

## HOUSEHOLD AND STRUCTURAL PEST CONTROL – Products for Use by the General Public and Products for Professional Use Only

The following tables provide household and structural pest control recommendations with pesticides for use by the homeowner and with pesticides for use by licensed pest control operators only. Mention of pesticides in this section does not imply that chemicals are or should be the first or only means of control. Nonchemical control methods, including exclusion and sanitation, should always be considered when seeking to obtain a long-term solution to household pest problems.

All chemical information provided below is given with the understanding that no endorsement of named products is intended nor is criticism implied of similar products that are not mentioned. Individuals who use pesticides are responsible for ensuring that the intended use complies with current regulations and conforms to the product label. Before purchasing or using any pesticide, always read and carefully follow the label directions.

Insecticides listed below are identified by common chemical name. A trade name in parentheses may also be listed as a convenience for the reader. Pesticide labels for commercial and homeowner products that are currently registered for use in Arkansas may be found through the Arkansas Department of Agriculture/State Plant Board website by clicking on the following link: <https://www.agriculture.arkansas.gov/plant-industries/pesticide-section/registration/>

**Formulation Designations:** A = Aerosol (injectable or spray); B = Bait (gel or granular); CRS = Controlled Release Strip; D = Dust; F = Fogger (total release aerosol); FM = Foam; FU = Fumigant; G = Granular; P = Powder (for mixing with water); L = Liquid (for mixing with water or ready-to-use; RC (repellent coil); S = Bait (station). Restricted Use Pesticides designated with “RUP”

Pests	Insecticide	Formulation	Precautions and Remarks
<b>ANT</b> <b>(a) Indoors</b>  (For information on <b>Carpenter Ants</b> , see entry.)	abamectin	S	Place bait stations in areas where ants are active. Keep out of reach of children and pets. Use dust formulations only in inaccessible areas. Treat ant-traveled areas. Repeat treatment as effectiveness diminishes. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully. Remove food from storage areas before treating. Apply products as directed on the label.  Imiprothrin is usually formulated with other pesticides in these products.
	alpha cypermethrin (Fendona CS)	L	
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	A, L	
	borax/boric acid (Hot Shot, Terro)	B, D, S	
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Raid, Spectracide)	A, F, L	
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	
	d-phenothrin (Raid)	A	
	deltamethrin (Black Flag, Raid, Spectracide, Terro)	A, L	
	diatomaceous earth (Perma-Guard)	D	
	dichlorvos (Nuvan)	A, CRS, F(RUP)	
	dinotefuran (Hot Shot, Spectracide)	B, S	
	eugenol (Bayer Advanced)	L	
	fipronil (Combat)	B	
	hydramethylnon (Amdro, Combat)	B, S	
	imiprothrin (Hot Shot, Raid)	A	
	indoxacarb (Hot Shot, Spectracide)	S	
	lambda-cyhalothrin (Hot Shot, Spectracide)	L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	A, D, G	
	prallethrin (Hot Shot, Raid, Terro)	A	
	propoxur (Amdro)	S	
	pyrethrins, pyrethrum (Black Flag, Hot Shot)	A	
sodium O-phenylphenate (Bayer Advanced)	A		
tetramethrin (various)	A		
thiamethoxam (Optigard, Raid)	B		
zeta-cypermethrin (Cynoff)	D		
<b>ANT</b> <b>(b) Outdoors</b>  See “Ant” and “Imported Fire Ant” under <b>Home Lawns</b> .	alpha cypermethrin (Fendona CS)	L	Apply granular bait around nest. Place bait stations in areas where ants are active. Treat nest and surrounding area. May be applied along building perimeter.  Apply products as directed on the label.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	G, L	
	borax (Terro)	B	
	cypermethrin (Hi-Yield)	L	
deltamethrin (Black Flag, Raid, Spectracide, Terro)	A, L		

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<b>ANT</b> <b>(b) Outdoors</b> (cont.)	diatomaceous earth (Perma-Guard)	D	Apply granular bait around nest. Place bait stations in areas where ants are active. Treat nest and surrounding area. May be applied along building perimeter.
	dinotefuran (Hot Shot, Spectracide)	S	
	fipronil (Combat)	B	Apply products as directed on the label.
	gamma-cyhalothrin (Spectracide)	G, L	
	hydramethylnon (Amdro, Combat)	B	
	indoxacarb (Hot Shot, Spectracide)	S	
	lambda-cyhalothrin (Hot Shot, Spectracide, Terro)	L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	L	
	tetramethrin (various)	L	
zeta-cypermethrin (Cynoff)	D		
<b>BED BUG</b>	alpha cypermethrin (Fendona CS)	L	Apply to mattress tufts and folds, crevices in bed frame and cracks and crevices along baseboard. Mattress heat sanitizing is an alternative.
	amorphous silica gel 100% (CimeXa Insecticide Dust)	D	
	Beauveria bassiana Strain GHA (Aprehend RTU)	L	Apply Aprehend RTU as a 2 inch wide continuous band/barrier at a speed of approximately ≥1 foot per second. For indoor use only.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	A, L	Apply all listed products as directed on the label.
	clothianidin 4% + metofluthrin 0.10% + piperonyl butoxide 10.00% (Crossfire Bed Bug Concentrate)	L	
	cypermethrin (Hot Shot)	L	Some listed products provide no residual control and are effective only by direct application to the insect.
	deltamethrin (Black Flag)	L	
	diatomaceous earth (Perma-Guard)	D	
	dichlorvos (Hot Shot)	Pest Strip	
	dichlorvos (Nuvan)	A, CRS, F(RUP)	
	d-phenothrin (Raid)	A	
	imiprothrin (Raid)	A	
	lambda-cyhalothrin (Hot Shot)	L	
	N-octyl bicycloheptene dicarboximide (Raid)	A	
	permethrin (various)	L, A	
	phenoxybenzI (Bayer, Black Flag, Hot Shot)	A	
	prallethrin (Hot Shot)	A	
	silicon dioxide (Hot Shot)	D	
	zeta-cypermethrin (Cynoff)	D	
<b>BEE</b> <b>(a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Apply only for sporadic invaders. If bees are found frequently, locate and remove the nest.
	bifenthrin (Ortho)	L	
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L	Apply products as directed on the label.
	deltamethrin (Raid)	L	
	diatomaceous earth (Perma-Guard)	D	
	d-phenothrin (Raid)	A	
dichlorvos (Nuvan)	A, CRS, F(RUP)		

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<b>BEE (a) Indoors</b> (cont.)	imiprothrin (Raid)	A	Apply only for sporadic invaders. If bees are found frequently, locate and remove the nest.	
	permethrin (various)	A		
	pyrethrins, pyrethrum	A, L	Apply products as directed on the label.	
	tetramethrin (various)	A		
<b>BEE (b) Outdoors</b>  For carpenter bees, see <b>Carpenter Bee</b> entry.	alpha cypermethrin (Fendona CS)	L		
	beta-cyfluthrin (Bayer Advanced)	L		
	bifenthrin (Ortho)	L		
	carbaryl (various)	D, L, P		
	cypermethrin (Hi-Yield)	L		
	deltamethrin (Raid)	L		
	d-phenothrin (Raid)	A		
	gamma-cyhalothrin (Spectracide)	L		
	permethrin (various)	A, L		
	prallethrin (Hot Shot)	A		
tetramethrin (various)	L			
zeta-cypermethrin (Cynoff)	D			
<b>BOOKLOUSE (psocid) (Indoors and outdoors)</b>	beta-cyfluthrin (Bayer Advanced)		L	Apply as a barrier spray along foundation and entry points (doors and windows). Read labels to determine which products are suitable for indoor use. Clean up moisture problems that may attract insects indoors. Excess moisture may impede product effectiveness.
	bifenthrin (Ortho)		L	
	cypermethrin (Spectracide)		A	
	d-allethrin (Raid House & Garden Bug Kill Formula 7)		A	
	deltamethrin (Black Flag)		L	Imiprothrin is formulated with other pesticides in these products.
	diatomaceous earth (Perma-Guard)		D	
	imiprothrin (Raid)		A	
	permethrin (various)		L	
pyrethrins, pyrethrum	A			
<b>BOXELDER BUG (Outdoors)</b>	alpha cypermethrin (Fendona CS)	L	Harmless insects become nuisances when searching indoors for hibernation sites in the fall. Treat door thresholds, window ledges and other areas where the insects congregate or may gain entry.	
	beta-cyfluthrin (Bayer Advanced)	L		
	bifenthrin (Ortho)	L		
	cypermethrin (Black Flag)	L		
	deltamethrin (Spectracide)	L		
	d-phenothrin (Raid)	A		
	gamma-cyhalothrin (Spectracide)	L		
permethrin (various)	L			
<b>BROWN DOG TICK (a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Spot-treat pet beds (not actual bedding) along with cracks, crevices and similar hiding areas. DO NOT apply to animals (see also <b>ANIMAL INSECT CONTROL</b> section). Discard or launder infested bedding in hot, soapy water.	
	beta-cyfluthrin (Bayer Advanced)	A, L		
	bifenthrin (Ortho)	L		
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L		
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A		

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<b>BROWN DOG TICK (a) Indoors (cont.)</b>	deltamethrin (Spectracide)	L	
	diatomaceous earth (Perma-Guard)	D	
	dichlorvos (Nuvan)	A, CRS, F(RUP)	
	d-phenothrin (Raid)	A	
	gamma-cyhalothrin (Spectracide)	L	
	imiprothrin (Black Flag)	A	Imiprothrin is formulated with other pesticides in these products.
	lambda-cyhalothrin (Spectracide)	A, L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	A	
	prallethrin (Black Flag)	A	
	pyrethrins, pyrethrum	A	
tetramethrin (various)	A		
<b>BROWN DOG TICK (b) Outdoors and under buildings</b>	alpha cypermethrin (Fendona CS)	L	See also <b>ANIMAL INSECT CONTROL</b> section.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	G	
	cypermethrin (Hi-Yield)	L	
	deltamethrin (Black Flag, Spectracide)	L	
	diatomaceous earth (Perma-Guard)	D	
	gamma-cyhalothrin (Spectracide)	G, L	
	lambda-cyhalothrin (Spectracide)	A, L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	L	
	tetramethrin (various)	L	
<b>CARPENTER ANT (a) Indoors</b>	2-Phenethyl Propionate 1% Pyrethrins (EcoPCOAR-X-M)	A	Apply as directed on label.
	abamectin (Advance)	B	Apply as directed on label.
	acetamiprid + bifenthrin (Transport Mikron)	L	Apply as directed on label.
	alpha cypermethrin (Fendona CS)	L	Apply as directed on label.
	beta-cyfluthrin (Bayer Advanced, Tempo)	L	Apply as directed on label.
	bifenthrin (Ortho, Talstar)	A, L	Apply as directed on label.
	boric acid (Niban, Mother Earth G)	B	Apply as directed on label.
	chlorfenapyr (Phantom)	L	Apply as directed on label.
	cyfluthrin (Bayer Advanced, Tempo)	L	Apply as directed on label.
	cypermethrin (Cynoff EC)	D	Apply as directed on label.
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	
	deltamethrin (Bayer Advanced, Spectracide, Suspend)	L	Apply as directed on label.
	dinotefuran (Alpine, Hot Shot)	B, FM, L	Apply as directed on label.
	disodium octaborate tetrahydrate (Bora-Care, Tim-bor, Borathor)	D, L	Apply as directed on label.
	esfenvalerate (Onslaught)	L	Apply as directed on label.

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<b>CARPENTER ANT (a) Indoors (cont.)</b>	fipronil (Combat, Maxforce)	B	Bait where you see ant activity. Apply as directed on label.
	hydramethylnon (Combat)	B	Bait where you see ant activity. Apply as directed on label.
	imidacloprid (Masterline MaxxPro 2F)	L	Apply as directed on label.
	imidacloprid + cyfluthrin (Temprid SC)	L	Apply as directed on label.
	indoxacarb (Advion, Arilon)	B, L	Bait where you see ant activity. Apply as directed on label.
	lambda-cyhalothrin (Demand, Spectracide)	FM, L	Apply as directed on label.
	permethrin (Dragnet, various others)	L	Apply as directed on label.
	sodium borate (Boracare, Borathor Spectracide, Terminate)	D, L	Apply as directed on label.
	thiamethoxam (Optigard)	L, S	Apply as foam to wall voids or infested wood. Place bait stations as directed on label.
zeta-cypermethrin (Cynoff)	D	Apply dust formulation directly to galleries.	
<b>CARPENTER ANT (b) Outdoors</b>	abamectin (Advance)	B	Apply as directed on label.
	acetamiprid + bifenthrin (Transport Mikron)	L	Apply outdoors only as pinstream, spot, crack and crevice, or perimeter spray.
	alpha cypermethrin (Fendona CS)	L	Apply as directed on label.
	beta-cyfluthrin (Bayer Advanced, Tempo)	L	Treat into and around the nest, then seal holes.
	bifenthrin (Ortho, Bifen, Talstar)	L	Spray or inject into wood.
	boric acid (Niban, Mother Earth G)	B	Place bait granules around perimeter.
	chlorfenapyr (Phantom)	L	Exterior use limited to spot (2 square feet) and crack and crevice treatments at points of entry.
	cyfluthrin (Bayer Advanced, Tempo)	L	Treat into and around the nest, then seal holes.
	cypermethrin (Cynoff EC, Hi-Yield, Martin's Viper, Demon TC)	D, L	Apply dust formulation directly to galleries.
	deltamethrin (BioAdvanced, Suspend, D-Fend Dust, D-Foam)	FM, D, L	Apply as directed on label. . D-Foam is applied to voids where nests may be located. Treat into and around the nest.
	dinotefuran (Alpine)	FM, L	Apply as directed on label.
	disodium octaborate tetrahydrate (Bora-Care, Tim-bor, Borathor)	D, L	Apply as directed on label.
	esfenvalerate (Onslaught)	L	Apply as directed on label.
	fipronil (Maxforce, Termidor, Taurus)	B, G, P	Apply bait granules in ant foraging areas. Water area after applying granules.
	gamma-cyhalothrin (Spectracide)	L	Apply as directed on label.
	hydramethylnon (Maxforce)	B	Apply granules along perimeter of building or nest. (Maxforce is for professional use.)
	imidacloprid (Masterline MaxxPro 2F, BioAdvanced)	FM, L	Apply to galleries as directed on label.
	imidacloprid + cyfluthrin (Temprid SC)	B, L	Apply as directed on label.
	indoxacarb (Arilon, Advion)	B, L	Apply as directed on label.
	lambda-cyhalothrin (Demand, Spectracide)	A, L	
	permethrin (Dragnet, various others)	L	Apply as crack and crevice or spot treatment or paint onto surface. Application by drilling and injecting is also permitted.
sodium borate (Boracare, Borathor) (Spectracide)	L	Spray/brush on or inject into wood. For long-term protection, apply a water repellent stain to exterior wood surfaces 2 to 3weeks after treatment.	
zeta-cypermethrin (Cynoff)	D		
<b>CARPENTER BEE</b>	alpha cypermethrin (Fendona CS)	L	Apply as directed on label.
	beta-cyfluthrin (Bayer Advanced, Tempo)	L	Apply liquid as a surface spray and into entrance hole. Seal entrance hole.

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<b>CARPENTER BEE</b> (cont.)	bifenthrin (Ortho, Bifen, Talstar)	L	Apply as a coarse surface spray and into entrance hole. Seal entrance hole.	
	carbaryl (various)	D, L	Apply liquid as a surface spray and into entrance hole. Puff into and around entrance holes using dust applicator. Seal with wood plugs, putty, or stainless steel or copper wool.	
	chlorfenapyr (Phantom)	L	Apply as directed on label.	
	cyfluthrin (Bayer Advanced, Tempo)	L	Apply liquid as a surface spray and into entrance hole. Seal entrance hole.	
	cypermethrin (Demon TC)	L	Treat into and around the nest.	
	deltamethrin (BioAdvanced, Suspend, D-Fend Dust, D-Foam)	FM, D, L	Apply liquid as a coarse surface spray and into gallery entrance. Inject foam or puff into and around entrance holes using dust applicator. Seal with wood plugs, putty, or stainless steel or copper wool.	
	disodium octaborate tetrahydrate (Bora-Care, Tim-bor, Borathor)	D, L	Apply as directed on label.	
	imidacloprid (Bayer Advanced, Premise)	FM	Apply to galleries as directed on label.	
	imidacloprid + cyfluthrin (Temprid SC)	L	Apply as directed on label.	
	lambda-cyhalothrin (Demand, Spectracide)	L	Spray or inject into wood. Seal holes in wood before injecting. Avoid runoff.	
	permethrin (Dragnet)	L	Spray or inject into wood. Seal holes in wood before injecting. Avoid runoff.	
	prallethrin-lambda-cyhalothrin (Spectracide)	FM	Apply to galleries as directed on label.	
	zeta-cypermethrin (Cynoff)	D	Apply dust formulation directly into galleries.	
<b>CARPET BEETLE</b> <b>(a) Nonfabric areas and infested areas of carpets only</b>	alpha cypermethrin (Fendona CS)	L	Treat cracks, crevices and hidden areas to point of runoff with spray. Moisten but <b>DO NOT</b> saturate fabric. For valuable rugs or cloth items, consider hiring a pest control professional.	
	beta-cyfluthrin (Bayer Advanced)	A		
	bifenthrin (Ortho)	A, L		
	cypermethrin (Black Flag)	A		
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A		
	deltamethrin (Black Flag, Spectracide)	A		
	diatomaceous earth (Perma-Guard)	D		
	dichlorvos (Nuvan)	A, CRS, F(RUP)		
	d-phenothrin (Raid)	A		
	gamma-cyhalothrin (Spectracide)	L		
	imiprothrin (Hot Shot)	A		Imiprothrin is formulated with other pesticides in these products.
	prallethrin (Ortho)	A		
	pyrethrins, pyrethrum	A		
zeta-cypermethrin (Cynoff)	D	Use Cynoff insecticide as a crack and crevice treatment in closets and other storage areas where these pests are found. This is an adjunct treatment and will not control moth larvae already on the clothes. <b>DO NOT</b> apply this product directly to clothing.		
<b>CARPET BEETLE</b> <b>(b) On fabric</b>	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	Other pyrethroids are also available ready-to-use. While many are specifically recommended for clothes moths, they are also effective on carpet beetles. <b>DO NOT</b> saturate fabric.	
	diatomaceous earth (Perma-Guard)	D		
	prallethrin (Black Flag)	A		
	pyrethrins, pyrethrum	A, L		
<b>CENTIPEDE</b> <b>(a) Indoors</b>	beta-cyfluthrin (Bayer Advanced)	A, L	Usually infest damp areas such as basements. Spot-treat cracks, crevices and moldings where pests may crawl. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully.	
	bifenthrin (Ortho)	L		

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<b>CENTIPEDE (cont.) (a) Indoors</b>	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	Imiprothrin is formulated with other pesticides in these products.
	deltamethrin (Spectracide)	L	
	diatomaceous earth (Perma-Guard)	D	
	gamma-cyhalothrin (Spectracide)	L	
	imiprothrin (Hot Shot, Raid)	A	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	A	
	prallethrin (Ortho)	A	
	pyrethrins, pyrethrum	A	
	zeta-cypermethrin (Cynoff)	D	
<b>CENTIPEDE (b) Outdoors</b>	beta-cyfluthrin (Bayer Advanced)	L	Treat infested areas around building foundations, vents and similar access points. Barrier sprays of 12 to 18 inches along perimeter may be effective.
	bifenthrin (Ortho)	G	
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Enforcer)	L	
	deltamethrin (Spectracide)	L	
	diatomaceous earth (Perma-Guard)	D	
	gamma-cyhalothrin (Spectracide)	L	
	lambda-cyhalothrin (Hot Shot, Spectracide)	A, G, L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	L	
	tetramethrin (various)	A	
	zeta-cypermethrin (Cynoff)	D	
<b>CHIGGER (red bug) (Outdoors)</b>	alpha cypermethrin (Fendona CS)	L	Apply to grass, bushes and weeds in infested areas. Thoroughly saturate soil, but avoid runoff into ponds, lakes or other bodies of water. Repeat as needed. Apply labeled repellent products to shoes, ankles and legs before entering suspected chigger-infested areas.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	G, L	
	deltamethrin (Spectracide)	L	
	gamma-cyhalothrin (Spectracide)	L	
	lambda-cyhalothrin (Bonide)	L	
	permethrin (various)	L	
	tetramethrin (various)	L	
<b>CLOTHES MOTH (a) Nonfabric areas and infested areas of carpet only</b>			See <b>Carpet Beetle</b> .
<b>CLOTHES MOTH (b) On fabric</b>			See <b>Carpet Beetle</b> .
<b>CLOTHES MOTH (c) In storage areas</b>	dichlorvos (Hot Shot)	FU strip	Hang strip in clothes closets or storage chests up to 1,000 cubic feet in capacity. Not for use in occupied rooms or in closets in occupied rooms. Follow label instructions carefully.
	paradichlorobenzene (various)	Crystals or similar solid	Effective repellents on clean fabric in airtight enclosures. Avoid contact with plastic buttons and zippers.

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<b>CLOVER MITE (a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Clover mite is strictly a nuisance pest. Treat around door thresholds. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully.  Imiprothrin is formulated with other pesticides in these products.
	beta-cyfluthrin (Bayer Advanced)	A, L	
	bifenthrin (Ortho)	L	
	cypermethrin (Black Flag)	L	
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	
	deltamethrin (Spectracide)	L	
	diatomaceous earth (Perma-Guard)	D	
	imiprothrin (Raid)	A	
	gamma-cyhalothrin (Spectracide)	L	
	permethrin (various)	A	
	prallethrin (Ortho)	A	
pyrethrins, pyrethrum	A		
<b>CLOVER MITE (b) Outdoors</b>	alpha cypermethrin (Fendona CS)	L	Treat around points of entry, such as foundations, vents, windows and doors. Maintain a 12-inch vegetation-free zone along foundation. Spray 1 to 2 feet high along the foundation wall and a 3- to 5-foot barrier on the grass or landscaped areas around the foundation. Water immediately after applying granules.  Apply products as directed on the label.
	beta-cyfluthrin (Bayer Advanced)	G, L	
	bifenthrin (Ortho)	L	
	cypermethrin (Black Flag)	L	
	deltamethrin (Spectracide)	L	
	diatomaceous earth (Perma-Guard)	D	
	gamma-cyhalothrin (Spectracide)	L	
	permethrin (various)	G, L	
	tetramethrin (various)	L	
	<b>COCKROACH (a) Indoors</b>	abamectin (Raid Max)	
alpha cypermethrin (Fendona CS)		L	
beta-cyfluthrin (Bayer Advanced)		L	
bifenthrin (Ortho)		A, L	
boric acid (Bonide, Niban)		B, D	
chlorpyrifos (Hot Shot)		S	
cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)		A, F, L	
d-allethrin (Raid House & Garden Bug Kill Formula 7)		A	
diatomaceous earth (Perma-Guard)		D	
deltamethrin (Black Flag)		L	
dichlorvos (Nuvan)		A, CRS, F(RUP)	
dinotefuran (Hot Shot)		S	
eugenol (Bayer Advanced)		L	
fipronil (Combat)		B, S	
hydramethylnon (Amdro, Combat)		B	
hydroprene (Egg Stopper)		S	
imidacloprid (Bayer)		B	



**HOUSEHOLD AND STRUCTURAL PEST CONTROL – Products for Use by the General Public and Products for Professional Use Only**

<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>	
<b>COCKROACH (a) Indoors (cont.)</b>	imiprothrin (Hot Shot, Raid)	A	Imiprothrin is formulated with other pesticides in these products.	
	indoxacarb (Hot Shot)	B		
	gamma-cyhalothrin (Spectracide)	A, L		
	lambda-cyhalothrin (Spectracide)	A, L		
	lemongrass oil (Hot Shot)	A, L		
	permethrin (various)	A		
	permethrin + pyriproxyfen (Bengal)	A		
	prallethrin (Ortho)	A		
	pyrethrins, pyrethrum	A		
	tetramethrin (various)	F		
zeta-cypermethrin (Cynoff)	D			
<b>COCKROACH (b) Outdoors</b>	alpha cypermethrin (Fendona CS)	L	Some species of cockroaches can live indoors and outdoors. Cockroaches that live outdoors tend to hide under mulch, ivy and similar cover. Treat groundcover and along foundation walls, patios and other areas where cockroaches are seen. Certain products cannot be used on or around edible plants. Read product labels for any limitations.  Apply products as directed on the label.	
	beta-cyfluthrin (Bayer Advanced)	A, L		
	bifenthrin (Ortho)	A, L		
	cypermethrin (Hi-Yield)	L		
	deltamethrin (Spectracide)	L		
	diatomaceous earth (Perma-Guard)	D		
	dinotefuran (Hot Shot)	S		
	gamma-cyhalothrin (Spectracide)	G, L		
	hydramethylnon (Amdro, Combat)	B		
	lambda-cyhalothrin (Spectracide)	A, L		
	lemongrass oil (Hot Shot)	A, L		
	permethrin (various)	A, L		
	tetramethrin (various)	A, L		
	zeta-cypermethrin (Cynoff)	D		
<b>CRICKET (Indoors and in crawlspaces)</b>	alpha cypermethrin (Fendona CS)	L	Crickets enter homes through basements and similar areas. Some formulations may be sprinkled along foundation. Read product label before using outdoors. Treat along foundation walls, patios and other areas where crickets are seen. Apply in a light 2-to 4-inch band around foundation. DO NOT use excessive amounts, and DO NOT apply to foliage of ornamentals or to food crops.  Apply products as directed on the label.	
	beta-cyfluthrin (Bayer Advanced)	L		
	bifenthrin (Ortho)	A		
	boric acid (Bonide, Niban)	B		
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L		
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A		
	deltamethrin (Spectracide)	L		
	diatomaceous earth (Perma-Guard)	D		
	dichlorvos (Nuvan)	A, CRS, F(RUP)		
	eugenol (Bayer Advanced)	L		
	gamma-cyhalothrin (Spectracide) OUTDOORS ONLY	G, L		
	imiprothrin (Raid)	A		Imiprothrin is formulated with other pesticides in these products.
	lambda-cyhalothrin (Spectracide)	A, L		

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<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>
<b>CRICKET</b> (cont.) <b>(Indoors and in crawlspaces)</b>	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	L	
	prallethrin (Ortho)	A	
	pyrethrins, pyrethrum	L	
	tetramethrin (various)	A	
	zeta-cypermethrin (Cynoff)	D	
<b>EARWIG</b> <b>(a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Repeat treatments may be necessary at two-week intervals. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	A, L	
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L	
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	
	diatomaceous earth (Perma-Guard)	D	
	eugenol (Bayer Advanced)	L	
	imiprothrin (Raid)	A	Imiprothrin is formulated with other pesticides in these products.
	gamma-cyhalothrin (Spectracide)	L	
	lambda-cyhalothrin (Spectracide)	A, L	
	lemongrass oil (Hot Shot)	A, L	
	prallethrin (Ortho)	A	
	tetramethrin (various)	A	
zeta-cypermethrin (Cynoff)	D		
<b>EARWIG</b> <b>(b) Outdoors</b>	alpha cypermethrin (Fendona CS)	L	Repeat treatments at 14-day intervals if necessary. Granular formulations are for outdoor use only and must be watered into soil or applied before rain.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	G, L	
	cypermethrin (Hi-Yield)	L	
	diatomaceous earth (Perma-Guard)	D	Repeat treatments at 14-day intervals if necessary. Granular formulations are for outdoor use only and must be watered into soil or applied before rain.
	gamma-cyhalothrin (Spectracide)	G, L	
	lambda-cyhalothrin (Spectracide)	L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	D, G, L	
	prallethrin (Hot Shot, Raid)	A	
	tetramethrin (various)	L	
	zeta-cypermethrin (Cynoff)	D	
	<b>FLEA</b> <b>(a) Indoors</b>	alpha cypermethrin (Fendona CS)	L
beta-cyfluthrin (Bayer Advanced)		L	
bifenthrin (Ortho)		A	
boric acid (Bonide, Niban)		D	
cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)		A, F, L	
d-allethrin (Raid House & Garden Bug Kill Formula 7)		A	
deltamethrin (Spectracide)		L	

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<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>
<b>FLEA</b> <b>(a) Indoors</b> (cont.)	dichlorvos (Nuvan)	A, CRS, F(RUP)	
	d-phenothrin (Raid)	A	
	eugenol (Bayer Advanced)	L	
	gamma-cyhalothrin + pyriproxyfen (Black Flag)	A	
	imiprothrin (Black Flag)	A	
	lambda-cyhalothrin (Spectracide)	L	
	lambda-cyhalothrin + pyriproxyfen (Black Flag)	L	
	lemongrass oil (Hot Shot)	A, L	
	methoprene (Precor)	A, F, L	Methoprene products are insect growth regulators that control immature fleas only. Usually formulated with an adulticide.
	permethrin (various)	L	
	phenoxybenzI (Hot Shot)	A	
	pyrethrins, pyrethrum	L	
	pyriproxyfen (Archer, Nylar)	A, L	Pyriproxyfen products are insect growth regulators that control immature fleas only. Usually formulated with an adulticide.
	sumithrin (Enforcer)	D	
tetramethrin (Enforcer)	L		
zeta-cypermethrin (Cynoff)	D		
<b>FLEA</b> <b>(b) Outdoors</b>	alpha cypermethrin (Fendona CS)	L	Concentrate on kennels and shaded areas where animals tend to rest or congregate. Apply liquid formulations with sufficient spray volume to saturate soil. Granular formulations must be watered into soil or applied before rain. Repeat as needed at 4- to 6-week intervals. Apply as directed on the label. See also <b>ANIMAL INSECT CONTROL</b> section.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	L	
	cypermethrin (Hi-Yield)	L	
	deltamethrin (Spectracide)	L	
	diatomaceous earth (Perma-Guard)	D	
	gamma-cyhalothrin (Spectracide)	G, L	
	lambda-cyhalothrin (Spectracide)	L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	L	
tetramethrin (various)	L		
<b>FLIES</b> <b>(a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Strips can only be used in unoccupied areas. Apply as labeled to areas or objects (such as garbage cans) infested with flies. Repeat treatments as may be necessary. See label before treating areas of vegetation. Sanitation in the area is essential for satisfactory control of flies.
	beta-cyfluthrin (Bayer Advanced)	L	
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L	
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	
	d-phenothrin (Raid)	A	
	deltamethrin (Black Flag, Spectracide)	A	
	dichlorvos (Nuvan)	A, CRS, F(RUP)	
	eugenol (Bayer Advanced)	L	
	lemongrass oil (Hot Shot)	A	
	permethrin (various)	A, F	
	pyrethrins, pyrethrum (various)	A, L	
tetramethrin (various)	L, F		

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<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>
<b>FLIES</b> <b>(b) Outdoors</b>	alpha cypermethrin (Fendona CS)	L	Apply as a surface spray to areas or objects (such as garbage cans) infested with flies. Repeat treatments may be necessary. See label before treating areas of vegetation. Sanitation in the area is essential for satisfactory control using any of these chemicals but particularly important with baits. Use as directed.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	L	
	cypermethrin (Hi-Yield)	L	
	deltamethrin (Black Flag, Spectracide)	A, L	
	d-phenothrin (Raid)	A	
	imidacloprid (Maxforce)	B	
	lambda-cyhalothrin (Spectracide)	L	
	permethrin (various)	L	
	prallethrin (Hot Shot)	A	
tetramethrin (various)	A		
<b>HORNETS, MUD DAUBERS, WASPS, YELLOW JACKETS</b> <b>(a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Apply to insects as needed for quick knockdown. Mechanical control (swatting) is usually adequate. Use product with “crack and crevice” nozzle to reach nests in wall voids. Remove nest when wasps are dead.
	beta-cyfluthrin (Bayer Advanced)	L	
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L	
	d-phenothrin (Raid)	A	
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	
	deltamethrin (Black Flag, Spectracide)	A, L	
	dichlorvos (Nuvan)	A, CRS, F(RUP)	
	prallethrin (Ultra-Kill, Spectracide)	A	
	prallethrin + lambda-cyhalothrin (Spectracide)	FM	
	pyrethrins, pyrethrum	A, L	
S-bioallethrin (Spectracide)	A		
tetramethrin (various)	A		
<b>HORNETS, MUD DAUBERS, WASPS, YELLOW JACKETS</b> <b>(b) Nest and adjacent areas</b>	alpha cypermethrin (Fendona CS)	L	Apply to nest or opening after dark when insects have returned to nest. Repeat treatment may be necessary. Most are packaged in pressurized containers that direct an insecticide stream of 10 feet or more. For yellow jackets and other soil-dwelling wasps, apply chemical to nests in soil. Fendona CS for use on yellow jackets only.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	L	
	carbaryl (various)	D, L	
	cypermethrin (Hi-Yield)	L	
	deltamethrin (Spectracide)	A	
	diatomaceous earth (Perma-Guard)	D	
	d-phenothrin (Raid)	A	
	lambda-cyhalothrin (Hot Shot, Spectracide)	L	
	permethrin (various)	L	
	prallethrin (Hot Shot, Spectracide, Ultra-Kill)	A	
	prallethrin + lambda-cyhalothrin (Spectracide)	FM	
	tetramethrin (various)	A	
zeta-cypermethrin (Cynoff)	D		
		Not for use on paper wasps.	

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<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>	
<b>LICE: body, head, crab (on person)</b>	malathion (Ovide)	L	Shampoo formulations. Thoroughly treat infested areas of body with lotion. Wash infested clothing with strong soap and very hot water. Dryclean woolens. Ovide requires a physician's prescription. Insecticidal treatment of furniture, carpets or other areas of the home are not needed.	
	permethrin (Nix)	L		
	pyrethrins, pyrethrum (Rid)	L		
<b>MILLIPEDE (a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Harmless pest is short-lived once indoors; therefore, insecticides may not be necessary. Spot-treat pest entrance areas (door thresholds). Outside treatment is necessary for satisfactory control. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully.	
	beta-cyfluthrin (Bayer Advanced)	L		
	bifenthrin (Ortho)	L		
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L		
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A		
	deltamethrin (Spectracide)	A		
	diatomaceous earth (Perma-Guard)	D		
	dichlorvos (Nuvan)	A, CRS,F(RUP)		
	imiprothrin (Raid)	A		Imiprothrin is formulated with other pesticides in these products.
	lambda-cyhalothrin (Hot Shot, Spectracide)	L		
	permethrin (various)	D, L		
	prallethrin (Hot Shot)	A		
	pyrethrins, pyrethrum	A		
zeta-cypermethrin (Cynoff)	D			
<b>MILLIPEDE (b) Outdoors</b>	alpha cypermethrin (Fendona CS)	L	Use as a barrier treatment along foundation wall, door threshold and window ledges. Some sprays may damage vegetation under hot, humid conditions. Read label precautions. For lawn treatment, apply an insecticide band 10 to 15 feet wide. Apply liquid formulations with sufficient spray volume to saturate soil. Use granular formulations outdoors only; water into soil or apply before rain. Repeat as needed at 4- to 6-week intervals.	
	beta-cyfluthrin (Bayer Advanced)	L		
	bifenthrin (Ortho)	G, L		
	cypermethrin (Hi-Yield)	L		
	diatomaceous earth (Perma-Guard)	D		
	gamma-cyhalothrin (Spectracide)	G, L		
	lambda-cyhalothrin (Hot Shot, Spectracide)	D, G, L		
	lemongrass oil (Hot Shot)	A, L		
	permethrin (various)	D, G, L		
	tetramethrin (various)	L		
zeta-cypermethrin (Cynoff)	D			
<b>MOSQUITOES (a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Aerosol sprays may provide temporary relief. Keep insects out by installing and repairing screens. Other labeled pyrethroids are also effective.	
	beta-cyfluthrin (Bayer Advanced)	L		
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L		
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A		
	deltamethrin (Black Flag, Spectracide)	A		
	d-phenothrin (Raid)	A		
	lemongrass oil (Hot Shot)	A		
	permethrin (various)	A		
	pyrethrins, pyrethrum (Raid)	A		
tetramethrin (various)	F			

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<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>
<b>MOSQUITOES (b) Outdoors</b>  (See also <b>INSECT CONTROL IN RECREATION AREAS</b> )	alpha cypermethrin (Fendona CS)	L	<i>Bacillus thuringiensis</i> is a “biopesticide” containing bacteria that kill mosquitoes and some biting flies. Place in small ponds, bird baths and ornamental pools (not swimming pools). Follow instructions for specifics of application.  Long-term control requires eliminating or cleaning mosquito breeding areas, such as discarded containers, ditches and other artificial sources of standing water. Spraying nearby vegetation may eliminate some mosquito resting sites, but some formulations may damage vegetation. Aerosols or foggers may be used for temporary relief when winds are insignificant. Use repellents on exposed body areas.
	<i>Bacillus thuringiensis</i> (Bti) (Mosquito Dunks)	Solid	
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	L	
	cypermethrin (Hi-Yield)	L	
	d-allethrin (Coleman)	RC	
	deltamethrin (Black Flag, Spectracide)	A, L	
	gamma-cyhalothrin (Spectracide)	G, L	
	lambda-cyhalothrin (Spectracide)	L	
	permethrin (various)	A, L	
prallethrin (Ortho)	A		
tetramethrin (various)	A		
<b>OLD HOUSE BORER</b>	aluminum phosphide (Phostoxin)	FU	Use aluminum phosphide for infested furniture, stacked lumber and other wood products. Apply under gas-tight tarpaulins or in a sealed chamber. Requires an Arkansas Class 3 General Fumigation Commercial Pesticide Applicator’s License.
	alpha cypermethrin (Fendona CS)	L	Apply as directed on label.
	beta-cyfluthrin (Bayer Advanced, Tempo)	L	Spray, brush on or inject into wood. Seal holes in wood before injecting. Avoid runoff.
	bifenthrin (Ortho, Bifen, Talstar)	L	Apply as directed on the label.
	cyfluthrin (BioAdvanced, Tempo)	L	Coarse spray, brush on, or inject into wood. Avoid excessive runoff.
	cypermethrin (Demon TC)	L	Apply as directed on label.
	deltamethrin (BioAdvanced, Suspend, D-Fend Dust, D-Foam)	FM, D, L	Apply as directed on label.
	disodium octaborate tetrahydrate (Bora-Care, Tim-bor, Borathor)	D, L	Spray, brush on, or inject into wood. For permanent protection, a water repellent should be applied to exterior surfaces 2 to 3 weeks after treatment.
	imidacloprid + cyfluthrin (Temprid SC)	L	Apply as directed on the label.
	permethrin (Dragnet, various others)	L	Apply as directed on the label.
sulfuryl fluoride (Vikane)	FU	Apply under gas-tight tarpaulins only. Hold for 24 hours at temperature above 60 degrees F. Requires an Arkansas Class 3 General Fumigation Commercial Pesticide Applicator’s License.	
<b>PANTRY PESTS (Pests in food storage areas)</b>	alpha cypermethrin (Fendona CS)	L	Discard infested material. Overall treatment of storage shelves and pantry is usually not necessary. Treat cracks, crevices, moldings and similar areas only. Remove and cover food and cooking and eating utensils before spraying storage cabinets. DO NOT restock shelves until surfaces are dry. Cover treated shelves with shelf paper if desired. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	L	
	cypermethrin (various)	L	
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	
	deltamethrin (Black Flag, Spectracide)	A	
	diatomaceous earth (Perma-Guard)	D	
	dichlorvos (Nuvan)	A, CRS, F(RUP)	
	eugenol (Bayer Advanced)	L	
	fipronil (Maxforce FC Magnum Roach Killer Bait Gel)	B	

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<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>
<b>PANTRY PESTS</b> (Pests in food storage areas) (cont.)	gamma-cyhalothrin (Spectracide)	L	Discard infested material. Overall treatment of storage shelves and pantry is usually not necessary. Treat cracks, crevices, moldings and similar areas only. Remove and cover food and cooking and eating utensils before spraying storage cabinets. DO NOT restock shelves until surfaces are dry. Cover treated shelves with shelf paper if desired. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully.
	imiprothrin (Raid)	A	
	permethrin (various)	L	
	prallethrin (Hot Shot)	A	
	pyrethrins, pyrethrum	A, F	
	zeta-cypermethrin (Cynoff)	D	
<b>POWDERPOST BEETLE</b>	aluminum phosphide (Phostoxin)	FU	Use aluminum phosphide for infested furniture, stacked lumber or other wood products. Apply under gas-tight tarpaulins or in a sealed chamber. Requires an Arkansas Class 3 General Fumigation Commercial Pesticide Applicator's License.
	alpha cypermethrin (Fendona CS)	L	Apply as directed on label.
	beta-cyfluthrin (Bayer Advanced, Tempo)	L	Coarse spray, brush on or inject into wood. Avoid excessive runoff.
	bifenthrin (Ortho, Bifen, Talstar)	L	Coarse spray, brush on or inject into wood. Avoid excessive runoff.
	chlorfenapyr (Phantom)	L	Apply as directed on the label.
	cyfluthrin (BioAdvanced, Tempo)	L	Coarse spray, brush on, or inject into wood. Avoid excessive runoff.
	cypermethrin (Demon TC)	L	Apply as directed on the label.
	deltamethrin (BioAdvanced, Suspend, D-Fend Dust, D-Foam)	FM, D, L	Apply as directed on label. Surface spray or inject foam or dust into galleries.
	disodium octaborate tetrahydrate (Bora-Care, Tim-bor, Borathor, Spectracide)	D, L	For long-term protection, apply a water repellent to exterior surfaces 2 to 3 weeks after treatment.
	imidacloprid (Bayer Advanced)	FM	Apply as directed on label.
	imidacloprid + cyfluthrin (Temprid SC)	L	Apply as directed on the label.
	lambda-cyhalothrin (Demand, Spectracide)	L	Apply as directed on the label.
	permethrin (Dagnet, various others)	L	Apply as directed on the label.
	sulfuryl fluoride (Vikane)	FU	Use sulfuryl fluoride for infested furniture, stacked lumber or other wood products. Apply under gas-tight tarpaulins only. Hold for 24 hours at temperature above 60 degrees F. Requires an Arkansas Class 3 General Fumigation Commercial Pesticide Applicator's License.
	zeta-cypermethrin (Cynoff)	D	Apply as directed on label.
<b>SCORPIONS</b>	acetamiprid + bifenthrin (Transport)	L	Apply as directed on the label.
	alpha cypermethrin (Fendona CS)	L	
	beta-cyfluthrin (Bayer Advanced, Tempo)	L	
	bifenthrin (Bifen, Talstar)	G, L	
	cypermethrin (Cynoff, Demon, Martin's Viper)	L	
	diatomaceous earth (Mother Earth D)	D	
	gamma-cyhalothrin (Spectracide)	G, L	
	lambda-cyhalothrin (Demand, 228L, Spectracide)	G, L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (Flee, Dagnet, Prelude, various others)	L	
	phenothrin (Bedlam)	L	
	pyrethrins, pyrethrum (Kicker, Pyrenone, various others)	A, L	
	silica gel (Drione, Tri-Die)	D	

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<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>	
<b>SILVERFISH</b>	alpha cypermethrin (Fendona CS)	L	Treat cracks, crevices, moldings and similar areas. Attic treatment may be necessary. Apply to cracks and crevices and behind and underneath appliances. Spray along baseboards and other areas where silverfish are found.	
	beta-cyfluthrin (Bayer Advanced)	L		
	bifenthrin (Ortho)	L	Apply as directed on the label.	
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L		
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A		
	deltamethrin (Black Flag, Spectracide)	A		
	diatomaceous earth (Perma-Guard)	D		
	dichlorvos (Nuvan)	A, CRS, F(RUP)		
	gamma-cyhalothrin (Spectracide)	L		
	imiprothrin (Raid)	A		Imiprothrin is formulated with other pesticides in these products.
	lambda-cyhalothrin (Spectracide)	A, L		
	lemongrass oil (Hot Shot)	A, L		
	permethrin (various)	L		
	prallethrin (Ortho)	A		
	pyrethrins, pyrethrum	A		
tetramethrin (various)	A			
zeta-cypermethrin (Cynoff)	D			
<b>SOWBUGS AND PILLBUGS (a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Clean up breeding and hiding places; treat thoroughly. Outdoor barrier treatments along foundation and door thresholds are usually sufficient. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully.	
	beta-cyfluthrin (Bayer Advanced)	L		
	bifenthrin (Ortho)	L		
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L		
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A		
	deltamethrin (Black Flag, Spectracide)	A, L		
	diatomaceous earth (Perma-Guard)	D		
	dichlorvos (Nuvan)	A, CRS, F(RUP)		
	gamma-cyhalothrin (Spectracide)	L		
	lambda-cyhalothrin (Spectracide)	A, L		
	permethrin (various)	A		
	prallethrin (Ortho)	A		
	pyrethrins, pyrethrum	A		
	zeta-cypermethrin (Cynoff)	D		
	<b>SOWBUGS AND PILLBUGS (b) Outdoors</b>	alpha cypermethrin (Fendona CS)		L
beta-cyfluthrin (Bayer Advanced)		L		
bifenthrin (Ortho)		G, L		
cypermethrin (Hi-Yield)		L		
deltamethrin (Spectracide)		A		
diatomaceous earth (Perma-Guard)		D		



**HOUSEHOLD AND STRUCTURAL PEST CONTROL – Products for Use by the General Public and Products for Professional Use Only**

<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>
<b>SOWBUGS AND PILLBUGS</b> <b>(b) Outdoors</b> (cont.)	gamma-cyhalothrin (Spectracide)	G, L	
	lambda-cyhalothrin (Spectracide)	L	
	permethrin (various)	D, G, L	
	tetramethrin (various)	L	
	zeta-cypermethrin (Cynoff)	D	
<b>SPIDERS</b> <b>(a) Indoors</b>	alpha cypermethrin (Fendona CS)	L	Treat infested areas along baseboards. Use foggers if rooms have been undisturbed for some time and spider populations are extensive. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	L	
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L	Apply as directed on the label.
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A	
	d-phenothrin (Raid)	A	
	deltamethrin (Black Flag, Spectracide)	A	
	diatomaceous earth (Perma-Guard)	D	
	dichlorvos (Nuvan)	A, CRS, F(RUP)	
	eugenol (Bayer Advanced)	L	
	gamma-cyhalothrin (Spectracide)	L	
	imiprothrin (Raid)	A	Imiprothrin is formulated with other pesticides in these products.
	lambda-cyhalothrin (Spectracide)	A, L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	A	
	prallethrin (Ortho)	A	
	pyrethrins, pyrethrum	A	
tetramethrin (various)	A		
zeta-cypermethrin (Cynoff)	D	Not for use on black widow and brown recluse spiders.	
<b>SPIDERS</b> <b>(b) Outdoors</b>	alpha cypermethrin (Fendona CS)	L	Apply as a barrier treatment along foundation. Spray corners of decks, eaves, porches and other areas where spiders tend to build webs. Webbing can be knocked down as an alternative. Exercise caution when spraying in crawlspace. Avoid inhaling spray.
	beta-cyfluthrin (Bayer Advanced)	L	
	bifenthrin (Ortho)	L	Apply as directed on the label.
	cypermethrin (Hi-Yield)	L	
	deltamethrin (Black Flag, Spectracide)	A	
	diatomaceous earth (Perma-Guard)	D	
	gamma-cyhalothrin (Spectracide)	G, L	
	lambda-cyhalothrin (Spectracide)	L	
	lemongrass oil (Hot Shot)	A, L	
	permethrin (various)	L	
	pyrethrins, pyrethrum	A	
	tetramethrin (various)	L	
	zeta-cypermethrin (Cynoff)	D	Not for use on black widow and brown recluse spiders.

**HOUSEHOLD AND STRUCTURAL PEST CONTROL – Products for Use by the General Public and Products for Professional Use Only**

<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>	
<b>SPRINGTAILS</b> <b>(Indoors and Outdoors)</b>	alpha cypermethrin (Fendona CS)	L	Apply as a barrier spray along foundation and entry points. Some products may be used indoors for temporary relief. Clean up moisture conditions that may attract insects indoors. Excess moisture may impede product effectiveness. Use indoors for temporary relief. Some products are not suitable for use in residential kitchens or commercial food/feed preparation sites. Read the product label carefully.	
	beta-cyfluthrin (Bayer Advanced)	L		
	bifenthrin (Ortho)	L		
	cypermethrin (Black Flag, Hi-Yield, Hot Shot, Spectracide)	A, F, L		
	d-allethrin (Raid House & Garden Bug Kill Formula 7)	A		Apply as directed on the label.
	deltamethrin (Spectracide)	A		
	diatomaceous earth (Perma-Guard)	D		
	gamma-cyhalothrin (Spectracide)	G, L		
	imiprothrin (Raid)	A		Imiprothrin is formulated with other pesticides in these products.
	lambda-cyhalothrin (Spectracide)	L		
	permethrin (various)	L		
	prallethrin (Ortho)	A		
	pyrethrins, pyrethrum	A		
tetramethrin (various)	A			
zeta-cypermethrin (Cynoff)	D			
<b>STINGING CATERPILLARS</b>			See <b>Caterpillar</b> entry under <b>INSECT CONTROL FOR ORNAMENTALS GROWN IN NURSERIES OR LANDSCAPES</b> section.	
<b>STINK BUGS</b> <b>(Indoors and outdoors)</b>	alpha cypermethrin (Fendona CS)	L	Apply as directed on label.	
	beta-cyfluthrin (Bayer Advanced)	L	Apply as directed on label.	
	bifenthrin (Ortho)	L	Apply as directed on label.	
	cypermethrin (Raid)	A	Apply as directed on label.	
	d-phenothrin (Raid)	A	Apply as directed on label.	
	deltamethrin (Raid)	A	Apply as directed on label.	
	gamma-cyhalothrin (Spectracide)	G, L	Apply as directed on label.	
	imiprothrin (Raid)	A	Apply as directed on label.	
	lambda-cyhalothrin (Spectracide)	L	Apply as directed on label.	
<b>STORED FOOD PESTS</b>			See <b>Pantry Pests</b> .	
<b>TERMITE DRYWOOD SPECIES</b> <b>(Wood treatment)</b>	acetamiprid + bifenthrin (Transport)	L	Coarse spray or drill and inject into wood.	
	alpha cypermethrin (Fendona CS)	L	Apply as directed on label.	
	aluminum phosphide (Phostoxin)	FU	Apply under gas-tight tarpaulins or in sealed chamber. Requires an Arkansas Class 3 General Fumigation Commercial Pesticide Applicator's License.	
	beta-cyfluthrin (Bayer Advanced, Tempo)	L	Coarse surface spray or inject into wood.	
	bifenthrin (Ortho, Bifen, Talstar)	L	Coarse spray or inject into wood.	
	cypermethrin (Demon TC, Cyoe TC)	L	Coarse spray or inject into wood for localized infestations.	
	deltamethrin (BioAdvanced,Suspend, D-Fend Dust, D-Foam)	D, FM, L	Surface spray or inject foam or dust into galleries.	
	dinotefuran (Alpine)	FM, L	Apply as directed on label.	
	disodium octaborate tetrahydrate (Bora-Care, Tim-bor, Borathor, Spectracide)	L	Coarse surface spray or inject wood.	

**HOUSEHOLD AND STRUCTURAL PEST CONTROL – Products for Use by the General Public and Products for Professional Use Only**

<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>
<b>TERMITE DRYWOOD SPECIES (Wood treatment)</b> (cont.)	fipronil (Termidor, Taurus)	FM, L	Coarse spray or inject into wood.
	imidacloprid (Bayer Advanced, Dominion, Premise)	FM, L	Drill and inject spray or foam into voids.
	imidacloprid + cyfluthrin (Temprid SC)	L	Apply as directed on label.
	lambda-cyhalothrin (Demand, Spectracide)	L	Apply as directed on label. Localized treatments. Spectracide is not recommended as a sole protection against termites.
	permethrin (Dragnet, various others)	L	Coarse spray on wood for localized infestation.
	sulfuryl fluoride (Vikane)	FU	Apply under gas-tight tarpaulins only. Hold for 24 hours at temperature above 60 degrees F. Requires an Arkansas Class 3 General Fumigation Commercial Pesticide Applicator's License.
	thiamethoxam (Optigard)	L	Coarse spray or drill and inject into wood.
	zeta-cypermethrin (Cynoff)	D	This product is intended to kill workers and/or winged reproductive forms of termites present at the time of application only. Application of this product will not provide structural protection nor substitute for mechanical alteration, soil or foundation treatment with termiticide. This product is not to be used as sole protection against termites, as it is not intended for use for elimination of termite infestations nor for protection against future infestations. A professional inspection is recommended.
<b>TERMITE SUBTERRANEAN SPECIES (a) Wood treatment</b>	acetamiprid + bifenthrin (Transport)	L	
	beta-cyfluthrin (Bayer Advanced, Tempo)	L	Coarse spray, brush on or inject into wood. Avoid excess runoff.
	bifenthrin (Ortho, Bifen, Talstar)	L	For use only in voids or channels in damaged wood or to cracks and spaces between wooden members of structures.
	chlorantraniliprole (Altriset)	L	Coarse spray around or inject into infested poles, trees and stumps (outdoors).
	chlorfenapyr (Phantom)	L	Coarse spray or inject into wood.
	cypermethrin (Demon TC, Cyoe TC)	L	Coarse surface spray or inject into wood.
	deltamethrin (BioAdvanced, Suspend, D-Fend Dust, D-Foam)	D, FM, L	Course surface spray or inject foam or dust into galleries.
	diflubenzuron (Advance, Isophor, Labyrinth, Truth)	S	Aboveground stations used in conjunction with in-ground baiting systems.
	dinotefuran (Alpine)	FM, L	Apply as directed on label.
	disodium octaborate tetrahydrate (Bora-Care, Tim-bor, Borathor, Spectracide)	D, L	Spray, brush on, or inject into wood. For long-term protection, apply a water repellent to exterior wood surfaces 2 to 3 weeks after treatment. Not a replacement for soil treatment.
	esfenvalerate (Bengal Termite killing Concentrate, Onslaught)	L	Onslaught labeled for swarming termites only.
	fipronil (Termidor, Taurus)	FM, L	Coarse spray or inject into wood.
	imidacloprid (Premise)	B, FM, L	Gel and foam formulations may be injected into voids or damaged wood.
	imidacloprid + cyfluthrin (Temprid SC)	L	Apply as directed on label.
	lambda-cyhalothrin (Demand, Spectracide)	L	Apply as directed on label. Localized treatments. Spectracide is not recommended as a sole protection against termites.
	noviflumuron (Recruit IV AG)	S	Available only as part of the Sentricon in-ground system.
	permethrin (Dragnet, various others)	L	Coarse spray, brush on or inject into wood. Avoid excessive runoff.
zeta-cypermethrin (Cynoff)	D	This product is intended to kill workers and/or winged reproductive forms of termites present at the time of application only. Application of this product will not provide structural protection nor substitute for mechanical alteration, soil or foundation treatment with termiticide. This product is not to be used as sole protection against termites, as it is not intended for use for elimination of termite infestations nor for protection against future infestations. A professional inspection is recommended.	

**HOUSEHOLD AND STRUCTURAL PEST CONTROL – Products for Use by the General Public and Products for Professional Use Only**

<b>Pests</b>	<b>Insecticide</b>	<b>Formulation</b>	<b>Precautions and Remarks</b>
<b>TERMITE SUBTERRANEAN SPECIES</b> <b>(b) Soil treatment</b>  <b>NOTE:</b> Most structural termite infestations require treatment by a pest control professional with a Class 1 Termite and Other Structural Pest Control License issued by the Arkansas State Plant Board.	acetamiprid + bifenthrin (Transport)	L	Apply as directed on label.
	beta-cyfluthrin (Bayer Advanced, Tempo)	L	Apply as directed on label.
	bifenthrin (Bifen, Ortho, Talstar)	L	Apply as directed on label.
	chlorfenapyr (Phantom)	L	Apply as directed on label.
	chlorantraniliprole (Altriset)	L	Apply as directed on label.
	cypermethrin (Demon, TC, Cyoer TC)	L	Apply as directed on label.
	diflubenzuron (Advance, Isophor, Labyrinth, Truth)	S	Apply as directed on label.
	fipronil (Termidor, Taurus)	L	Apply as directed on label.
	hexaflumuron (Shatter)	B	Shatter is for localized treatments.
	imidacloprid (Bayer Advanced, Premise)	G, L	Apply as directed on label.
	imidacloprid + cyfluthrin (Temprid SC)	L	Apply as directed on label.
	indoxacarb (Arilon)	L	Arilon should be used for spot or localized treatment only. (Arilon is not intended as a sole protection against termites.)
	lambda-cyhalothrin (Demand, Spectracide)	L	Apply as directed on label.
	novaluron (Trelona)	B	Apply as directed on label.
	noviflumuron (Recruit HD)	S	Apply as directed on label.
permethrin (Dragnet FT, MasterLine)	L	Apply as directed on label.	
<b>TICKS (Outdoors)</b>			See <b>Brown Dog Tick</b> and control of ticks in <b>ANIMAL INSECT CONTROL</b> section.
<b>WASPS, YELLOW JACKETS</b>			See <b>Hornets, Mud Daubers, Wasps, Yellow Jackets</b> .

**INDUSTRIAL AND HOUSEHOLD PESTS—For use by licensed pest management professionals only**

Pesticide	Boric acid (Niban, Perma-Dust, InTice)		Diatomaceous earth (Mother Earth D)	Silica gel (Drione, Tri-Die, Cimex Dust)	Sodium Tetraborate (Gourmet Liquid Ant Bait, Cymex)		Methomyl (Flytek, Sysco Fly Bait)	Propoxur (Invader)	Acephate (Orthene)	Dichlorvos (Nuvan)	
	Inorganic		Inorganic		Inorganic		Carbamates		Organophosphates		
Chemical Class <sup>1</sup>	Inorganic						Carbamates		Organophosphates		
Formulation <sup>2</sup>	Bait	Dust	Dust <sup>3</sup>	Dust <sup>3</sup>	Bait	Dust	Bait <sup>4</sup>	Sprayable	Sprayable <sup>7</sup> (outdoor use only)	Strip	Sprayable
<b>Pests</b>											
Ants	X	X	X	X	X6	X			X		X
Bed Bugs			X	X		X		X		X	X
Bees				X					X		X
Booklice	X		X	X							
Bugs (True) <sup>5</sup>	X			X				X	X	X	
Carpet Beetles			X			X				X	X
Centipedes	X		X	X				X	X		
Clothes Moths			X							X	X
Clover Mites	X		X	X				X	X		
Cockroaches	X	X	X	X				X	X	X	X
Crickets	X	X	X	X					X		X
Earwigs	X	X	X	X				X	X	X	
Fleas		X	X	X		X			X		X
Flies	X		X	X			X			X	X
Hornets/Wasps				X					X		X
Lady Beetles			X	X							
Millipedes	X		X	X				X	X		X
Mosquitoes											X
Stored Product Pests	X		X	X							
Scorpions			X	X							
Silverfish	X	X	X	X				X	X	X	X
Spiders			X					X	X	X	X
Sowbugs			X					X	X		X
Springtails			X	X				X	X		X
Ticks				X				X			

<sup>1</sup> Alternating uses of insecticides in different chemical classes can help reduce the likelihood of the pests developing resistance to one group or class of compounds.

<sup>2</sup> Formulations:

Aerosol includes Crack & Crevice. Bait may be granular, gel, or station.

Sprayable may be concentrate or powder, some RTU formulations.

<sup>3</sup> Some formulations of diatomaceous earth and silica gel contain pyrethrins as a flushing agent.

<sup>4</sup> Not to be used in or around residences or other buildings where children may be present.

<sup>5</sup> True bugs includes boxelder bugs, stink bugs, kudzu bugs, and similar occasional invaders.

<sup>6</sup> Baits may be formulated as solids, dusts or liquids.

<sup>7</sup> Some formulations of Orthene may be applied indoors as crack & crevice treatment only.

**INDUSTRIAL AND HOUSEHOLD PESTS—For use by licensed pest management professionals only (cont.)**

Pesticide	Bifenthrin (Bifen, Talstar)	Cyfluthrin (Tempo Ultra, UltraShield CS)	Cypermethrin <sup>2</sup> (Demon, Cynoff, Fendona, Talstar Xtra)			Deltamethrin (DeltaDust, DeltaGuard, Suspend)			Esfenvalerate (Onslaught)	Etofenprox (Zenprox)	Lambda-cyhalothrin (Demand, 228L)	Permethrin (Flee, Dragnet, Prelude)	Phenothrin (Bedlam, Nyguard Plus <sup>6</sup> )	Prallethrin (Altocirrus Fog)	Pyrethrins and pyrethrum (Kicker, Pyrenone)	Tetramethrin (Wasp & Hornet Killer)				
	Pyrethroids <sup>1</sup>																			
Chemical Class																				
Formulation <sup>3</sup>	S,G	S	D	G	S	D	G	S	S	S	S	G	S	G	S	S	A <sup>4</sup>	S <sup>4</sup>	D <sup>4</sup>	S
Pests																				
Ants	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bed Bugs		X				X		X	X	X	X		X		X			X	X	
Bees	X	X	X		X	X		X	X		X		X					X	X	X
Booklice		X				X		X					X		X			X		
Bugs (True) <sup>5</sup>	X	X	X		X				X		X		X		X	X				
Carpet Beetles		X				X		X	X	X	X		X		X	X	X	X		
Centipedes	X	X	X	X	X	X	X	X	X	X	X		X		X	X				
Clothes Moths		X				X		X								X				
Clover Mites		X	X		X		X					X		X	X	X	X	X		
Cockroaches	X	X	X		X	X	X	X	X	X	X		X		X	X	X	X	X	
Crickets	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	
Earwigs	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X		
Fleas	X	X	X	X	X	X		X	X	X	X		X		X	X	X	X		
Flies/Gnats	X	X	X		X			X		X	X		X		X	X	X	X		
Hornets/Wasps	X	X	X		X			X	X	X	X				X	X	X	X		X
Lady Beetles															X					
Millipedes	X	X	X	X	X		X	X	X	X	X	X	X	X						
Mosquitoes	X	X	X		X			X	X	X	X					X	X	X		
Stored Product Pests		X						X		X	X		X		X	X	X	X		
Scorpions	X	X	X	X	X				X			X	X		X		X	X		
Silverfish	X	X	X		X			X	X	X	X	X	X		X	X	X	X		
Spiders	X	X	X	X	X		X	X	X	X	X		X		X	X	X	X		
Sowbugs	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X		
Springtails	X	X	X		X	X	X	X	X	X	X		X		X	X	X	X		
Ticks	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		

<sup>1</sup> Alternating use of insecticides in different chemical classes can help reduce development of pesticide resistance to one class/group of compounds. Piperonyl butoxide tank-mixed with many pyrethroids will synergize performance.

<sup>2</sup> Some products use alpha-cypermethrin or zeta-cypermethrin which contain chemical isomers of cypermethrin. Talstar Xtra is a mixture of zeta-cypermethrin and bifenthrin.

<sup>3</sup> **KEY TO FORMULATION SYMBOLS:** A = aerosol; B = bait (granular or station) D = dust; G = granular; S = sprayable (concentrate or powder, some RTU formulations);

<sup>4</sup> Some formulations of pyrethrins contain piperonyl butoxide as a synergist.

<sup>5</sup> True bugs includes boxelder bugs, stink bugs, kudzu bugs, and similar occasional invaders.

<sup>6</sup> Nyguard Plus contains the IGR pyriproxyfen

**INDUSTRIAL AND HOUSEHOLD PESTS—For use by licensed pest management professionals only (cont.)**

Pesticide	Hydroprene (Gencor <sup>3</sup> )	Methoprene (Altosid Kabat, Pharoicid, Precor, Vigren) <sup>3</sup>		Pyriproxyfen (Archer, Ultracide)	Acetamiprid + Bifenthrin (Transport)	Dinotefuran (Advance, Alpine)	Imidacloprid (FlyBait Maxforce, Premise, Temprid) <sup>8</sup>	Thiamethoxam (Optigard) <sup>9</sup>	Clothianidin (Maxfore Impact, Crossfire Bed Bug)	Abamectin (Ascend, Avert, Advance)	Aluminum phosphide (Phostoxin) <sup>5</sup>	Chlorfenapyr (Phantom) <sup>6</sup>	Cytraniliprole (Zyrox)	d-Limonene (ProCitra DL)	Fipronil (Maxforce F, TopChoice, Termidor) <sup>7</sup>	2-Phenyl Proprionate (EcoPCO EC)	Hydramethylnon (Amdro, Siege, MaxForce)	Indoxacarb (Advion, Arilion)	Rosemary Oil (Essentria IC3)	Sulfuryl floride (Vikane, Profume, Zythor) <sup>9</sup>
	Chemical Class <sup>1</sup>	Insect Growth Regulators				Neonicotinoids					Other Classes									
Formulation <sup>2</sup>	A,S	B	A,S	A,S	B,S	B,D,S	B	B,S		B	F	S	B	S	B,G,S	A,S	B	B,S	A	F
<b>Pests</b>																				
Ants	X	X		X	X	X	X	X <sup>9</sup>		X				X	X	X	X	X		
Bed Bugs			X	X	X	X			X <sup>11</sup>					X	X	X			X	X
Bees					X	X										X			X	
Booklice					X	X													X	
Bugs (True) <sup>4</sup>					X	X		X						X		X			X	
Carpet Beetles					X	X										X			X	X
Centipedes					X			X						X		X			X	
Clothes Moths					X	X								X						X
Clover Mites					X									X					X	
Cockroaches	X			X	X	X	X	X	X	X				X	X	X	X	X	X	X
Crickets				X	X	X		X						X	X	X		X	X	
Earwigs	X				X	X		X						X	X	X	X		X	
Fleas			X	X	X	X								X		X				
Flies/Gnats	X			X	X	X	X						X	X	X	X			X	
Hornets/Wasps					X	X							X <sup>10</sup>	X	X	X			X	
Lady Beetles					X	X		X						X	X	X			X	
Millipedes					X	X		X						X	X	X		X	X	
Mosquitoes	X	X		X	X									X		X			X	
Stored Product Pests	X		X	X	X	X		X			X					X			X	X
Scorpions					X	X								X						
Silverfish					X	X		X						X		X			X	
Spiders					X	X								X	X	X			X	
Sowbugs					X	X								X					X	
Springtails					X	X								X					X	
Ticks				X	X									X	X				X	

<sup>1</sup> Alternating uses of insecticides in different chemical classes can help reduce the likelihood of the pest developing resistance to one class or group of compounds.  
<sup>2</sup> **KEY TO FORMULATION SYMBOLS:**  
A = Aerosol (includes Crack & Crevice), B = Bait (granular, gel or station), D = Dust, F = Fumigant, G = Granular, S = sprayable (concentrate or powder, some RTU formulations)  
<sup>3</sup> IGR products are not typically effective against adult stage of pests; use with an adulticide to provide quicker control of pest population.  
<sup>4</sup> True bugs includes boxelder bugs, stink bugs, kudzu bugs, and similar occasional invaders  
<sup>5</sup> Requires an F-Phase Structural Pest Control License.  
<sup>6</sup> Chlorfenapyr labeled for indoor use only for these pests or limited spot treatment outdoors.  
<sup>7</sup> Termidor liquid formulations are labeled for outdoor use only; use other insecticide products indoors.  
<sup>8</sup> Temprid contains both imidacloprid and cyfluthrin.  
<sup>9</sup> Optigard not for use against pharaoh ants or carpenter ants.  
<sup>10</sup> Phantom is not a knockdown insecticide for pests such as wasps  
<sup>11</sup> Use spray formulation only for bed bugs. Also contains Metofluthrin and Piperonyl Butoxide