

Crops – Commercial

Cotton – Pre-bloom

Insect	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Treatment Threshold / Remarks
Bollworm/ tobacco budworm	indoxacarb Steward (1.25)	11.3 ounce	0.11	11.5	<p>-Non-Bt and BG2 cotton varieties: Treat when population reaches or exceeds 8 larvae/100 plants or 6% fruit injury of any kind.</p> <p>-WideStrike 3, TwinLink Plus, and BG3 cotton varieties: Treat when population reaches or exceeds 8 larvae/100 plants or 6% fruit injury of any kind.</p> <p>-Premix insecticides are available for this pest. See premix table.</p>
	spinosad Blackhawk (0.36)	2.4 - 3.2 ounce	0.054 – 0.072	6.7 – 5.0	
	chlorantraniliprole Vantacor (5)	1.2 – 2.5 ounce	0.047 – 0.098	106.7 – 51.2	
Cutworms	esfenvalerate Asana XL (0.66)	5.8 ounce	0.03	22.0	<p>-Treat when loss of satisfactory stand is threatened or in minimum tillage environment</p> <p>-Premix insecticides are available for this pest. See premix table.</p>
	beta-cyfluthrin Baythroid XL (1)	0.8 ounce	0.0065	160.0	
	bifenthrin Brigade (2)	2.6-6.4 ounce	0.04 - 0.10	20.0 – 50.0	
	cyfluthrin Tombstone (2)	0.8 ounce	0.013	154.0	
	lambda-cyhalothrin Warrior II (2.08)	0.9 - 1.3 ounce	0.015 - 0.02	142.0 – 98.0	
	z-cypermethrin Mustang Max (0.8)	1.3 - 2.8 ounce	0.01- 0.017	80.0 – 47.0	
	gamma-cyhalothrin Declare (1.25)	0.77 - 1.02 ounce	0.0075 - 0.01	166.0 – 125.0	
	a-cypermethrin Fastac (0.83)	1.3 – 1.9 ounce	0.008 – 0.012	80.0 – 67.0	
Plant bugs cotton flea hopper, clouded, or tarnished	flonicamid Carbine (50)	2.3 - 2.8 ounce	0.072 - 0.089	7.0 – 8.0	<p>-Treat when 10 to 25 of these pests per 100 sweeps are found.</p> <p>-Adjust pre-bloom treatment levels to maintain between 70% and 85% first position square retention.</p> <p>-Control of cotton fleahoppers can usually be obtained with lower rates than the rates used to control other plant bug pests.</p> <p>-Multiply clouded plant bug number by 1.5 when determining densities for treatment decision.</p> <p>- Premix insecticides are available for this pest. See premix table.</p> <p>NOTE: Diamond will not control adults. For adult control, tank mix with an adulticide. Repeat applications at 7- to 14-day intervals as needed to maintain control.</p>
	thiamethoxam Centric (40)	2.5 – 3.0 ounce	0.0625 – 0.075	6.4 – 5.3	
	imidacloprid Admire Pro (4.6)	0.9 – 1.7 ounce	0.032 – 0.062	142.0 – 75.0	
	imidacloprid (2)	2.0 – 4.0 ounce	0.032 – 0.062	64.0 – 32.0	
	imidacloprid (4)	2.0 ounce	0.0625	64.0	
	acetamiprid Strafer Max (70)	1.7 – 2.3 ounce	0.075 – 0.10	9.4 – 7.0	
	sulfoxaflor Transform (50)	1.5 – 2.25 ounce	0.047 – 0.071	10.7 – 7.1	
	clothianidin Belay (2.13)	3.0 - 6.0 ounce	0.05 - 0.1	42.7 – 21.0	
	oxamyl Vydate C-LV (3.77)	11.2– 17.0 ounce	0.33 – 0.50	11.4 – 7.5	
novaluron Diamond (0.83)	6.0 – 12.0 ounce	0.039 - 0.078	21.3 - 10.6		

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Insect	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Treatment Threshold / Remarks
Spider mites	abamectin (0.15) Agri-Mek (0.15)	8.0 – 16.0 ounce	0.009 - 0.0187	16.0 – 8.0	-Treat when mite infestations cause areas where plants have discolored leaves. -Anticipate repeating applications in 5 days. -Premix insecticides are available for this pest. See premix table.
	fenpyroximate Portal (0.4)	16.0 – 32.0 ounce	0.05 – 0.10	8.0 – 4.0	
	spiromesifen Oberon (4)	4.0 – 8.0 ounce	.0625 – 0.125	32.0 – 16.0	
	etoxazole Zeal (72)	0.66 – 1.0 ounce	0.030 - 0.045	28.0 – 16.0	
	abamectin Agri-Mek SC (0.7)	1.75 – 3.5 ounce	0.009 – 0.019	73.1 – 36.6	
	hexythiazox Onager (1)	16.0 – 20.0 ounce	0.125 – 0.156	8.0 – 6.4	
Thrips	acephate Orthene (90)	6.4 ounce/100 wt			-Seed Treatment -Use Acephate With Caution: pockets of acephate-resistant thrips have been detected in portions of Louisiana.
	Imidacloprid Gaucho Grande (600)	0.375 mg AI/seed			
	Avicta Elite	Commercial pre-treatment of imidacloprid + thiamethoxam			
	Aeris	Commercial pre-treatment of imidacloprid+ thiodicarb			
	acephate Orthene (90)	1.1 pound	1.0		-At planting in-furrow -Use Acephate With Caution: pockets of acephate-resistant thrips have been detected in portions of Louisiana. -Premix insecticides are available for this pest. See premix table.
	aldicarb AgLogic (15)	3.3 - 5.0 pound	0.5-0.75		
	imidacloprid Admire Pro (4.6)	7.4 - 9.2 ounce	0.26 – 0.33		
	Imidacloprid (4)	8.5 – 10.6 ounce	0.25 – 0.33		
	Imidacloprid (2)	17.0 – 21.1 ounce	0.25 – 0.33		
	acephate Orthene (90)	3.2 ounce	0.18	5.0	-Foliar Spray -Use Acephate With Caution: pockets of acephate-resistant thrips have been detected in portions of Louisiana. -Treat when immature thrips first appear on seedling cotton before the fourth true leaf. Do not apply acephate/Orthene if spider mites are present. -Premix insecticides are available for this pest. See premix table
	acephate Orthene (97)	3.0 ounce	0.18	5.3	
	dicrotophos Bidrin (8)	3.2 ounce	0.2	40.0	
	dimethoate Dimethoate (4)	6.4 ounce	0.2	20.0	
	spinetoram Radiant (1)	1.5 – 3.0 ounce	0.01 – 0.02	85.0 – 42.7	

Crops – Commercial

Cotton – Bloom to Harvest

Insect	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Treatment Threshold / Remarks
Beet armyworms	methoxyfenozide Intrepid (2)	6.0-10.0 ounce	0.09-0.16	21.0-12.5	<p>-Treat when larvae are small and 5 to 6 hatch out spots (hits) are observed per 300-row feet.</p> <p>-Premix insecticides are available for this pest. See premix table.</p>
	indoxacarb Steward (1.25)	11.3 ounce	0.11	11.5	
	spinosad Blackhawk (0.36)	2.4 - 3.2 ounce	0.054 – 0.072	6.7 – 5.0	
	chlorantraniliprole Vantacor (5)	1.2 – 2.5 ounce			
	bifenthrin, chlorantraniliprole Elevest	5.6 – 9.6 oz.	premix	22.8 – 13.3	
Bollworm/ tobacco budworm	spinetoram Radiant (1)	2.8 – 8.0 ounce	0.022 – 0.0625	46 - 16	<p>-Non-Bt varieties: Treat when you find 20 eggs/100 plants or 6% fruit injury of any kind. Regardless of the size of larvae, treatment may be warranted if damaged-boll counts exceed 2% and significant numbers of larvae are present and continuing to cause damage.</p> <p>-WideStrike 3, TwinLink Plus, and BG3 cotton varieties: Treat when larvae 1/8-inch long or longer exceed 4 larvae/100 plants or 6% fruit injury of any kind. Regardless of the size of larvae, treatment may be warranted if damaged-boll counts exceed 2% and significant numbers of larvae are present and continuing to cause damage.</p> <p>-Use Pyrethroids With Caution: Pyrethroid resistance is prevalent in bollworms in Louisiana.</p> <p>-Premix insecticides are available for this pest. See premix table.</p>
	indoxacarb Steward (1.25)	11.3 ounce	0.11	11.5	
	spinosad Blackhawk (0.36)	2.4 - 3.2 ounce	0.054 – 0.072	6.7 – 5.0	
	chlorantraniliprole Vantacor (5)	1.2 – 2.5 ounce	0.047 – 0.098	106.7 – 51.2	
	bifenthrin, chlorantraniliprole Elevest	5.6 – 9.6 oz.	premix	22.8 – 13.3	
Brown stink bugs	acephate Orthene (90)	0.8 pound	0.72	1.25	<p>-See green stink bug thresholds.</p> <p>-Premix insecticides are available for this pest. See premix table.</p>
	dicrotophos Bidrin (8)	6.0 - 8.0 ounce	0.33-0.5	24.0 – 16.0	
	oxamyl Vydate (3.77)	17.0 ounce	0.5	7.5	
Cotton aphid	flonicamid Carbine (50)	1.4 - 2.8 ounce	0.044 - 0.089	11.4 - 5.7	<p>-Treat when honeydew, leaf crinkling and stunting begin to occur uniformly.</p>
	sulfoxaflor Transform (50)	0.75 – 1.0 ounce	0.023 – 0.031	21.3 – 16.0	
	acetamiprid Strafer Max (70)	1.1 ounce	0.05	14.5	

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Insect	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Treatment Threshold / Remarks
	afidopyropen Sefina (0.42)	3.0 ounce	0.01	42.7	
	pyrifluquinazon PQZ (1.87)	2.4 – 3.2 ounce	0.035 – 0.047	53.3 - 40	
Fall armyworms	novaluron Diamond (0.83)	6.0 – 12.0 ounce	0.039 - 0.077	21.3 - 10.6	-Treat when egg masses or small larvae appear. -Premix insecticides are available for this pest. See premix table.
	methoxyfenozide Intrepid (2)	6.0 – 10.0 ounce	0.09-0.16	21.0-12.5	
	spinosad Blackhawk (0.36)	2.4 - 3.2 ounce	0.054 – 0.072	6.7 – 5.0	
	chlorantraniliprole Vantacor (5)	1.2 – 2.5 ounce	0.047 – 0.098	106.7 – 51.2	
	bifenthrin, chlorantraniliprole Elevest	5.6 – 9.6 oz.	premix	22.8 – 13.3	
Green stink bugs	acephate Orthene (90)	0.8 pound	0.72	1.25	-Treat stink bugs when 1 adult/nymph is found per 6 row feet, 5% adults/nymphs are found in sweep nets, or 15% to 20% of 12- to 16-day old bolls have internal injury. -Stink bug populations normally are very clumped in fields; thus, numerous samples may be required to assess infestation. -Premix insecticides are available for this pest. See premix table.
	beta-cyfluthrin Baythroid XL (1)	1.6-2.6 ounce	0.0125 - 0.02	80.0 - 50.0	
	dicrotophos Bidrin (8)	4.0 - 8.0 ounce	0.25-0.5	32.0 – 16.0	
	bifenthrin Brigade (2)	2.6-6.4 ounce	0.04-0.1	50.0 - 20.0	
	cyfluthrin Tombstone (2)	1.6 - 2.6 ounce	0.025 - 0.041	80.0 - 50.0	
	lambda-cyhalothrin Karate Z (2.08)	1.6 - 2.56 ounce	0.025 - 0.04	80.0 – 50.0	
	z-cypermethrin Mustang Max (0.8)	2.6-3.6 ounce	0.017-0.022	47.0 - 36.0	
	a-cypermethrin Fastac (0.83)	2.6 – 3.6 ounce	0.017 – 0.023	49.0 – 36.0	
	gamma-cyhalothrin Declare (1.25)	1.28-2.05 ounce	0.0125-0.02	100.0 - 62.5	
	acephate Orthene (97)	0.75 pound	0.72	1.29	
	oxamyl Vydate (3.77)	11.2-17.0 ounce	0.33-0.5	11.4-7.5	
	Loopers	methoxyfenozide Intrepid (2)	6.0 – 10.0 ounce	0.09 - 0.16	
indoxacarb Steward (1.25)		9.2 ounce	0.09	14.0	
spinosad Blackhawk (0.36)		2.4 - 3.2 ounce	0.054 – 0.072	6.7 – 5.0	
chlorantraniliprole Vantacor (5)		1.7 – 2.5 ounce	0.066 – 0.098	75.3 – 51.2	
bifenthrin, chlorantraniliprole Elevest		5.6 – 9.6 oz.	premix	22.8 – 13.3	
Plant bug clouded, tarnished	acephate Orthene (90)	0.55 – 1.1 pound	0.5 – 1.0	1.8 – 0.9	-After first flower, treat at two to three tarnished plant bugs per 5 feet black drop cloth, 10 tarnished plant bugs per 100 sweep net samples, or 10% dirty squares. NOTE: Diamond will not control adults. For adult
	acephate Orthene (97)	0.8-1.0 pound	0.75-0.97	1.3-1.0	
	dicrotophos Bidrin (8)	6.0 – 8.0 ounce	0.33 - 0.5	24.0 – 16.0	

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	novaluron Diamond (0.83)*	6.0 – 12.0 ounce	0.039 - 0.078	21.3 - 10.67	control, tank-mix with an adulticide. Repeat applications at 7- to 14-day intervals as needed to maintain control. -Multiply clouded plant bug number by 1.5 when determining densities for treatment decision. -Premix insecticides are available for this pest. See premix table.
	sulfoxaflor Transform (50)	1.5 – 2.25 ounce	0.047 – 0.071	10.7 – 7.1	
	oxamyl Vydate (3.77)	11.2 – 17.0 ounce	0.33 – 0.5	11.4 – 7.5	
	thiamethoxam Centric (40)	2.5 – 3.0 ounce	0.0625 – 0.075	6.4 – 5.3	
	flonicamid Carbine (50)	2.8 ounce	0.089	5.7	
	malathion Fyfanon (ULV)9.9C	16.0 ounce	1.25	8.0	
Spider mites	abamectin Agri-mek (0.15)	8.0 – 16.0 ounce	0.009 - 0.0187	16.0 – 8.0	-Treat when mite infestations cause areas where plants have discolored leaves. Anticipate repeating applications in 5 days. -Use Abamectin With Caution: Abamectin resistance in two-spotted spider mites has been detected in Louisiana. -Premix insecticides are available for this pest. See premix table.
	propargite Comite II (6.0)	24.0 – 36.0 ounce	1.1 – 1.7	5.3 – 3.5	
	dicofol Dicofol (4)	1.0 quart	1.0	4.0	
	fenpyroximate Portal (0.4)	16.0 – 32.0 ounce	0.05 – 0.10	8.0 – 4.0	
	spiromesifen Oberon (4)	4.0 – 8.0 ounce	0.0625 – 0.125	32.0 – 16.0	
	etoxazole Zeal (72)	0.66 – 1.0 ounce	0.03 - 0.045	28.0 – 16.0	
	abamectin Agri-Mek (0.7)	1.75 – 3.5 ounce	0.009 – 0.019	73.1 – 36.6	
	hexythiazox Onager (1)	16.0 – 20.0 ounce	0.125 – 0.156	8.0 – 6.4	
Whitefly	acephate Orthene (90)	0.83-1.0 pound	0.75-0.9	1.2-1.0	-Apply when 50% of plant terminals have clustering whiteflies. Control may require three to four applications at 5-day intervals.
	thiamethoxam Centric (40)	2.0 ounce	0.05	8.0	
	acetamiprid Strafer Max (70)	1.7 – 2.3 ounce	0.075 – 0.1	9.4 – 7.0	
	acephate Orthene (97)	0.8-1.0 pound	0.75-0.97	1.3-1.0	
	spiromesifen Oberon (4)	4.0 – 8.0 ounce	.0625 – 0.125	32.0 – 16.0	

Crops – Commercial

Cotton - Premix Insecticide Products

The following products are available as premixes of two or more insecticides.

Trade Name (Insecticides)	Amount of Concentrate per Acre	Acres Treated per Gallon or Pound SP	Primary Target Pests: (See label for other pests that may be controlled)
Athena (bifenthrin, abamectin)	10.0 – 17.0 ounce	12.8 – 7.5	Spider mites
Besiege (chlorantraniliprole, lambda-cyhalothrin)	6.5 – 12.5 ounce	19.7 – 10.2	Most caterpillar pests, stink bugs
Bidrin XP II (dicrotophos, bifenthrin)	8.0 – 12.8 ounce	16.0 – 10.0	Stink bugs, plant bugs
Brigadier (imidacloprid, bifenthrin)	5.1 – 7.7 ounce	25.0 – 16.6	Stink bugs, plant bugs
Elevest (chlorantraniliprole, bifenthrin)	4.8 – 9.6 ounce	26.7 – 13.3	Most caterpillar pests, stink bugs
Endigo ZC (thiamethoxam, lambda-cyhalothrin)	3.5 – 5.5 ounce	36.6 – 25.6	Stink bugs, plant bugs
Fyfanon Plus ULV (malathion, gamma-cyhalothrin)	8.0 – 16.0 ounce	16.0 – 8.0	Stink bugs, plant bugs
Gladiator (zeta-cypermethrin, avermectin B1)	13.0 – 19.0 ounce	9.8 – 6.7	Stink bugs, spider mites
Hero (zeta-cypermethrin, bifenthrin)	5.2 – 10.3 ounce	24.6 – 12.4	Stink bugs
Intrepid Edge (methoxyfenozide, spinetoram)	3.0 – 6.0 ounce	42.6 – 21.3	Thrips
Leverage 360 (imidacloprid, beta-cyfluthrin)	3.2 ounce	40.0	Stink bugs, plant bugs
Triple Crown (imidacloprid, zeta-cypermethrin, bifenthrin)	4.5 – 6.4 ounce	28.4 – 20.0	Stink bugs, plant bugs
Velum Total (fluopyram, imidacloprid)	14.0 – 18.0 ounce	9.1 – 7.1	Thrips