









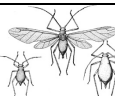

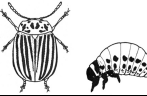

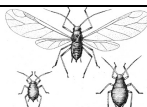






## Common Pests in Ohio Home Vegetable Gardens

<i>Crop</i>	<i>Pest name</i>	<i>Appearance</i>	<i>Damage</i>	<i>Non-chemical management tactics</i>	<i>Insecticide options (O = organic; C = conventional)</i>
cucumber, melon & squash	cucumber beetles		holes in leaves or fruit surface	row covers; plant late; early squash trap crop; remove by aspirator	O: Entrust + CideTrak-D C: imidacloprid (soil drench at-plant); or spray permethrin, esfenvalerate, carbaryl, or pyrethrins+PBO
squash	squash vine borer		plant wilts from larva inside stem	row covers; plant late	C: pyrethrins+PBO or permethrin or esfenvalerate (weekly in June & July)
	squash bug		leaves die from sap-sucking	hand pick; row covers; shingle traps; destroy crop remnants	O: spinosad (for nymphs) C: carbaryl (for nymphs); pyrethrins+PBO or esfenvalerate (for adults)
beans	bean leaf beetle		holes in pods & leaves	row covers; remove by aspirator	O: azadirachtin (daily sprays) C: carbaryl, permethrin, or pyrethrins+PBO
	potato leafhopper		leaves turn brown along edges	row covers; remove by aspirator	C: pyrethrins+PBO or carbaryl
	2-spotted spider mite		white stippling on leaves	encourage ladybugs & other predators; hose off with water	O: soap or oil
broccoli, cabbage, kale, & other cole crops	cabbage-worms		irregular holes in leaves	encourage parasitoids by flowering borders	O: B.t. or spinosad C: acetamiprid
	flea beetles		small pits or holes in leaves	row covers; remove by aspirator	O: azadirachtin (daily sprays) C: imidacloprid (soil drench); or spray of carbaryl, pyrethrins+PBO, permethrin, or esfenvalerate
	root maggots		plant wilts from tunnels in roots	stem collar; adjust planting time	-
eggplant	eggplant flea beetle		many small round holes in leaves	row covers; remove by aspirator	O: azadirachtin (daily sprays) C: imidacloprid (soil drench), or spray carbaryl, pyrethrins+PBO, permethrin, or esfenvalerate
tomato	potato aphid		young leaves wilt due to sap-sucking	encourage ladybugs, lacewings, and other predators	O: soap, oil C: pyrethrins+PBO, acetamiprid
	whitefly		leaves wilt due to sap-sucking	trap with sticky yellow cards	O: soap C: pyrethrins+PBO
potato, tomato, eggplant	Colorado potato beetle		irregular holes in leaves	hand pick; plant early or late, not both	O: spinosad (for larvae) C: permethrin or esfenvalerate (for adults)
spinach	spinach leafminer		blotches in leaves	row covers; hand pick first infested leaves and destroy	O: spinosad C: permethrin, pyrethrins+PBO
lettuce	aphids		leaves wilt from sap-sucking	encourage ladybugs, lacewings, and other predators	O: soap C: pyrethrins+PBO
onion	onion thrips		pale streaks in leaves	hose off with water	O: soap C: lambda-cyhalothrin
asparagus	asparagus beetle		distorted shoots	hand pick	C: pyrethrins+PBO, carbaryl, or permethrin
sweet corn	European corn borer		chewed kernels in corn ears (also in pepper fruit)	avoid very early planting	O: B.t., spinosad C: permethrin (once per week during silking in June & August)
	corn earworm		chewed kernels in corn ears (also in tomato fruit)	avoid late planting	O: inject corn oil + B.t. (20:1) in ear tip at full silk; or spray silk with spinosad C: spray silk with esfenvalerate