

Crops - Commercial

Pasture and Forage Crops

Insect and Crop	Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
Alfalfa Weevils					
Alfalfa	Imidan (70)	1.0-1.3 pounds	0.7-1.0	0.75-1	Treat when 50% of growing tips have feeding sign.
	Lorsban (4)	16-32 ounces	0.5-1.0	8-4	
	Baythroid XL (1)	1.6-2.8 ounces	0.0125-0.022	80-45.7	
	Mustang Maxx (0.8)	2.24-4.0 ounces	0.014-0.025	57.1-32	
	Karate Z (2.08)	1.28-1.92 ounces	0.02-0.03	100-66.7	
Aphids					
Clovers	Malathion (5)	24-32 ounces	0.94-1.25	5.3-4	
Vetches	Malathion (5)	16-32 ounces	0.63-1.25	8-4	
Sorghums	Sivanto (1.67)	4.0-7.0 ounces	0.052-0.091	32.0-18.3	7-day PHI for forage. REI: 4 hours
Armyworms and Fall Armyworms					
Pasture grasses and hay crops	Sevin/ carbaryl (4)	32-48 ounces	1.0-1.5	4-2.7	14-day PHI for grazing or harvest. REI: 12 hours.
	Blackhawk (0.36)	1.1-2.2 ounces	0.025-0.049	14.5-7.3	3-day PHI for harvest. Zero-day PHI for grazing. REI: 4 hours
	Prevathon (0.43)	14-20 ounces	0.047-0.067	9.1-6.4	Zero-day PHI for grazing or harvest. REI: 4 hours.
	Baythroid XL (1)	1.6-1.9 ounces	0.013-0.015	80-67	Zero-day PHI for grazing or harvest. REI: 12 hours.
	Declare (1.25)	1.02-1.54 ounces	0.01-0.015	125.5-83.1	Zero-day PHI for grazing and 7 days for hay. REI: 24 hours.
	Karate Z (2.08)	1.28-1.92 ounces	0.02-0.03	100-66.7	One-day PHI for grazing and 7 days for hay. REI: 24 hours.
	Mustang Maxx (0.8)	2.8-4.0 ounces	0.018-0.025	32-45.7	Zero-day PHI for grazing or hay. REI: 12 hours.
	Confirm 2F (2)	6-8 ounces	0.09-0.125	16-21.3	Zero-day PHI for grazing or harvest. REI: 4 hours.
Chinch Bugs					
Pasture grasses	Carbaryl/ Sevin (4)	32-48 ounces	1.0-1.5	4-2.7	
Forage sorghums	Carbaryl/ Sevin (4)	32-64 ounces	1.0-2.0	4-2	
Clover Head Weevils					
Clovers	Brigade (2 EC)	6.4 ounces	0.1	20	Examine seed heads. Treat when 10% to 20% seed heads are infested with larvae.

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Imported Fire Ants					
Pasture grasses	Amdro Pro (hydamethylnon)		1.0-1.5 pounds/acre or 5 Tbs. /mound		Apply fire ant baits when soil temperature is 60 F or higher and rain is not forecast.
	Sevin (carbaryl)	Use as a mound drench as per label instructions.			
	Extinguish (methoprene)		1.0-1.5 pounds/acre or 3-5 Tbs./mound		
	Logic* (fenoxycarb)		1.0-1.5 pounds/acre or 1-3 Tbs./mound		Horse pastures only.
	Justice (spinosad)		4-6 Tbs./mound		Do not broadcast.
	Esteem (pyriproxifen)		1.5-2.0 pounds/acre or 2-4 Tbs./mound		
	A reduction of approximately 50% in mound number and mound size may be obtained by dragging pastures and disrupting ant mounds two times per winter shortly before and/or during the time the air temperature is 32 F or lower.				
Leaf Hoppers					
Pasture grasses and alfalfa	Carbaryl/ Sevin (4)	32.0 ounces	1.0	4	Close graze or harvest bermudagrass pastures at 6-inch height to reduce leafhopper/plant hopper populations.
Plant Bugs					
Clovers and legumes	Malathion (5)	24.0-32.0 ounces	0.94-1.25	5.3-4	Seed crop only.
Spider Mites					
Clovers	Malathion* (5)	24.0-32.0 ounces	0.94-1.25	5.3-4	Horse pastures only. Most insecticides are toxic to bees. Avoid treating pollinating forages when bees are active.
Spittle Bugs					
Bermudagrass	No chemical control is recommended. Prevent a dense mat of grass from forming by grazing or by close mowing and raking.				
Spotted Alfalfa Aphids					
Alfalfa	Malathion (5)	24.0-32.0 ounces	0.93-1.25	5.3-4	Avoid treating pollinating forages when bees are active.
	Dimethoate	8.0-16.0 ounces	0.25-0.5	16-8	

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	Mustang Maxx (0.8)	2.24-4.0 ounces	0.014-0.025	57.1-32	
	Lorsban (4)	16.0-32.0 ounces	0.5-1.0	8-4	

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Insecticide Limitations (refer to insecticide label for complete information)
Most insecticides are toxic to bees. Avoid treating pollinating forages when bees are active.
Amdro Pro: PHI: 7 days for cutting and baling hay. Maximum applications per year: Four.
Baythroid XL: Extremely toxic to fish and aquatic invertebrates. Avoid drift, runoff and direct application to water. PHI: 0 day for grazing and harvest. REI: 12 hours.
Confirm: PHI: 0 day for grazing or harvest. REI: 4 hours.
Dimethoate: PHI: 10 days for grazing or harvest. REI: 48 hours.
Esteem: PHI: 1 day.
Extinguish: PHI: 0 day.
Imidan: PHI: 7 days for grazing or harvest. REI: 5 days.
Justice: No grazing restrictions.
Karate Z: PHI: 1 day for forage, 7 days for hay. REI: 24 hours.
Lannate: PHI: 7 days for grazing or harvest. REI: 48 hours.
Logic: For use on HORSE PASTURES only.
Lorsban: PHI: 14 days for 0.5 pound AI/ acre rate, grazing or cutting. REI: 24 hrs.
Malathion: PHI: 0 day for grazing or harvest. REI: 12 hours.
Mustang Maxx: PHI: 3 days for cutting or grazing, 7 days for seed. REI: 12 hours.
Prevathon: PHI: 0 day. REI: 4 hours.
Sevin (Alfalfa, Clovers): PHI: 7 days for grazing or harvest. REI: 12 hours.
Sevin (Pastures): PHI: 14 days for grazing or harvest in improved pasture; 0 days for rangeland (no improvements). REI: 12 hours.
Tracer: Toxic to bees and mollusks. PHI: 3 days for hay or fodder, 0 day for forage. REI: 4 hours.
Abbreviations: REI: Re-entry interval. AI: Active ingredient. PHI: Pre-harvest interval.