

# Pome Fruit Portfolio: Application Calendar

PESTS	PRODUCT	DORMANT	GREEN TIP	HALF-INCH GREEN	TIGHT CLUSTER	PINK	FULL BLOOM	PETAL FALL/ FRUIT SET	COVER SPRAYS	PRE HARVEST	POST HARVEST
Mites, European red, rust, Two spotted spider mites	<b>Sil-MATRIX</b> <small>INSECTICIDE MITICIDE - INSECTICIDE</small>										
	<b>PFR-97</b> <small>MICROBIAL INSECTICIDE</small>										
	<b>Trilogy</b> <small>INSECTICIDE MITICIDE OR INSECTICIDE</small>										
Codling moth, Oriental fruit moth	<b>CYD-X<sup>HP</sup></b> <small>MICROBIAL INSECTICIDE</small>										
	<b>Madex<sup>HP</sup></b> <small>INSECTICIDE MITICIDE</small>										
Aphids, Leafhoppers, Leafrollers, Psyllids, Scale	<b>PFR-97</b> <small>MICROBIAL INSECTICIDE</small>										
	<b>Neemix<sup>4,5 EC</sup></b> <small>INSECT GROWTH REGULATORS</small>										
	<b>Sil-MATRIX</b> <small>INSECTICIDE MITICIDE - INSECTICIDE</small>										
	<b>Deliver</b> <small>BIOLOGICAL INSECTICIDE</small>										
Nematodes	<b>MeloCon<sup>WG</sup></b> <small>BIOLOGICAL NEMATOCIDES</small>										
Apple scab, Powdery mildew	<b>Kocide<sup>3000</sup></b> <small>FUNGICIDE</small>										
	<b>OSO<sup>5% SC</sup></b> <small>FUNGICIDE</small>										
	<b>Double Nickel<sup>55</sup></b> <small>BIO FUNGICIDE</small>										
Sooty lotch, Flyspeck, Summer diseases	<b>Cu<sup>eva</sup></b> <small>COPPER</small>										
	<b>LIFE GARD<sup>WG</sup></b> <small>BIOLOGICAL PLANT ACTIVATOR</small>										
	<b>OSO<sup>5% SC</sup></b> <small>FUNGICIDE</small>										
Fruit rots	<b>Cu<sup>eva</sup></b> <small>COPPER</small>										
	<b>OSO<sup>5% SC</sup></b> <small>FUNGICIDE</small>										
	<b>LIFE GARD<sup>WG</sup></b> <small>BIOLOGICAL PLANT ACTIVATOR</small>										
	<b>Double Nickel<sup>55</sup></b> <small>BIO FUNGICIDE</small>										
Fire blight	<b>Double Nickel<sup>55</sup></b> <small>BIO FUNGICIDE</small>										
	<b>LIFE GARD<sup>WG</sup></b> <small>BIOLOGICAL PLANT ACTIVATOR</small>										
	<b>Cu<sup>eva</sup></b> <small>COPPER</small>										
Soil borne diseases	<b>Kocide<sup>3000</sup></b> <small>FUNGICIDE</small>										
	<b>AgriPhage-Fireblight</b> <small>BACTERICIDE</small>										
Soil borne diseases	<b>Double Nickel<sup>55</sup></b> <small>BIO FUNGICIDE</small>										
Weed management	<b>HOMEPLATE</b> <small>NON-SELECTIVE HERBICIDE</small>										

■ INSECTICIDES/MITICIDES/NEMATOCIDES
 ■ FUNGICIDES
 ■ HERBICIDES

# Pome Fruit Portfolio: Product Guide

PRODUCT	ACTIVE INGREDIENT	DESCRIPTION	KEY PEST/DISEASES CONTROLLED	REI	PHI	NOP COMPLIANT	OMRI	SUGGESTED RATE
AgriPhage-Fireblight	Bacteriophage	A bacteriophage (virus) that attacks <i>Erwinia amylovora</i> on apples and pears. This product can be used in organic orchards under the USDA National Organic Program but can also be used to enhance the performance of conventional tactics in orchards as a preventative or curative measure.	Fire blight	4	0	✓	✓	1-2 qts/acre
Double Nickel 55	<i>Bacillus amyloliquefaciens</i> strain D747 (BaD747)	A broad spectrum fungicide boasting five modes of action to foliar and soil borne bacterial and fungal diseases.	Fire blight, powdery mildew, summer diseases, scab	4	0	✓	✓	1-2 qts/acre 5-11lbs/acre
LIFE GARD <sup>®</sup> WG	<i>Bacillus mycooides</i> isolate J	The first in a new class of biological disease control solutions that switches on the plant's built-in immune defenses by eliciting an IR response to help fight against bacterial, viral and fungal diseases.	Fire blight, powdery mildew, summer diseases	4	0	✓	✓	4.5oz/100 gal
Cueva	Copper octanoate	A "copper soap" that provides the efficacy of coppers with a reduced risk of russet and phytotoxicity.	Fire blight, scab, summer diseases	4	0	✓	✓	.5-1gal/acre
Kocide <sup>®</sup> 3000	Copper Hydroxide	A trusted, proven and reliable copper hydroxide containing bioactive technology for better control of diseases at lower rates.	Fire blight, scab	48	0	✓	✓	.5-1.75lbs/acre (scab/pm) 4lb (fb)
OSO <sup>™</sup> 5% SC	Polyoxin D zinc salt	The only active ingredient in the FRAC group 19, making it an ideal rotational product for resistance management for summer disease in apples.	Powdery mildew, fruit rots, sooty blotch, flyspeck	4	0	✓	✓	6.5-13oz/acre
Sil-MATRIX <sup>®</sup>	Potassium Silicate	A novel active ingredient—soluble silica—for crop protection. Sil-MATRIX also forms a physical barrier within the leaf cuticle that prevents penetration of fungal diseases, primarily powdery mildew. It also acts as a contact desiccant against mites and interferes with feeding of mites and insects.	Powdery mildew, mites, aphids, San Jose scale	4	0	✓	✓	1% v/v
Neemix <sup>®</sup> 4.5 EC	Azadirachtin	An insect growth regulator containing the most potent azadirachtin formulation on the market. It controls immature nymphs insects by interfering with the molting process.	Leafminers, whiteflies, aphids	4	0	✓	✓	4-16fl oz/acre
MeloCon <sup>®</sup> WG	<i>Paecilomyces lilacinus</i>	A biological nematicide that contains a naturally occurring fungus, <i>Paecilomyces lilacinus</i> , that is a highly effective parasite of all stages of development of common plant-infecting nematodes, especially the eggs and cysts.	Plant parasitic nematodes	4	0	✓	✓	2-4lb/acre
CYD-X <sup>®</sup> HP	<i>Cydia pomonella granulovirus</i>	Naturally occurring virus that infects and kills larvae of the codling moth ( <i>Cydia pomonella</i> ). Must be ingested by the larvae to be effective.	Codling moth larvae	4	0	✓	✓	1.5oz/acre
Deliver <sup>®</sup>	<i>Bt kurstaki</i> strain SA-12	Biological insecticide specific for control of leafrollers and other lepidopteran larvae (caterpillars). Deliver must be eaten by the larvae to be effective.	Lepidopteran (caterpillar) pests (leafrollers)	4	0	✓	✓	.5-2lb/acre
Madex <sup>®</sup> HP	<i>Cydia pomonella granulovirus</i> V-22	A naturally occurring virus to control the larvae of both codling moth and Oriental fruit moth. Must be ingested by the larvae to be effective.	Codling moth, ornamental fruit moth larvae	4	0	✓	✓	1.5oz/acre
PFR-97 <sup>™</sup>	<i>Isaria fumosorosea</i> <i>Apopka</i> strain 97	Contains a naturally occurring fungus that controls soft bodied insects and spider-mites.	Spidermites, aphids	4	0	✓	✓	1lb/acre
Trilogy <sup>®</sup>	Clarified hydrophobic extract of neem oil	Prevents fungal attack of plant tissue and contact activity to mite pressure on the plant.	Aphids, spidermites, powdery mildew, rust, black spot	4	0	✓	✓	1% v/v
HOMEPLATE <sup>®</sup>	Caprylic and capric acids	An OMRI Listed <sup>®</sup> non-selective herbicide that offers control of grasses, broadleaves, and suckers.	Annual and perennial weeds	24	0	✓	✓	3-9% v/v