

Insecticide Options for Colorado Potato Beetle Control

Neonicotinoid insecticides have been the foundation of insect control in potatoes since the mid 1990's because of their ability to control the primary insect pests: Colorado potato beetle, potato leafhopper and green peach aphid. Neonicotinoids allow for flexible application methods, including seed treatment, soil application at planting or foliar application. When applied as a seed treatment or in the soil, neonicotinoids provide extended residual control.

In recent years, Colorado potato beetle populations have been trending increasingly toward neonicotinoid resistance in some regions and growers have sometimes reported fair to poor control, often manifested as a reduction in length of residual control.

Control Options

Syngenta offers a broad portfolio of potato insecticides that effectively control Colorado potato beetle, even in areas where Colorado potato beetles have exhibited resistance to neonicotinoids. The Syngenta portfolio contains both neonicotinoid-based products as well as products based on other active ingredients. The incorporation of multiple modes of action into CPB management programs will assist in providing robust control of CPB, and ultimately help preserve utility of neonicotinoids.












EFFICACY AGAINST KEY POTATO INSECT PESTS

	IRAC MOA	Colorado Potato Beetle	Potato Leafhopper	Green Peach Aphid	European Corn Borer	Potato Psyllid
CruiserMaxx Potato/Platinum	4A	✓	✓	✓		✓
Actara	4A	✓	✓	✓		
Endigo ZC	4A/3A	✓	✓	✓	✓	
Voliam Flexi	4A/28	✓	✓	✓	✓	
Besiege	3A/28	✓	✓		✓	
Agri-Mek SC	6	✓				✓
Fulfill	9B			✓		✓

POTATO INSECTICIDE POSITIONING










Systemic neonics followed by foliar applications

Foundation neonicotinoid program followed by alternate modes of action: Use CruiserMaxx® Potato seed treatment or Platinum® insecticide as a foundation treatment followed by an alternate mode of action (non-neonicotinoid) for subsequent Colorado potato beetle applications. Besiege™ insecticide and Agri-Mek® SC insecticide both provide control of first generation escapes or second generation Colorado potato beetles.

							
 	Seed treatment or soil-applied neonic at planting						
 				Non-neonic modes of action for CPB			










Foliar only – with neonics

Foliar-only program that incorporates neonicotinoids: Use Agri-Mek SC for first generation Colorado potato beetle followed by Endigo® ZC insecticide or Voliam Flexi® insecticide for broad-spectrum control of Colorado Potato Beetle and other potato pests.

						
	Non-neonic for first generation CPB					
 			Dual modes of action for broad spectrum control			

Foliar only – without neonics

Foliar-only program with no neonicotinoids: Use Agri-Mek SC for first generation Colorado potato beetle followed by an alternate mode of action, such as the non-neonicotinoid product, Besiege. Fulfill® insecticide is an excellent non-neonicotinoid choice for late season aphid control.

						
	Non-neonic for first generation CPB					
			Alternate mode of action for CPB, will control PLH			
				Non-neonic aphid specialist		

