symptoms in 1-6 weeks. Research has indicated that the addition of **Nitro Iron** at the rate of 20L/ha significantly reduces the potential for turf discolouration. **Nominee** fits well within an overseeding programme as overseeding with bentgrass can be commenced 10 days after the last **Nominee** application. The timeline for re-applying **Nominee** following bentgrass seeding is 30 days.

Application Timing

Research has shown that **Nominee** performs optimally under sunny conditions when maximum daytime temperatures are between 25 – 35 degrees Celsius during and after application (Mid Spring – Late Summer). Applications during the Autumn and Winter periods will not yield the same performance.

The proposed rate of **Nominee** will be 10mL/100m² (1L/ha). For best results, two consecutive applications are recommended to be applied at 14 to 21 day intervals. **Nominee** does not require an adjuvant.

Nominee Testimonial

*"The results of using Nominee as a trial on selected greens in 2010 and 2011 have been extremely encouraging. **Nominee** was very effective on the individual Poa annua plants whilst having little or no impact on the bent grass density. The best results were gained using the product according to label instruction and in temperatures between 25 and 35 degrees. **Nominee** has now provided me an additional tool to fight the continued battle against Poa and will be a key feature in our Poa annua eradication program through late spring and summer".*

Glenn Stuart, Metropolitan Golf Club, Melbourne.

*"Gold Creek has been fighting to suppress and eradicate Poa annua in the greens surfaces for the past 6 years. The trial of **Nominee** into our program over the last 6 months has slowly reduced the growth of Poa allowing the bent to take over, providing a better playing surface. **Nominee** seems very safe to the bentgrass with no discolouration or effect on turf growth. We will be looking at using **Nominee** in our program next season".*

Scott Harris, Gold Creek Country Club.

*"**Nominee** is the most effective post emergent herbicide for Poa annua control I have used on bentgrass putting surfaces. It will become a great tool in our Poa control program".*

Matthew Kennedy, Port Kembla Golf Club.

For further information or advice call your Local Nuturf Territory Manager or email
nominee@nuturf.com.au.

A Perfect Partnership



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Nitro Iron is a highly available, reliable liquid iron and manganese fertiliser source with a nitrogen carrier designed to maintain turf growth. Nitro Iron has been specifically developed for foliar applications to enhance turf appearance by maintaining a deep green colour.

3 Reasons why you should combine Nitro-Iron with Nominee;

- Nitro Iron enhances bentgrass vigour, increasing it's ability to compete with wintergrass plants that have been treated with Nominee.
- Nitro Iron improves bentgrass colour, masking any slight discolouration that can occur with Nominee applications.
- Nitro Iron has been proven to have no effect on Nominee herbicidal performance. In some research, Ferrous sulphate and some other Iron sources have shown to reduce Nominee performance.

*"Based on field trial results I recommend that Nitro Iron be applied with **Nominee** for Poa annua Control, as the same level of Poa annua control was achieved compared to applying **Nominee** by itself and the yellow discolouration of the bentgrass was significantly reduced."*

Michael Robinson, Turfgrass Consultant & Research Specialist.

1. **Fore® Rainshield®** possesses smaller Mancozeb particles, optimizing leaf coverage.
2. **Fore® Rainshield®** has a unique surfactant package that assists particle redistribution
3. **Fore® Rainshield®** improves rainfastness.
4. **Fore® Rainshield®** contains a unique green dye providing better turf quality & overall colour.
5. **Fore® Rainshield®** contains 15% more active than other liquid Mancozeb's.
6. **Fore® Rainshield®** has a lower chemical scheduling than other premium contact fungicides.
7. **Fore® Rainshield®** has a different mode of action than other premium contact fungicides and fits well into a resistance management strategy.
8. **Fore® Rainshield®** also contains an ornamentals registration, whereas other premium contact fungicides don't.
9. **Fore® Rainshield®** has the lowest application cost when compared to other premium contact fungicides.
10. **Fore® Rainshield®** has excellent tank mixing properties and Fore Rainshield mixed with several products are known to provide excellent disease control.

Fore
Rainshield
FUNGICIDE



Fore Rainshield Performance at Brisbane Racing Club

*I use **Fore Rainshield** to form an integral part of my Disease Management Program at the Brisbane Racing Club. The characteristics that prove it to be far superior in my situation, is that the product provides even and exceptional coverage to the plant in the conditions when it requires it the most. Helminthosporium can be rampant in turf (partially in Kikuyu) in the wet season (December to February), with a combination of high rain, temperature and humidity meaning sever outbreaks can appear virtually overnight. By applying **Fore Rainshield** in 2-3 week intervals during this period I can be assured that any occurrences are rare and restricted to untreated areas. I love the way it forms a protective barrier on the plant that is more rain fast than any other products on the market, whist being cost effective over the large areas that I treat. I also apply it 3-4 weeks out from our Winter Racing Carnival which guarantees an exceptionally clean and healthy plant leaf come race day when the best expect the best.*

Sean Bridges, Assistant Racecourse and Polo Manager.

For further information or advice call your Local Nuturf Territory Manager or email ForeRainshield@nuturf.com.au.



Stock Up for Summer 2011

With the Nuturf / Bayer Promotion

With spring now well underway, its time to start thinking about ramping up your plant protection program to help you manage the Summer months. At that time of the year, reliability, longevity and performance is critical. Bayer ES provides key plant protection products that have proven performance and reliability to offer you solutions to tackle your major issues in the most efficient manner.

BANOL - Rate: 6.5L/Ha
Fast acting systemic fungicide.
Curative activity on Pythium.



ROVRAL GT - Rate: 18L/Ha
Proven performer on Brown Patch,
Dollar Spot, Fusarium & Helmo.
Fast, curative control.

SIGNATURE -Rate:12.5kg/Ha
Industry standard for residual
Pythium control.



DEDICATE - Rate: 2-3L/Ha
New fungicide that will be
particularly useful on ERI, Dollar
Spot, Anthracnose and secondary
diseases.
Long residual activity in plant.

TEMPO - Rate: 2-4L/Ha
Broad spectrum insecticide
activity. Quick knockdown
control.



BAYFIDAN - Rate: 3-6L/Ha
Excellent activity on ERI, dollar spot
& Helmo
Proven Performer.

TRIBUTE - Rate: 1.5 –
2L/Ha
Excellent activity on
Crowsfoot.



By purchasing your BAYER products from Nuturf in the months of October and November you will be rewarded.

For further information, contact your Nuturf territory Manager today.

TX10 Promotion



SPRING – SUMMER 2011 SPECIAL OFFER

Buy 50 bags of TX 10 between July 1st and December 31st 2011 and receive a 10L RocaStem valued at over \$350.00 FREE

Stamina 90

The Benchmark in Residual Surfactant Technology

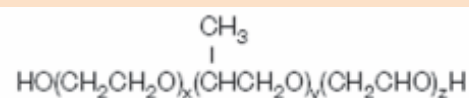
Stamina 90 is a 100% non ionic, residual surfactant formulation for long term prevention of localised dry spot. Stamina 90 is unmatched in its residual performance capabilities in both sandy and heavier soil profiles. Stamina 90 also has excellent warm and cool season turf safety characteristics and can be used in all forms of turf management, where residual properties are required.

The molecule in Stamina 90



The molecule in **Stamina 90** is a heavy molecular weighted material. It is a EO/PO block co-polymer, which is a non-ionic surfactant containing ethylene oxide and propylene oxide units. EO/PO block copolymers allow for efficient wetting because the water hating end of the chemical attaches itself to the water repellent sand by physical adsorption, providing an anchor which allows the more water soluble end to extend into the aqueous phase to draw water to the soil's surface. The Chemical structure of the **Stamina 90** Molecule is as follows;

The large nature of the molecule, is what gives **Stamina 90** its residual performance. Microbial decomposition takes several months, due to the complexity of its molecular make up.



Major Benefits of Stamina 90

- Highest quality, 100% Surfactant Formulation.
- Proven Performance, backed by Nuturf and BASF.
- Excellent Residual Properties.
- Improves Water Usage by improving water penetration and retention.
- Reduces irrigation requirements by increasing the rate and depth of water penetration.
- Non Burn formulation.
- Effective in both sand and heavier soil profiles.
- Flexibility in rate, dependent upon intensity of use.
- Low foaming properties.
- Manufactured and Developed in Australia for Australian conditions.



Water Droplet Penetration testing has proven that **Stamina 90** has excellent residual wetting capabilities, as well as its residual performance. These initial wetting properties allow **Stamina 90** to overcome hydrophobic conditions as well as prevent them.

SoilFix Mg

TOP PERFORMER

What is Soilfix Mg?

Soilfix Mg is a granulated amendment material specifically designed to overcome Magnesium deficiencies in fine turf management. **Soilfix Mg** is a unique blend of Magnesium sources 'fused' to a **TX10** organic complex, providing stable and consistent release characteristics up to 12 weeks.

The Soilfix Mg Technology

Soilfix Mg is unique, as it possesses 3 sources of Magnesium within the one homogenous granule. Based on the proven '**TX10**' organic technology, Magnesium sulphate, Magnesium oxide and organic forms of Magnesium are all 'fused' within each and every granule.

The combination of the 3 Magnesium sources, all with differing release characteristics results in a uniform, consistent supply of Magnesium over an extended timeframe.

The break down of the Magnesium sources within the **Soilfix Mg** product is outlined below;

Total Magnesium (Mg)	18.0%
Magnesium as Sulphate (Immediately available source).....	4.0%
Magnesium as Oxide (Medium to Longer term available source).....	10.0%
Magnesium as Organic (Medium to Longer term available source).....	4.0%

The '**TX10**' granule component of the formulation is designed to provide stability in sand based profiles, preventing short term losses of Magnesium Sulphate via leaching, optimising Magnesium availability.



Turf Maintenance Advance

- An optimal analysis for maintaining healthy turfgrass, providing high potassium for cell strength, and top-up rates of nitrogen and phosphorus, covering all major turfgrass nutrients in appropriate quantities
- Contains nitrification inhibitors for the slow and extended release of nitrogen resulting in uniform growth
- Contains humic acid to enhance nutrient uptake and improve soil health, where soil applied
- High concentration reduces quantity of product needed in a turf maintenance programme
- Completely soluble & plant available delivering the required amount of nutrients with low application rates



Soil Testing Incentive 2011

NOW AVAILABLE

**Undertake your soil testing with Nuturf, and as a thank you for supporting our Agronomy Services Division and Soil Testing Service, you will go into the draw for the chance to win the following prize:
Apple iPad 2, 16GB with 3G & Wi-Fi!**



