

Crops - Commercial

Cotton

Insect	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Treatment Threshold / Remarks
Pre-Bloom					
Bollworm/ Tobacco Budworm	Curacron (8)	16.0 ounce	1.0	8.0	Bollgard II, Widestrike or Widestrike 3: treat when 2 percent to 3 percent live larvae found in fruiting forms or when 10 percent of plant terminals are infested with live larvae. Nontransgenic: Start applications when squares are at least one-third grown and five live worms per 100 plants plus eggs are present. Apply on an as-needed basis. Shorten the application interval and add an ovicide when tobacco budworm moths are laying eggs.
	Steward (1.25)	11.3 ounce	0.11	11.5	
	Tracer (4)	2.1 – 2.85 ounce	0.067 - 0.089	60.0 – 45.0	
	Belt (4)	2.0 - 3.0 ounce	0.0625-0.937	64.0-42.7	
	Prevathon (0.43)	14.0 - 27.0 ounce	0.047 – 0.09	9.1 – 4.7	
Cutworms	Asana XL (0.66)	5.8 ounce	0.03	22.0	Treat when loss of satisfactory stand is threatened, or in minimum tillage environment.
	Baythroid XL (1)	0.8 ounce	0.0065	160.0	
	bifenthrin (2)	2.6-6.4 ounce	0.04 - 0.1	20.0 – 50.0	
	cyfluthrin (2)	0.8 ounce	0.013	154.0	
	cypermethrin (2.5)	1.3 - 1.7 ounce	0.025 - 0.033	75.0 – 100.0	
	Karate Z (2.08)	0.9 - 1.3 ounce	0.015 - 0.02	142.0 – 98.0	
	lambda-cyhalothrin (1)	0.96 - 1.28 ounce	0.015 - 0.02	67.0 – 50.0	
	Lorsban (4)	32.0 ounce	1.0	4.0	
	Mustang Max (0.8)	1.3 - 2.8 ounce	0.01- 0.017	80.0 – 47.0	
	Declare (1.25)	0.77 - 1.02 ounce	0.0075 - 0.01	166.0 – 125.0	
	Fastac (0.83)	1.3 – 1.9 ounce	0.008 – 0.012	80.0 – 67.0	
Plant Bugs Cotton Fleahopper, Clouded/ Tarnished	Carbine (50)	2.3 - 2.8 ounce	0.072 - 0.089	7.0 – 8.0	Treat when 10 to 25 of these pests per 100 sweeps are found. Adjust pre-bloom treatment levels to maintain between 70 percent and 85 percent first position square retention. Control of cotton fleahoppers can usually be obtained with lower rates than the rates used to control other plant bug pests. Multiply clouded plant bug number by 1.5 when determining densities for treatment decision. NOTE: Diamond will not control adults. For adult control, tank
	Centric (40)	2.0 ounce	0.05	8.0	
	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	
	Intruder (70)	1.1 ounce	0.05	14.5	
	Trimax Pro (4.44)	1.8 ounce	0.062	71.0	
	Belay (2.13)	3.0 - 4.0 ounce	0.05 - 0.067	42.7 – 32.0	
	Transform (50)	1.5 – 2.25 ounce	0.047 – 0.071	10.5 – 7.1	
	Vydate C-LV (3.77)	4.25 – 17.0 ounce	0.121 – 0.50	30.0 – 7.5	
	Diamond (0.83)	6.0 – 12.0 ounce	0.039 - 0.078	21.3 - 10.64	

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					mix with an adulticide. Repeat applications at seven to 14 day intervals as needed to maintain control.	
Spider Mites	abamectin (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 five days.	
	Dicofol (4)	1.0 quart	1.0	4.0		
	Portal (0.4)	16.0 – 32.0 ounce	0.05 – 0.10	8.0 – 4.0		
	Oberon (4)	4.0 – 8.0 ounce	.0625 – 0.125	32.0 – 16.0		
	Zeal (72)	0.66 – 1.0 ounce	0.03 - 0.045	28.0 – 16.0		
	Agri-Mek SC (0.7)	1.75 – 3.5 ounce	0.009 – 0.019	73.1 – 36.6		
Thrips	Seed Treatment					
	acephate (90S)	8.0 ounce/100 wt				
	Gaicho Grande(Aeris)	0.375 mg AI/seed				
	Acceleron	Commercial Pre-treatment of Cruiser or Gaicho + Nematicide				
	At planting in furrow					
	acephate (90)	0.5 - 1.0 pound	0.45 - 0.9			
	Orthene (97)	0.5 - 1.0 pound	0.5 - 0.97			
	Temik (15)	3.3 - 5.0 pound	0.5-0.75			
	Admire Pro (4.6)	7.4 - 9.2 ounce	0.26 – 0.33			
	Couraze (4)	8.5 – 10.6 ounce	0.26 – 0.33			
	Foliar Sprays					
	acephate (90)	3.2 ounce	0.18	5.0	Treat when immature thrips first appear on seedling cotton before fourth true leaf. Do not apply acephate or Orthene if spider mites are present.	
	acephate (97)	3.0 ounce	0.18	5.3		
	Bidrin (8)	3.2 ounce	0.2	40.0		
	Dimethoate (4)	6.4 ounce	0.2	20.0		
	Radiant (1)	1.5 – 3.0 ounce	0.01 – 0.02	85.0 – 42.7		
	NOTE: The Cruiser (Avicta)5FS label prohibits the use of a neonicotinoid insecticide (e.g. Centric 40WG, Intruder WSP, Trimax PRO, and imidacloprid 4) for 45 days after planting (about first square). This recommendation is for resistance management and should also be practiced with Gaicho Grande treated seed. See Cruiser 5FS label for detailed restrictions.					

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Bloom to Harvest					
Beet Armyworms	Intrepid (2)	6.0-10.0 ounce	0.09-0.16	21.0-12.5	Treat when larvae are small and 5 to 6 hatch out spots (hits) are observed per 300 row feet.
	Steward (1.25)	11.3 ounce	0.11	11.5	
	Tracer (4)	2.8 ounce	0.089	45.0	
	Belt (4)	2.0 - 3.0 ounce	0.0625-0.0937	64.0 - 42.7	
	Prevathon (0.43)	14.0 – 27.0 ounce	0.047 – 0.09	9.1 – 4.7	
Bollworm	cypermethrin (2.5)	5.0 ounce	0.1	25.0	<p>Bollgard II, Widestrike or Widestrike 3: treat when 2%-3% live larvae found in fruiting forms or when 10% of plant terminals are infested with live larvae.</p> <p>Nontransgenic: Start applications when 5 worms per 100 plants plus eggs are present. Apply on an as needed basis. Shorten the application interval and add an ovicide when tobacco budworm moths are laying eggs.</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>
	Asana XL (0.66)	5.8 - 9.7 ounce	0.03 - 0.05	22.0 - 13.2	
	Baythroid XL (1)	1.9 - 2.6 ounce	0.015 - 0.0205	67.0 – 50.0	
	bifenthrin (2)	3.2 - 6.4 ounce	0.05 - 0.1	40.0 – 20.0	
	Curacron (8)	16.0 ounce	1.0	8.0	
	cyfluthrin (2)	1.6 - 2.6 ounce	0.025 - 0.041	80.0 – 50.0	
	Karate Z (2.08)	1.5 - 2.4 ounce	0.25 - 0.04	85.0 - 53.0	
	lambda-cyhalothrin (1)	1.6 - 2.56 ounce	0.025 - 0.04	80.0 – 50.0	
	Mustang Max (0.8)	2.64 - 3.6 ounce	0.017 - 0.022	47.0 – 36.0	
	Declare (1.25)	1.28 - 2.05 ounce	0.0125 - 0.02	100.0 - 62.5	
	Fastac (0.83)	2.6 – 3.6 ounce	0.017 – 0.023	49.0 – 36.0	
	Steward (1.25)	11.3 ounce	0.11	11.5	
	Tracer (4)	2.1 - 2.85 ounce	0.067 - 0.089	60.0 – 45.0	
	Belt (4)	2.0 - 3.0 ounce	0.0625-0.0937	64.0 - 42.7	
	Prevathon (0.43)	14.0 – 27.0 ounce	0.047 – 0.09	9.1 – 4.7	
Brown Stink Bugs	acephate (90)	0.8 pound	0.72	1.25	See Green Stink Bug thresholds. Premix insecticides are available for this pest. See premix table.
	Bidrin (8)	6.0 - 8.0 ounce	0.33-0.5	24.0 – 16.0	
	Vydate C-LV (3.77)	17.0 ounce	0.5	7.5	

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Cotton Aphid	Carbine (50)	1.4 - 2.8 ounce	0.044 - 0.089	11.4 - 5.7	Treat when honeydew, leaf crinkling, and stunting begin to occur uniformly. Note: if Neonicotinoid insecticides fail to provide effective control switch to Carbine 50WP or Transform 50.
	Transform (50)	0.75 – 1.0 ounce	0.023 – 0.031	21.3 – 16.0	
	Intruder(70)	0.8 - 1.1 ounce	0.035 - 0.05	20.0 - 14.5	
Fall Armyworms	Diamond (0.83)	6.0 – 12.0 ounce	0.039 - 0.077	21.3 - 10.6	Treat when egg masses or small larvae appear.
	Intrepid (2)	6.0 – 10.0 ounce	0.09-0.16	21.0-12.5	
	Tracer (4)	2.8 ounce	0.089	45.0	
	Belt (4)	2.0 - 3.0 ounce	0.0625-0.0937	64.0 - 42.7	
	Prevathon (0.43)	14.0 – 27.0 ounce	0.047 – 0.09	9.1 – 4.7	
Green Stink Bugs	acephate (90)	0.8 pound	0.72	1.25	Treat stink bugs when 1 adult/nymph are found per 6 row feet, 5 percent adults/nymphs are found in sweep nets or 15 percent to 20 percent 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.
	Baythroid XL (1)	1.6-2.6 ounce	0.0125 - 0.02	80.0 - 50.0	
	Bidrin (8)	4.0 - 8.0 ounce	0.25-0.5	32.0 – 16.0	
	bifenthrin (2)	2.6-6.4 ounce	0.04-0.1	50.0 - 20.0	
	cyfluthrin (2)	1.6 - 2.6 ounce	0.025 - 0.041	80.0 - 50.0	
	Karate Z (2.08)	1.6-2.56 ounce	0.025-0.04	80.0 - 50.0	
	lambda-cyhalothrin (2.08)	1.6 - 2.56 ounce	0.025 - 0.04	80.0 – 50.0	
	Mustang Max (0.8)	2.6-3.6 ounce	0.017-0.022	47.0 - 36.0	
	Fastac (0.83)	2.6 – 3.6 ounce	0.017 – 0.023	49.0 – 36.0	
	Declare (1.25)	1.28-2.05 ounce	0.0125-0.02	100.0 - 62.5	
	Orthene (97)	0.75 pound	0.72	1.29	
Vydate C-LV (3.77)	11.2-17.0 ounce	0.33-0.5	11.4-7.5		
Loopers	Intrepid (2)	6.0 – 10.0 ounce	0.09 - 0.16	21.0 - 12.5	Before cutout, treat when loopers cause 30 percent defoliation. After cutout treat at 45 percent defoliation.
	Steward (1.25)	9.2 ounce	0.09	14.0	
	Tracer (4)	2.1 - 2.8 ounce	0.067 - 0.089	60.0 – 45.0	
	Belt (4) SC	2.0 - 3.0 ounce	0.0625-0.0937	64.0 - 42.7	
	Prevathon (0.43)	20.0 – 29 ounce	0.067 – 0.097	6.4 – 4.4	

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Plant Bug Clouded, Tarnished	acephate (90)	0.5 - 0.8 pound	0.45 - 0.72	2.0 - 1.25	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 percent dirty squares. NOTE: Diamond will not control adults. For adult control, tank mix with an adulticide. Repeat applications at seven to 14 day intervals as needed to maintain control. Multiply clouded plant bug number by 1.5 when determining densities for treatment decision.
	acephate (97)	0.5 - 0.8 pound	0.49 - 0.078	2.0 - 1.25	
	Bidrin (8)	6.0 – 8.0 ounce	0.33 - 0.5	24.0 – 16.0	
	Diamond (0.83)*	6.0 – 12.0 ounce	0.039 - 0.078	21.3 - 10.67	
	Vydate C-LV	17.0 ounce	0.5	7.5	
	Centric 40WG	2.5 ounce	0.0625	6.4	
	Carbine 50WDG	2.8 ounce	0.089	5.7	
	Fyfanon (ULV)9.9C	16.0 ounce	1.25	8.0	
	Belay (2.13)	3.0 - 4.0 ounce	0.05-0.067	42.7 – 32.0	
	imidacloprid (4)	2.0 ounce	0.0625	64.0	
	Transform (50)	1.5 – 2.25 ounce	0.047 – 0.071	10.5 – 7.1	
Spider Mites	abamectin (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 five days. Use Abamectin With Caution: Abamectin resistance in two spotted spider mites has been detected in Louisiana.
	Comite (6.55)	24.0 ounce	1.23	5.3	
	Comite II (6.0)	24.0 – 36.0 ounce	1.1 – 1.7	5.3 – 3.5	
	Dicofol (4)	1.0 quart	1.0	4.0	
	Portal (0.4)	16.0 – 32.0 ounce	0.05 – 0.10	8.0 – 4.0	
	Oberon (4)	4.0 – 8.0 ounce	.0625 – 0.125	32.0 – 16.0	
	Zeal (72)	0.66 – 1.0 ounce	0.03 - 0.045	28.0 – 16.0	
	Agri-Mek SC (0.7)	1.75 – 3.5 ounce	0.009 – 0.019	73.1 – 36.6	
Tobacco Budworm	Curacron (8)	16.0 ounce	1.0	8.0	See bollworm threshold.
	Steward (1.25)	11.3 ounce	0.11	11.5	
	Tracer (4)	2.1 - 2.85 ounce	0.067 - 0.089	60.0 – 45.0	
	Belt (4)	2.0 - 3.0 ounce	0.0625-0.0937	64.0 - 42.7	
	Prevathon (0.43)	14.0 – 27.0 ounce	0.047 – 0.09	9.1 – 4.7	
Whitefly	acephate (90)	0.83-1.0 pound	0.75-0.9	1.2-1.0	Apply when 50 percent of plant terminals have clustering whiteflies. Control may require three to four applications at five-day intervals.
	Centric (40)	2.0 ounce	0.05	8.0	
	Intruder (70)	1.7 – 2.3 ounce	0.075 – 0.1	9.4 – 7.0	
	Transform (50)	2.0 – 2.25 ounce	0.063 – 0.071	8.0 – 6.4	
	Orthene (97)	0.8-1.0 pound	0.75-0.97	1.3-1.0	
	Oberon (4)	4.0 – 8.0 ounce	.0625 – 0.125	32.0 – 16.0	

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Premix Insectide 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 (dicotophos, bifenthrin)	8.0 – 12.8 ounce	16.0 – 10.0	Stink bugs, plant bugs, bollworms
Brigadier (imidacloprid, bifenthrin)	5.1 – 7.7 ounce	25.0 – 16.6	Stink bugs, plant bugs, bollworms
Cobalt Advanced (chlorpyrifos, lambda – cyhalothrin)	16.0 – 42.0 ounce	8.0 – 3.0	Stink bugs, plant bugs, bollworms
Endigo ZC (thiamethoxam, lambda – cyhalothrin)	3.5 – 5.5 ounce	36.6 – 25.6	Stink bugs, plant bugs, bollworms
Fyfanon Plus ULV (malathion, gamma – cyhalothrin)	8.0 – 16.0 ounce	16.0 – 8.0	Stink bugs, plant bugs, bollworms
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, bollworms
Leverage 360 (imidacloprid, beta – cyfluthrin)	3.2 ounce	40.0	Stink bugs, plant bugs, bollworms
Stallion (chlorpyrifos, zeta – cypermethrin)	9.25 – 11.75 ounce	13.8 – 10.9	Stink bugs, plant bugs, bollworms
Triple Crown (imidacloprid, zeta – cypermethrin, bifenthrin)	4.5 – 6.4 ounce	28.4 – 20.0	Stink bugs, plant bugs, bollworms