

2014

Fire Ant Products for Tennessee's Schools

Sorted By Active Ingredient

Intended as a supplement to UT Extension PB1788 Managing Fire Ants in and Around Schools,
<https://utextension.tennessee.edu/publications/Pages/pestMngmt.aspx>

One of the most efficient ways to manage fire ants on school grounds is to broadcast a fire ant bait. Treating individual mounds can be expensive and requires more time and effort to scout for all the mounds, and often the smaller mounds are overlooked. In this publication you'll find a list of fire ant baits and their estimated costs. Products and their estimated costs are also listed for individual mound treatments or other broadcast applications should these be deemed necessary as suggested in PB1788. If baits are broadcasted twice a year, often other treatments are not needed. This is not a complete listing of all fire ant management products. Prices will vary but are provided to give a relative comparison of cost.

Fire Ant Products for Tennessee's Schools

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Bait Fire Ant Products Labeled for Schools

Bait Active ingredient	Trade Name	EPA Reg #	Broadcast	Individual Mounds	Interior ¹
Abamectin B ₁	Abathor Fire Ant Bait	83923-7	X	X	X
Abamectin B ₁	Prescription Treat. Ascend Fire Ant Bait Formula 1	499-370	X	X	X
Fenoxycarb (IGR)	Award	100-722	X	X	
Fipronil	Maxforce FC Fire Ant Bait	432-1433	X	X	
Hydramethylnon	Amdro Pro Fire Ant Bait	241-322	X	X	
Hydramethylnon	Amdro Pro Fire Ant Killer	241-322-73342	X	X	
Hydramethylnon	Probait Formulation For Professionals	73342-1-2724	X	X	
Hydramethylnon + methoprene (IGR)	Extinguish Plus	2724-496	X	X	X
Indoxacarb	Dupont Advion Fire Ant Bait	352-627	X	X	
Methoprene (IGR)	Extinguish	2724-475	X	X	X
Pyriproxyfen (IGR)	Distance Fire Ant Bait	1021-1728-59639	X	X	
Spinosad	Ferti-lome Come and Get It	62719-329-7401	X	X	

¹ Interior treatments should be applied as crack and crevice and only when children are not present unless the label states otherwise.

Apply to cracks and crevices where insects may enter the building such as around doors, windows, pipes, vents, weep holes, under siding and in wall voids.

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Estimated Cost for Fire Ant Baits Used Around Schools 2009

Bait Active Ingredient	Trade Name	Cost per acre	Cost/1,000 sq ft	Cost/ 10 mounds
Abamectin B ₁	Prescription Treat. Ascend Fire Ant Bait Formula 1	\$6.54	\$0.16	\$0.74
Pyriproxyfen (IGR)	Distance Fire Ant Bait	\$10.50	\$0.19	
Hydramethylnon	Probait Formulation For Professionals	\$10.71	\$0.25	
Methoprene (IGR)	Extinguish ¹	\$13.00	\$0.30	
Hydramethylnon	Amdro Pro Fire Ant Bait	\$13.14	\$0.30	
Fenoxycarb (IGR)	Award	\$16.68	\$0.38	
Hydramethylnon	Amdro Fire Ant Bait ¹	\$19.00	\$0.43	\$5.46
Abamectin B ₁	Prescription Treat. Advance 375 A Select Granular Ant Bait	\$19.98	\$0.50	\$22.47
Hydramethylnon + methoprene (IGR)	Extinguish Plus ¹	\$21.00	\$0.49	
Hydramethylnon	Maxforce Fire Ant Killer Granular Bait	\$22.50	\$0.56	\$7.03
Indoxacarb	Dupont Advion Fire Ant Bait	\$24.63	\$0.56	
Fipronil	Maxforce FC Fire Ant Bait	\$30.94	\$0.70	
Spinosad	Ferti-lome Come and Get It ¹	\$54.00	\$1.41	\$5.75
Hydramethylnon + methoprene (IGR)	Amdro Firestrike Fire Ant Bait ¹	\$113.00	\$2.59	
Fipronil	Ceasefire Fire Ant Bait Insecticide	\$115.21	\$2.62	
Hydramethylnon	Amdro Fire Ant Bait Yard Treatment ¹	\$141.00	\$3.25	
Hydramethylnon + methoprene (IGR)	Amdro Firestrike Fire Ant Bait Mound Treatment ¹			\$5.18

¹ Costs taken from 2009 Fire Ant Control Material for Alabama Homeowners, <http://www.aces.edu/pubs/docs/A/ANR-0175-A/>
or calculated from price provided by a distributor

Granular Fire Ant Products Labeled for Schools

Granular Active Ingredient	Trade Name	EPA Reg #	Broadcast	Individual Mound	Perimeter
Bifenthrin	Bifen L/P Insecticide Granules	53883 –124	X	X	X
Bifenthrin	Howard Johnsons Bifenthrin Granular 1	Bifenthrin	X	X	X
Bifenthrin	Southern Ag Lawnstar Insecticide Granules	70506-73-829	X	X	
Bifenthrin	Talstar EZ or PL	279-3168	X	X	X
Bifenthrin	Wisdom EZ or Lawn Granular	5481-521	X	X	X
Deltamethrin	DeltaGard G Insecticide Granule	432-836	X	X	
Fipronil	TopChoice Insecticide ¹	432-1217	X		
Hexa-Hydroxyl	EcoExempt G Granular Insecticide		X	X	X
Zeta-cypermethrin & Bifenthrin	Talstar EXTRA	279-3343	X	X	

¹ Restricted use pesticide must be applied by a certified applicator.

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Estimated Cost for Contact Granular Insecticides Used On School Grounds 2009

Granular Active Ingredient	Trade Name	Cost per acre	Cost/1,000 sq ft	Cost/ 10 mounds
Bifenthrin	Wisdom Lawn Granular	\$80.00	\$1.79	
Bifenthrin	Hi-Yield Bug Blaster Turf Insect Control Granules ¹	\$130.00	\$2.98	
Bifenthrin	Talstar EZ	\$160.74	\$3.70	
Fipronil	TopChoice Insecticide	\$290.01	\$6.67	
Hexa-Hydroxyl	EcoExempt G Granular Insecticide			?

Costs calculated from price provided by a distributor or

¹ Costs taken from 2009 Fire Ant Control Material for Alabama Homeowners, <http://www.aces.edu/pubs/docs/A/ANR-0175-A/>

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Liquid Fire Ant Products Labeled for Schools

Liquid Active Ingredient	Trade Name	EPA Reg #	Broadcast	Individual Mound	Interior ¹	Perimeter
Bifenthrin	Bifen I/T	53883-118	X	X		
Bifenthrin	Masterline Bifenthrin 7.9 Termiticide/Insecticide	73748-7	X	X		
Bifenthrin	Menace 7.9% Flowable	228-451	X	X		X
Bifenthrin	Speckoz Bifenthrin Termiticide/Insecticide	279-3206-72113	X	X	X	
Bifenthrin	Talstar P	279-3206	X	X		
Bifenthrin	Wisdom TC Flowable	5481-520	X	X		
β-Cyfluthrin	TempoSC Ultra	432-1363		X		X
Cyfluthrin	Cy-Kick CS	499-304			X	
D-Limonene	Orange Guard	61887-2-AA		X	X	X
Deltamethrin	Suspend SC	432-763		X	X	X
Deltamethrin	Suspend Polyzone	432-1514		X		X
Dinotefuran	Alpine Pressurized Insecticide	499-531			X	X
Gamma-Cyhalothrin	Optimate CS	57760-104-53883	X	X	X	
Lambda-Cyhalothrin	Cyzmic CS	53883-261	X	X		
Lambda-Cyhalothrin	Demand CS	100-1066	X	X		
Lambda-Cyhalothrin	P T Cyhalocap CS	499-535			X	X
Lambda-Cyhalothrin	Scimitar CS	100-1078	X	X		
Permethrin	Astro Insecticide	279-3141	X	X		X
Permethrin	Martin's Permethrin SFR Termiticide/Insecticide	70506-6-53883		X		
Permethrin	Permethrin CS	53883-282		X	X	X
2 Phenyethyl Propionate, Thyme oil, Pyrethrins	EcoPCO WP X Wettable Powder Insecticide	67425-25		X		
Thiamethoxam	Optigard Flex	100-1306		X		

¹ Interior treatments should be applied as crack and crevice and only when children are not present unless the label states otherwise.

Apply to cracks and crevices where insects may enter the building such as around doors, windows, pipes, vents, weep holes, under siding and in wall voids.

Estimated Cost of Liquid Insecticides Broadcasted or Applied to Mounds on School Grounds 2009

Liquid Active Ingredient	Trade Name	Cost per acre	Cost per 1,000 sq ft	Cost/ 10 mounds
Bifenthrin	Wisdom TC Flowable	\$17.37	\$0.40	\$1.04
Bifenthrin	Masterline Bifenthrin 7.9 Termiticide/Insecticide	\$21.41		\$1.28
Acephate	Acephate E 75 WP ¹			\$2.22
Bifenthrin	Hi-Yield Big Blaster II Turf, Termite, and Ornamental Insect Control (liquid concentrate) ¹	\$93.00	\$2.14	\$3.44
Bifenthrin	Bifen I/T ¹			\$4.12
Bifenthrin	Menace 7.9% Flowable	\$88.36	\$2.03	\$5.28
Bifenthrin	Talstar P Insecticide			\$11.13
Lambda-cyhalothrin	Scimitar CS	\$50.29	\$1.20	\$20.12
2 Phenyethyl Propionate, Thyme oil, Pyrethrins	EcoPCO WP X Wettable Powder Insecticide			\$25.20
D-Limonene	Orange Guard			\$27.50
Permethrin	Astro Insecticide	\$13.92	\$0.32	\$32.40
Permethrin	Permethrin Pro Termite, Turf, Ornamental	\$36.11	\$0.83	\$33.00
Deltamethrin	Suspend			\$38.32
Thiamethoxam	Optigard Flex			\$43.88
B-Cyfluthrin	Tempo SC Ultra		\$3.00	

Costs calculated from price provided by a distributor or

¹ Costs taken from 2009 Fire Ant Control Material for Alabama Homeowners, <http://www.aces.edu/pubs/docs/A/ANR-0175-A/>

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Dust Fire Ant Products Labeled for Schools

Dust Active Ingredient	Trade Name	EPA Reg #	Individual Mounds	Interior ¹	Perimeter
Deltamethrin	DeltaDust Insecticide	432-772	X		
Cyfluthrin	Tempo 1 % Dust Insecticide RTU	432-1373	X		
Diatomaceous earth	Mother Earth D Pest Control Dust	499-509		X	X
Pyrethrins, PBO, Silicon Dioxide	Bombs Away	10088-93-1553	X	X	
Pyrethrins, PBO, Silicon Dioxide	Demise Fire Ant & Insect Dehydrator	10088-93-68562	X	X	
Pyrethrins, PBO, Silicon Dioxide	WildFire Fire Ant and Insect Dehydrator	10088-93-11547	X	X	
Zeta-Cypermethrin	Cynoff Dust Insecticide	279-3259		X	X

¹ Interior treatments should be applied as crack and crevice and only when children are not present unless the label states otherwise.

Apply to cracks and crevices where insects may enter the building such as around doors, windows, pipes, vents, weep holes, under siding and in wall voids.

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Estimated Cost for Dust Insecticides to be Applied to Individual Fire Ant Mounds on School Grounds 2009

Dust Active Ingredient	Trade Name	Cost/ 10 mounds
Acephate	Surrender Fire Ant Killer ¹	\$1.92
Acephate	Hi-Yield Acephate Fire Ant Killer ¹	\$2.96
Deltamethrin	DeltaDust Insecticide ¹	\$5.87
Cyfluthrin	Tempo 1 % Dust Insecticide RTU	?

Costs calculated from price provided by a distributor or

¹ Costs taken from 2009 Fire Ant Control Material for Alabama Homeowners, <http://www.aces.edu/pubs/docs/A/ANR-0175-A/>

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Dust Fire Ant Products Labeled for Motor Housings, Switch Boxes, Junction Boxes, & Conduits in Schools

Dust Active Ingredient	Trade Name	EPA Reg #	Individual Mounds	Interior ¹	Perimeter	Motor housings, switch boxes, junction boxes, conduits ²
Diatomaceous earth	Mother Earth D Pest Control Dust	499-509		X	X	X
Pyrethrins, PBO, Silicon Dioxide	Bombs Away	10088-93-1553	X	X		X
Pyrethrins, PBO, Silicon Dioxide	Demise Fire Ant & Insect Dehydrator	10088-93-68562	X	X		X
Pyrethrins, PBO, Silicon Dioxide	WildFire Fire Ant and Insect Dehydrator	10088-93-11547	X	X		X
Zeta-Cypermethrin, PBO	Cynoff Insectide	279-3259		X	X	X

¹ Interior treatments should be applied as crack and crevice and only when children are not present unless the label states otherwise.

Apply to cracks and crevices where insects may enter the building such as around doors, windows, pipes, vents, weep holes, under siding and in wall voids.

²For safety reasons, only electricians or licensed pest control operators should treat electrical equipment. Specialized products and training are necessary to treat these sites safely and effectively.

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Speed and Mode of Action of Active Ingredients in Fire Ant Products

Common name of active ingredients	Signal Word ¹	Speed of control	Mode of Action or How it works
(S)-methoprene	Caution	3 to 6 months bait	stops production of new fire ants (igr)
(S)-methoprene,hydramethylnon	Caution	2 to 4 weeks	mix of two types of baits (see (S)-methoprene,hydramethylnon)
abamectin B1	Caution	2 to 8 weeks bait	kills workers as well as queens
acephate	Caution	1 to 2 days	contact insecticide
beta-cyfluthrin	Caution	1 to 2 days	contact insecticide
bifenthrin	Caution	1 to 2 days	contact insecticide
carbaryl	Caution	1 to 2 days	contact insecticide
cypermethrin	Caution to Warning	1 to 2 days	contact insecticide
D-limonene	Caution	1 to 2 days	contact insecticide
deltamethrin	Caution	1 to 2 days	contact insecticide
fenoxycarb	Caution	2 to 4 weeks	stops production of new fire ants (igr)
fipronil	Caution	3 to 4 weeks	slow-acting insecticide
gamma-cyhalothrin	Caution	1 to 2 days	contact insecticide
hexa-hydroxyl (clove oil, thyme oil)		1 to 2 days	contact insecticide
hydramethylnon	Caution	2 to 6 weeks	bait kills workers as well as queens
indoxacarb	Caution	3 to 7 days	bait kills workers as well as queens
lambda-cyhalothrin	Caution	1 to 2 days	contact insecticide
permethrin	Caution	1 to 2 days	contact insecticide
2 phenylethyl propionate		1 to 2 days	contact insecticide
pyrethrins	Caution	1 to 2 days	contact insecticide
pyriproxyfen	Caution	2 to 6 months	stops production of new fire ants (igr)
spinosad	Caution	2 to 4 weeks	bait kills workers as well as queens
thiamethoxam	Caution	3 to 7 days	contact insecticide
thyme oil		1 to 2 days	contact insecticide

¹ Signal words describe the acute (short-term) toxicity of the formulated pesticide product, and are based on the results of six acute toxicity studies. The acute oral, dermal and inhalation studies evaluate systemic toxicity by those routes of entry. The primary eye and skin irritation studies measure irritation or corrosion, while the dermal sensitization study evaluates the potential for allergic contact dermatitis. See the following link for more information: <http://edis.ifas.ufl.edu/P1137>

The Signal Word is determined by the most severe toxicity category assigned to the acute toxicity studies with some exceptions. The Signal Words and associated toxicity categories are as follows: Toxicity Category I (most toxic) = DANGER/POISON Skull and Crossbones; Toxicity Category II (moderately toxic) = WARNING; Toxicity Category III (less toxic)= CAUTION; Toxicity Category IV (least toxic) = None Required.

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If you find a fire ant product in a Tennessee store and it is labeled for schools, but not listed here, please contact kvail@utk.edu with the product information.

Precautionary Statement

To protect people and the environment, pesticides should be used safely. This is everyone's responsibility, especially the user. Read and follow label directions carefully before you buy, mix, apply, store or dispose of a pesticide. According to laws regulating pesticides, they must be used only as directed by the label.

Disclaimer

This publication contains pesticide recommendations that are subject to change at any time. The recommendations in this publication are provided only as a guide. It is always the pesticide applicator's responsibility, by law, to read and follow all current label directions for the specific pesticide being used. The label always takes precedence over the recommendations found in this publication. Use of trade or brand names in this publication is for clarity and information; it does not imply approval of the product to the exclusion of others that may be of similar, suitable composition, nor does it guarantee or warrant the standard of the product. The author(s), the University of Tennessee Institute of Agriculture and University of Tennessee Extension assume no liability resulting from the use of these recommendations.

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