

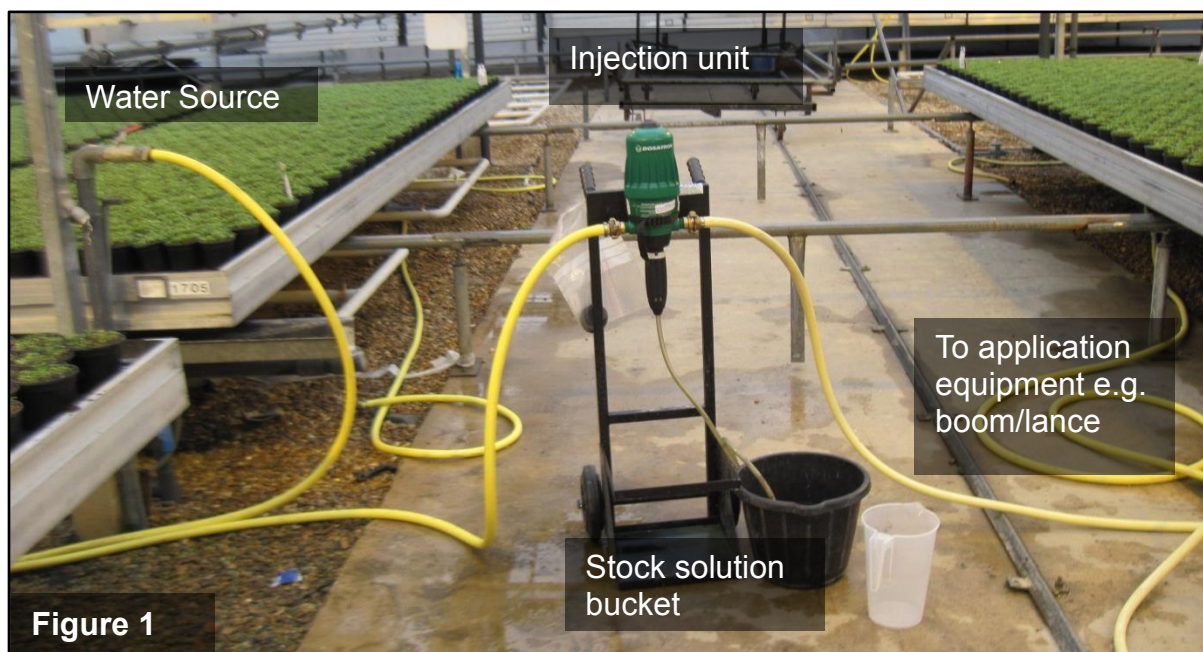
Step-by-step guide to apply nematodes using a Dosatron

Technical Note [F50]

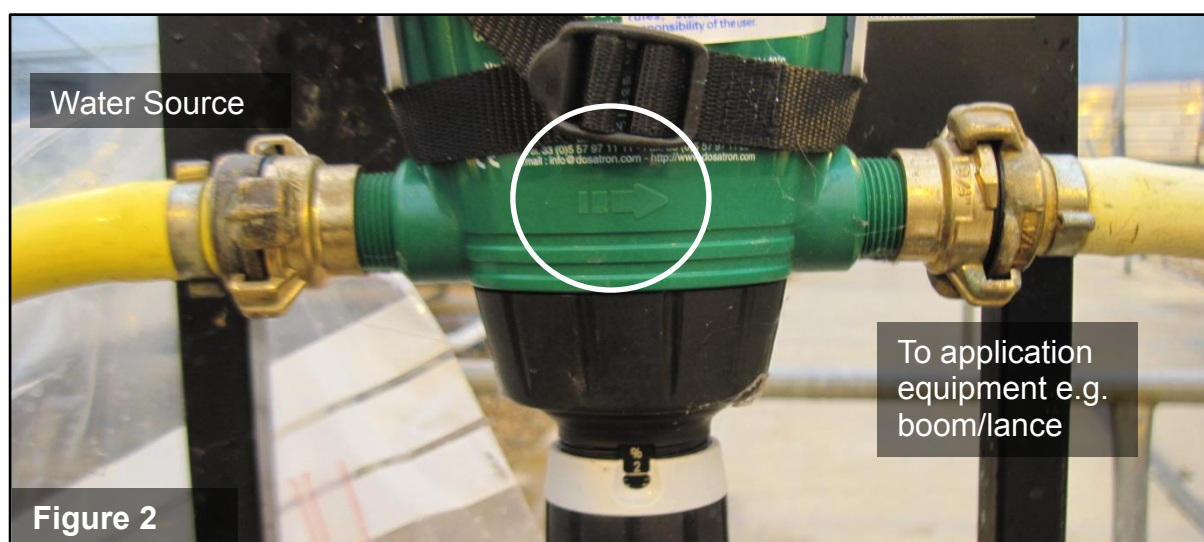
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Equipment set-up



1. Ensure that equipment is set up according to Figure 1.
IMPORTANT: Check that the direction of water flow matches the unit arrow (encircled) in Figure 2.



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2. Remove filters from the system including from the Dosatron additive hose (Figure 3). Also check nozzles and lances are suitable for nematode application. No nozzle smaller than red on the BCPC ISO system.



Figure 3

Nematode application

1. Take required packs of nematodes to treat the area out of storage (Figure 4).

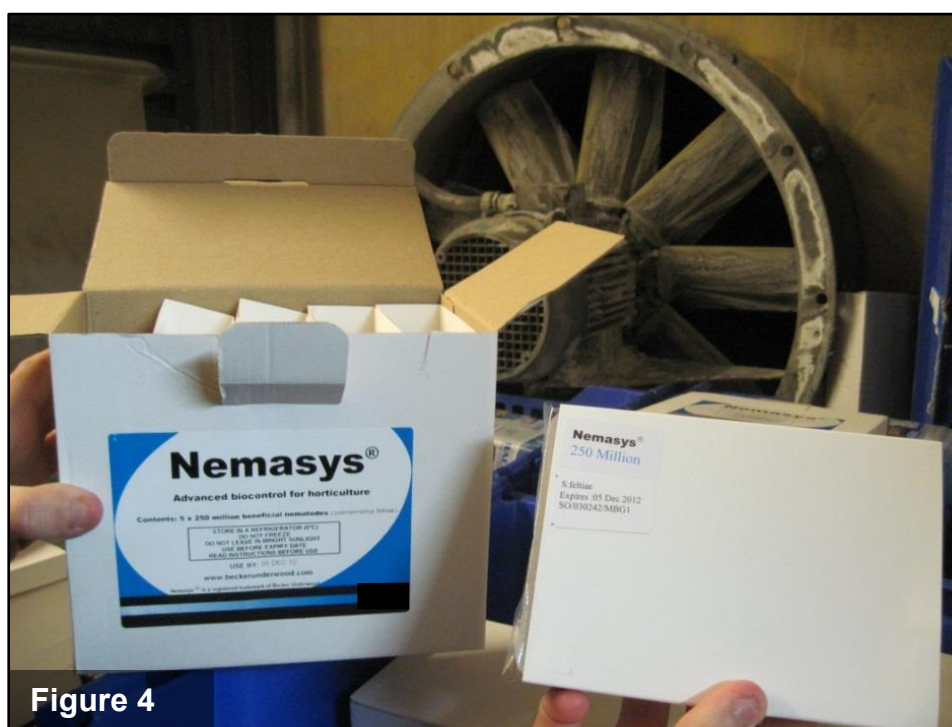


Figure 4

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- Set Dosatron at appropriate injection rate (Figure 5). Technical Note F51 shows how to accurately calibrate a unit.
Tip – An injection rate of 1% is generally recommended for nematode application.



Figure 5

- Use the product instruction sheet and Technical Note F52 to calculate volume of water required in the stock bucket (Figures 6 and 7).



Figure 6

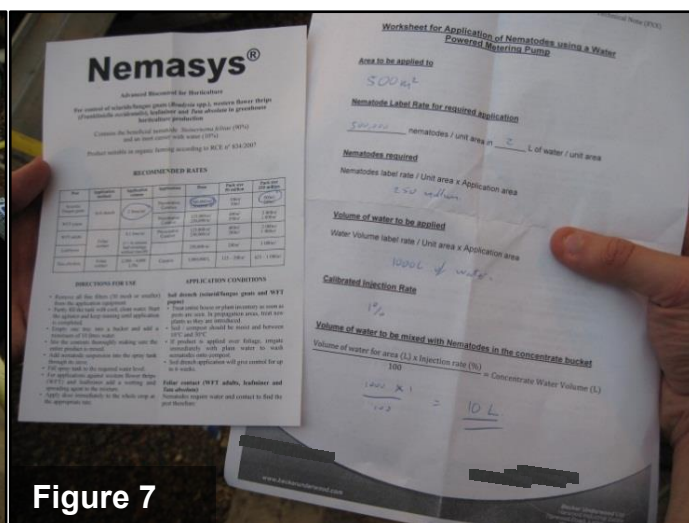


Figure 7

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4. Make nematode stock concentrate to be injected by the Dosatron (Figures 8a – 8d).
 - a. Open pack and put contents in bucket
 - b. Rinse packaging with a small volume of water to ensure all nematodes are washed into the bucket
 - c. Add 1-3 litres of water to bucket to rehydrate the nematodes and stir solution to break up the formulation
 - d. Add the remaining volume of water required and stir to ensure that the nematodes are well dispersed



Figure 8a



Figure 8b



Figure 8c



Figure 8d

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5. Place additive hose into the stock solution bucket and nematodes are now ready to apply (Figure 9).



Figure 9

6. Starting the flow of water will activate the Dosatron which will start injecting the stock suspension.
- Time taken to prime the Dosatron is dependent on the model, water flow rate and dose rate.
Tip: Transparent tubing allows observation of the concentrate during priming.
 - If air is caught in the system press the bleed button to allow it to escape (Figure 10).



Figure 10

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7. Final step is applying the nematodes.
 - a. During application ensure that the nematodes in the concentrate bucket are stirred / agitated continuously. This can be with a mechanical stirrer e.g. plasters paddle attached to drill or hand stirred by the operator.
 - b. Ensuring that the correct volume of water is being applied per unit of area is also key to the correct dose of nematodes being applied to the treated area and uptake of stock solution should be monitored regularly.
Tip: Collection dishes laid on the crop surface can be used to catch spray which, using a hand lens, can be evaluated for the presence of nematodes in the output (Figures 11 and 12).



Figure 11



Figure 12

For more information on applying nematodes and the Nemasys range please email bu-info-uk@basf.com