# Fact sheet

# **Serpentine leafminer**

#### What is Serpentine leafminer?

Serpentine leafminer (*Liriomyza huidobrensis*) is a small fly whose larvae feed internally on plant tissue, particularly the leaf. Feeding of the larvae disrupts photosynthesis and reduces the quality and yield of plants. This pest has a wide host range, including many economically important vegetable, cut flower and grain crops.

## What does it look like?

The black flies are just visible (1-2.5 mm in length) and have yellow spots on the head and thorax. Leaf mines caused by larval feeding are usually white with dampened black and dried brown areas. These are typically serpentine or irregular shape, and increase in size as the larvae mature.

Damage to the plant is caused in several ways:

- Leaf stippling resulting from females feeding or laying eggs.
- Internal mining of the leaf by the larvae.
- Secondary infection by pathogenic fungi that enter through the leaf mines or puncture wounds.
- Mechanical transmission of viruses.

## What can it be confused with?

Australia has a large number of Agromyzidae flies that look similar to the Serpentine leafminer, however these rarely attack economically important species.

## What should I look for?

A Serpentine leafminer infestation would most likely be detected through the presence of the mines in leaf tissue. Adult flies and larvae are not likely to be seen due to their size.



The small adult fly is predominately black with some yellow markings



Serpentine mines on an onion leaf caused by the feeding larvae



Pupae of the Serpentine leafminer





Typical symptoms of underleaf mining in a Chrysanthemum

#### How does it spread?

Adult flies can spread throughout a crop by flight, but most long distance transport occurs when plant material containing larvae is transported.

#### Where is it now?

The Serpentine leafminer is now widespread through Africa, America, Europe, Asia and parts of Oceania.

# How can I protect my production nursery from Serpentine leafminer?

Check your production nursery frequently for the presence of new pests and unusual symptoms. Make sure you are familiar with common pests of the nursery production industry so you can tell if you see something different.

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





Side view of a Serpentine leafminer showing lighter underside colouring



Damage to a potato leaf caused by larval feeding

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