

# 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
<b>Alfalfa Weevils</b> in 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.
	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	
<b>Aphids</b> in Clovers	malathion Malathion (5)	24-32 ounces	0.94-1.25	5.3-4	
<b>Aphids</b> in Vetches	malathion Malathion (5)	16-32 ounces	0.63-1.25	8-4	
<b>Aphids</b> in 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
<b>Armyworms and Fall Armyworms</b> in 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 Vantacor (5)	1.2 – 2.5 ounces	0.047-0.098	106.7 – 51.2	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 harvest. REI: 24 hours.
	lambda-cyhalothrin Warrior II (2.08)	1.28-1.92 ounces	0.02-0.03	100-66.7	One-day PHI for grazing and 7 days for harvest. 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 harvest. 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
	methoxyfenozide Intrepid (2)	4.0 – 8.0 ounces	0.06 – 0.12	32.0 – 16.0	Zero-day PHI for grazing and 7 days for harvest. REI: 4 hours
<b>Chinch Bugs</b> in Pasture grasses	carbaryl Sevin (4)	32-48 ounces	1.0-1.5	4-2.7	
<b>Chinch Bugs</b> in Forage sorghums	carbaryl Sevin (4)	32-64 ounces	1.0-2.0	4-2	
<b>Clover Head Weevils</b> in Clovers	bifenthrin Brigade (2)	6.4 ounces	0.1	20	-Examine seed heads. Treat when 10% to 20% seed heads are infested with larvae.

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<b>Imported Fire Ants</b> in 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. -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.
	carbaryl Sevin	Use as a mound drench as per label instructions.			
	methoprene Extinguish		1.0-1.5 pounds/acre or 3-5 Tbs./mound		
	fenoxycarb Logic*	*Horse pastures only.	1.0-1.5 pounds/acre or 1-3 Tbs./mound		
	spinosad Justice	Do not broadcast.	4-6 Tbs./mound		
	pyriproxifen Esteem		1.5-2.0 pounds/acre or 2-4 Tbs./mound		
<b>Leaf Hoppers</b> in 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.
<b>Plant Bugs</b> in Clovers and legumes	malathion Malathion (5)	24.0-32.0 ounces	0.94-1.25	5.3-4	Seed crop only.
<b>Spittle Bugs</b> in Bermudagrass	No chemical control is recommended. Prevent a dense mat of grass from forming by grazing or by close mowing and raking.				
<b>Spotted Alfalfa Aphids</b> in 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	

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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.

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

- **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.
- **Logic:** For use on HORSE PASTURES only.
- **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.
- **Vantacor:** 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.
- **Warrior II:** PHI: 1 day for forage, 7 days for hay. REI: 24 hours.