

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	phosmet Imidan (70)	1.0-1.3 pounds	0.7-1.0	0.75-1	Treat when 50% of growing tips have feeding sign.
	chlorpyrifos Lorsban (4)	16-32 ounces	0.5-1.0	8-4	
	β-cyfluthrin Baythroid XL (1)	1.6-2.8 ounces	0.0125-0.022	80-45.7	
	z-cypermethrin Mustang Max(0.8)	2.24-4.0 ounces	0.014-0.025	57.1-32	
	lambda-cyhalothrin Karate Z (2.08)	1.28-1.92 ounces	0.02-0.03	100-66.7	
Aphids					
Clovers	malathion Malathion (5)	24-32 ounces	0.94-1.25	5.3-4	
Vetches	malathion Malathion (5)	16-32 ounces	0.63-1.25	8-4	
Sorghums	flupyradifurone 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	carbaryl Sevin (4)	32-48 ounces	1.0-1.5	4-2.7	14-day PHI for grazing or harvest. REI: 12 hours.
	spinosad 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
	chlorantraniliprole Prevathon (0.43)	14-20 ounces	0.047-0.067	9.1-6.4	Zero-day PHI for grazing or harvest. REI: 4 hours.
	beta-cyfluthrin Baythroid XL (1)	1.6-1.9 ounces	0.013-0.015	80-67	Zero-day PHI for grazing or harvest. REI: 12 hours.
	gamma-cyhalothrin 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.
	lambda-cyhalothrin 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.
	z-cypermethrin Mustang Max(0.8)	2.8-4.0 ounces	0.018-0.025	32-45.7	Zero-day PHI for grazing or hay. REI: 12 hours.
	tebufenozide Confirm (2)	6-8 ounces	0.09-0.125	16-21.3	Zero-day PHI for grazing or harvest. REI: 4 hours.
diflubenzuron Dimilin (2)	2.0 ounce	0.031	64.0	One-day PHI for grazing or harvest. REI: 12 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	

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Clover Head Weevils					
Clovers	bifenthrin Brigade (2)	6.4 ounces	0.1	20	Examine seed heads. Treat when 10% to 20% seed heads are infested with larvae.
Imported Fire Ants					
Pasture grasses	hydramethyl-non Amdro Pro		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.
	carbaryl Sevin	Use as a mound drench as per label instructions.			
	Extinguish methoprene Extinguish		1.0-1.5 pounds/acre or 3-5 Tbs./mound		
	Logic* fenoxycarb Logic*		1.0-1.5 pounds/acre or 1-3 Tbs./mound		Horse pastures only.
	spinosad Justice		4-6 Tbs./mound		Do not broadcast.
	pyriproxifen Esteem		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

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					leafhopper/plant hopper populations.
Plant Bugs					
Clovers and legumes	malathion Malathion (5)	24.0-32.0 ounces	0.94-1.25	5.3-4	Seed crop only.
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 Malathion (5)	24.0-32.0 ounces	0.93-1.25	5.3-4	Avoid treating pollinating forages when bees are active.
	dimethoate Dimethoate (4)	8.0-16.0 ounces	0.25-0.5	16-8	
	z-cypermethrin Mustang Max (0.8)	2.24-4.0 ounces	0.014-0.025	57.1-32	
	chlorpyrifos Lorsban (4)	16.0-32.0 ounces	0.5-1.0	8-4	

Pasture and Forage Crops
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.
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.

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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.
Abbreviations: REI: Re-entry interval. AI: Active ingredient. PHI: Pre-harvest interval.