

## TECHNOTE NEW PEST AND CROP REGISTRATIONS

**Since the 1990's, Nufarm has been working with agriculture and horticulture industries to achieve important registrations for symphylid control in pineapples plus an alternative insecticide for silverleaf whitefly and other pests in several vegetable crops.**

With the support of Horticulture Innovation Australia (HIA) and industry bodies including Growcom, Nufarm has been seeking to convert several minor-use permits into registered label uses for its already widely-used bifenthrin insecticide/miticide Astral<sup>®</sup> 250EC.

Astral 250EC is currently registered for use against a broad range of insect pests, mites and whitefly in many Australian broad-acre field crops, tree-fruit crops, bananas, vegetable crops and sugarcane.

Astral 250EC now offers registered use patterns in many new vegetable crops including green beans and peas, brassicas, lettuce, peppers, eggplant and cucumbers (grown in protected situations) – plus oilseed mustard and pineapples.

Astral 250EC is also now registered to control the important pineapple pest symphylid, and is a robust alternative insecticide for silverleaf whitefly.

Symphylids have been identified as a high-priority pest by the commercial pineapple industry, and by Horticulture Innovation Australia and Growcom.

Symphylids cause root damage in pineapples, ginger and sugarcane – usually in younger crops and when crop growth is slowed.

In pineapples, symphylid damage can cause complete germination failure, stunting and reduced crop vigour and yield. They are estimated to affect one-third of Australia's pineapple production area.



Silverleaf whitefly is identified by its tent-shaped wings that have a gap between them distinguishing it from the greenhouse whitefly with its flatter, overlapping wings.

Silverleaf whitefly had become an increasing and widespread problem in Australia, particularly in tropical and subtropical regions, with a reputation for developing resistance to insecticides.



Symphylids – small whitish invertebrates – live in loose soil and will eat actively-growing roots, causing damage and reducing the vigour of pineapples and sugarcane at any crop stage.

## NEW ASTRAL 250EC PEST AND CROP REGISTRATIONS

PEST	CROPS
Silverleaf whitefly ( <i>Bemisia tabaci</i> ) Biotype B	Beans (common - fresh and processing), broccoli, brussels sprouts, cauliflowers, cucumbers (protected crops), peppers (sweet/capsicum and chilli), eggplant.
Redlegged earth mite ( <i>Halotydeus destructor</i> )	Beans (common - fresh and processing), mustard (oilseed cultivars), peas (fresh and processing).
Brown pasture looper ( <i>Ciampa arietaria</i> )	Mustard (oilseed cultivars).
Blue oat mite ( <i>Penthaleus major</i> )	Mustard (oilseed cultivars), peas (fresh and processing).
Pasture webworm ( <i>Hednota</i> spp.)	Mustard (oilseed cultivars).
Bryobia mites ( <i>Bryobia</i> spp.)	Mustard (oilseed cultivars).
Vegetable weevil ( <i>Listroderes difficilis</i> )	Mustard (oilseed cultivars).
Greenhouse whitefly ( <i>Trialeurodes vaporariorum</i> )	Cucumbers (field and protected crops), peppers (sweet/capsicum and chilli), eggplant.
Thrips (excluding western flower thrip)	Cucumbers (field and protected crops).
Two spotted mite ( <i>Tetranychus urticae</i> )	Peppers (sweet/capsicum and chilli), eggplant.
Symphylids ( <i>Hanseniella</i> spp.)	Pineapples (pre-plant soil and post-plant foliar).

For more information on Astral 250, visit [nufarm.com.au](http://nufarm.com.au)



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