

## 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)
- neonicotinoids (dark gray)

Efficacy on SWD	Mode of action group	Product	Residual activity (days)	Pre-harvest interval (PHI) in days, and maximum number of applications ('aps') allowed						
				raspberry, blackberry	blueberry	strawberry	grape	cherry	peach	plum
Very effective	5	§ Delegate	5-7	1 day (6 aps)	3 days (6 aps)	X	7 days (5 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	X	3 days (3 aps)	1 day (3 aps)	X	3 days (3 aps)	3 days (3 aps)	3 days (3 aps)
	3A	! Mustang Max	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	! Brigade	7-10	3 days (2 aps)	1 day (5 aps)	0 days (2 aps)	30 days (1 aps)	X	X	X
	3A	! Hero	7-10	3 days (2 aps)	1 day (4 aps)	X	30 days (1 aps)	X	X	X
	3A	! Danitol	7-10	3 days (2 aps)	3 days (2 aps)	2 days (2 aps)	21 days (2 aps)	3 days (2 aps)	3 days (2 aps)	3 days (2 aps)
	3A	! Asana	7-10	7 days (3 aps)	14 days (4 aps)	X	X	14 days (4 aps)	14 days (4 aps)	14 days (4 aps)
	3A	! Baythroid	7-10	X	X	X	3 days (4 aps)	7 days (2 aps)	7 days (2 aps)	7 days (2 aps)
	3A	! Warrior	7-10	X	X	X	X	14 days (4 aps)	14 days (4 aps)	14 days (4 aps)
	3A	! Pounce	7-10	X	X	X	X	3 days (3 aps)	14 days (3 aps)	X
	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)
	1B	!§ Diazinon	7	7 days (2 aps)	5 days (2 aps)	5 days (1 aps)	X	21 days (1 aps)	21 days (1 aps)	21 days (1 aps)
1A	! Lannate	3-6	X	3 days (4 aps)	X	X	X	4 days (6 aps)	X	
Effective	1B	Malathion	5-7	1 day (3 aps)	1 day (3 aps)	3 days (4 aps)	3 days (2 aps)	3 days (4 aps)	7 days (3 aps)	X
	5	Entrust [OMRI]	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	1A	Sevin	10	7 days	7 days	7 days	7 days	3 days	3 days	3 days
	4A	§ Assail	1-3	1 day	1 day	1 day	3 days	7 days	7 days	7 days
	-	Grandevo [OMRI]	1-3?	0 days	0 days	0 days	0 days	0 days	0 days	0 days
	-	Venerate [OMRI]	1-3?	0 days	0 days	0 days	0 days	0 days	0 days	0 days
Slightly eff.	3A	Pyganic [OMRI]	1-3	0 days	0 days	0 days	0 days	0 days	0 days	0 days
Not effective	4A	Actara	1-3	3 days	3 days	3 days	5 days	14 days	14 days	14 days
	4A	Admire Pro	1-3	3 days	3 days	7 days	0 days	7 days	0 days	7 days

! Restricted-Use Pesticide.

§ Not allowed in greenhouses or high tunnels.

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

OMRI means allowed for use in organic production.