

Table 15 – Activity Spectrum of Apple Insecticides*

	Apple aphid	Apple maggot	Codling moth	European apple sawfly	Leaf-hopper ¹	Leaf-miner moth ²	Plum curculio	Oblique-banded leaf-roller ³	Red-banded leaf-roller	Rosy apple aphid	Tarnished plant bug	European red mite	Two-spotted spider mite
Acramite	?	?	?	?	?	?	?	?	?	?	?	+++	+++
Agri-Mek	?	?	?	?	+++	+++	?	?	?	?	?	+++	+++ ⁴
Ambush, Pounce	++	--	--	+++	--	+++	--	+++	++	+++	+++	--	--
Apollo	?	?	?	?	?	?	?	?	?	?	?	+++	++
Asana	++	+++	+++	+++	+++	+++	+++	+++	++	+++	+++	?	?
Avaunt	+	++	++	+++	+++	+++	+++	+++	++	?	+++	?	?
Bt (various products)	0	0	++	0	0	0	0	++	+++	0	0	?	?
Carzol	0	--	--	--	+++	+++	--	?	0	0	?	++	--
Diazinon 50 WP	+	+++	+++	+++	?	++	++	++	0	++	?	?	?
Confirm	?	?	++	?	++	?	?	+++	+++	?	?	?	?
Digon 4EC	++	+++	+++	+	+++	+	++	+	0	++	+++	?	?
Esteem	0	0	++	?	0	++	0	0	+++	0	?	?	?
Guthion	+	+++	+++	+++	+	+	+++	++	+++	+	+	?	?
Imidan 70 WP	+	+++	+++	+++	+	+	+++	++	+++	+	+	?	?
Intrepid	?	?	+++	?	+++	?	?	+++	+++	?	?	?	?
Kelthane	?	?	?	?	?	?	?	?	?	?	?	++	++
Lannate 90 SP	++	++	+++	++	+++	+++	++	+++	+++	+	+	?	?
Lorsban 50 WP	++	--	--	--	+	+	--	--	--	+++	+	+	?
M-Pede	+	?	+	?	++	+	+	+	+	+	?	++	++
oil - dormant	++	?	?	?	?	?	?	?	?	++	?	+++	--
oil - summer	?	?	?	?	?	?	?	?	?	?	?	+++	++
Provado	+++	?	?	?	+++	?	?	?	?	+	?	?	?
Pyramite	++	?	?	?	?	?	?	?	?	?	?	+++	+++ ⁴
Savey	?	?	?	?	?	?	?	?	?	?	?	+++	--
Sevin	+	+++	+++	++	+++	+	++	++	+	+	+	?	?
SpinTor	?	+++ ⁵	+	?	?	+++ ⁵	?	+++	?	?	?	?	?
Thiodan 50 WP	+++	0	0	?	+++	+	0	+	++	+++	+	?	?
Vendex	?	?	?	?	?	?	?	?	?	?	?	++	++
Vydate	++	+	0	?	++	+++	0	?	?	++	+	++	++

0 = not effective, + = poor, ++ = fair, +++ = good, ? = Not rated for this pest or insufficient information (In general, suggests no activity) — = Not registered for use at appropriate time for this pest.

1. Leafhopper ratings are for white apple, rose, and potato leafhoppers.
 2. Leafminer ratings are for adult, egg and/or just-hatched larvae of spotted tentiform and apple blotch leafminers. Only Agri-Mek, Provado, Lannate, SpinTor and Vydate are effective against leafminers in the sap-feeding stage. No material is effective against leafminers in the tissue-feeding stage.
 3. Obliquebanded leafroller ratings assume that population is not resistant to organophosphates.
 4. Rating against twospotted spider mite assumes maximum label dose.
 5. SpinTor ratings assume combination with a penetrant. SpinTor label does not list apple maggot as a target pest, but in a research trial the label dose for leafminer applied at one week interval prevented apple maggot damage as well as alternative materials, but was less effective when applied at two week interval..
- * **Adapted from:** 2003 *Pest Management Guidelines for Commercial Tree-Fruit Production*, by A.M. Agnello, A.J. Landers, W.W. Turechek, D.A. Rosenberger, T.L. Robinson, J.R. Schupp, J. Carroll, L. Cheng, P.D. Curtis, D.I. Breth and S.A. Hoying. Cornell Cooperative Extension; and 2002-2003 *Tree Fruit Production Guide*, E. Martz, editor. Pennsylvania State University.