

NEMATOCIDE TRIAL UPDATE

SFNMC FY 2021 ADVISORY MEETING

NOVEMBER 5, 2020

NEMATICIDE TRIAL UPDATE 2020

- Purpose of the trial is to test product(s) that are **applied by nursery staff** for nematode control
- To target nematode problem areas in nursery to augment fumigation

NEMATOCIDE TRIAL UPDATE 2020

- Initially considered new product Indemnify[®]:
 - manufactured by Bayer as a fungicide and nematocide
 - labeled for **turf** (golf courses, sports fields, etc.)
 - active ingredient is fluopyram, a contact nematocide
 - has an extremely long soil half-life of 6 months to 2 years



Home > GCSAA Websites > GCM > 2017 > July > New golf course nematocides

Read the entire July 2017 issue of *GCM* »

FROM THE JULY 2017 ISSUE OF GCM MAGAZINE:

NEW GOLF COURSE NEMATOCIDES

New nematocides are filling the gap left in the toolboxes of superintendents who relied on Nemacur, but a single product will likely not be sufficient to replace the old standby.

WILLIAM T. (BILLY) CROW, PH.D.; J. OLE BECKER, PH.D.; AND JAMES H. BAIRD, PH.D.

Read this story in *GCM's* digital edition »

The past two decades have brought major shifts in pesticides – in general and in turfgrass nematocides specifically – because of the implementation of the Food Quality Protection Act of 1996. We have moved away from reliance on a



GROUP 7 FUNGICIDE



Indemnify[®]

Intended for use by commercial applicators.

For use on turf on golf courses, sod farms, sport fields, residential, institutional, municipal, commercial, and other turfgrass areas.

Broad spectrum control of nematodes
Enhanced root growth in the presence of plant pathogenic nematodes

ACTIVE INGREDIENT: Fluopyram*:
N-[2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]ethyl]-2-(trifluoromethyl)benzamide* 34.50%
OTHER INGREDIENTS: 65.50%
TOTAL: 100.00%

Contains 3.34 lbs fluopyram per gallon
(CAS Number 658066-35-4) Suspension Concentrate
EPA Reg. No. 432-1543

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

For MEDICAL and TRANSPORTATION Emergencies
ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-800-331-2867

Net Contents
17.1 Fl. Oz.
84411426
81714290B 160623AV2

See Back Panel for First Aid Instructions
and Booklet for Complete Precautionary
Statements and Directions for Use.

NEMATOCIDE TRIAL UPDATE 2020

- Chemical rep identified another Bayer product, Broadform™
 - fluopyram + trifloxystrobin
 - labeled for ‘outdoor nurseries, outdoor seedbeds, and Christmas trees’
 - SFNMC tested trifloxystrobin (Compass®) in rust trial



Intended for use by commercial applicators.
For use on ornamentals and crops in residential and commercial landscapes, interiorscapes, field grown and container crops in nurseries and greenhouses, lathhouses, shadehouses, and other enclosed structures.

ACTIVE INGREDIENT:	
FLUOPYRAM*	21.40%
TRIFLOXYSTROBIN*	21.40%
OTHER INGREDIENTS:	57.20%
TOTAL:	100.00%

Contains 2.10 lbs fluopyram and 2.10 lbs trifloxystrobin per gallon

*(CAS Number 658066-35-4 and 141517-21-7)

EPA Reg. No. 432-1537

Suspension Concentrate
Shake Well Before Use

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Net Contents

12 Fl. Oz.

85758497

85761811B 181214AV2

See Back Panel for First Aid
Instructions and Booklet for
Complete Precautionary
Statements and Directions for Use.

NEMATICIDE TRIAL UPDATE 2020

- Testing product for nematode control and seedling tolerance
- 1 replicated study in loblolly pine at ArborGen Bullard, TX nursery
- Developed 3 spraying regimens based on maximum 27.1 oz/ac allowed by label

<u>Trt #</u>	<u>Desc.</u>	<u>Rate/Timing (using 27 oz total per treatments 2,3,4)</u>
1	control	no sprays - fumigated Fall 2018
2	2 sprays	13.5 oz @ sowing + 13.5 oz @ 21 days
3	3 sprays	8 oz @ sowing + 11 oz @ 21 days + 8 oz @ 21 days
4	4 sprays	6.75 oz @ sowing + 6.75 oz @ 21 days + 6.75 oz @ 21 days + 6.75 oz @ 21 days

NEMATICIDE TRIAL UPDATE 2020

- Nursery staff installed entire trial, making all spray applications, seedling counts, soil samples, will collect and ship seedling samples for measurements at AU



Photos credits ArborGen, Inc.

NEMATOCIDE TRIAL UPDATE 2020

- Trial measurements and analyses will include:
 - Seedling germination counts
 - Nematode counts pre-plant and end of season
 - End of season seedling quality measurements
- Visual analysis of treated areas look promising; trial proposed to be continued in 2021

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