

ARMYWORM CONTROL – PASTURES / HAY, May 2011						
	Active Ingredient	Price*	Application Rate	Cost per acre	Grazing and Harvesting Restrictions	Remarks
<b>Malathion 57%, Malathion ULV</b>	Malathion	\$49.54 / gal	2 pt / acre	\$12.39	Harvest or Graze - 0 d	May be applied on the day of harvest or grazing.
			1.5 pt in 1 gal diesel or fuel oil / acre	\$9.29		
<b>Mustang Max</b>	Zeta-cypermethrin	\$213.27 / gal	2.8 fl oz / acre	\$4.67	Cutting & Hay - 0 d; Forage, Straw & Seed Screening - 7 d: Alfalfa & non-grass feed - 3 d harvest or graze	The restricted entry interval (REI) is 12 hours for all labeled crops. Do not make applications less than 7 days apart. Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage.
			3.0 fl oz / acre	\$5.00		
			3.5 fl oz / acre	\$5.83		
			4.0 fl oz / acre	\$6.66		
<b>Tracer</b>	Spinosad	\$850.00 / gal	1 fl oz / acre	\$6.64	Hay or fodder - 3 d; Forage - 0 d; No grazing until spray has dried	Treat when economic thresholds are exceeded, targeting eggs at hatch or small larvae. Do not apply more than 3 times in any 21-day period. Do not make more than 6 applications per season. Treat when eggs hatch and larvae are small
			1.5 fl oz / acre	\$9.96		
			2 fl oz / acre	\$13.28		
<b>Sevin 4F, Sevin XLR</b>	Carbaryl	\$126.19 / 2.5 gal	1 qt / acre	\$12.61	Harvest or grazing - 14 d	Up to 2 applications per year may be made but not more often than once every 14 days. Carefully mark swaths to avoid over-application.
			1.5 qt / acre	\$18.92		
<b>Dimilin 2L</b>	Diflubenzuron	\$247.57 / 1 gal	2 fl oz / acre	\$3.87	Cutting - 1 d	The restricted entry interval (REI) is 12 hours for all labeled crops. Do not exceed a total of 2 fl oz per acre per cutting. Do not exceed a total of 6 fl oz per acre per year. For maximum control use at first sign of hatch outs and prior to larvae reaching fourth instars (<1/2 inch). Must be ingested and larvae must molt before populations are reduced.
<b>Warrior</b>	Lambda-cyhalothrin		2.56 fl oz / acres		Harvest or straw – 7 d; Graze or forage – 0 d	Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. No more than 11.52 fl oz/acre/season.
			3.84 fl oz / acre			
<b>Intrepid 2F</b>	Methoxyfenozide	\$261.52 / gal	4 fl oz / acre	\$8.17	Hay - 7 d harvest; Forage - 0 d harvest	Only effective on Lepidoptera. Begin applications when first signs of feeding damage appear or when threshold levels of feeding damage occur. Use higher rate for heavier infestations and under conditions in which thorough coverage is more difficult.
			5 fl oz / acre	\$10.22		
			6 fl oz / acre	\$12.26		
			7 fl oz / acre	\$14.30		
<b>Lannate (Bermudagrass pasture ONLY)</b>	Methomyl	\$202.88 / 2.5 gal	8 fl oz / acre	\$16.35	Feeding forage or graze - 7 d; Hay cutting - 3 d	Do not make more than 4 applications / crop. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.
			3/4 pt / acre	\$7.61		
			1 pt / acre	\$10.14		
			2 pt / acre	\$20.28		
<b>Karate Z</b>	Lambda-cyhalothrin	\$180.00 / gal	3 pt / acre	\$30.42	Forage, graze or cut - 0 d; Hay - 7 d	Use higher application volumes and rates when foliage is dense, pest populations are high, larvae are large and/or weather conditions are adverse. A minimum re-treat interval (REI) of 30 days is required for pastures and rangeland receiving 1.92 fl oz per acre which have not been cut between applications.
			1.28 fl oz / acre	\$1.80		
			1.92 fl oz / acre	\$2.70		
<b>Baythroid XL</b>	Beta-cyfluthrin	\$345.00 gal	2.6 fl oz / acre	\$7.01	Grass for Hay, Pasture, Rangeland & Seed - 0 d; Grass in mixed-stands with Alfalfa - 7 d	For control of 1 <sup>st</sup> and 2 <sup>nd</sup> instar (larvae 1/4 inch long and less).
			2.8 fl oz / acre	\$7.55		

\*Price shown is approximate. Actual price will vary. For educational use only. Pesticide user must read and follow all label directions.

ARMYWORM CONTROL – PASTURES / HAY, 2011						
	Active Ingredient	Price*	Application Rate	Cost per acre	Grazing and Harvesting Restrictions	Remarks
<b>Methyl Parathion</b>	Methyl parathion		1.5 pt		Wait 15 days before Harvest or Graze	For armyworms up to 3 <sup>rd</sup> instar. Restricted use pesticide Danger. Poison

Armyworm Control WHEAT						
	Active Ingredient	Price*	Application Rate	Cost / acre	Grazing Restrictions	Remarks
<b>Baythroid XL</b>	Beta-cyfluthrin	\$345.00 / gal	1.8 fl oz / acre	\$4.86	Graze or forage – 3d; Harvest – 30 d	For best control, applications must be made prior to insects damaging the plants. Use the higher rate for applications occurring after plant damage has taken place. For control of 1 <sup>st</sup> and 2 <sup>nd</sup> instar (larvae 1/4 inch long and less).
			2.0 fl oz / acre	\$5.40		
			2.4 fl oz / acre	\$6.48		
<b>Karate Z</b>	Lambda-cyhalothrin	\$180.00 / gal	1.28 fl oz / acre	\$1.80	Graze - 7 d; Feed to meat or dairy animals within 30 d	May be applied through a sprinkler irrigation system. Apply as required by scouting, usually at intervals of 5 or more days. Do not apply more than 3.84 fl oz per acre per season.
			1.92 fl oz / acre	\$2.71		
<b>Lannate</b>	Methomyl	\$202.88 / 2.5 gal	0.75 pt / acre	\$7.61	Harvest, Forage or Hay – 14 d	Must wait 48 hours before re-entering after application. Do not make more than two applications per crop.
			1 pt / acre	\$10.14		
			1.5 pt / acre	\$15.21		
<b>Lorsban</b>	Chlorpyrifos	\$119.00 / 2.5 gal	1 pt / acre	\$5.95	Harvest for forage and hay – 14 d; Harvest for grain and straw – 28 d	The restricted entry interval (REI) is 24 hours unless PPE required for early entry is worn. Suppression should be expected under conditions of heavy pest populations or large worms.
<b>Cobalt</b>	Chlorpyrifos and Gamma-cyhalothrin		13-25 ounces per acre		Do not harvest or graze within 7 days. Do not feed straw within 30 days	Control may be reduced under high temperature conditions (greater than 80F), under dry soil conditions or if larvae are mot than ½ inch long
<b>PennCap M</b>	Methyl parathion		2-3 pints/acre		Do not apply within 14 days of harvest or grazing	Restricted use pesticide. Warming
<b>Methyl Parathion</b>	Methyl parathion		1.5 pts/acre		15 days harvest	For armyworms up to 3 rd instar. Restricted use pesticide. Danger. Poison
<b>Mustang Max</b>	Zeta-cypermethrin	\$213.27 / gal	3.2 fl oz / acre	\$5.34	Harvest for grain, forage and hay - 14 d	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
			3.5 fl oz / acre	\$5.84		
			4.0 fl oz / acre	\$6.68		
<b>Proaxis</b>	Gamma-cyhalothrin	\$275.00 / gal	2.56 fl oz / acre	\$5.50	Harvest - 30 d	Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations.
			3.84 fl oz / acre	\$8.26		
<b>Tracer</b>	Spinosad	\$850.00 / gal	1.5 fl oz / acre	\$9.96	Harvest for grain or fodder - 7 d; Harvest forage - 14 d; No grazing until spray has dried	Scout enough to monitor egg laying and egg hatch and treat when thresholds are reached. Applications perform best when timed to coincide with peak egg hatch of each generation. Do not make more than 2 consecutive applications; rotate to another class of insecticides if another application is needed.
			2 fl oz / acre	\$13.28		
			3 fl oz/acre	\$19.92		
<b>Warrior</b>	Lambda-cyhalothrin		2.56 fl oz / acre		Harvest or straw – 30 d; Graze – 7 d	Apply as required by scouting, usually at intervals of 5 or more days. . No more than 3.84 fl oz/acre/season.
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