

Table 1: Insecticides registered for use on sweet cherry in Oregon and considerations for their use against the spotted wing drosophila.

Product and formulation	Common name	Restricted (RUP) or general use (GUP) pesticide	Resistance management group	REI	PHI	Maximum amount/acre/year	Maximum applications/year	Bee hazard ¹	Buffer required ²	Surface water hazard ³	IPM rating for WPDM ⁴	Predicted efficacy from lab studies ⁵	Potential for controlling SWD ⁶	Remarks
Preferred Insecticides														
Assail 30SG	acetamiprid	GUP	4A	12 h	7 d	32 oz	4	x	-	-	-	0	G	Repeated applications may flair mites.
Assail 70WP	acetamiprid	GUP	4A	12 h	7 d	13.6 oz	4	x	-	-	-	0	G	Repeated applications may flair mites.
Delegate 25WG	spinetoram	GUP	5	4 h	7 d	28 oz	4	x	-	x	L	+	E	Also controls OBLR and thrips; time application for these pests. Repeated applications may flair mites; limit to one application per season.
Entrust 80WP	spinosad	GUP	5	4 h	7 d	9 oz	-	x	-	x	L	+	G	Also controls OBLR and thrips; time application for these pests. Repeated applications may flair mites.
Malathion 5EC, 8EC	malathion	GUP	1B	12 h	3 d	-	-	x	x	x	L	+	E	Malathion EC may be phytotoxic to certain sweet cherry cultivars. Repeated applications may flair mites and leafminers. May have cross resistance with other OPs and carbaryl.
Provado 1.6F	imidacloprid	GUP	4A	12 h	7 d	40 oz	-	x	x	x	L-M	-	G	Also controls black cherry aphid. Repeated applications may flair mites; limit to one application per season.
Sevin 4F	carbaryl	GUP	1A	12 h	3 d	15 qt	3	x	x	x	M-H	+	G	Repeated applications may flair mites and leafminers; consider using early or late season. May have cross resistance with OPs.
Success 2L	spinosad	GUP	5	4 h	7 d	29 oz	-	x	-	x	L	-	G	Also controls OBLR and thrips; time application for these pests. Repeated applications may flair mites; limit to one application per season.
Insecticides Considered as Emergency Use Only														
Asana XL 0.66EC	esfenvalerate	RUP	3	12 h	14 d	72 oz	-	x	x	x	H	-	E	High potential to flair mites and leafminers.
Baythroid XL 1EC	beta-cyfluthrin	RUP	3	12 hr	7 d	5.6 oz	-	x	x	x	H	+	E	High potential to flair mites and leafminers.
Diazinon 50WP	diazinon	RUP	1B	4 d	21 d	4 lb	2	x	x	x	L	+	E	High potential to flair mites and leafminers.
Dimethoate 4E	dimethoate	GUP	1B	10 or 14 d	21 d	2.75 pt	-	x	x	x	L-M	-	E	For postharvest cleanup application only.
Guthion Solupak 50WP	azinphos-methyl	RUP	1B	15 d	15 d	1.5 lb	-	x	x	x	M	-	E	High potential to flair mites and leafminers.
Pounce 25WP	permethrin	RUP	3	12 hr	3 d	2.4 lb	4 total; 3 after petalfall	x	x	x	H	+	E	High potential to flair mites and leafminers.
Proaxis 0.5EC	gamma-cyhalothrin	RUP	3	1 d	14 d	1.6 pt	-	x	x	x	H	-	E	High potential to flair mites and leafminers.
Warrior II 2.08EC	lambda-cyhalothrin	RUP	3	1 d	14 d	12.8 oz	-	x	x	x	H	-	E	High potential to flair mites and leafminers.

All pesticides must be used as directed on the label.

¹Bee hazard indicated on pesticide label. See specific label for precautions.

²Buffer required between application site and surface water. See specific label and <http://egov.oregon.gov/ODA/PEST/buffers.shtml> for requirements.

³Surface water hazard indicated on pesticide label. See specific label for precautions.

⁴Generalized impact on western predatory mite (*Typhlodromus occidentalis*) IPM programs (L = low impact, M = moderate impact, H = high impact, - = no data available).

⁵Based upon results from recent laboratory studies from Denny Bruck, Jana Lee and Hanna Goodwin, USDA-ARS Horticultural Crops Research Laboratory, Corvallis, OR (+ = potentially effective, 0 = limited or no potential for controlling SWD, - = no data).

⁶This information is preliminary and based upon information from several sources including our familiarity of the material and crop -and- disregarding potential negative impacts on IPM programs (E-excellent, G-good, M-moderate, F-fair, P-poor, U-uncertain).

Future research may result in changes to this information.

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