Carrot rust fly

What is Carrot rust fly?

Carrot rust fly (Psila rosae) is primarily a pest of carrots, but it also affects parsnip, celery and parsley. The larvae channel into the roots of host plants, where feeding activities impact on plant vigour and tap root quality. Under ideal conditions, the Carrot rust fly can have up to three generations per year.

What does it look like?

The mature fly has a black body, reddish head, yellow legs and transparent wings. These flies are about 8 mm in length and can be spotted on the leaf surfaces of host plants.

The larvae are 8-10 mm long and white or yellowish in colour. They have a pair of prominent black feeding hooks at the front end. Pupae are shiny brown and about 5 mm in length.

What can it be confused with?

The small fly may be hard to distinguish from other fly pests in the field, while the Carrot rust fly damage can be confused with nutritional deficiencies or water stress. However, host symptoms in combination with the presence of flies or larvae should be reported.

What should I look for?

Host plant symptoms are the easiest way to detect the presence of the Carrot rust fly.

Seedlings can be killed or injured by larvae feeding on tap roots. Look for gaps in the crop, but also yellowing and reddening of the leaves. In more mature carrots, the larvae attack the tap roots creating channels, distorting them and making the crop unfit for market.
How does it spread?
The pest can be spread as larvae in bulbs, tubers, corms or rhizomes, and also by the transportation of pupae in infested soil. The adult fly is a weak flier and is not a significant spread risk.

Where is it now?
Carrot rust fly is widespread in Europe, Canada, USA and New Zealand.

How can I protect my farm from Carrot Rust Fly?
Check your farm frequently for the presence of new pests and unusual symptoms. Make sure you are familiar with common pests of the vegetable industry so you can tell if you see something different.

If you see anything unusual, call the Exotic Plant Pest Hotline

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