CALIFORNIA LEMON PRODUCTION*		
COMMON TREATMENTS		
PEST DISEASE TARGET	PEST CONTROL OPTIONS	TREATMENT PERIOD
Plant Growth Regulator	gibberellic acid (GA <sub>3</sub> )	October-November
California Red Scale	Aphytis melinus Releases * *	February – September
	Oils, pyriproxyfen, spirotetramat (Movento)	May-August
Ants	chlorpyrifos (Lorsban)	May – October
Citrus Thrips	Abamectin (Agri-Mek and others), spinosad (Success and Entrust), dimethoate, spinetoram (Delegate)	May – October
Mites (citrus bud mite, citrus rust mite, broad mite)	sulfur, chlorpyrifos, abamectin, oil, fenbutatin-oxide (Vendex), spirotetramat (Movento), spirodiclofen (Envidor), fenpyroximate (Fujimite)	February-November
Citrus Leafminer	Systemic imidacloprid, abamectin, spinetoram	June-October
Asian citrus psyllid	Fenpropathrin, beta cyfluthrin, cyfluthrin, zeta-cypermethrin (Mustang), thiamethoxam, pyrethrins, spinosad,	Sep-Mar
Anthracnose (Colletotrichum spp.)	azoxystrobin (Abound)	January
Brown Rot ( <i>Phytophthora</i> spp.)	copper materials fosetyl-Al (Aliette), potassium phosphite (ProPhyt)	November-February
Clear Rot (Penicllium spp.)	azoxystrobin (Abound), azoxystrobin/difenoconazole (Quadris Top)	Preharvest
Botrytis infections ( <i>Botrytis</i> cinerea)	cyprodonil/fludioxonil (Switch), pyrimethanil (Scala)	Blossom wet periods
	POST-HARVEST TREATMENTS	
DISEASE TARGET	DISEASE CONTROL OPTIONS	TREATMENT PERIOD
Blue and Green Mold – ( <i>Penicillium italicum</i> and <i>P.digitatum</i> )	Synthetic compounds (o-phenylphenol, thiabendazole, imazalil, fludioxonil, fludioxonil/azoxystrobin, pyrimethanil), natural compounds (carbonates) and biocontrols ( <i>Pseudomonas</i> spp.)	Pre-packaging of harvested fruit
Sour rot (Geotrichum citri-aurantii)	Synthetic fungicides (o-phenylphenol) and natural compounds (carbonates)	Pre-packaging of harvested fruit (Seasonal)
Plant Growth Regulator	2,4-D	

<sup>\*</sup> The only pesticides used by California citrus growers are ones that have been approved by U.S. Environmental Protection Agency (EPA) and the California Department of Pesticide Regulation.

<sup>\*\*</sup> Beneficial insects are a key component in the California orange growers IPM program.