

## STRAWBERRY INSECT CONTROL SPRAY GUIDE

Insect	Insecticide and Formulation	Rate/50 gals	Cutoff Date	Restrictions or Limitations	
<b>Aphids</b>	Malathion 5 lbs EC	1.0-1½ pts	3 days	Toxic to fish and highly toxic to bees. Observe label. Do not use when cyclamen mites are a problem.	
	<b>or</b>	Malathion 25% WP	3 lbs		3 days
	<b>or</b>	Provado 1.6F	3¾ fl. ozs/acre	7 days	Allow 5 days between applications. Toxic to bees; do not apply during bloom. Use spreader sticker to improve coverage. Apply before heavy infestations get established.
	Thiodan 2 lbs EC	1-2 pts	4 days		
	<b>or</b>	Thiodan 50% WP	0.5-1.0 lb (or 2 lbs/acre)	4 days	Do not re-apply within 15 days or more than twice within a 35-day period when fruit is present. Limit to 3 applications/year. Use with care; this product is very toxic.
<b>Strawberry weevils</b>	Carbaryl 80% S	1¼-2½ lbs/acre	7 days	A dilute spray of 100-200 gals/acre is suggested. Read label for susceptibility of some varieties; highly toxic to bees. Repeated use may cause spider mite problems.	
<b>Strawberry leaf rollers</b>	Malathion 5 lbs EC	1.0-1½ pts	3 days	See preceding remarks on Malathion. Observe label.	
	<b>or</b>	Malathion 25% WP	3 lbs		3 days
	<b>or</b>	Carbaryl 80% S	1¼ lbs	7 days	See preceding remarks on Carbaryl. Observe label.
	<b>or</b>	SpinTor 2SC	4-6 fl ozs/acre	1 day	
<b>Armyworms</b>	SpinTor 2SC	4-6 fl ozs/acre	1 day	See preceding remarks on SpinTor.	
	<b>or</b>	Carbaryl 4L	1-2 qts/acre		7 days
<b>Flea beetles</b>	Thiodan 2 lbs EC	2 pts	4 days	See preceding remarks on Thiodan.	
	<b>or</b>	Thiodan 50% WP	1.0 lb (2 lb/acre)		4 days

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<b>Lygus bugs and leafhoppers</b>	Malathion 5 lbs EC	1.0-1½ pts	3 days	See preceding remarks on Malathion.
	<b>or</b> Malathion 25% WP	3 lbs	3 days	See preceding remarks on Malathion.
<b>Lygus and tarnished plant bugs</b>	Danitol 2.4 EC	10⅔ fl. ozs/acre	2 days	Allow 30 days between treatments. Use only when mite populations are low. Add spreader sticker. Limit to 2 applications/year.
	<b>or</b> Brigade WSB	24 ozs/acre (3 soluble bags)	0 days	Highly toxic to bees and extremely toxic to fish and aquatic invertebrates. May not be used if endangered species could get in contact with treatment. Read label. Consult local agents.
<b>Snails and Slugs</b>	Metaldehyde bait		Per label.	Apply to soil around plants. Do not contaminate edible parts.
<b>Two-spotted mites</b>	Agri-Mek 0.15 EC	16 fl ozs/acre	3 days	<b>See footnotes for important mite-resistance management plans.</b> A more effective mite control program is accomplished if treatments are conducted when mites first appear before populations build up. Do not apply more than 64 fl. ozs/acre. Do not apply within 3 days of harvest. Allow 21 days between treatments.
	<b>or</b> Zeal	2-3 oz/acre	1 day	Apply when populations are low. Works better against eggs and larvae (immature mites). Limit to 1 application/season.
	<b>or</b> Acramite 50WS	0.75-1.0 lb/acre	1 day	Each bag contains 2 water soluble bags of ½ lb each. Limit to 2 applications/season and a minimum of 21 days between applications.
	<b>or</b> Vendex 50WP	6-8 ozs (1½-2 lbs/acre)	1 day	Do not apply more than 2 times/season. Efficacy of Vendex is reduced when daily temperatures are below 70°F. Toxic to birds, mammals, and fish.
	<b>or</b> Omite 30WP	6 lbs/acre	See remarks next	Transplant and non-bearing use only; some leaf damage may occur when mixed with adjuvants or when temperatures exceed 75°F.
	<b>or</b> Kelthane 50WP	1-2 lbs/acre	3 days	Limit to 2 applications/season; toxic to fish.

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<b>Two-spotted mites (cont'd)</b>	<b>or</b> Savey 50DF	6.0 oz/acre	3 days	Limit to 1 application/year. Apply as soon as mites are detected. Savey is predominantly an ovicide/larvicide and will not control adult mites.
	<b>or</b> Danitol 2.4EC	16-21½ fl. ozs/acre	2 days	See preceding remarks on Danitol. Observe label.
	Insecticidal soap (M-Pede)	1 gal	0 days	Thorough coverage needed.
<b>Spittle bugs</b>	Malathion 5 lbs EC	1.0-1.5 pts	3 days	See preceding remarks on Malathion.
	<b>or</b> Malathion 25% WP	2-4 lbs	3 days	See preceding remarks on Malathion.
	<b>or</b> Thiodan 2 lbs EC	1-2 pts	4 days	See preceding remarks on Thiodan.
	<b>or</b> Thiodan 50% WP	0.5-1.0 lb (or 2 lbs/acre)	4 days	See preceding remarks on Thiodan.
	<b>or</b> Danitol 2.4EC	10⅔ fl. ozs/acre	2 days	See preceding remarks on Danitol.
	<b>or</b> Carbaryl 80% S	1¼ lbs	7 days	See preceding remarks on Carbaryl.
<b>Crickets and mole crickets</b>	Malathion 5 lbs EC	Bait		Mix as a bait and apply to row middles. Mix 50 lbs. laying mash + 2 qts. 50% Malathion + 3 pts. crude cottonseed oil + 6 lbs. table sugar. Use at a rate of 3 lbs/acre. Apply in late afternoon when mole crickets are active.
	<b>or</b> Carbaryl 80WP	2½ lbs/acre	1 day	See preceding remarks on Carbaryl.
	<b>or</b> Danitol 2.4EC	10⅔ fl. ozs/acre	2 days	See preceding remarks on Danitol.
<b>Fire ants</b>	Extinguish IGR	1.0-1.5 lbs/acre		Apply to row middles in April when ants are actively foraging and in October prior to cool weather. Do not allow contact with fruit. Do not use when soil is too wet.

**Mite-Resistance Management Plan:** Repeated use of the same miticide is documented to result in rapid build up of miticide-resistant strains of mites. To reduce the potential risk of developing resistant mite populations, miticides should be alternated as part of a mite-resistance management plan. If more than one application is needed to control heavy and prolonged mite infestations, always alternate to products with different mode of action. Observe the minimum required spray intervals and restrictions on amount of product and numbers of applications/area/season. Closely monitor mite populations to determine species, infestation levels, and presence of predatory organisms. Use miticide sprays only when needed.

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**Note:** Add a spreader sticker or liquid soap to spray mixture to obtain better coverage. Follow the manufacturer's recommendations.

**Warning:** Always wear appropriate Personal Protective Equipment when handling and spraying pesticides.

**Warning:** Re-entry times for workers entering treated fields should be strictly observed. Be sure to check the label for this information.

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