



BioWorks®
How You Grow Matters™



Phytotoxic Effects

Phytotoxic Effects and Pests Controlled by Spray Application of SuffOil-X® to Ornamentals

(Including various bedding, foliage and ornamental plants)

Plant Variety	Rate ¹ (%)	Phyto Rating ²	Growth Cond. ³	Pest(s) Controlled ⁴
<i>Allamanda cathartica</i>	1	0	S	-
<i>Allamanda cathartica</i>	1	0	FS	-
<i>Anthurium</i> 'Lady Jane'	1	0	S	TSM
<i>Aralia</i> – parsley	1	0	FS	-
<i>Rhododendron</i> - Azalea	1	0	FS	-
<i>Musa</i> - banana	1	0	S	-
<i>Strelitzia</i> - bird of paradise (red and white)	1	0	FS	-
<i>Bougainvillea</i>	1	0	FS	-
Buttonwood, green	1	5	FS	PS
Buttonwood, sliver	1	5	FS	PS
<i>Calathea roseopicta</i>	1	0	S	TSM
<i>Livistonia chinensis</i> - Chinese fan palm	1	0	FS	-
<i>Cordyline</i>	1	0	S	-
<i>Cordyline terminalis</i> 'Global'	1	5	S	TSM
<i>Cordyline terminalis</i> 'Kiwi'	1	0	S	TSM
<i>Cordyline terminalis</i> 'Red Sister'	1	1	S	TSM
<i>Codiaeum variegatum</i> – croton	1	0	S	TSM
<i>Codiaeum variegatum</i> - croton	1	0	FS	-
<i>Codiaeum variegatum</i> - croton 'Petra'	1	0	S	TSM
<i>Euphorbia splendens var. millii</i> - crown of thorns	1	0	FS	-
<i>Cuphea</i> (Mexican or false heather)	1	0	FS	CAT
<i>Cuphea hyssopifolia</i> 'Allyso'	1	0	FS	-
<i>Dahlia</i>	2	0	FS	-
<i>Dianthus</i> –pinks	2	0	FS	-
<i>Dieffenbachia</i>	1	0	S	TSM
<i>Dieffenbachia</i> 'Bali Hai'	1	0	S	TSM
<i>Dieffenbachia maculata</i> 'Camille'	1	0	S	TSM
<i>Dracaena</i>	1	0	FS	-
<i>Dracaena marginata</i>	1	0	S	TSM
<i>Dracaena marginata</i> 'Colorama'	1	0	FS	-
<i>Dracaena reflexa</i> 'Song of India'	1	0	S	-
<i>Dracaena reflexa</i> 'Song of India'	1	0	FS	-
<i>Dracaena reflexa</i> 'Pleomele'	1	0	FS	-
dusty miller	2	0	FS	-
<i>Epipremnum aureum</i> - pothos	1	0	S	-
<i>Epipremnum aureum</i> – pothos 'Jade'	1	0	S	-
<i>Epipremnum aureum</i> – pothos 'Marble Queen'	1	0	S	-
<i>Ficus benjamina</i> – weeping fig 'Wintergreen'	2	0	S	-
<i>Ficus benjamina</i> – weeping fig 'Wintergreen'	1	0	S	-
<i>Ficus benjamina</i> – weeping fig 'Wintergreen'	1	0	FS	-
<i>Ficus elastica</i> – rubber plant 'Robusta'	1	0	S	-

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<i>Ficus lyrata</i> – fiddle-leaf fig	1	0	S	TSM
<i>Gardenia</i>	1	0	FS	PS
<i>Gardenia</i>	0.8	0	FS	-
<i>Gardenia</i>	1	0	FS	-
<i>Gerbera</i> - Gerbera daisy	1	0	FS	-
ginger variegated	1	0	FS	-
<i>Cissus rhombifolia</i> - grape ivy	1	0	S	MB, SWPF
<i>Hedera helix</i> – common or English ivy	1	0	S	-
<i>Hibiscus</i>	2	0	FS	SPWF, TSM
<i>Hibiscus</i>	1	0	S	SPWF
<i>Hibiscus</i>	0.8	0	FS	SPWF
<i>Hibiscus</i>	1	0	FS	SPWF
<i>Impatiens</i>	1	9	FS	-
<i>Ixora</i>	1	0	S	SPWF
<i>Ixora</i> ‘Maui’, ‘Nora Grant’, ‘Singapore’, ‘Petit’, ‘Red Taiwan Dwarf’	1	0	FS	-
<i>Jasminum pubescens</i> – wax jasmine	1	0	FS	-
<i>Jatropha</i>	1	0	FS	-
<i>Lantana</i> (yellow, purple, red)	1	0	FS	-
<i>Ligustrum recurvifolia</i> – Japanese privet	1	0	FS	-
<i>Ligustrum sinensis</i> – Chinese privet	1	0	FS	-
<i>Liriope muscari</i> ‘Evergreen Giant’	1	0	FS	-
<i>Mandevilla splendens</i>	1	0	S	-
<i>Ravenea rivularis</i> - majesty palm	1	0	FS	FRS
<i>Disocactus maranthus</i>	1	0	S	-
Marigold	2	0	S	-
<i>Nerium oleander</i>	1	0	FS	PS
<i>Nerium oleander</i> -dwarf	1	0	FS	-
<i>Pentas</i>	1	0	FS	-
<i>Philodendron</i>	1	0	FS	-
<i>Philodendron selloum</i>	1	0	FS	-
<i>Phoenix roebelenii</i> -pygmy date palm	1	0	FS	MS
<i>Pittosporum tobira</i> ‘compacta’, green, variegated, ‘Wheeler’s dwarf’	1	0	FS	-
<i>Podocarpus</i>	1	0	FS	PS
<i>Podocarpus</i>	1	0	S	-
<i>Euphorbia pulcherrima</i> - poinsettia	2	0	S	SPWF
<i>Syagrus romanzoffiana</i> - queen palm	1	0	FS	-
<i>Rhaphiolepis</i>	1	0	FS	-
<i>Rhaphiolepis indica</i> ‘Indian Hawthorn’	1	0	FS	-
<i>Roystonea</i> - royal palm	1	0	FS	-
<i>Scaevola</i> – 1	1	0	FS	-
<i>Coccoloba uvifera</i> - seagrape	1	0	FS	PS
<i>Schefflera</i>	1	0	FS	-
<i>Schefflera arboricola</i> - dwarf umbrella tree	1	0	S	TSM
<i>Schefflera arboricola</i> - dwarf umbrella tree	1	0	FS	-
<i>Schefflera arboricola</i> - dwarf umbrella tree ‘Covette’	1	0	S	MB
<i>Schefflera arboricola</i> - dwarf umbrella tree ‘Golden Capella’	1	0	S	MB
<i>Schefflera arboricola</i> - dwarf umbrella tree variegated	1	0	S	-

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<i>Antirrhinum</i> – snap dragon	1	0	FS	-
<i>Spathiphyllum</i>	1	0	S	TSM
<i>Spathiphyllum</i> ‘Lynise’	1	0	FS	-
<i>Spathiphyllum</i> ‘Viscount’	1	0	FS	-
<i>Spathiphyllum</i> ‘Viscount’	1	0	S	-
<i>Eugenia uniflora</i> - Surinam cherry	1	0	FS	-
<i>Plectranthus verticillatus</i> – Swedish ivy	1	0	S	-
<i>Tecomaria capensis</i> – Cape Honeysuckle	1	0	S	-
<i>Verbena</i>	1	0	FS	-
<i>Viburnum</i>	1	0	FS	-
<i>Viburnum suspensum</i>	1	0	FS	-
<i>Vinca</i>	1	0	FS	-
<i>Myrica</i> – wax myrtle	1	0	FS	PS
<i>Zamia</i> - cycad	1	0	FS	PS
<i>Zamia furfuracea</i> –cardboard cycad	1	0	FS	-

¹Rate per 100 gallons of water

²Phytotoxicity scale = 0 to 10, where 0 = no phytotoxicity

³ FS = Full Sun, S = Shade

⁴ Pests controlled indicates that this phyto study also included an evaluation of pest control in addition to phytotoxicity: A= Aphid, CAT = Caterpillar, FRS = Florida Red Scale, MB = Mealybug, MS = Magnolia scale, PS = Philephedra scale, SPWF = Sweet potato whitefly, TSM = Twospotted spider mite, - = no pest control evaluated.

NOTE: Use caution when making SuffOil-X applications to open blooms, especially on varieties known to be sensitive. It is recommended that a small group of plants be tested for effects on open blooms before making applications to the whole crop.