

## Control options for mites in fruit crops

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Mites can be significant pests of fruit crops. There is an array of miticides available for control of the European red mite (ERM), two-spotted spider mite (TSSM) and rust mites (RM)(apple and pear rust mites, pear blister mite, plum nursery mite, blueberry bud mite), but their performance characteristics are not all alike. The following table is designed to summarize several key variables that can help you determine which miticides are optimal for your Integrated Pest Management program.

<u>Compound</u>	<u>Fruit crop</u>	<u>Mites</u>	<u>Life stage target</u>	<u>Seasonal timing</u>	<u>Residual activity</u>
Lime-Sulfur	pome, stone	RM <sup>3</sup>	motiles*	Early (delayed-dormant)	4-6 weeks
Superior, Stylet Oils	all above	ERM, RM	egg/larvae	Early (pre-bloom)	4-6 weeks
Savey	pome, stone pome, stone, caneberry, strawberry	ERM	egg/larvae	Early***	8-12 weeks
		TSSM	egg/larvae	Mid (or threshold)**	6-8 weeks
Apollo	pome, cherry, peach	ERM	egg/larvae	Early***	8-12 weeks
		TSSM	egg/larvae	Mid (or threshold)	6-8 weeks
Zeal	pome pome, strawb, grape	ERM	egg/larvae	Early***	8-12 weeks
		TSSM	egg/larvae	Mid (or threshold)**	6-8 weeks
Agri-Mek	pome, plum, grape, strawb.	ERM, RM	motiles*	Early****	8-12 weeks
		TSSM	motiles*	Mid (or threshold)	6-8 weeks
Envidor	pome, plum, grape	ERM, RM	egg, motiles*	Early**** or thres.	8-12 weeks
		TSSM	egg, motiles*	Mid (or threshold)	6-8 weeks
Nexter	pome, stone <sup>1</sup> , grape	ERM, RM	motiles*	Mid (or threshold)**	6-8 weeks
		TSSM	motiles*	Mid (or threshold)	6-8 weeks
Portal	pome	ERM, RM	motiles*	Mid (or threshold)**	6-8 weeks
		TSSM	motiles*	Mid (or threshold)	6-8 weeks
Kanemite	pome pome, strawberry	ERM	motiles*	Mid (or threshold)**	6-8 weeks
		TSSM	motiles*	Mid (or threshold)	6-8 weeks
Acramite	pome, peach, plum pome, peach, plum, grape, strawberry	ERM	motiles*	Mid (or threshold)**	6-8 weeks
		TSSM	motiles*	Mid (or threshold)	6-8 weeks
Danitol	apple, grape apple, grape, strawberry	ERM	motiles*	Mid (or threshold)**	4-6 weeks
		TSSM	motiles*	Mid (or threshold)	4-6 weeks
Brigade	pear pear, grape, caneberry	ERM	motiles*	Mid (or threshold)**	4-6 weeks
		TSSM	motiles*	Mid (or threshold)	4-6 weeks
Oberon	strawberry	TSSM	egg, motiles*	Mid (or threshold)	4-6 weeks
Vendex	pome, stone pome, stone, grape, cane-, strawberry	ERM	motiles*	Mid (or threshold)**	4-6 weeks
		TSSM	motiles*	Mid (or threshold)	4-6 weeks
Endosulfan	pome, stone, blueberry <sup>2</sup>	RM <sup>3</sup>	motiles*	Mid (or threshold)**	4-6 weeks
Sulforix	pear, blueberry	RM <sup>3</sup>	motiles*	Late (post-harvest)	4-6 weeks

\* Motile forms include mite larvae, nymph and adult stages.

\*\* Optimally used petal fall through fifth cover when mites reach threshold.

\*\*\* Optimally used pre-bloom through first cover.

\*\*\*\* Optimally used petal fall through second cover.

<sup>1</sup> 300 day phi for cherry

<sup>2</sup> post-harvest only for blueberry

<sup>3</sup> including pear blister mite