

CALIFORNIA MANDARIN/MINNEOLA PRODUCTION*		
COMMON TREATMENTS		
PEST/DISEASE TARGET	PEST CONTROL OPTIONS	TREATMENT PERIOD
Growth Regulator	2,4-D	September-November
	gibberellic acid (GA ₃)	Mandarin - 1 to 2 applications from 50% petal fall up to 3 weeks after petal fall. Mandarin - 2 weeks before color break for late harvested orchards only as color should not be expected until late January with treatment.
Disease Control (brown rot)	copper compounds fosetyl-AI (Aliette), potassium phosphite (Prophyt)	October - February
California Red Scale	<i>Aphytis melinus</i> Releases * *	February– September
	oils, pyriproxyfen, chlorpyrifos, buprofezin, spirotetamat	May-August
Citrus Red Mite	oils, pyridaben, acequinocyl, fenpyroximate, spiroadclofen	April-June and September-October
Citrus Thrips	spinosad, abamectin, sabadilla, cyfluthrin, dimethoate, fenpropathrin, spinetoram	April-June
Citricola Scale	oils, chlorpyrifos, acetamiprid, systemic imidacloprid	August-October
Forktailed bush Katydid	cryolite, chlorpyrifos, dimethoate cyfluthrin, fenpropathrin, diflubenzuron	April-June
OCCASIONAL TREATMENTS		
Caterpillars (citrus cutworm, amorbia and others)	B.T., cryolite, chlorpyrifos	April-June
Cottony Cushion Scale	Vedalia Beetle Establishment, * * malathion, carbaryl, methidathion	February-April April-September
Citrus leafminer (new plantings)	Systemic imidacloprid, abamectin, spinetoram	June-October
Glassy-winged Sharpshooter	imidacloprid, acetamiprid	March-August
	acetamiprid	October-January
POST-HARVEST TREATMENTS		
DISEASE TARGET	DISEASE CONTROL OPTIONS	TREATMENT PERIOD
Green Mold & Blue Mold (<i>P. digitatum</i>) – (<i>P. italicum</i>)	thiabendazole, imazalil, fludioxonil	Seasonal
Sour Rot (<i>G. Candidum</i>)	o-phenylphenol	Seasonal

- * **The only pesticides used by California citrus growers are ones that have been approved by the U.S. Environmental Protection Agency (EPA) and the California Department of Pesticide Regulation.**
- * * **Beneficial insects are a key component in the California orange growers IPM program.**