

SYNGENTA

POTATO IPM PROGRAM



syngenta®



SYNGENTA:

YOUR PARTNER IN POTATO PRODUCTION

At Syngenta, we're committed to partnering with you throughout the season to help overcome obstacles and ultimately maximize yield potential. From seed to storage, Syngenta provides unmatched field expertise along with an array of effective products to help potato growers at every step.

The power of Syngenta's potato portfolio is made even stronger when products are used together as part of a comprehensive plan. The Syngenta Potato Integrated Pest Management program provides a fortified defense for your crop's potential, protecting potatoes from a broad range of pests, diseases and weeds, while preserving both the quality and uniformity of your crop.

TABLE OF CONTENTS

Potato Portfolio Overview	4-5
Potato IPM Program Overview	6-7
Seed Treatments	8-9
Fungicides	10-11
Insecticides	12-13
Herbicides	14-15
Post Harvest	16-17
Recommended Application Timing	18-19

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KEY POTATO PORTFOLIO PRODUCT OVERVIEW



Potato growers looking to start strong can rely on CruiserMaxx® Vibrance® Potato seed treatment. A combination of three powerful fungicides, CruiserMaxx Vibrance Potato provides excellent protection against *Rhizoctonia*, *Helminthosporium* and *Fusarium*. Additionally, CruiserMaxx Vibrance Potato protects against key insects including Colorado potato beetle, aphids, potato leafhopper and potato psyllids. This combination will help potato growers enhance germination, increase vigor and improve stand establishment, while improving size and tuber distribution to maximize quality yield potential.



When applied in-furrow, Elatus® fungicide protects potatoes from soilborne pathogens like *Rhizoctonia* while suppressing Verticillium wilt. With two active ingredients, the robust chemistry in Elatus provides improved, long-lasting residual activity for excellent preventive disease control. By protecting crop health in this vulnerable stage, Elatus can help potato crops realize improved emergence, more uniform crop stand, enhanced plant health and optimized distribution of tuber size.



A combination of oxathiapiprolin and mefenoxam, Orondis® Gold DC fungicide provides best-in-class protection against Oomycete diseases like pink rot and Pythium leak in potatoes. Through its dual modes of action, Orondis Gold DC offers growers resistance mitigation in addition to preventive, systemic and residual activity against tough soilborne diseases.

Miravis[®] Prime

Taking power, spectrum and stamina to the max, Miravis[®] Prime fungicide helps prevent key yield-robbing potato diseases with a dialed-up defense. With the most advanced chemistry in its class, a combination of ADEPIDYN[®] technology and fludioxonil, Miravis Prime provides excellent control of early blight, *Botrytis*, white mold and other diseases and helps maximize the yield potential of your potato crop.

Orondis[®] Ultra

Take Oomycete disease control to the next level with Orondis[®] Ultra fungicide. Backed by the power of two active ingredients, Orondis Ultra offers a higher level of protection against late blight in potatoes. By pairing the trusted performance of mandipropamid (FRAC group 40, the active ingredient in Revus[®] fungicide) and oxathiapiprolin (FRAC group 49), Orondis Ultra provides reliable disease control and is not cross-resistant to any other fungicide.

Zivalgo[™] PLINAZOLIN[®] technology

Zivalgo[™] insecticide — powered by PLINAZOLIN[®] technology — is an innovative Group 30 mode of action that controls tough foliar insect pests like Colorado potato beetle, potato leafhopper and more, so that crops remain clean and productive. With a formulation that delivers high efficacy, rugged durability, and impressive residual control, Zivalgo protects potato crops and preserves marketable yield potential.

Minecto[®] Pro

A broad-spectrum foliar insecticide for potatoes, Minecto[®] Pro insecticide delivers reliable control of key pests such as Colorado potato beetle, while providing suppression of aphids and flea beetle. Featuring two complementary modes of action in a convenient premix, Minecto Pro helps manage overlapping pest populations and supports integrated pest management strategies when used in rotation with other chemistries.

Archive[®]

Archive[®] fungicide provides broad-spectrum protective control of storage diseases in post-harvest potato facilities, including silver scurf and Fusarium dry rot. For long-lasting protection with only one application, use Archive to preserve the quality of your potatoes during storage.

Stadium[®]

Providing long-lasting protection with only one application, Stadium[®] fungicide preserves the quality of potatoes during storage. Stadium combines three active ingredients — fludioxonil, azoxystrobin and difenoconazole — each providing a different mode of action against the spread of silver scurf and Fusarium dry rot.

Minecto Pro is a Restricted Use Pesticide.

SYNGENTA POTATO IPM PROGRAM OVERVIEW



Seed Treatment / Pre-Plant

-  Aphids
-  Colorado Potato Beetle
-  Flea Beetles
-  Fusarium Dry Rot
-  Leafminers
-  Pink Rot
-  Potato Leafhopper
-  Potato Psyllid
-  *Rhizoctonia solani*
-  Seedborne Late Blight
-  Silver Scurf

Planting and Emergence

-  Annual Grasses
-  Aphids
-  Barnyardgrass
-  Black Dot
-  Broadleaf Weeds
-  Colorado Potato Beetle
-  Crabgrass
-  Flea Beetles
-  Pigweed (*Amaranthus* spp.)
-  Pink Rot
-  Potato Leafhopper
-  Potato Psyllid
-  Pythium Leak
-  Pythium Seedling Disease
-  *Rhizoctonia solani*
-  Silver Scurf
-  Verticillium Wilt spp.
-  Wireworm spp.

Early Development / Tuber Initiation

- | | |
|--|--|
|  Aphids |  Leaf Spots |
|  Armyworm |  Mites |
|  <i>Botrytis</i> |  Pink Rot |
|  Broadleaf Weeds |  Post-emergence <i>Rhizoctonia</i> |
|  Colorado Potato Beetle |  Potato Leafhopper |
|  Cutworms |  Potato Psyllid |
|  Early Blight |  Powdery Mildew |
|  European Corn Borer |  Pythium Leak |
|  Flea Beetles |  Thrips |
|  Late Blight |  White Mold |
|  Leafminer | |

 = Insect Pest

 = Disease

 = Weed



Tuber Bulking

- | | |
|---|--|
|  Armyworm |  Leaf Spots |
|  Black Dot |  Potato Leafhopper |
|  <i>Botrytis</i> |  Potato Psyllid |
|  Colorado Potato Beetle |  Potato Tuberworm |
|  Cutworms |  Powdery Mildew |
|  Early Blight |  Thrips |
|  European Corn Borer |  Two-Spotted Spider Mites |
|  Late Blight |  White Mold |
|  Leafminer | |

Harvest / Post-Harvest

-  Fusarium Dry Rot
-  Silver Scurf

KEY PRODUCTS

SEED TREATMENTS

Product	Key Pests	Group	REI (Hours)	PHI (Days)	Use Rate*	Max/Crop/Year
 CruiserMaxx® Vibrance® Potato	Aphids, Colorado potato beetle, Potato leafhopper, <i>Rhizoctonia solani</i> , <i>Fusarium</i> , Silver scurf	FRAC 3, 7, 12 IRAC 4A	12	N/A	0.5 fl oz/ 100 lb seed	0.125 lb thiamethoxam/A 0.1 lb sedaxane/A 0.46 lb difenoconazole/A 0.9 lb fludioxonil/A
 CruiserMaxx® Potato Extreme	Aphids, Colorado potato beetle, Potato leafhopper, psyllids and flea beetles	FRAC 3, 12 IRAC 4A	12	N/A	0.31 fl oz/ 100 lb seed	0.125 lb thiamethoxam/A 0.46 lb difenoconazole/A 0.188 lb fludioxonil/A
 CruiserMaxx® Potato	Aphids, Colorado potato beetle, Potato leafhopper	FRAC 12 IRAC 4A	12	N/A	0.19 - 0.27 fl oz/ 100 lb seed	0.125 lb thiamethoxam/A 0.9 lb fludioxonil/A
 Vibrance® Ultra Potato	<i>Rhizoctonia solani</i> , <i>Fusarium</i> , Silver scurf, pink rot spp., seedborne late blight	3, 7, 40	N/A	N/A	0.5 fl oz/ 100 lb seed	0.52 lb mandipropamid/A 0.46 lb difenoconazole/A 0.10 lb sedaxane/A
 Trebuset®	<i>Fusarium</i> dry rot, Silver scurf	7	12	N/A	0.039 - 0.062 fl oz/ 100 lb seed	N/A
 Maxim® MZ	<i>Rhizoctonia solani</i> , <i>Fusarium</i> , Silver scurf	M3, 12	24	N/A	0.5 lb/ 100 lb seed	N/A
 Maxim® PSP	<i>Rhizoctonia solani</i> , <i>Fusarium</i> , Silver scurf	12	12	N/A	0.5 lb/ 100 lb seed	N/A

*See label for specific rate range for target pest, control and suppression.





KEY PRODUCTS FUNGICIDES

SOIL-APPLIED

Product	Key Pests	Group	REI (Hours)	PHI (Days)	Use Rate*	Max/Crop/Year
 Elatus	<i>Rhizoctonia</i> , Black dot, Silver scurf, <i>Verticillium</i>	7, 11	12	Harvest at commercial maturity	0.34 - 0.5 fl oz/ 1,000 linear row ft	9.5 oz/A
 Orondis[®] Gold DC	Pink rot, <i>Pythium</i> leak, <i>Pythium</i> seedling disease	4, 49	48	14	27.8 fl oz/A	27.8 fl oz/A
 Ridomil Gold[®] SL	Pink rot, <i>Pythium</i> leak, <i>Pythium</i> seedling disease	4	48	14	0.42 fl oz/ 1,000 row ft	0.42 fl oz/ 1,000 row ft

FOLIAR-APPLIED

Product	Key Pests	Group	REI (Hours)	PHI (Days)	Use Rate*	Max/Crop/Year
 Miravis[®] Prime	Early blight, <i>Botrytis</i> , White mold	7, 12	12	14	9.2 - 11.4 fl oz/A	34.2 fl oz/A
 Orondis[®] Ultra	Late blight	40, 49	4	14	5.5 - 8.0 fl oz/A	32.0 fl oz/A
 Orondis[®] Opti	Late blight, Early blight, Black dot, <i>Botrytis</i> vine rot	M05, 49	12	7	1.7 - 2.5 pt/A	10.8 pt/A
 Amistar[®] Top	Early blight, Late blight, Leaf spots, Powdery mildew	3, 11	12	14	8.0 - 14.0 fl oz/A	55.3 fl oz/A
 Revus[®] Top	Late blight, Downy mildew, Leaf spots	3, 40	12	14	5.5 - 7.0 fl oz/A	28.0 fl oz/A
 Omega[®] 500F	White mold, Late blight	29	12	14	5.5 - 8.0 fl oz/A	56.0 fl oz/A

*See label for specific rate range for target pest, control and suppression.

KEY PRODUCTS

INSECTICIDES / MITICIDES / NEMATICIDES

Product	Key Pests	Group	REI (Hours)	PHI (Days)	Use Rate*	Max/Crop/Year
 Zivalgo™ PLINAZOLIN™ technology	Colorado potato beetle, Potato leafhopper, European corn borer, mites, thrips	30	12	14	0.7 - 2.0 fl oz/A	6.0 fl oz/A
 Minecto® Pro	Colorado potato beetle, Potato psyllid, Thrips	6, 28	12	14	5.5 - 10.0 fl oz/A	20.0 fl oz/A
 Besiege®	Armyworm, Cutworms, Colorado potato beetle	3A, 28	24	14	5.0 - 9.0 fl oz/A	27.0 fl oz/A
 Endigo®ZCX	Aphids, Potato leafhopper, Colorado potato beetle	3A, 4A	24	14	3.0 - 3.5 fl oz/A	7.0 fl oz/A
 Agri-Mek®SC	Two-spotted spider mites, Colorado potato beetle, Leafminer, Potato psyllid, Nematode suppression	6	12	14	1.75 - 3.5 fl oz/A	10.25 fl oz/A
 Platinum®75 SG	Aphids, Flea beetles, Colorado potato beetle	4A	12	N/A	1.66 - 2.67 oz/A	2.67 oz/A

*See label for specific rate range for target pest, control and suppression.

Agri-Mek SC, Endigo ZCX, Besiege, and Minecto Pro are Restricted Use Pesticides.





KEY PRODUCTS HERBICIDES

Product	Key Pests	Group	REI (Hours)	PHI (Days)	Use Rate*	Max/Crop/ Year
 Boundary®6.5 EC	Pigweed (<i>Amaranthus</i> spp.), Lambsquarters, Annual grasses	5, 15	12	60	Preemergence: 1.5 - 2.9 pt/A Postemergence: 1.5 - 2.2 pt/A	4.95 pt/A
 DualMagnum®	Barnyardgrass, Crabgrass, Yellow nutsedge	15	24	40 days after a lay-by application 60 days after at-planting to drag-off application	Incorporated: 1.0 - 2.0 pt/A Preemergence: 1.0 - 2.0 pt/A Postemergence: 1.67 pt/A	3.6 pt/A
 Reglone® Desiccant	Potato vines (desiccation), Broadleaf weeds, Annual grasses	22	24	7	1.0 - 2.0 pt/A	4.0 pt/A

*See label for specific rate range for target pest, control and suppression.

KEY PRODUCTS

POST-HARVEST FUNGICIDES

Product	Key Pests	Group	REI (Hours)	PHI (Days)	Use Rate*	Max/Crop/Year
 Archive®	Fusarium dry rot, Silver scurf	11, 12	N/A	N/A	0.6 fl oz/ 2,000 lb of tubers	0.6 fl oz/ 2,000 lb of tubers
 Stadium®	Fusarium dry rot, Silver scurf	3, 11, 12	N/A	N/A	1.0 fl oz/ 2,000 lb of tubers	1.0 fl oz/ 2,000 lb of tubers

*See label for specific rate range for target pest, control and suppression.



RECOMMENDED APPLICATION TIMING

MIDWEST

	Product	Seed Treatment/ Pre-Plant	Planting and Emergence	Early Development/ Tuber Initiation	Tuber Bulking	Harvest/ Post-Harvest
SEED TREATMENTS	 CruiserMaxx® Vibrance® Potato					
	 CruiserMaxx® Potato Extreme					
	 CruiserMaxx® Potato					
	 Trebuset®					
	 Vibrance® Ultra Potato					
SOIL-APPLIED FUNGICIDES	 Elatus®					
	 Orondis® Gold DC					
	 RidomilGold® SL					
FOLIAR-APPLIED FUNGICIDES	 Miravis® Prime					
	 Orondis® Opti					
	 Orondis® Ultra					
	 RevusTop®					
	 Omega®500F					
	 RidomilGold® Bravo					

	Product	Seed Treatment/ Pre-Plant	Planting and Emergence	Early Development/ Tuber Initiation	Tuber Bulking	Harvest/ Post-Harvest
INSECTICIDES	 Zivalgo™ PLINAZOLIN technology					
	 Minecto® Pro					
	 Besiege®					
	 Endigo® ZCX					
	 Agri-Mek® SC					
	 Platinum® 75 SG					
HERBICIDES	 Boundary® 6.5 EC					
	 Dual Magnum®					
	 Reflex®					
	 Reglone® Desiccant					
POST-HARVEST FUNGICIDES	 Archive®					
	 Stadium®					

Additional product details are available at www.syngenta-us.com/crop-protection/all-products

Agri-Mek SC, Endigo ZCX, Besiege, and Minecto Pro are Restricted Use Pesticides.



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Some seed treatment offers are separately registered products applied to the seed as a combined slurry. Always read individual product labels and treater instructions before combining and applying component products.

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