Pasture and Forage Crops

Table 1. Alfalfa Weevils in Alfalfa

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
phosmet Imidan (70W)	1.0-1.3 pounds	0.7-1.0	0.75-1	• Treat when 50% of growing tips have feeding signs.
β-cyfluthrin Baythroid XL (1EC)	1.6-2.8 ounces	0.0125-0.022	80-45.7	
z-cypermethrin Mustang Maxx(0.8EC)	2.24-4.0 ounces	0.014-0.025	57.1-32	
lambda-cyhalothrin Karate Z (2.08EC)	1.28-1.92 ounces	0.02-0.03	100-66.7	

Table 2. Aphids in clovers

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
malathion Malathion (5)	24-32 ounces	0.94-1.25	5.3-4	none

Table 3. Aphids in vetches

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
malathion Malathion (5EC)	16-32 ounces	0.63-1.25	8.0-4.0	none

Table 4. Aphids in sorghums

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
flupyradifurone Sivanto (1.67SC)	4.0-7.0 ounces	0.052-0.091	32.0-18.3	7-day PHI for forage. REI: 4 hours

Table 5. Armyworms and fall armyworms in pasture grasses and hay crops

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
carbaryl Sevin (4F)	32-48 ounces	1.0-1.5	4-2.7	14-day PHI for grazing or harvest. REI: 12 hours.
spinosad Blackhawk (0.36WG)	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 (5SC)	1.2-2.5 ounces	0.047-0.098	106.7-51.2	0-day PHI for grazing or harvest. REI: 4 hours.
beta-cyfluthrin Baythroid XL (1EC)	1.6-1.9 ounces	0.013-0.015	80-67	0-day PHI for grazing or harvest. REI: 12 hours.
gamma-cyhalothrin Declare (1.25CS)	1.02-1.54 ounces	0.01-0.015	125.5-83.1	0-day PHI for grazing and 7 days for harvest. REI: 24 hours.
lambda-cyhalothrin Warrior II (2.08CS)	1.28-1.92 ounces	0.02-0.03	100-66.7	1-day PHI for grazing and 7 days for harvest. REI: 24 hours.
z-cypermethrin Mustang Maxx(0.8EC)	2.8-4.0 ounces	0.018-0.025	32-45.7	0-day PHI for grazing or harvest. REI: 12 hours.
tebufenozide Confirm (2F)	6-8 ounces	0.09-0.125	16-21.3	0-day PHI for grazing or harvest. REI: 4 hours.
diflubenzuron Dimilin (2L)	2.0 ounce	0.031	64	1-day PHI for grazing or harvest. REI: 12 hours.
methoxyfenozide Intrepid (2F)	4.0-8.0 ounces	0.06-0.12	32.0-16.0	0-day PHI for grazing and 7 days for harvest. REI: 4 hours.

Table 6. Chinch bugs in pasture grasses

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
carbaryl Sevin (4F)	32-48 ounces	1.0-1.5	4-2.7	

Table 7. Chinch bugs in forage sorghums

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
carbaryl Sevin (4F)	32-64 ounces	1.0-2.0	4.0-2.0	

Table 8. Clover head weevils in clovers

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
bifenthrin Brigade (2EC)	6.4 ounces	0.1	20	• Examine seed heads. Treat when 10% to 20% seed heads are infested with larvae.

Table 9. Imported fire ants in pasture grasses

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
hydramethyl-non Amdro Pro	See label	1.0-1.5 pounds/acre or 5 Tbs. /mound	See label.	• 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 2 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.	See label.	See label.	
methoprene Extinguish	See label	1.0-1.5 pounds/acre or 3-5 Tbs./mound	See label.	
fenoxycarb Logic	Horse pastures only.	1.0-1.5 pounds/acre or 1-3 Tbs./mound	See label.	
spinosad Justice	Do not broadcast.	4-6 Tbs./mound	See label.	
pyriproxifen Esteem	See label	1.5-2.0 pounds/acre or 2-4 Tbs./mound	See label.	

Table 10. Leaf hoppers in pasture grasses and alfalfa

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
carbaryl Sevin (4F)	32.0 ounces	1	4	• Close graze or harvest bermudagrass pastures at 6-inch height to reduce leafhopper/plant hopper populations.

Table 11. Plant bugs in clovers and legumes

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
malathion Malathion (5EC)	24.0-32.0 ounces	0.94-1.25	5.3-4	Seed crop only.

Table 12. Spittle bugs in bermudagrass

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
No chemical control is recommended. Prevent a dense mat of grass from forming by grazing or by close mowing and raking.				

Table 13. Spotted alfalfa aphids in alfalfa

Insecticide	Amount of Concentrate per Acre	Pounds Active Ingredient per Acre	Acres Treated per Gallon or Pound SP	Comments
malathion Malathion (5EC)	24.0-32.0 ounces	0.93-1.25	5.3-4	• Avoid treating pollinating forages when bees are active.
dimethoate Dimethoate (4EC)	8.0-16.0 ounces	0.25-0.5	16-8	
z-cypermethrin Mustang Maxx (0.8EC)	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.