

## Insecticide options for control of spotted-wing drosophila on Ohio's commercial fruit crops

For resistance management, rotate among different mode-of-action groups, each with a different color in chart below:

- spinosyns (yellow)
- diamides (light gray)
- pyrethroids (pink)
- organophosphates (blue)
- carbamates (green)

Efficacy on SWD	Mode of action group	Product	Residual activity (days)	Pre-harvest interval (PHI) in days, and maximum number of applications ('aps') allowed, assuming maximum rate used						
				raspberry, blackberry	blueberry	strawberry	grape	cherry	peach	plum
Very effective	5	§ Delegate	5-7	1 day (3 aps)	1 day (3 aps high) 3 days (6 aps low)	X	7 days (4 aps)	7 days (4 aps)	1 day (4 aps)	1 day (4 aps)
	5	§ Radiant	5-7	X	X	1 day (3 aps)	X	X	X	X
	28	§ Exirel	5	1 day (3 aps)	3 days (3 aps)	1 day (3 aps)	X	3 days (3 aps)	3 days (3 aps)	3 days (3 aps)
	28	§ Verdepryn	5-7	1 day (3 aps)	1 day (3 aps)	1 day (3 aps)	7 days (3 aps)	7 days (3 aps)	7 days (3 aps)	7 days (3 aps)
	3A	! Mustang Maxx	7-10	1 day (6 aps)	1 day (6 aps)	X	1 day (6 aps)	14 days (6 aps)	14 days (6 aps)	14 days (6 aps)
	3A	! Hero [2(ee)]	7-10	3 days (2 aps)	1 day (4 aps)	X	30 days (1 ap)	X	X	X
	3A	! Danitol	7-10	3 days (2 aps)	3 days (2 aps)	3 days (2 aps)	21 days (2 aps)	3 days (2 aps)	3 days (2 aps)	3 days (2 aps)
	3A	! Baythroid [2(ee)]	7-10	X	X	X	3 days (4 aps)	7 days (2 aps)	7 days (2 aps)	7 days (2 aps)
	3A	! Pounce 25WP [2(ee)]	7-10	X	X	X	X	3 days (3 aps)	X	X
	3A	! Asana [2(ee)]	7-10	X	X	X	X	14 days (4 aps)	14 days (4 aps)	14 days (4 aps)
	1B	Imidan	7	X	3 days (5 aps)	X	7/14 days (3 aps)	7 days (3 aps)	14 days (4 aps)	7 days (3 aps)
	1A	! Lannate	3-6	X	3 days (4 aps)	X	X	X	X	X
Effective	1B	Malathion [2(ee)]	5-7	X	X	X	X	3 days (4 aps)	X	X
	5	Entrust [OMRI] [2(ee)]	3-5	1 day (6 aps)	1 day (6 aps)	1 day (3 aps)	7 days (5 aps)	7 days (3 aps)	1 day (3 aps)	1 day (3 aps)
Moderately effective	-	Grandevo [OMRI]	3-7?	0 days	0 days	0 days	0 days	0 days	0 days	0 days
	-	Venerate [OMRI]	3-7?	0 days	0 days	0 days	X	0 days	0 days	0 days
Slightly effective	3A	Pyganic [OMRI]	1-3	0 days	0 days	0 days	0 days	0 days	0 days	0 days

X means that the product is NOT ALLOWED for use on that crop.

! Restricted-Use Pesticide.

§ Not allowed in greenhouses or high tunnels.

OMRI means allowed for use in organic production.

2(ee) means SWD not listed as target pest on the federal label but is listed on a 2(ee) recommendation label.