

syngenta®



**Outsmart your Nematodes
Checkmate with TREFINTI®**

 **Trefinti®**
Turf nematicide

TREFINTI® Turf nematicide from Syngenta continues the introduction of new innovative product solutions required by turfgrass managers globally. Developed exclusively for nematode management, TREFINTI® introduces a new active ingredient with strong activity and low use rates as an unscheduled product. With an extensive list of plant parasitic nematodes managed, TREFINTI® offers flexibility and rotation ability in an integrated nematode management program.



Plant Parasitic Nematodes

Parasitic nematodes rely on a host plant to survive. In the case of turf, they can exist as both an ectoparasitic form and an endoparasitic form with both forms being challenging to manage at times given their migratory and sedentary nature. Populations will increase in locations with a known history when abundant food sources increase, therefore in periods of strong root growth in autumn and spring. While effects of nematode activity may not be immediate, symptoms become evident during periods of turf stress.

Symptoms of Turf Nematode Damage

Symptoms of turf nematode damage can be twofold, both on the surface and subsurface. On the surface, turf will appear thinned, with chlorosis evident and declining growth. Patches will appear irregular, can wilt and not respond to fertility or other inputs. Additional turf pathogen activity may be present as the turf is weakened. Subsurface, the root system will be affected. Roots will be thin, shallow, darkened and may show presence of galls.



How does TREFINTI® work?

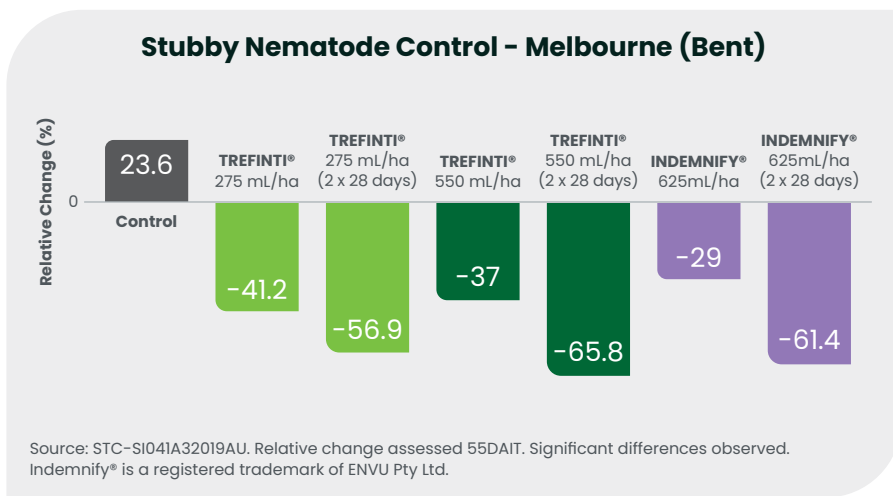
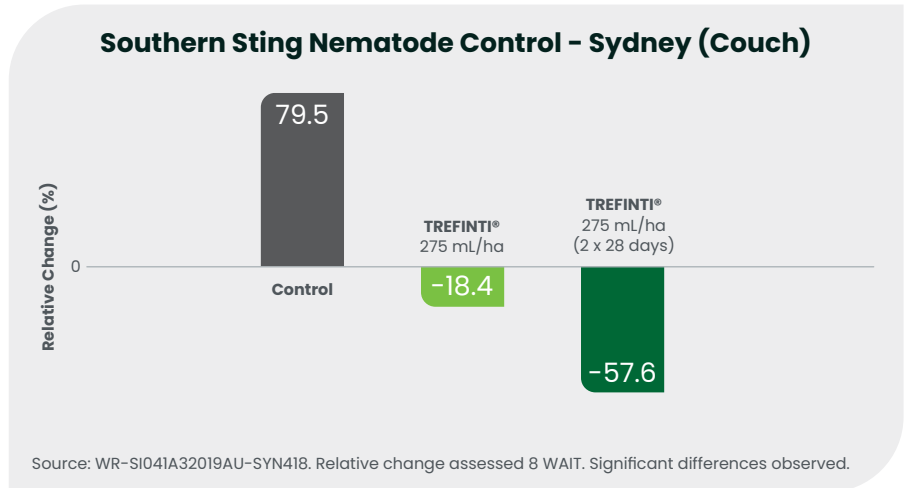
TREFINTI® introduces the active constituent Cyclobutrifluram to the market, which is classified as a N3 nematicide mode of action. TREFINTI® exhibits contact activity to both ectoparasitic and endoparasitic nematodes and once in the plant, moves acropetally (upwardly mobile). TREFINTI® provides excellent flexibility in nematode management with its UV profile, meaning it can be applied during the day and watered in later in the evening.

Australian Turf Nematodes

A range of parasitic nematodes are present across the country in Australian turf stands. One of the most damaging to turf is the Southern Sting nematode (*Ibipora lollii*) found in a number of states but in particular Western Australia and New South Wales. Parasitic nematodes such as Southern Sting feed on emerging root systems, leading to population increases in warm-season turf species during the spring and autumn.

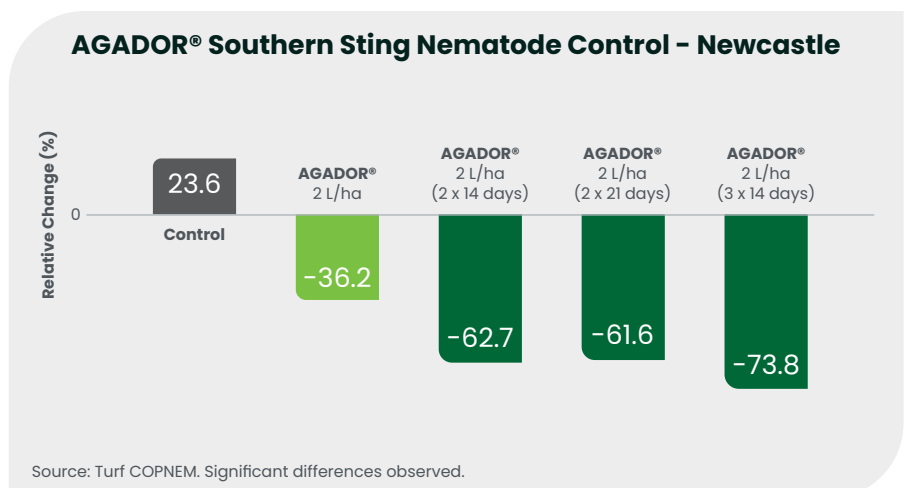
Managing Southern Sting with TREFINTI®

Should a nematicide application be required for the Southern Sting nematode then TREFINTI® displays excellent management of the ectoparasitic Southern Sting populations.








TREFINTI® also has strong efficacy against problematic nematodes in cool season turf such as Stubby.

Syngenta now provide a full rotation option with TREFINTI® (N3) and AGADOR® Turf Nematicide and Miticide (N2) which also displays excellent management of Southern Sting.



TREFINTI[®] Overview

-  **Unscheduled Product**
-  **Rates: 275 mL – 550 mL/ha**
-  **Broad spectrum control of turf parasitic nematodes**
-  **Application frequency: 2 – 4 times per year based on rate**
-  **Irrigation: Up to 6 mm following application**

Situation	Nematode	Rate	Critical Comments
Turf Golf (tees, greens fairways), professional sports fields, racetracks, parklands, commercial and residential lawns	Turf Parasitic Nematodes including: Ring Nematode (<i>Macroposthonia</i> spp.) Root-knot (<i>Meloidogyne</i> spp.) Southern Sting (<i>Ibipora lolii</i>) Stubby (<i>Paratrichodorus minor</i>) Dagger (<i>Xiphinema</i> spp.) Sheath (<i>Hemicycliophora</i> spp.) Spiral (<i>Helicotylenchus</i> spp.) Cyst (<i>Heferodera</i> spp.) Root Lesion (<i>Pratylenchus</i> spp.)	275 – 550 mL/ha	Apply TREFINTI [®] preventatively when conditions become favourable for root growth or in an early curative situation (after appropriate nematode extraction, identification, and counts). Wash application in with 3 to 6 mm of irrigation or rain within 24 hours of application. Apply up to 2 applications of TREFINTI [®] at 550 mL/ha or 4 applications of 275 mL/ha Repeat applications at 28 days if required. Best results will be obtained where TREFINTI [®] is used as part of an integrated program aimed at reducing overall nematode populations. Refer to Application section for detailed information.

For more information visit www.syngentaturf.com.au
or speak with your local **Syngenta Territory Sales Manager**

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