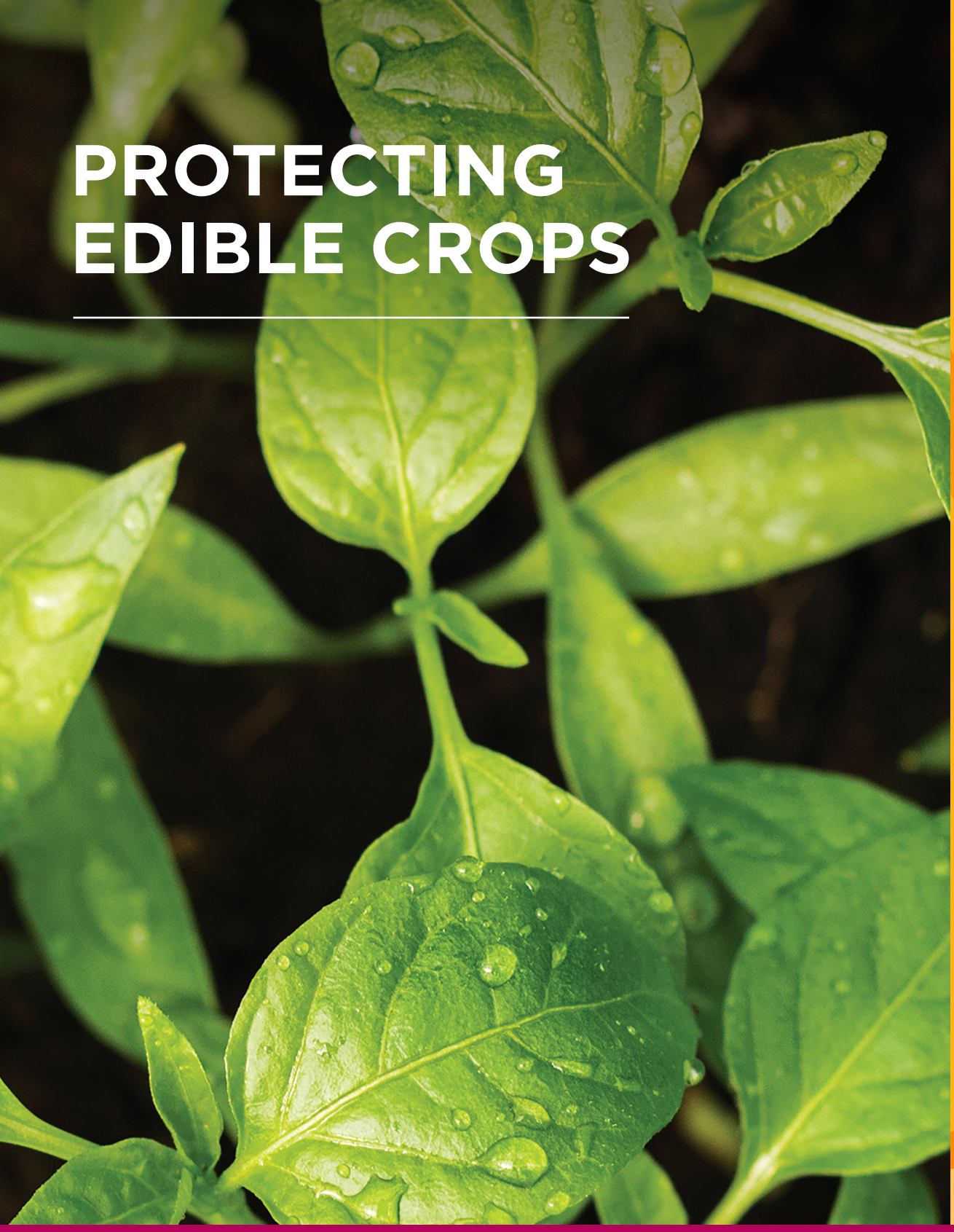
PROTECTING EDIBLE CROPS



Ornamentals

syngenta®

Many operations are diversifying to include vegetable plants and herbs in production. Pre-finished containers of fruiting vegetables and herb plants can be produced with, and complementary to, spring and summer ornamentals. Fruiting vegetables, such as tomatoes and peppers, and herbs like basil and rosemary are popular favorites and well-suited for patio containers or garden transplants.

PRO TIP: STAY UPDATED ON THE LATEST INNOVATIONS AND LABEL EXTENSIONS

You can now protect your edible crops with the added power of Postiva™ fungicide — the latest fungicide innovation from Syngenta — and Palladium® fungicide, a proven product with an extended label to cover berries, small fruit, citrus and more.

Products for Vegetable Production

There are several Syngenta products registered to help protect vegetable and herb plants grown for retail sales. Each has demonstrated effective control of many common diseases and insects that can affect vegetable production. Please consult the respective labels for specific directions on rates, use applications and labeled crops.

INSECT CONTROL			VEGETABLES AND HERBS							
MOA	**Insecticide**	**Insect targets**	**Brassica / Cole**	**Bulb crops**	**Cucurbits**	**Eggplant**	**Peppers**	**Tomatoes**	**Leafy vegetables**	**Herbs**
17	Citation® insect growth regulator	Leafminers Fungus gnats Shore flies	X	X	X		X	X	X	
9B	*Endeavor® insecticide	Aphids Whiteflies	X		X	X	X	X	X	
4A	*Flagship® 25WG insecticide	Aphids Leafminers Whiteflies			X	X	X	X		
DISEASE CONTROL			**VEGETABLES AND HERBS**							
MOA	**Fungicide**	**Disease targets**	**Brassica / Cole**	**Bulb crops**	**Cucurbits**	**Eggplant**	**Peppers**	**Tomatoes**	**Leafy vegetables**	**Herbs**
11	*Heritage® fungicide	Leaf spots Downy and powdery mildews Rust	X	X	X	X	X	X	X	X
40	Micora® fungicide	Downy mildew *Phytophthora* crown rot and Foliar blight	X			X	X	X	X	Basil
7+11	Mural® fungicide	Leaf spots Downy and powdery mildews			X	X	X	X		
7+3	*Postiva fungicide	Leaf spots Powdery mildew			X	X	X	X		
49	*Segovis® fungicide	Downy mildew								Basil
4	*Subdue Maxx® fungicide	Downy mildew Damping off *(Pythium spp.)* *Phytophthora* crown rot and Foliar blight	X		X	X	X	X	X	X
9+12	**Palladium fungicide	Leaf spots Powdery mildew Botrytis	X	X	X	X	X	X	X	X

*Registered for use on non-bearing fruits and nuts.
**Registered for use on labeled fruits and nuts, see label for details.

Beneficial Compatibility

Beneficial insects are often used to control insect pests during vegetable production. Knowing whether a chemical product is compatible is critical for a successful program and saves time, resources and labor. The compatibility of the following insecticides and biological control agents have been tested to help you avoid trial and error.

CLASS	POPULATION EFFECT
1	0-25% reduction
2	26-50% reduction

PRODUCT	*Amblyseius cucumeris*	*Amblyseius andersoni*	*Amblyseius swirskii*	*Aphidius spp.*	*Diglyphus isaea*	*Encarsia formosa*	*Eretmocerus eremicus*	*Phytoseiulus persimilis*	*Orius insidiosus*	*Steinernema feltiae*
Citation	1	1	1	1	1	1	1	1	1	1
Endeavor	1	1	1	2	1	1	1	1	1	1
Heritage	1	1	1	1	1	1	1	1	1	1
Micora	1	1	1	1	1	1	1	1	1	1
Subdue Maxx	-	-	-	-	-	1	1	1	1	1

*Dashes in the chart above indicate that data is unknown or was not tested.

**Data compiled from Koppert, Biobest and Syngenta Bioline research.

Early blight on tomato,
Syngenta

Bacterial leaf spot on pepper,
Gary Vallad, University of Florida/IFAS

Downy mildew on cucumber,
Gary Vallad, University of Florida/IFAS

Target spot on tomato,
Gary Vallad, University of Florida/IFAS

Powdery mildew on tomato,
Syngenta

Late blight on tomato,
Syngenta

Common Insect & Disease Problems

While new vegetable varieties are often bred and screened for resistance to certain diseases, it is still important to scout and be aware of common problems such as leaf spots and mildews, as well as insects like two-spotted spider mites and whiteflies *(Bemisia* and *Trialeurodes spp.)*. Identification should always be confirmed through a commercial or state diagnostic lab.

CROP	COMMON DISEASES	COMMON INSECTS
Tomatoes	• Leaf spots (*Colletotrichum spp., Corynespora spp., Septoria spp.*) • Early blight (*Alternaria spp.*) • Phytophthora late blight (*Phytophthora infestans*) • Bacterial leaf spots (*Xanthomonas spp., Pseudomonas spp.*) • Powdery mildew (*Oidiopsis sicula*)	• Aphids • Leafminers • Mites • Thrips • Whiteflies
Peppers, Eggplant	• Phytophthora blight (*Phytophthora spp.*) • Bacterial leaf spot (*Xanthomonas spp.*) • Cercospora leaf spot (*Cercospora spp.*) • Powdery mildew (*Sphaerotheca spp.*)	• Aphids • Leafminers • Mites • Thrips • Whiteflies
Cucurbits	• Alternaria leaf spot • Anthracnose • Downy mildew (*Pseudoperonospora cubensis*) • Powdery mildew (*Sphaerotheca fuliginea, Erysiphe cichoracearum*)	• Aphids • Whiteflies
Leafy vegetables	• Downy mildew (*Bremia spp.*) • Powdery mildew (*Erysiphe cichoracearum*) • Leaf spots (*Cercospora spp., Septoria spp.*) • Botrytis gray mold • Root & stem rot (*Pythium spp., Rhizoctonia spp.*)	• Aphids • Leafminers • Thrips • Whiteflies
Herbs	• Downy mildew (*Plasmopara spp., Peronospora spp.*) • Powdery mildew (*Erysiphe spp., Sphaerotheca spp.*) • Leaf spots • Botrytis	• Aphids • Mites • Thrips • Whiteflies

Berry, Fruit and Nut Plants Grown for Retail Sales

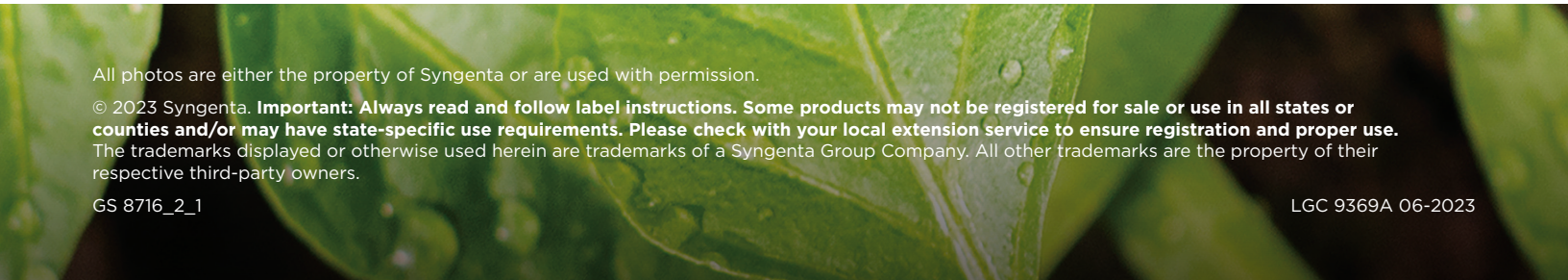
In addition to perennials, shrubs and trees, many nurseries are growing a variety of berry, fruit and nut plants that are popular in their region. Syngenta has a broad portfolio of products to help you protect your investment and ensure a healthy and successful season.

Crop Groups	Banner Maxx® fungicide (Non-bearing plants)	Concert® II fungicide (Non-bearing plants)	Daconil Weatherstik® fungicide (At bloom or after harvest)	Daconil Ultrex® fungicide	Heritage fungicide (Non-bearing plants)	Palladium fungicide (Non-bearing plants)	Postiva fungicide (Non-bearing plants)	Segovis fungicide (Non-bearing plants)	Subdue Maxx fungicide (Non-bearing plants)
Berries & Small Fruit					*Spray*	*Spray*	*Spray or drench*	*Spray or drench*	
Citrus	*Spray*				*Spray*	*Spray*	*Spray or drench*	*Spray or drench*	*Soil treatment*
Deciduous Fruit & Nuts	Apple Bartlett Pear Cherry *Spray*	Apple *Spray*	Apple Cherry *Spray*	Cherry *Spray*			*Spray or drench*	*Spray or drench*	*Soil treatment*
Low-Growing Berries					*Spray*	*Spray*	*Spray or drench*	*Spray or drench*	
Small Fruit (Vine-Climbing)					Grapes *Spray*	*Spray*	*Spray or drench*	*Spray or drench*	
Stone Fruit	*Spray*	*Spray*	*Spray*	*Spray*	*Spray*		*Spray or drench*	*Spray or drench*	
Tree Nuts	Pecans Walnuts *Spray*	Walnuts *Spray*		Almonds Filberts Pistachios *Spray*	Almonds Pistachios Pecans *Spray*	Pistachios *Spray*	*Spray or drench*	*Spray or drench*	
Tropical Fruit					*Spray*	*Spray*	*Spray or drench*	*Spray or drench*	

Refer to product labels for specific crop listings, rates and instructions.

Learn more about solutions for vegetable crops at
GreenCastOnline.com/Vegetables

SyngentaOrnamentals



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