

Options for Managing Whiteflies in the Landscape (5-25-2016)

Trade names (Active Ingredients)	IRAC CLASS	KNOCK DOWN	RESIDUAL*** CONTROL (Days)	REI	B- BIOTYPE	Q- BIOTYPE	IMMATURES	PUPAE	ADULTS	SAFETY TO BIOLOGICALS
Aria (flonicamid)	9C	M	7-14	12h	F	P-E	X	?	X	YES
Avid EC (abamectin)	6	F	CONTACT-7	12h	P-E	G-E	X	?	X	YES**
Azatin XL, Ornazin, etc. (azadirachtin)	UN	S	7	4h	E	P	X	?	?	YES
BotaniGard, Mycotrol-O, etc. (Beauveria bassiana)	M	M	3	4h	P-G	P-E	X	X	X	YES*
Distance (pyriproxyfen)	7D	S	?	12h	E	P-E	X	X	?	YES
Meridian 25 WG (thiamethoxam)	4A	F	7-14	12h	G-E	P-E	X	?	X	NO
Forbid 4F (spiromesifen)	23	M	7	12h	G-E	G-E	X	?	X	?
Mainspring GNL (cyantraniliprole)	28	M	7-14	4h	G-E	G-E	X	?	?	YES
Marathon, Mallet etc. (imidacloprid)	4A	M	5-7	12h	F-E	P-E	X	?	X	NO
M-Pede, Safer Soap (potassium salts of Fatty acids)	?	F	CONTACT	12h	E	F-E	X	?	?	YES**
NoFly WP, Preferal etc. (Isaria fumosorosea)	?	M	3	4h	F-E	F-E	X	X	X	YES
Safari 20SG (dinotefuran)	4A	M	7	12h	E	G-E	X	?	X	?
Sanmite (pyridaben)	21	M	CONTACT	12h	P	G-E	X	?	X	NO
Talus 70DF (buprofezin)	16	S	14	12h	E	P	X	?	?	YES
Tristar (acetamiprid)	4A	F	7	12h	E	E	X	?	X	NO
Ultra Pure Oil, SuffOil-X, etc.	?	F	CONTACT	4h	E	G	X	X	X	YES**

Knockdown: Fast (< 1 day), Medium (1-7 days), Slow (>7 days).

Efficacy: P = Poor (< 70% control); F = Fair (70% to 85% control); G = Good (85% to 95% control), E = Excellent (>95% control) on immatures and/or adults 1 to 3 weeks after first app.

Residual Control taken from product technical and label info, recommendations on earliest application intervals; Whitefly Efficacy taken from latest IR-4 efficacy summary draft; Effect on biological control agents for whiteflies taken from Koppert, Biobest and some extension publications/recommendations. YES simply means there is so potential of integrating the compound with biological control agents.

* Results of efficacy trials have been variable for entomopathogens and impact on beneficial organisms is presumed to be less than that of traditional pesticide chemistries but the data are sparse.

** This insecticide is toxic to many BCA's but has a short residual and may be suitable for treating hot spots and re-introducing BCA's soon thereafter.

Drenches of some products are typically less problematic than foliar applications and can be used in a maintenance program if additional releases are made.

*** Residual control is influenced by many factors including weather, adjuvants, and method of application (foliar or trunk spray, soil drench...). This is especially true for the systemic neonicotinoids. Foliar sprays will typically last 7-14 days on leaves that are treated (new growth that emerges after application may not be protected). Soil drenches will last several weeks or even months.

THIS TABLE WAS EDITED BY L.S. OSBORNE FROM IR-4 DATA: Orn. Horticulture Program Project Sheet Whitefly Efficacy, <http://ir4.rutgers.edu/Ornamental/ornamentalProjectInformationSheets.cfm>