BIOLOGICAL CONTROL STRATEGY FOR GREENHOUSE POINSETTIA PRODUCTION



GLOBAL HORTICULTURAL INC. CONTROL AGENTS FOR GREENHOUSE POINSETTIAS

PEST	ВСА	PRODUCT	RATE		TIMING	COMMENTS
			m ²	ft ²	1	
Whitefly Greenhouse whitefly (<i>Trialeurodes vaporarium</i>) Silverleaf whitefly (<i>Bemisia tabaci</i>)	Eretmocerus eremicus	Eretmocerus pupae	10	1	Start second week after sticking cuttings or immediately after planting. Repeat weekly.	Optimal introduction method for Eretmocerus is blister packs. Keep blister packs (or cards) out of direct sunlight and open release flap on the back. Eretmocerus does significantly more hostfeeding than Encarsia.
	Encarsia formosa	Encarsia pupae	10	1		Hang <i>Encarsia</i> cards between the crop so pupae are protected against direct sunlight. Optimal temperature of <i>Encarsia formosa</i> is between 18-27°C (65-80°F).
Note: In areas where temperatures are consistently >20°C (68°F), replace <i>Encarsia formosa</i> with	Amblyseius swirskii	Swirskii sachets 1 (stick) sachet pot			Place sachets at sticking / seeding and again during transplanting into larger pots	
Eretmocerus eremicus . If Bemisia tabaci is present, always use Eretmocerus as Encarsia is less effective against Bemisia . For temperate climate zones a mix of both species is recommended to bridge from cooler to warm climate.		Swirskii loose	100-150	10-15	First introduction on rooted cuttings. Second introduction just prior to spacing and then release every 2 weeks until moment of colouring. Curative> 300-400 / m ² .	Distribute evenly over leaf canopy.
Fungus gnats & shore flies (Bradysia spp. & Scatella spp.)		Stratiolaelaps loose	100	10	Apply at sticking and transplanting.	If applied at rooting stage, second application should be half rate at transplanting.
	Dalotia coriaria (Atheta coriaria)	Dalotia adults / larvae	2	0.2		
	Steinernema feltiae & Steinernema carpocapsae	Steinernema feltiae / carpocapsae sponge	20,000	2,000	Apply at sticking and repeat twice during rooting stage. Re-apply after transplanting.	Correct application is critical for efficacy. Make sure solution is agitated, fine filters are removed and pressure is kept low.

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Two-spotted spider mites (Tetranychus urticae)	Phytoseiulus persimilis	Phytoseiulus loose	8-10	0.8-1	Start when first spider mites are detected. Repeat weekly until <i>P. persimilis</i> is established and spider mites are controlled. Curative> 100-150 / m ² in and around hotspots.	Twist the bottle slowly during use for a more even distribution of the mites. Sprinkle material on the larger leaves and avoid introduction in bright sunlight. Phytoseiulus persimilis does not work well on Lewis mites.
Lewis mites (Eotetranychus lewisi)	Amblyseius andersoni / Amblyseius californicus	Andersoni / Californicus I	6-10	0.6-1	Start when first Lewis mites (or spider mites) are detected. Repeat weekly for 3-4 weeks until mites are controlled. Curative> 25-50 / m ² in and around hotspots.	
Thrips, Western Flower Thrips (Frankliniella occidentalis)	Amblyseius swirskii	Swirskii sachets	1 (stick) sachet per pot		Place sachets at sticking / seeding and again during transplanting into larger pots	
		Swirskii loose	100-150	10-15	First introduction on rooted cuttings. Second introduction just prior to spacing and then release every 2 weeks until moment of colouring. Curative> 300-400 / m ² .	Distribute evenly over leaf canopy.
ago not produce well on poinsettia.	Stratiolaelaps scimitus (Hypoaspis miles)	Stratiolaelaps loose	100	10	Apply at sticking and transplanting.	If applied at rooting stage, second application should be half rate at
Typically WFT will decrease naturally	Dalotia coriaria (Atheta coriaria)	Dalotia adults / larvae	2	0.2	THE RESERVE OF	transplanting.

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