OLOGICAL CONTROL GREENHOUSE PESTS

KEY PESTS

BIOCONTROL SOLUTION

Aphids



Myzus persicae



Aphis gossypii



Aphidius



Aphelinus

Fungus Gnats



Adult Sciarid



Sciarid larvae



Hypoaspis - M



Dalotia

Thrips





Cucumeris



Orius



Hypoaspis - A

Two Spotted Mite







Persimilis



Greenhouse Whitefly







Encarsia



Eretmocerus

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Biological Control Organisms for Greenhouse Pests

Aphids

Aphidius colemani - will parasitise many of the smaller aphid species including the major pests of greenhouses Green Peach Aphid (Myzus persicae) and Cotton/Melon Aphid (Aphis gossypii).

Aphelinus abdominalis - can attack over 200 Aphid species but prefers larger species such as Foxglove Aphid (Aulacorthum solani) and Potato Aphid (Macrosiphum euphorbiae). It has a long lifespan, is able to withstand high temperatures, and kills many hosts by direct feeding. Use in conjunction with Aphidius.

Fungus Gnats

Hypoaspis-M - soil dwelling predatory mite preys on larvae of fungus gnats and other small organisms in the top of the root zone.

Dalotia - Soil dwelling beetle feeds on a wide range of small insects, mites, and fly eggs. Can tolerate wet conditions and aids in control of shoreflies and thrips. Use in conjunction with Hypoaspis-M.

Thrips

Cucumeris - preys on first instar thrips on foliage and in flowers. Establishes quickly on pollen producing crops. Can also control broadmite.

Orius - Predatory bug that can feed on all active stages of thrips especially in flowers. Used mostly in Capsicum, Eggplant, Strawberry and flower crops where a pollen source is available.

Hypoaspis - A - soil dwelling predator with an appetite for thrip pupae in the soil. Also controls bulbmites in lilliums and other bulb crops.

*All of these species should be used in your thrip control program.

Two Spotted Mite

Persimilis - Voracious predator. Thrives in warm, humid conditions. Is the main control agent for spidermites in greenhouse climates.

Wearnei - tolerates hot/dry conditions. Will persist in the crop in the absence of Two Spot by feeding on other mite species, pollen, and small insects. Use with Persimilis during adverse conditions or hot spots.

Greenhouse Whitefly Encarsia - main control agent worldwide for Greenhouse Whitefly on vegetables and ornamentals. Works best in temperatures above 20°C. Eretmocerus - able to withstand high temperatures, and kills many hosts by direct feeding. Use in conjunction with Encarsia.



for Aphidius, Aphelinus, Hypoaspis M, Hypoaspis A, Cucumeris (except WA), Wearnei, Encarsia, Eretmocerus.

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for Persimilis, Orius, and Cucumeris (WA only).

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