

### Insecticides for Spotted Wing Drosophila

	Blueberry	Caneberry	Grape	Strawberry
<b>IRAC 1A – carbamates</b>				
Lannate 90SP				
Rate	0.5-1 lb	--	--	--
PHI	3d	--	--	--
Applics/Season	4	--	--	--
<b>IRAC 1B - organophosphates</b>				
Malathion 8F (malathion)				
Rate	2.5 pt <sup>3</sup>	2 pt	1.88 pt	1.5-2 pt
PHI	1d	1d	3d	3d
Applics/Season	2	4	2	4
Imidan 70WSB (phosmet)				
Rate	1.3 lb	--	1.3-2.12 lb	--
PHI	3d	--	7-14d (label)	--
Applics/Season	5	--	6.5 lb	--
<b>IRAC 3A – pyrethroids and pyrethrin</b>				
Brigade 10WSB (bifenthrin)				
Rate	16 oz	16 oz	8-16 oz	16 oz
PHI	1d	3d	30d	0d
Applics/Season	80 oz	2 (32 oz)	16 oz	80 oz
Danitol 2.4EC (fenpropathrin)				
Rate	10.6-16 fl oz	--	10.6-21.3 fl oz	10.6 fl oz
PHI	3d	--	21d	2d
Applics/Season	2	--	2	2 (2.6 pts)
Mustang Maxx 0.8E (zeta-cypermethrin)				
Rate	4 fl oz	4 fl oz	2-4 fl oz	--
PHI	1d	1d	1d	--
Applics/Season	24 oz	24 oz	24 oz	--
Tombstone 2EC (cyfluthrin)				
Rate	--	--	2.4-3.2 fl oz	--
PHI	--	--	3d	--
Applics/Season <sup>2</sup>	--	--	12.8 fl oz (3.2 fl oz/14d)	--
<sup>4</sup> PyGanic 5EC (pyrethrin)				
Rate	4.5-18 fl oz	4.5-18 fl oz	4.5-18 fl oz	4.5-18 fl oz
PHI	0d	0d	0d	0d
Applics/Season	n/a	n/a	n/a	n/a
<b>IRAC 5 – spinosyns</b>				
Delegate 25WG (spinetoram)				
Rate	3-6 oz	3-6 oz	3-5 oz	--
PHI	3d	1d	7d	--
Applics/Season	19.5 oz	6	19.5 oz	--
Radiant 11.7SC (spinetoram)				
Rate	--	--	--	6-10 fl oz
PHI	--	--	--	1d
Applics/Season	--	--	--	5
<sup>4</sup> Entrust 80W (spinosad)				
Rate	1.25-2 oz	1.25-2 oz	1.25-2.5 oz	1.25-2 oz
PHI	3d	1d	7d	1d
Applics/Season	3 <sup>1</sup>	6	5	5

**IRAC 28 – diamides**

Exirel 10.2EC (cyantraniliprole)

Rate	13.5-20.5 fl oz	--	--	13.5-20.5 fl oz
PHI	3d	--	--	1d
Applics/Season	0.4 lb ai	--	--	0.4 lb ai

**Other and mixes****IRAC 3A/UN**

Azera (pyrethrin/azadirachtin)

Rate	2-3 pt	2-3 pt	2-3 pt	2-3 pt
PHI	--	0d	0d	0d
Applics/Season	n/a	n/a	n/a	n/a

**IRAC 6/28**

Minecto Pro (abamectin/chlorantraniliprole)

Rate	--	--	--	10 fl oz
PHI	--	--	--	3d
Applics/Season	--	--	--	40 fl oz

**IRAC Unknown**<sup>4</sup>Surround 95WP (kaolin)

Rate	25-50 lb	25-50 lb	25-50 lb	
PHI	see label	see label	see label	0d
Applics/Season	--	--	--	--

<sup>4</sup>Grandevo (*Chromobacterium subtsugae* strain PRAA4-1)

Rate	2-3 lb	2-3 lb	2-3 lb	2-3 lb
PHI	0d	0d	0d	0d
Applic/Season	n/a	n/a	n/a	n/a

<sup>4</sup>AzaGuard (azadirachtin)

Rate	10-16 fl oz	10-16 fl oz	10-16 fl oz	10-16 fl oz
PHI	0d	0d	0d	0d
Applics/Season	n/a	na	n/a	n/a

<sup>4</sup>Venerate (*Burkholderia* spp. Strain A396)

Rate	4-8 qt	4-8 qt	4-8 qt	4-8 qt
PHI	0d	0d	0d	0d
Applics/Season	n/a	n/a	n/a	n/a

<sup>1</sup> 3 applications per crop, 6 applications per calendar year.<sup>2</sup> See label. Maximum seasonal rate depends on use of other products.<sup>3</sup> 24C registration in Virginia. Sect 3 label 1.25 lb.<sup>4</sup> OMRI-approved, suitable for organic production.