

Braco White Mustard

Sinapis alba

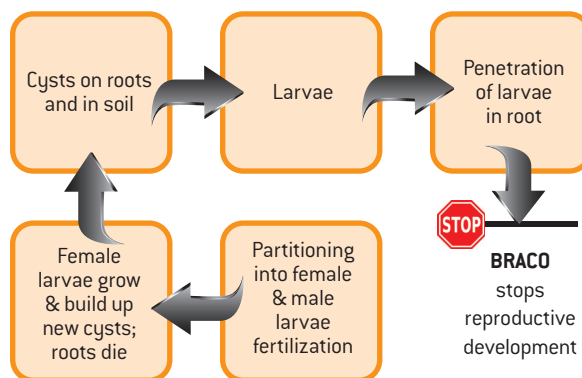


Braco is a white mustard used as cover crop especially where nematodes are causing problems in cash crops and permanent stands such as orchards and vineyards. In addition, it supplies all the benefits of a cover crop with regard to nutrient capturing, erosion control, organic matter supply and weed suppression.

Dual Nematode Control

Nematode Trap

During the growth of the Braco crop, nematode larvae are attracted to and penetrate the Braco root, but are unable to complete their life cycle, thus drastically reducing the number of nematodes in the soil the following year.



Biofumigation

When Braco is in early flower stage, the crop can be chopped down and worked into the top soil. The chopped up crop will release glucosinolates which act as a biofumigant to kill nematodes, insects and even weed seeds. Best method is to chop, work into moist soil and pack all in one pass over the field. For maximum effect:

- Chop as small as possible
- Immediately incorporate into a moist top soil
- Immediately after incorporation pack/roll to seal off the top to trap the glucosinolates in the soil
- No-till plant the cash crop after a minimum of 15 days

Studies have shown that Braco, when properly managed, will have the same effect on nematodes as a chemical fumigation, at a fraction of the cost. In addition, Braco provides all the other benefits of a cover crop, improving soil tilth and releasing captured nitrogen to the following cash crop.

BRASSICA TYPE
White Mustard

ESTAB. RATE
5-7 days

NITROGEN REQ.
50 lbs/ac

ANEROBIC SOIL TOL.
Moderate

pH RANGE
5-8

DRY MATTER YIELD
Up to 2 - 2.5 tons/ac

PRIMARY UTILIZATION
Cover crop,
Biofumigation

SEEDING RATE
20-25 lbs/ac

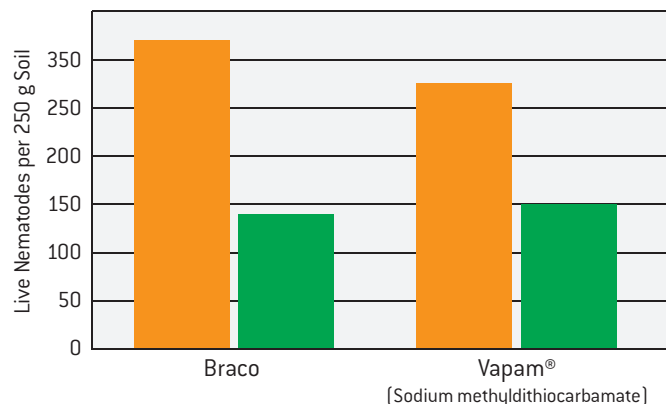
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The Effect of Biofumigation vs. Chemical Fumigation on Dagger Nematode, Following Carrots

Washington State University Prosser, 2004 & 2005



Treatments

Pre-Incorporation Post-Incorporation

Approximate cost to treat Nematodes:

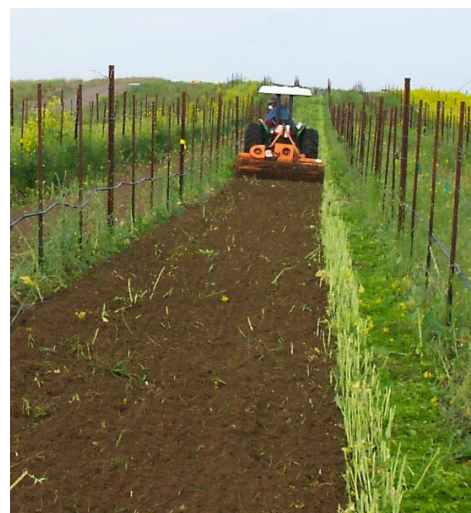
Braco \$100-\$150 per/acre

Vapam® \$300-\$500 per/acre

Nematode Suppression Trial

Summer 2005 - Madras, OR

Date	Description	Results (100 grams soil)		
		Pratylenchus Thornei	Pratylenchus Neglectus	Pin Nematode
May 14, 2005	Planted 15 lbs/acre			
June 29, 2005	Testing: 1st Nematode Sample	1569	276	235
July 4, 2005	1. Flail chopped 2. Diced the field twice with an offset disc approximately five inches deep			
September 20, 2005	Testing: 2nd Nematode Sample	0	0	2



1. Allow 65-75 days growth before cutting

2. Flail or chop to reduce particle size

3. Incorporate plant material into the soil