

Super Pest Preventor

KNOW YOUR
PRESTIGE®

Prestige Super Pest Preventor is a unique bio-stimulant formulation designed to deter soil pests and reduce the destruction of turf from root damage and disease. The product uses a unique combination of surfactants, essential oils, and garlic to create conditions that change the environmental condition and improve overall plant health.

- 1** Application Rate: 20 ltr/ha in 700 to 1000 litres of water.
- 2** Take appropriate measures to prevent the product from entering water bodies during application.
- 3** Applications should be made at monthly intervals or as required - more frequent applications can be made where pest problems are especially severe.
- 4** May be applied using standard sprayer equipment.
- 5** Pack Coverage: 2,500 sq.m

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Biological /
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PRESTIGE®
Super Turf Solutions

Prestige Super Pest Preventer

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Prestige Super Pest Preventer can be used as part of an Integrated Pest Management Strategy.

Features and Benefits

- Can be incorporated into an Integrated pest and disease management strategy.
- Can be readily tank mixed with other products in the Prestige range such as Super Soil Acidifier + NWA to enhance their performance.
- Improves overall plant health through stimulating plant growth and a subsequent reduction in disease and pest damage.
- Effectively discourages soil pests from feeding and causing damage at the turf surface and on plant roots.
- Discourages worms from coming to the turf surface, leading to a reduction in casting. This effect will be enhanced when applied with Super Soil Acidifier + NWA.
- A dew dispersal effect has also been observed when using the product, which will further reduce disease spread.

How Prestige Super Pest Preventer Works

The formulation has been extensively researched to produce a reliable and effective product. It is unique for turf grass and supported by extensive research. The main ingredients are:

Garlic

Garlic contains compounds that, when regularly applied to soil, will create an environment that discourages turf pests such as leatherjackets. Materials present such as sulphur and selenium will also help stimulate plant vigour, improving overall stress resistance. Garlic extracts have also been shown to reduce the spread of common turf diseases.

Essential Oil Blend

The product utilises essential oils which are known to have insect repellent properties and potentially biostimulant effects. An additional benefit of incorporating the oils is that unlike most standalone garlic treatments, the product has a pleasant smell - it is designed to repel pests, not golfers! The essential oils we have incorporated have also been shown to reduce the spread of common turf diseases.

Surfactant Blend

The surfactants used in the product have been chosen specifically to help the ingredients distribute evenly in the soil. They are designed to overcome any water repellence that might be present in the soil, ensuring that the whole area is treated evenly. They will allow the product to completely infiltrate into the soil so none of it is lost in surface runoff. The surfactants also keep the oils evenly distributed within the product itself – without them the oils would just sit on the surface and it would be impossible to apply them evenly. They also help Prestige Super Pest Preventer have a dew dispersal effect when sprayed, which will further reduce conditions that promote disease spread.

Integrated Pest and Disease Management

With options for pest control in amenity turf becoming more and more limited, products that act to deter and discourage pests rather than kill them are going to become a valuable tool for turf managers. We have also observed reduced disease incidence when using the product in the field, which was often enhanced when the product was tank mixed with Super Soil Acidifier + NWA.

Leatherjacket Case Study

Field trials have shown that leatherjacket feeding activity was reduced at the turf surface in areas treated with Prestige Super Pest Preventer. The deterrent effect of the product helped 'speed-up' the emergence of adult crane flies from the soil in treated areas, which was determined via a notable increase in the number leatherjacket cases left on the turf surface. It is likely that younger leatherjackets that were not ready to emerge were sent deeper into the soil, which prevented them from feeding at the turf surface. Less leatherjackets present in the upper layers of soil equals less damage to turf! We predict that regular applications of the product will deter the emerged adult crane flies from laying their eggs in treated areas, providing long-term benefits for turf health.

Biostimulant Effects

It has been observed in field trials that turf colour has been improved when applying the product as a stand-alone treatment, as well as when tank mixed with Prestige Super Soil Acidifier + NWA. There are no added nutrients in the product (apart from traces naturally present in the ingredients used), so we know this enhanced colour can be attributed to the biostimulant effect that has been documented for the individual ingredients.

Application Rates

We recommend applying the product at a rate of 20L/ha with a water rate of 700-1000L per hectare. If tank mixed with Super Soil Acidifier + NWA, a rate of 10L/ha should be sufficient to achieve the desired effects. Applications should be made at monthly intervals or as required – more frequent applications can be made where pest problems are especially severe. Applications during early Spring and Autumn will be most effective, applications can start as early as July if there is a requirement. Take appropriate measures to prevent the product from entering water bodies during application.

Application Guidance

Use	Prestige Super Pest Preventer Volume	Water Volume	Area	Frequency
Stand Alone Application	20L	700-1000L	One Hectare	Up to Monthly Applications or as required
Tank Mixing with Super Soil Acidifier + NWA	10L + 20-40L Super Soil Acidifier + NWA	700-1000L	One Hectare	Monthly as per Super Soil Acidifier + NWA programme or as required

PRESTIGE® Field Trial Details

Super Turf Solutions

Super Pest Preventor & Super Soil Acidifier

- The field trial utilised four replicate 1 m² plots per treatment.
- The trial was set up and the first round of treatments applied on 26/08/20.
- A second application was made on 03/09/20.
- A third application was made on 09/09/20.
- A fourth and final application was made on 24/09/20.
- No phytotoxic effects on turf were observed from any of the treatment applications.
- Super Pest Preventor was tested at a range of application rates and in combination with Super Soil Acidifier + NWA.

Assessments

- The trial was assessed for effects on both leatherjacket and worm activity. The area the trial was performed in is a highly infested area which is obvious by the number of feeding holes in the turf surface.
- Effects were determined by:
- Counting the number of **leatherjacket cases** and **feeding holes** on the surface of a plot (those that had been driven out of the soil).
- Counting the number of **worm casts**.

Maintenance

- The trial area was top-dressed and rolled after assessment on 09/09/20.
- The purpose of this was to fill in any holes created by the leatherjackets and flatten any existing worm casts on the trial.
- This meant that any future assessments would only count disturbance caused by active worms leatherjackets.

13/09/20



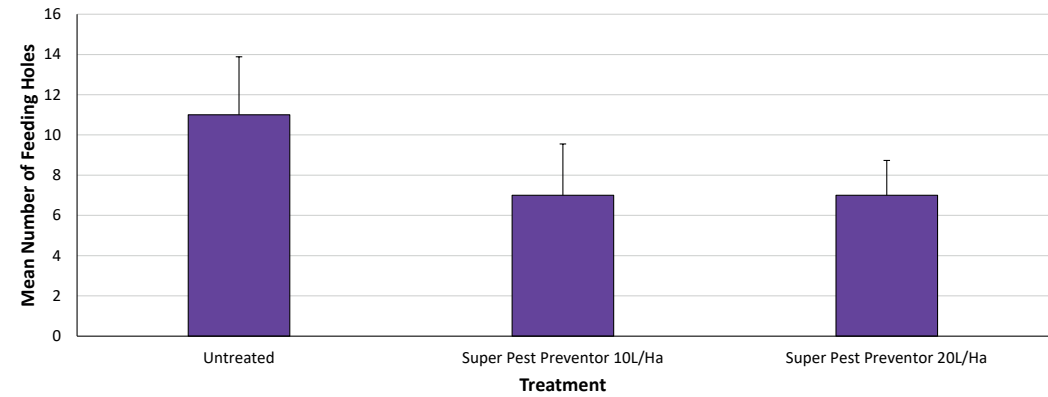
Leatherjacket Feeding

- An assessment was made four days after the maintenance work.
- We were able to gain good data on leatherjacket feeding holes.
- Super Pest Preventor at all rates and when applied in combination with Super Soil Acidifier seems to have reduced leatherjacket feeding activity.

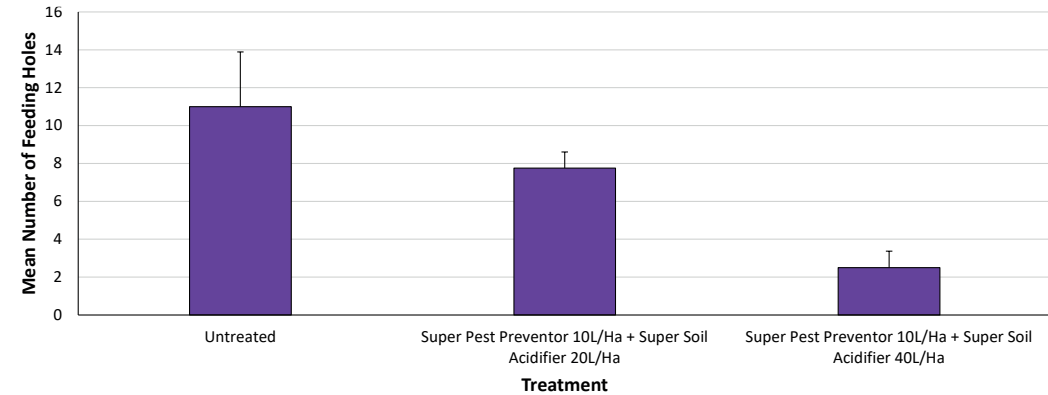
Worm Casting

- We also gained some good data from a worm cast count.
- Again, Super Pest Preventor at all rates and when used in combination with Super Soil Acidifier seems to have had an effect on earthworm casting.
- Using Super Soil Acidifier seems to have a significant effect on worm casting and give much more consistent results.

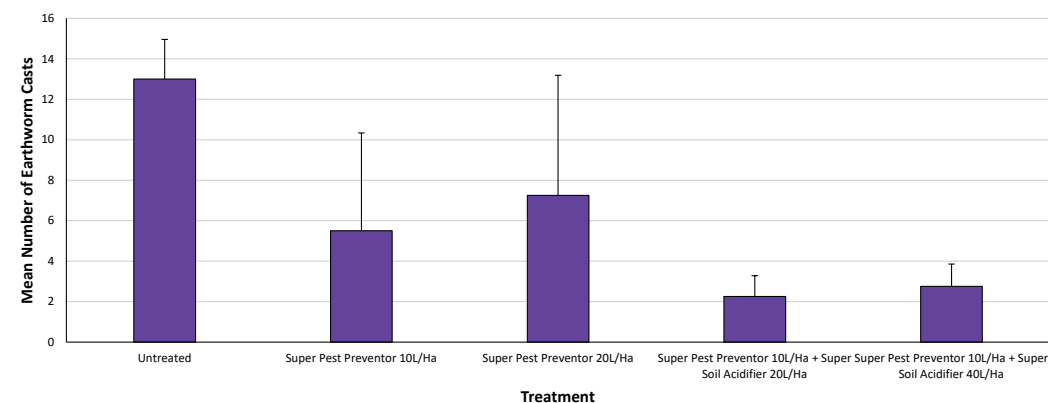
Leatherjacket Feeding Holes - 13/09/20



Leatherjacket Feeding Holes - 13/09/20



Fresh Earthworm Casts - 13/09/20



Cover photo shows a plot with high casting (middle), surrounded by treated plots with less casting

- Upon our visit to the trial area, there had been large scale crane fly emergence that morning!
- This gave a great opportunity to gain robust data on the effects the treatments had had on the emergence of the adult crane flies. Very positive results were observed...

Leatherjacket Cases

- With such a high number of cases counted in the trial, we have a very robust data set.
- There is a clear treatment effect on emergence.
- Less leatherjackets in the soil = less damage to turf!
- Both Pest Preventor used on its own and in combination with Super Soil Acidifier were highly effective at driving the leatherjackets out of the soil.

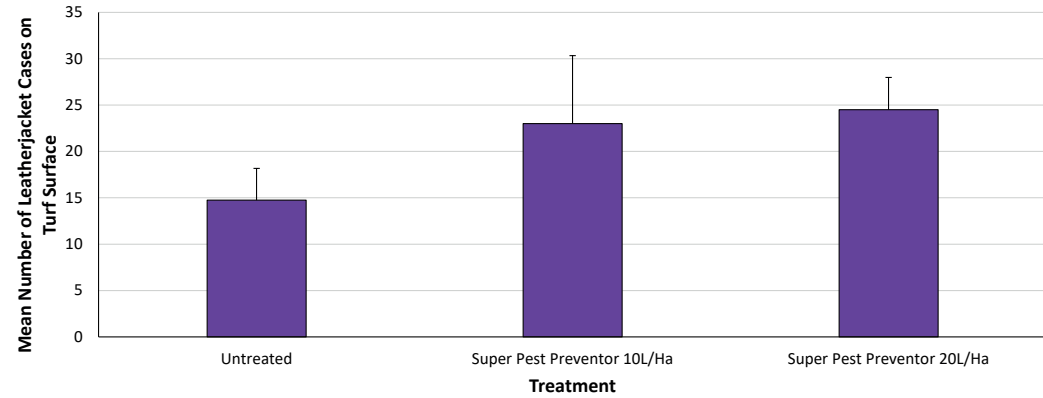
Worm Casting

- We were also able to count fresh worm casts on the trial area.
- We had a clear trend in the data, with the Super Soil Acidifier doing its job very well!
- With much more uniform wetting of the trial after a spell of heavy rain, conditions were perfect to assess effects on casting.
- Pest Preventor also offers some reductions in worm casting when used on its own.
- You can see how the increased longevity of the 40ltr/ha application rate of Super Soil Acidifier has resulted in less casting than at 20ltr/ha, even though results were very similar 10 days prior (13/09/20 results).

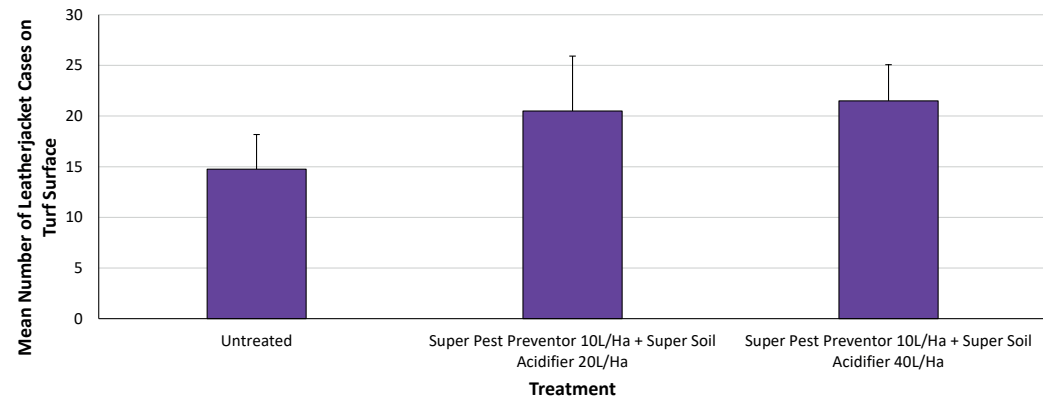


Leather jacket cases that have been left by crane fly emergence

Fresh Leatherjacket Cases - 24/09/20



Fresh Leatherjacket Cases - 24/09/20



Fresh Earthworm Casts - 24/09/20

