

2011/2012

READ ALL PESTICIDE LABELS CAREFULLY

EFFICACY AGAINST SPECIFIC CITRUS PESTS AND DISEASES

(++ = Very Effective; + = Some Help; Blank = No Help)

IMPORTANT: See precautions on Reverse Side

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PESTICIDE BRAND NAME	ACTIVE INGREDIENT (IRAC-MOA)	RATE/ ACRE†	REI (hr)	PHI (d)	MAXIMUM RATE/YR	RUST MITES	SPIDER MITES	ARMORED SCALES	SOFT SCALES	CITRUS LEAF-MINER	CITRUS PSYLLID	BLACK/ WHITE FLIES	THRIPS	ROOT WEEVILS	ANTS	NEMA - TODE	APHIDS	MEALY-BUG	LEAF-HOPPERS/ SHARP-SHOOTER
					Amount (#)														
ADMIRE PRO *	Imidacloprid (4)	7-14 oz	12	0	14 oz			++	++	++	++	++	+	+			++	++	++
ACTARA	Thiamethoxam (4)	3-5.5 oz	12	0	11 oz			+	++	++	++	++	+	+	+		++	++	++
AGRI-FLEX	Abamectin/Thiamethoxam (6, 4)	5.5-8.5 oz	12	7	17 oz (3)	++	+	+	++	++	++	++	++	+	+		++	++	+
AGRIMEK 0.15EC**	Abamectin (6)	5-20 oz	12	7	40 oz (3)	++	+			++	+		++						
ASSAIL 30SG	Acetamiprid (4)	2.5-10.oz	12	7	29.3 (5)			+		++	*		++				++	+	++
ASSAIL 70WP	Acetamiprid (4)	1.1-4.3 oz	12	7	12.5 (5)			+		++	*		++				++	+	++
BAYTHROID XL	Beta-Cyfluthrin (3)	1.6-6.4 oz	12	0	6.4 oz (4)						++	+	+	++			++	+	++
CAPTURE 2 EC	Bifenthrin (3)	16-32 oz	12	1	32 oz		+							++			+		
CARZOL SP	Formetanate hydrochloride (1B)	2-4 oz	216	30	1.25 lbs	++	+						++						
CENTAUR	Buprofezin (16)	34.5-46 oz	12	3	92 oz			++	++			+						++	++
COMITE EC	Propargite (12 C)	2-3 pt	480	21	80 oz (2)	+	++												
DANITOL 2.4 EC	Fenpropathrin (2)	16-21 oz	24	1	42-2/3 oz	+	++				++	+	+	+			+		+
DELEGATE	Spinoteram (5)	3-6 oz	4	1	12 oz (3)					++	++		++						
DICOFOL 4E	Dicofol (UN)	1-2 pt	12	7	6 pints	++	++												
DIMETHOATE 4E	Dimethoate (1B)	½-2 pt	48	15-45	(2)		++	++	+		++	+	++				++		
ENVIDOR 2 SC	Spirodiclofen (23)	13-20 oz	12	7	20 oz (1)	++	++												
ESTEEM 0.86 EC	Pyriproxyfen (7C)	10-16 oz	12	1	26 oz			++	++	+	+	++							
ESTEEM BAIT	Pyriproxyfen (7C)	1.5-2 lb	12	1	26.8 lb										++				
IMIDAN	Phosmet (1B)	1-2 lb	24	7	4 Oz (2)			+	++	+	++	+		++			+	+	+
LEVERAGE 360	B-Cyfluthrin /Imidacloprid (3, 4)	2.4-6.4oz	12	0	6.4 oz			++	++	++	++	++		+			++	++	+
LORSBAN	Chlorpyrifos (1B)	2-12 pt	120	21-35	16 pt (2)	+		++	++		++	++	+		++		++	++	+
LORSBAN 4E	Chlorpyrifos (1B)	4-7 pt	120	21	15 pt (2)	+		++	++		++	++	+		++		++	++	+
MALATHION 57 EC	Malathion (1B)	2.4-7.2 pt	12	7	7.2 (1-3)			+	++		+	+	+				+	+	+
MICROMITE 80 WGS	Diflubenzuron(15)	6.25 oz	12	21	18.75	++				++	++			++					
MOVENTO	Spirotetramat (23)	8-10 oz	24	1	20 oz	+		++	++	++	++	+	+				++	++	
MUSTANG	Zeta-cypermethrin(3)	4.3 oz	12	1	17.2 oz					+	++	++	+	++	+				+
NEXTER 75 W	Pyridaben (21)	4.3-10.67 oz	12	7	21.34 oz	++	++				+	+		+			++		+
PETROLEUM OIL	Petroleum Distillate	2-6 gal	4	0	-	+	+	++	+	+	+	+					++		+
PLATINUM***	Thiametoxam (4)	1.83-3.67	12	0	3.67 oz			+	++	++	++	++	+	+	+		++	++	++
PTM Insecticide	Fipronil (2B)	1.5oz/hole²	0	-	21 Oz										++				
PORTAL/FUJIMITE	Fenpyroximate (21)	1-4 pt	12	14	8 pt (2)	++	+				++	+	+				+	+	+
PROVADO 1.6 F	Imidacloprid (4)	10-20 oz	12	0	40 oz			++	++	++	++	++	+	+			++	+	++
SEVIN 80 S	Carbaryl (1A)	3 ½ - 6 ¼ lb	12	5	25 lbs (8)	+		++	++		++	++		++			+		
SPINTOR 2 SC	Spinosad (5)	4-10 oz	4	1	29 oz (2)					++	+		++						
SUPRACIDE 2 E	Methidathion (1B)	1½-5 pt	72	14	20 pts (2)			++	++	+	+	++					+	++	
TEMIK 15 G	Aldicarb (1A)	33 lb	48	30**	33 lbs (1)	++	+	+	+	+	++	+				++			
VENDEX 50 WP	Fenbutatin-oxide(12B)	2-3 lb	48	7	6 lbs (2)	++	++												
VOLIAM Flexi	Thiam./Chlorantranilipole (4, 28)	4-7 oz	12	1	14 Oz			++	++	++	++	++	+	++		+	++	++	+
VYDATE L	Oxamyl (1A)	2-4 pt	48	7	24 pts (6)	++	+			+	+					+	+		+

IRAC-MOA = Insecticide Resistance Action Committee Mode of Action. Pesticide misuse leads to resistance development. To steward sound pest resistance management, growers should not only rely on a single pesticide class for pest control. Use recommended rates of pesticides-do not cut rates, and do not tank mix pesticides that have the same mode of action (i.e. same class). If control fails after an application, use a pesticide with a different mode of action to retreat.

FORMULATION OF ORGANIC PESTICIDE	Mite Pests		Insect Pests	Greasy spots	Melanose	Phytophthora	Scab
	Citrus rust mite	Spider mites					
Sulfur Products: <ul style="list-style-type: none"> ➤ Kumulus Df, Microthiol 80DF, Sulfur DF, Sulfur 6F, Sulfur 6L, That, 80% Thiospere, Wettable sulfur ➤ Lime sulfur solution ➤ Sulfur copper dust ➤ Copper 	++	+	+ (Thrips only)				
	++	++			++	++	++
Oils <ul style="list-style-type: none"> ➤ Petroleum-based*: Suffoil-X, Superior spray oil, Organic JMS Stylet oil ➤ Plant-based: Azatrol, Aza-Direct, AzaGuard, Ecotrol, Oil Pharm, Neemix, Oroboost, Prevam, Trilogy, Soybean oil, cottonseed oil 	++	++	++	+	+		+
	++	+	+	+	+		+
Pyrethrins and pyrethrin-based <ul style="list-style-type: none"> ➤ Evergreen EC 60-6, Pyganic 			++				
Insecticidal soaps <ul style="list-style-type: none"> ➤ Potassium salt of fatty acids: Des-X, P-Pede 	+	+	++				
Other products <ul style="list-style-type: none"> ➤ Sil-Matrix, Requiem, Entrust, Agree, Garlic extract, Hot pepper wax, Sucroicide, SucraShield, 	See label	See label	See label	See label	See label	See label	See label

SUGGESTED CITRUS PEST CONTROL PROGRAM IN TEXAS					LABEL RECOMMENDATIONS						CITRUS DISEASE					
	Fall-Winter	Post-Bloom	Early Summer (June-July)	Late Summer (Aug-Sep)	PESTICIDE	MODE OF ACTION	RATE/Ac	REI (hr)	PHI (d)	Maximum Rate/Yr	GREASY SPOT	MELANOSE	PHYTOPH-THORA*	SCAB	ALTERNARIA	
Target Pests & Diseases	Citrus psyllids Citrus rust mites Spider mites Armored scales	Citrus psyllids Thrips Citrus rust mites Spider mites Soft scales Mealybugs Blackflies	Citrus rust mites Citrus psyllids Thrips Spider mites Soft scales Mealybugs Blackflies Citrus leafminer	Citrus rust mites Citrus psyllids Thrips Spider mites Soft & armored scales Mealybugs Citrus leafminer Leaffooted bugs	ABOUND 2.08 F	11	12 - 15 oz	4	0	92.3 fl oz	++	++		++	++	
					ALLETTE WDG	33	2 ½ - 5 lb	12	30	20 lbs			++		+	
					COPPER FUNGICIDE	M1	See label	24	See label	None	++	++		++	+	
					ENABLE 2F	3	8 oz	12	0	24 fl oz	+	++		+		
		Melanose Greasy spots	Melanose Greasy spots	Melanose Greasy spots	GEM 500SC	11	4 – 8 oz	12	7	15.2 fl oz	++	++		++	++	
Pesticides	Envidor, Lorsban, Imidan, Dimethoate, Malathion, Vendex, Nexter, Sevin, Esteem, Danitol, Movento, Baythroid XL, Leverage, Sulfur	Agrimek, Vendex, Micromite, Vydate, Carzol, Nexter, Spintor, Danitol, Movento, Baythroid XL, Leverage, Centaur, Esteem, Imidacloprid, Thiamethoxam, Portal, Sulfur, Oils Abbound, Enable, Gem, Headline, Copper	Agrimek, Vendex, Micromite, Vydate, Carzol, Nexter, Spintor, Danitol, Movento, Baythroid XL, Leverage, Centaur, Esteem, Imidacloprid, Thiamethoxam, Oils Abbound, Enable, Gem, Headline, Copper	Envidor, Vendex, Micromite, Vydate, Carzol, Nexter, Spintor, Danitol, Movento, Baythroid XL, Leverage, Centaur, Esteem, Imidacloprid, Thiamethoxam, Oils Abbound, Enable, Gem, Headline, Copper	HEADLINE	11	9 - 15 oz	12	0	54 fl oz	++	++		++	++	
					RIDOMIL GOLD SL	4	1 - 3 qt	48	21	6 lbs a.i.			++			
					PETROLEUM OIL (Narrow Range)	NR	3 - 10 gal	12	0	None	+	+				

*Apply as a trunk or soil drench treatment and on trees up to 8 ft tall, or as foliar treatment on any size tree. **For best results for rust mite control, use a minimum of 10 oz/ac in 150-300 gal/A of spray mix with a minimum of 3 gal./A of oil and apply at a ground speed of 1 to 1.5 MPH

*Foot rot, Root rot, Brown rot, and Gummosis

Most pesticides required the use of a spray adjuvant for enhanced performance. Surfactants and oils are commonly as spray adjuvants. Narrow range oils, Non-ionic surfactants, and Citriking are recommended for citrus pest control.

Make sure to read the labels and ensuring compatibility before tank mixing pesticides. For instance, do not tank mix sulfur and oil, M-Pede or Des-X and sulfur.

For more information on pesticide current registration status in Texas visit <http://state.ceris.purdue.edu/htbin/stweb.com>