



# EGC Nematicide

For managed amenity turf

Powerful, smart defence



## EGC Nematicide – Powerful, smart defence

- Plant Parasitic Nematodes are a major problem in UK and European Sports Turf
- They can spread on construction materials, turf, irrigation water, machinery or boots

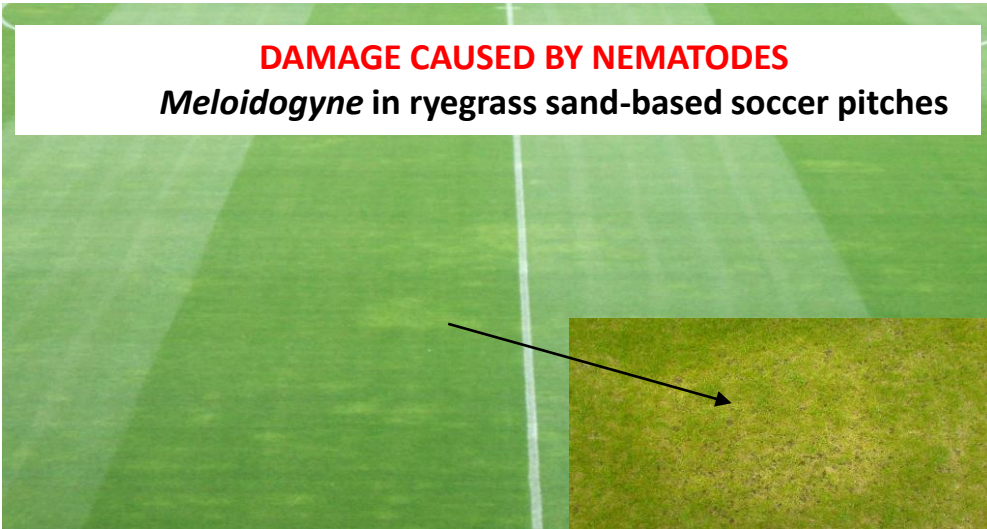


Root knot nematode damage on creeping bentgrass (Ireland)



### DAMAGE CAUSED BY NEMATODES

*Meloidogyne* in ryegrass sand-based soccer pitches



Nematodes prefer warm soils but they can be active any time the soil temperature is above 4°C (40°F).

Nematodes are found in all soils, they are aquatic and move in soil 1-2 metres per year. They feed on roots, both externally and internally causing significant stress to plants, affecting growth, colour and ultimately ability to withstand intensive use.



## What are Nematodes?

- A microscopic pest
- As many as 20,000 in a handful of soil
- Very difficult to manage



Nematode feeding on root



Typical root knot nematode (*Meloidogyne*) damage



- All sports pitches will have nematodes.
- How many? *Best To Test!*



Auger

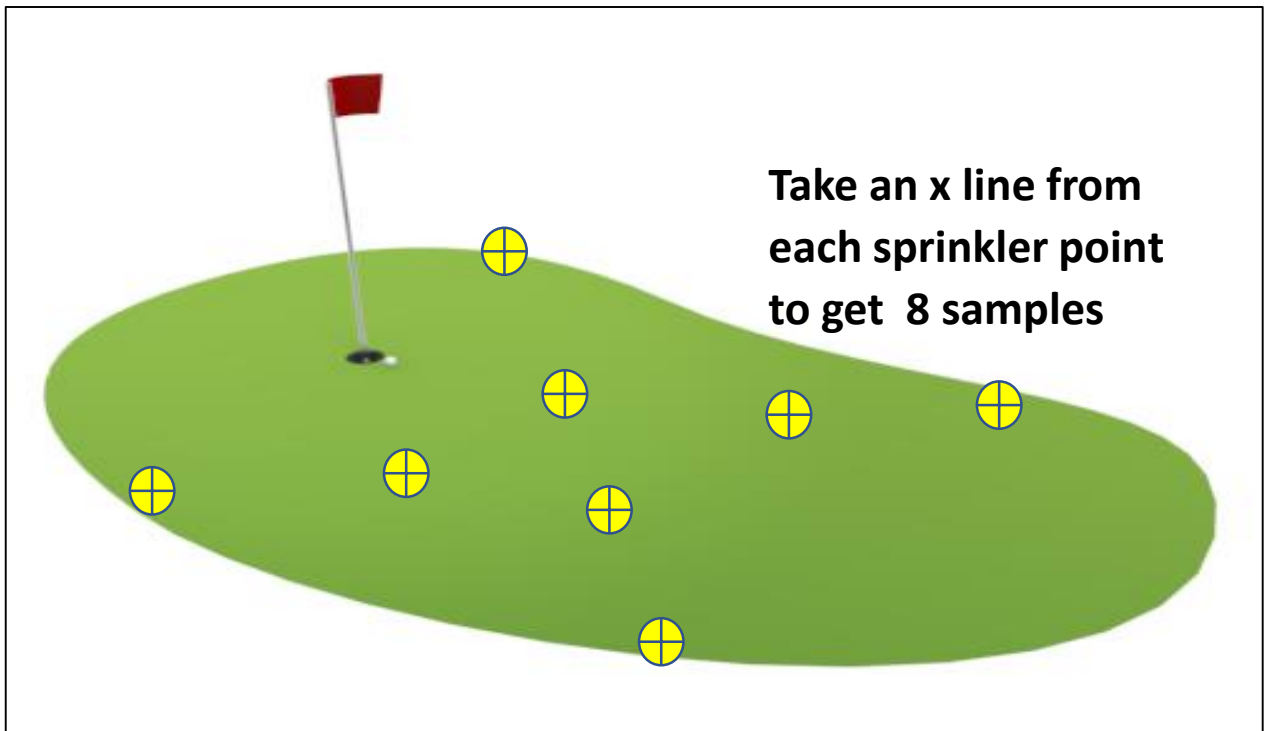
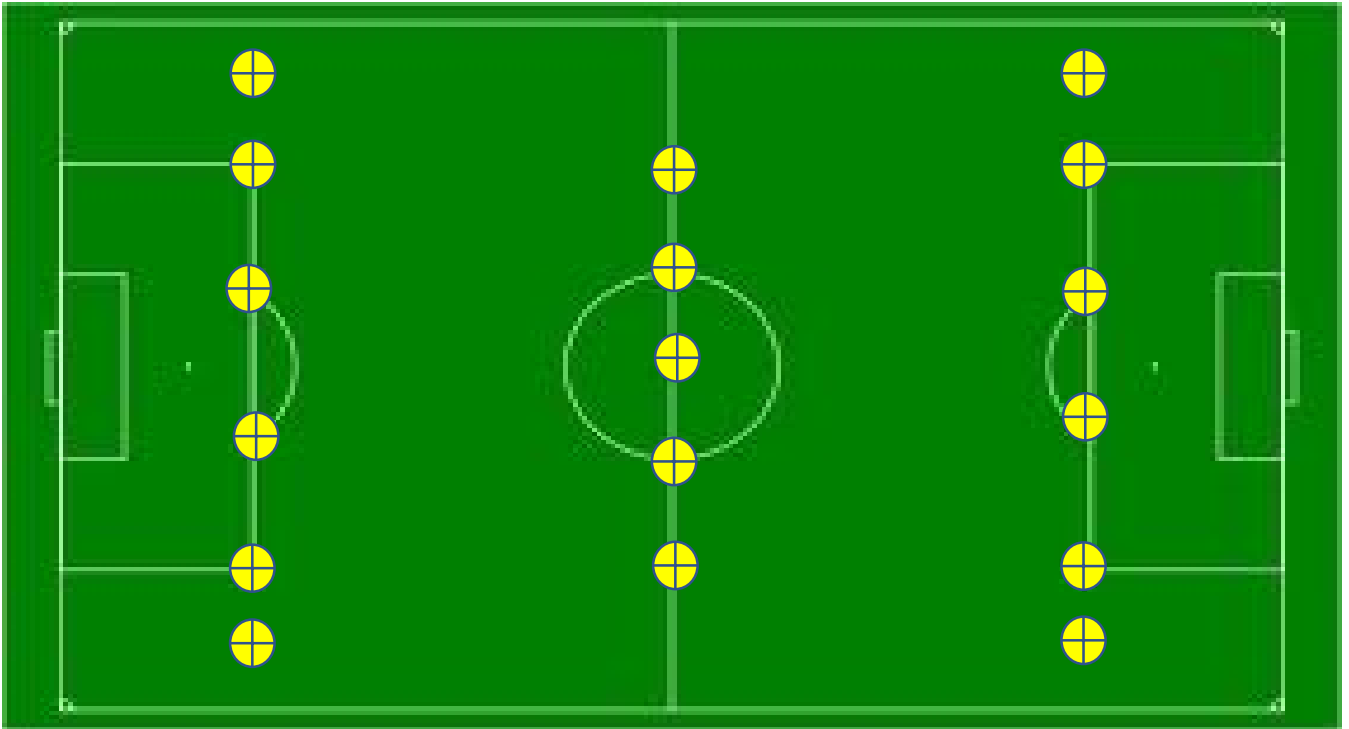
Sample bag /pen to identify the sample

Send to;

Dr C Fleming, AFBI,  
Newforge Lane,  
Belfast BT9 5PX



## Soil Sampling Areas





# Typical Nematode Numbers Analysis Report

**Table 1 continued: Numbers of nematodes (per100ml soil) in the soil & root system**

Nematode type	1A	1B	1C	2A	2B	2C	Threshold for damage
<i>In rootzone</i>							
Bacterial/fungal	1082	615	1588	284	737	235	Beneficial
Tylenchus	37	47	54				300
Heterodera J2s & ♂ (cyst)		142					40
Punctodera J2s (cyst)							100
Hoplolaimus (lance)							150
Pratylenchus (lesion)	110					17	100
Longidorus (needle)							20
Paratylenchus (pin)		46		28			300
Criconemella (ring)							600
Meloidogyne J2s & ♂(root-knot)	109	709	108	26	92		20
Subanguina J2s							80
Hemicycliophora (sheath)							80
Helicotylenchus (spiral)			110				400
Rotylenchus (spiral)							500
Paratrichodorus (stubby-root)							100
Tylenchorhynchus (stunt)	203	520	188		207		300
Pratylenchoides (false lesion)							80
Xiphinema (dagger)							100
Belonolaimus (sting)							10
Gracilacus (pin)							300
Aphelenchoides		45	54				300
Ditylenchus							400
<i>In plant roots</i>							
Heterodera cysts							40
Meloidogyne galls							20
Subanguina galls							20
<b>Nematode Damage Index (NDI)</b>	<b>7.4</b>	<b>41.2</b>	<b>6.6</b>	<b>1.4</b>	<b>5.3</b>	<b>0.2</b>	

**Soil Sample Analysis includes a Nematode Damage Index Report, which provides Treatment Guidance**

NDI 0.0-0.5	NDI 0.5-1.0	NDI 1-10	NDI > 10
Treatment not required at the moment but monitor plant levels if parasitic nematodes are present	Treatment not urgent but should be seriously considered to restrict nematode levels building to damaging levels	Immediate treatment recommended to reduce nematode levels which are approaching concerning levels	Immediate and urgent treatment required. Multiple applications may be required depending on types of nematode present

**EGC - Registered and Effective**

**On Label Use:**  
*Nematicide*



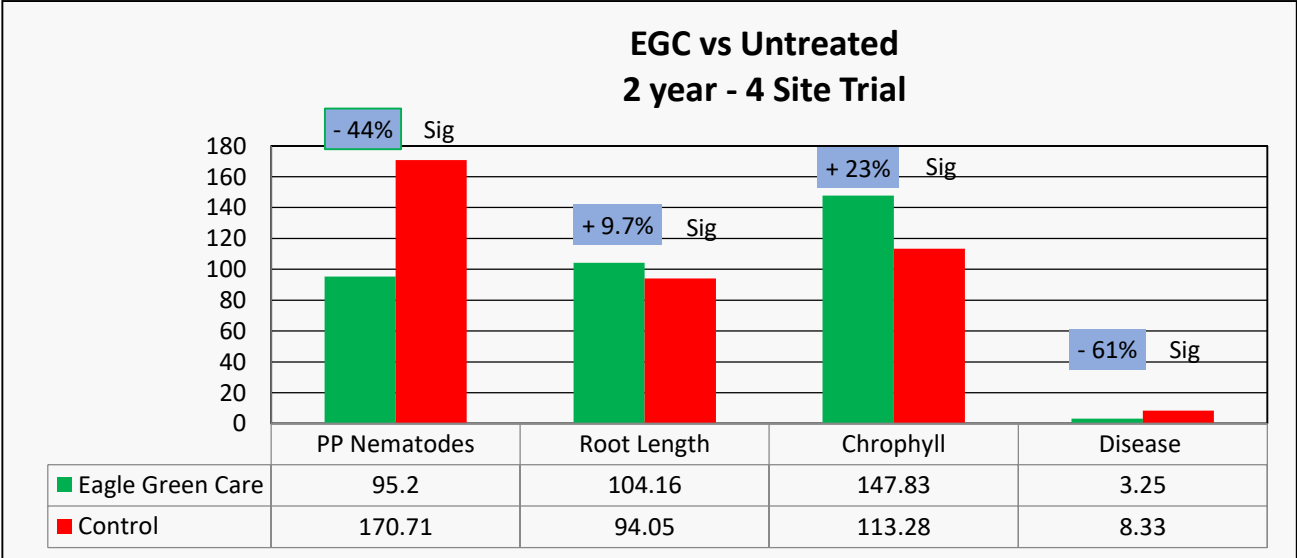
**Incidental On Label Use:**  
**Suppression of Fusarium**  
*(Michodochium nivale)*



**Incidental impact on other pests:**  
**Suppression of Leather Jackets**  
**Targeting Eggs and First instar larvae**



**Registered as a nematicide backed up by efficacy trials results**



## EGC – Label Dose Rates

### EGC Liquid – Rates of Use

- 20 litres/ha (in 500 litres water/ha)
- 1 litre/green (circa 500 m<sup>2</sup> in size) (in 25 litres of water)
- No of applications 1-3. This is also dependent on which nematode type – ie RKN requires more treatments
- No of applications per year – up to 6



### EGC Granules – Rates of Use

- Ideally used as a 'longer term' treatment, over a 4-6 week period.
- Designed for use in renovations
- Rate of use - 12-24 g /m<sup>2</sup> with a maximum of 24 g/m<sup>2</sup> in the year.
- Granule size - 0.5-1.0 m.
- Can be applied through most seed/fert spreaders

***EGC is the only liquid and granular nematicide registered in the Rol and the UK for sports turf and amenity grass.***

### **ALWAYS READ THE LABEL : USE PESTICIDES SAFELY**

For more information contact:

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