

Tough grubs require the biggest nematodes around.

Grub Stop™ - Sg Advantages “ the all season grub control”

- Can infect grubs starting at 10° C soil temperature, most infective from 12° - 30° C
 - Shows excellent results against large 3rd instar grubs
 - Long shelf life of up to 15 weeks, in special vermiculite mix (with no added polymers)
 - Extended treatment period compared to Hb, equals more profits in the spring and fall seasons
- Apply when soil is between 10° - 35° C.

How Grub Stop™ Works

Grub Stop™ contains steinernema glaseri (sg) nematodes in a specially formulated vermiculite mix for enhanced performance. Grub Stop nematodes are ten times bigger than Hb nematodes, offering superior life span and stability. Nematodes attack soil pests by entering into body openings. After entering the target pest, the nematodes release a natural bacteria which kills the insect in 24 - 48 hours. The nematodes recycle inside the host and emerge in search of more larvae.

Active Ingredient: steinernema glaseri

Inert carrier: vermiculite

Coverage: Recommend rate of 500 million / acre. Each tray contains 250 million nematodes and covers 1/2 acre (21,780 sq.ft.).

Application Tips:

- Apply in early morning/ late afternoon to early evening (avoid direct sunlight) or on cloudy overcast days
- Can be applied during rain, ensure soil is irrigated for a minimum of three days (or 7 days during dry hot weather)
- Use entire spray mixture at one time and agitate during application

When to apply:

Can be applied in spring or late summer/early fall. For optimal results apply from mid August to late September, when grubs are smallest and most susceptible to nematode attack.

Directions: Make sure all filters are removed from spray equipment. Use 65-130 gallons of water per acre of spray solution (minimum of 1.5 gallons / 6L per 1,000 sq.ft.). Can be applied with a variety of hose-end, backpack and boom type sprayers. Fill tank or sprayer with appropriate amount of water. Mix nematodes in a pail of water prior to adding to spray equipment. Ensure agitator is running prior to adding nematodes.

Grub Stop Beneficial Nematodes

CODE	PRODUCT	SIZE	Qty./Cs
0385	Grub Stop (1/2 acre pack)	250 million	1
0390	Grub Stop (acre pack)	250 million	2



Frequently asked questions on nematodes:

1. Will a cold tolerant nematode strain outperform other strains?

No. While a strain of nematode isolated from cold regions may survive better in cooler conditions, soil temperatures may not be warm enough for the nematode to infect the grub. *Steinernema glaseri* shows infectivity range starting at 12°C. Nematodes have been isolated in every climate and geographical location around the world. There is no benefit to a nematode being isolated in Canada, what matters is targeting the nematode to the pest at the right time and soil temperature. The best nematode strain proven for white grub control below 15°C is *Steinernema glaseri*. *Steinernema feltiae* is unique in being able to infect larva below 10°C.

2. When is the best time to apply grubs for optimal control?

Doing two applications a year as a preventative will eliminate most grub problems. If you do a spring application, Nema-globe™ nematodes show effectiveness against 3rd instar European chafer and Japanese beetle larvae. To achieve optimal performance, apply Grub Stop™ nematodes from early August to late September when grubs are smallest in size.

3. Do you need a special nematode for Canada?

No. The majority of destructive turfgrass pests have come from other locations around the world and are not indigenous species to Canada.

Research trials and tests done at universities by leading nematologists show the best nematode strains to use against the targeted pest. For white grubs, *Steinernema glaseri* and *Heterorhabditis bacteriophora* have shown the best results in research trials for white grub control.

4. What is the recommended application rate?

For most general applications, the recommended rate is 500 million nematodes / acre. For heavily infested areas, 1 billion nematodes / acre may be required (or a second application). Research trials have shown significant population reductions are achieved with recommended use rates.

