

Monitoring:

Likely Treatment Periods)

Month	A	S	O	N	D	J	F	M	A	M	J	J
Adult												
Eggs												
Larvae												

The ecology and biology of the Argentine Stem Weevil has not been systematically studied in Australia. Studies in both Sydney and Melbourne showed considerable variation in life cycle. Further, it has been shown that the number of generations occurring within one season also varies. In hotter and drier seasons, there appears a greater likelihood of additional generations.

From the limited studies undertaken within Australia, it was shown that adult activity appeared to peak in Melbourne around six weeks earlier than in Sydney. This might suggest that Melbourne is more likely to experience a greater number of generations.

Local knowledge is therefore an important means of determining periods of higher risk, and the importance of collecting and maintaining population statistics is high.

Detection of the Argentine stem weevil is reliable by inspecting for any surface movement following application of a diluted pyrethrum/water solution to a turf surface. A mix should of 25:1 is appropriate. The placement of grass clippings in full sun may also reveal the presence of adult weevils.

Argentine stem weevil is most active in drier regions of turf grass swards. On golf greens, the perimeter of the mown surface and any apron regions adjacent to bunkers are typical areas of susceptibility, because these generally become drier earlier than central regions. It is also useful to closely inspect elevated contours of greens, and similarly, elevated sections of fairways may experience more frequent infestation in cool season grasses.

On bowling greens, the edges are the most susceptible regions.

Visual damage to look for are ill-defined wilted patches of turf grass. Symptoms progress to severe wilting and pink to reddish coloured leaves. Individual leaves suffer severe wilt and necrosis due to the feeding activity of larvae at the base of the leaves.

Damage by the adult weevil may be observed as silver coloured markings on affected leaves.

Golden Rules for Success:

1. Only apply nematodes at dusk. Do NOT apply at other times, even if overcast!
2. Do not apply when the ambient temperature exceeds 32oC, or the soil temperature exceeds 25oC
3. Avoid high or drying winds
4. Ensure treated area is irrigated both before and after application of ENs
5. Apply ENs as evenly as possible
6. Maintain moist soil conditions for not less than two weeks after treatment

Application:

Handling:

1. Your supply of ENs will be packed fresh in our Canberra factory and will arrive on the day you specified in your order.
2. Ideally, the product should be used immediately, however with care, this product may be stored for a limited period - but not more than 7 - 10 days
3. Store flat and unopened in a cool place. Avoid storing in any area with a temperature exceeding 21oC. Do not refrigerate.
4. Your order contains a chill pack. This is non-toxic and can be discarded safely.

Application via Boom Spray:

1. Ensure that the soil temperature exceeds 12oC
2. Ensure spray equipment has been rinsed and that all filters have been removed. Fit nozzles equivalent to Hardi size 25 or greater (fertiliser type jets)
3. Pump & hose or venturi system is also effective.
4. Ensure that the area to be treated is moist, pre- irrigate dry soils
5. Fill the spray tank with approx. 2/3 of the required water. (You will require 500 litres of water per hectare of treatment)
6. With the agitation operating, add the required number of packs of Argentine stem weevil product.
7. Spray area as evenly as possible. In some cases, greater evenness may be achieved by increasing the water (see 5.) and spraying twice in a cross-hatch pattern may also be useful
8. Irrigate at a rate of 12mm immediately after treatment, and maintain moist soil conditions for the next 1 to 2



Note that 3 treatments are required, four weeks apart. Each treatment will be delivered to you separately, so as to ensure maximum freshness and virulence. Three treatments provide the greatest protection against further generations and re-infestation.

Call your distributor or Ecogrow, if you have any questions about your application.

Ecogrow Australia also supplies ENS for:

- * Argentine Scarab
- * African Black Beetle
- * Billbug
- * Blackheaded Cockchafer
- * Armyworm, Sodwebworm, Cutworm