

APHID *Control Strategies*

There are many different species of Aphids (*Aphis* sp.) that are pests of horticultural crops and landscape plants. Most are small, soft bodied, pear shaped insects with piercing and sucking mouthparts that are used to suck out plant fluids. Aphids can be many colors from green, brown, or black, sometimes covered in a waxy or wooly secretion. One common identifier are the cornicles, two protrusions on their hind end. Adults are usually wingless, although they will produce wings when feeding opportunities decline so they can disperse to other crops.

Aphids can mature from newborn to adult in as little as one week, so populations can explode quickly. They are also capable of reproducing asexually and can give birth to 12 or more live nymphs per day. They typically inhabit newer shoots, leaves and stems. Aphid feeding can cause leaf yellowing, curling and distorted leaves and shoots. This insect exudes a honeydew waste that often turns black with sooty mold. Aphids are also known vectors of plant viruses.

Aphid control can be challenging when using contact insecticides if thorough coverage of the plant and the pest is not achieved. Proper spray volume, pressure, and the use of a spray adjuvant can improve results. Growers can benefit by using systemic or translaminar insecticides when good spray coverage is difficult. Soil applications of systemic insecticides can give longer term control by moving to growing shoots and remaining in the plant tissue.

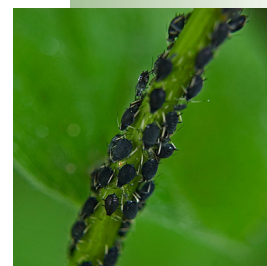
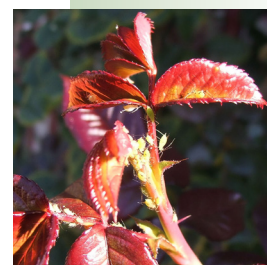
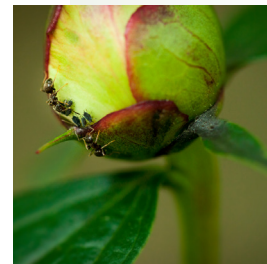
Brand Name	BFG Item #	Active Ingredient	Mode of Action Group	Notes
Rycar	SEPRO1056.128	Pyrifluquinazon	UN	Contact & Translaminar Soft on Beneficials Greenhouse Only Vegetable Label
Altus	BYR84989509	Flupyradifurone	4D	Translaminar & Systemic Foliar or Drench Application Soft on Beneficials
Pradia	OHP986300	Cyclaniliprole, Flonicamid	28, 29	Contact Soft on Beneficials
Mainspring	SYN58664	Cyantraniliprole	28	Translaminar & Systemic Foliar or Drench Application Soft on Beneficials
AzaGuard	BSF7000-32OZ BSFTO70001	Azadirachtin	UN	Insect Growth Regulator Labeled for Fruits & Vegetables
Enstar AQ	WLMK100502416 WLMK100502900	S-Kinoprene	7	Insect Growth Regulator Greenhouse only
BotaniGard 22WP	BW1B15A02	Beauveria bassiana	UN	Fungal Spore that infects insects Soft on Beneficials, Vegetable label

Always read and follow label directions before applying any pesticide and follow state and local regulations

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BIOLOGICAL CONTROLS

The main agents are *Aphidius colemani* for smaller species of Aphids and *Aphidius ervi* for larger species of Aphids. Chrysoperla (Lacewings) are another agent that can be used.



Rycar SEPRO1056.128



(Pyrifluquinazon) MOA: UN unknown. Caution. 12 HR REI. RATE: 2.4-3.2oz /100gal. Next Generation, new class. Insects stop feeding immediately. Alternative to neonicotinoids. Gentle on pollinators. Contact, ingestion, translaminar. Greenhouse only. Vegetable label.



Altus BYR84989509



(Flupyradifurone) MOA: 4D. Caution. 4 HR REI. RATE: Foliar 7 - 10.5oz/100gal, Drench 2.8 - 3.7oz/100gal. Translaminar & Systemic, broad spectrum activity. Soft on Beneficials.



Pradia OHP986300



(Cyclaniliprole, Flonicamid) MOA: 28, 29. Caution. 12 HR REI. RATE: 10 - 17.5oz/100gal. Contact. Soft on Beneficials. Quick knockdown and lasting residual control.



Mainspring SYN58664



(Cyclaniliprole) MOA: 28. Caution. 4 HR REI. RATE: Foliar 4 - 8oz./100gal., Drench 8 - 12oz/100gal. Translaminar & Systemic. Soft on Beneficials. Broad spectrum activity & lasting residual control.



AzaGuard BSF7000-32OZ BSFTO70001



(Azadirachtin) MOA: UN unknown. 4 HR REI. OMRI RATE: 8 - 16oz/100gal. Prevents molting, anti-feedant. Insect growth regulator. Can be used on fruits & vegetables.



Enstar AQ WLMK100502416 WLMK100502900



(S-Kinoprene) MOA: 7. Caution. 4 HR REI. RATE: Preventative rate 16oz/100gal. Curative rate 32oz/100gal. Insect growth regulator, interrupts molting. Broad spectrum activity.



BotaniGuard 22WP BW1B15A02



(*Beauveria bassiana*) MOA: UN unknown. Caution. 4 HR REI. RATE: 8 - 16oz/100gal. A naturally occurring fungal spore that quickly infects the target insect. Spray must contact pest. Soft on beneficial insects, labeled for vegetables.