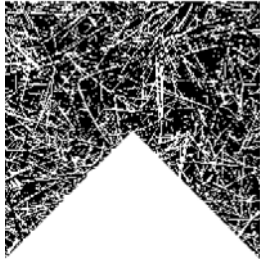


# IPM



# Wood and Wood Structures

Insect Control Recommendations for 2011

## INSECT CONTROL

Insecticide and Formulation (%)	Kills
<b>2-2-dichlorovinyl dimethyl phosphate</b>	
CARD-O-VAP 8 (Fogging Agent) (7.8%)	Old House Borers, Powder Post Beetles, and Drywood Termites
CARD-O-VAP 5 (Fogging Agent) (4.9%)	Old House Borers, Powder Post Beetles, and Drywood Termites
<b>abamectin</b>	
ADVANCED CARPENTER ANT BAIT (Bait)	Carpenter Ants
<b>acephate</b>	
ORTHENE (1%)	Carpenter Ants
<b>bendiocarb</b>	
FICAM (Dust) (76%)	Carpenter Ants, Carpenter Bees
<b>benzeneacetate</b>	
ONSLAUGHT MICROENCAPSULATED INSECTICIDE (6.4%)	Old House Borers, Powder Post Beetles, Subterranean Termites
<b>bifenthrin</b>	
ORTHO BUG B GON INSECT KILLER FOR LAWNS (Bait) (0.115%)	Carpenter Ants
TALSTAR ONE (Liquid) (7.9%)	Subterranean Termites
MASTERLINE BIFENTHRIN 7.9 (Liquid) (7.9%)	Subterranean Termites
<b>boric acid</b>	
ANT PRO (Dust) (1.0%)	Carpenter Ants
PERMA-DUST (Dust) (35%)	Carpenter Ants, Carpenter Bees
<b>chlorfenapyr</b>	
PHANTOM PRESSURIZED INSECTICIDE (Aerosol)	Subterranean Termites
PHANTOM TERMITICIDE-INSECTICIDE (Liquid) (21.45%)	Carpenter Ants, Carpenter Bees, Drywood Termites, and Subterrean Termites
<b>chloropicrin</b>	
CARDINAL CHLOROPICRIN 100 (Fumigant) (99%)	Drywood Termintes, Old House Borers, Powder Post Beetles
CARDINAL CHLOROPICRIN WARNING AGENT (Fumigant) (99%)	Drywood Termintes, Old House Borers, Powder Post Beetles
<b>chloryrifos</b>	
DURSBAN (Dust) (1%)	Carpenter Bees
DURSBAN (Liquid) (15%)	

Insecticide and Formulation (%)	Kills
<b>cyfluthrin</b>	
CRACK AND CREVICE I (Aerosol) (1%)	Carpenter Ants, Carpenter Bees, Old House Borers, Powder Post Beetles, Subterranean Termites
CY-KICK (Aerosol) (0.1%)	Carpenter Ants, Carpenter Bees, Old House Borers, Powder Post Beetles, Subterranean Termites
CY-KICK CS (Aerosol) (6%)	Carpenter Ants, Carpenter Bees, Old House Borers, Powder Post Beetles, Subterranean Termites
CY-KICK PT (Aerosol) (0.1%)	Old House Borers, Powder Post Beetles
FASTOUT CS (Foam) (0.1%)	Old House Borers, Powder Post Beetles, Subterranean Termites, and Drywood Termites
<b>cypermethrin</b>	
DEMON WP ENVELOPE (Liquid) (40%)	Carpenter Ants, Carpenter Bees
DEMON WP INSECTICIDE-1-ENVELOPE (Liquid) (40%)	Carpenter Bees
CYNOFF (Liquid) (0.2%)	Carpenter Bees
DEMON MAX EC (Liquid) (425.3%)	Old House Borers, Powder Post Beetles
CYNOFF WP (Dust) (40%)	Carpenter Ants
<b>d-limonene</b>	
MOTHER EARTH PROCITRA DL (Aerosol) (10%)	Carpenter Bees, Subterranean Termites, Old House Borers, Powder Post Beetles
<b>deltamethrin</b>	
D-FOAM (Foam) (0.06%)	Subterranean Termites
<b>diflubenzuron</b>	
ADVANCE TERMITE BAIT (Bait) (0.25%)	Subterranean Termites
<b>dinotefuran</b>	
ALPINE PRESSURIZED INSECTICIDE (Aerosol) (0.5%)	Carpenter Ants, Old House Borers, Powder Post Beetles
ALPINE AND AND TERMITE FOAM (Foam)	Carpenter Ants, Drywood Termites, Old House Borers, Powder Post Beetles, Subterranean Termites
<b>disodium octaborate tetrahydrate</b>	
GOURMENT LIQUID ANT BAIT (Liquid) (1%)	Carpenter Ants
JECTA GEL (Gel) (40%)	Old House Borers, Powder Post Beetles
JECTA DIFFUSIBLE BORACIDE (Chalk)	Subterranean Termites
<b>esfenvalerate</b>	
ONSLAUGHT (6%)	Carpenter Ants, Carpenter Bees, Old House Borers, Powder Post Beetles, Drywood Termites
<b>fipronil</b>	
TERMIDOR (Liquid) (9.1%)	Carpenter Ants
TERMIDOR 80WG TERMITICIDE/INSECTICIDE (Liquid) (80%)	Carpenter Ants, Drywood Termites, Subterranean Termites
<b>geraniol and lemongrass oil</b>	
MOTHER EARTH EXEMPT (Aerosol) (6.0%, 0.5%)	Carpenter Ants, and Subterranean Termites
<b>hexaflumuron</b>	
SENTRICON IG (Bait) (5g/kg)	Subterranean Termites
<b>hydramethylnon</b>	
COMBAT OUTDOOR ANT-KILLING GRANULES (Bait) (1%)	Carpenter Ants
<b>imidacloprid</b>	
DOMINION ZL (Liquid) (21.4%)	Carpenter Ants, Drywood Termites

Insecticide and Formulation (%)	Kills
<b>lambda-cyhalothrin</b>	
CYONARA 9.7 (Liquid) (9.7%) 221L (Aerosol) (0.05%)	Carpenter Ants, Carpenter Bees Carpenter Ants, Carpenter Bees, Old House Borers, Powder Post Beetles, Subterranean Termites
CYHOLOCAP CS (Liquid) (9.7%)	Carpenter Ants, Old House Borers, Powder Post Beetles, Subterranean Termites
TERMINATE TERMITE AND CARPENTER ANT KILLER	Carpenter Ants, Subterranean Termites
<b>methyl bromide</b>	
BROM-O-GAS (Fumigant) (98.0%)	Old House Borers, Powder Post Beetles
TERR-O-GAS (Fumigant) (67.0%)	Old House Borers, Powder Post Beetles
METH-O-GAS Q (Fumigant) (99.5%)	Old House Borers, Powder Post Beetles, and Drywood Termites
METH-O-GAS 100 (Fumigant) (95.5%)	Old House Borers, Powder Post Beetles, and Drywood Termites
CARDINAL METHYL BROMIDE (Fumigant) (100%)	Old House Borers, Powder Post Beetles, and Drywood Termites
CARDINAL METHYL BROMIDE Q (Fumigant) (100%)	Old House Borers, Powder Post Beetles, and Drywood Termites
CARDINAL METHYL BROMIDE 98-2 (Fumigant) (98%)	Old House Borers, Powder Post Beetles, and Drywood Termites
CARDINAL PIC-BROMIDE 25 (Fumigant) (75%)	Old House Borers, Powder Post Beetles, and Drywood Termites
<b>MGK264, piperonyl butoxide, and pyrethrum</b>	
CARDINAL 3-6-10 INSECTICIDE (Fogging Agent) (3%, 6%, 10%)	Old House Borers, Powder Post Beetles, and Drywood Termites
CARDINAL 3-2-1 INSECTICIDE (Fogging Agent) (3%, 2%, 1%)	Old House Borers, Powder Post Beetles, and Drywood Termites
PYROCIDE 100 (Fogging Agent) (3%, 2%, 1%)	Old House Borers, Powder Post Beetles, and Drywood Termites
PYROCIDE 300 (Fogging Agent) (10%, 6%, 3%)	Old House Borers, Powder Post Beetles, and Drywood Termites
<b>orthoboric acid</b>	
NIBAN GRANULAR BAIT (Bait) (5.0%)	Carpenter Ants
<b>permethrin</b>	
PERMACAP CS (Liquid) (23.0%)	Carpenter Ants, Carpenter Bees, Old House Borers, Powder Post Beetles
PERMETHRIN SFR 36.8 (Liquid) (36.8%)	Drywood Termites, Old House Borers, Powder Post Beetles
TENGARD SFR TERMITICIDE AND INSECTICIDE	Subterranean Termites
<b>phenyl methylcarbamate</b>	
INVADOR HPX (Aerosol) (1%)	Subterranean Termites
<b>phosphine</b>	
VAPOR PH3OS (Fumigant) (97-98%)	Old House Borers, Powder Post Beetles, and Drywood Termites
<b>propoxur</b>	
250 PROPOXUR (Aerosol) (1.0%)	Carpenter Ants, Carpenter Bees, Subterranean Termites
250 PROPOXUR RESIDUAL INSECTICIDE AEROSOL (Aerosol) (1.0%)	Carpenter Ants
<b>pyrethrins</b>	
PYGANIC DUST (Dust)	Carpenter Ants
<b>pyrethrins and piperonyl butoxide</b>	
MIRCO CARE 3% CS (Liquid) (3.0%, 15.0%)	Carpenter Ants
RIPTIDE (Fogging Agent) (5.0%, 25.0%)	Drywood Termites, Old House Borers, and Powder Post Beetles
VAMPYRE (Fogging Agent) (3.0%, 30.0%)	Drywood Termites, Old House Borers, and Powder Post Beetles
PY-DRY (Dust) (1.0%, 10.0%)	Carpenter Ants, and Drywood Termites
<b>pyrethrins, piperonyl butoxide, and n-octyl bicycloheptene dicarboximide</b>	
ULD HYDROPY-300 (Bulk) (3.0%, 6.0%, 10.0%)	Carpenter Ants
JET STREAM FOGGING CONCENTRATE (Fumigant) (1.0%, 2.0%, 3.0%)	Old House Borers, Powder Post Beetles
<b>pyrethrins, piperonyl butoxide, and silica gel</b>	
TRI-DIE BULK (Dust) (0.6%, 4.8%, 8.0%)	Carpenter Ants, Drywood Termites, Subterranean Termites

Insecticide and Formulation (%)	Kills
<b>sulfuryl flouride</b>	
PROFUME (Fumigant) (99.8%)	Old House Borers, Powder Post Beetles, and Drywood Termites
<b>z-phenethyl propionate pyrethrins</b>	
ECO PCOAR-X (Aerosol) (1%)	Old House Borers, Powder Post Beetles

**WOOD PRESERVATIVES**

Wood Preservative	Kills	Amount to Use	Application	Comments
<b>copper 8-quinolinolate</b>				
WOODGUARD OIL-BASED WOOD PRESERVATIVE (0.675%)	Drywood Termites, Powder Post Beetles	See label.	Use low-pressure spray. Do not use airless spray equipment. Can also brush or roll on.	Recommended for exterior use only. Water repellent.
<b>copper naphthenate</b>				
COPPER-GREENS WOOD PRESERVATIVE (10%)	Drywood Termites, Powder Post Beetles	See label.	Brush on the surface of most woods. Dip soaking or pressure treatment will result in longer preservation.	For exterior use only. Moisture and weather resistant.
<b>disodium octaborate tetrahydrate</b>				
ARMOR-GUARD INDUSTRIAL (10 mg/m <sup>3</sup> ) (98%)	Drywood Termites, Old House Borers, Powder Post Beetles	1 lb./gal.	Apply with low-pressure sprayer or brush.	Apply above 40°F. Water resistant.
PENETREAT (>98%)	Subterranean Termites, Drywood Termites, Old House Borers, Powder Post Beetles, Carpenter Ants	6 gal. yields 27 gal. of 10% solution that will cover 4,050 sq.ft. Mix with warm water.	Apply with low-pressure sprayer or brush.	Apply above 40°F. Recommended for exterior use only. Water resistant.
<b>monoethanolamine copper naphthenate</b>				
WOODLIFE COPPER COAT (1-10%, 9.08%)	Drywood Termites, Old House Borers, Powder Post Beetles	See label.	Use low-pressure spray. Can also brush or roll on.	Recommended for exterior use only. Water repellent and moisture resistant.
WOODLIFE CREOCOAT (1-10%, 9.08%)	Drywood Termites, Old House Borers, Powder Post Beetles	See label.	Use low-pressure spray. Can also brush or roll on.	Recommended for exterior use only. Water repellent and moisture resistant.
<b>propylene glycol, polyethylene glycol, and disodium octaborate tetrahydrate</b>				
SHELLGUARD (30-50%, 30-50%, 20-30%)	Drywood Termites, Old House Borers, Powder Post Beetles	50-50 ratio of chemical and water. Yields 215 sq.ft. /gal. of concentrate	Apply with low-pressure sprayer or fine bristle brush.	Apply above 40°F. Recommended for exterior use only. Water resistant
SHELLGUARD RTU (n/a,n/a,10%)	Drywood Termites, Old House Borers, Powder Post Beetles	Ready to use.	Apply with low-pressure sprayer or fine bristle brush.	Apply above 40°F. Recommended for exterior use only. Water resistant.
<b>zinc naphthenate</b>				
GREEN'S CLEAR WOOD PRESERVATIVE (23.6%)	Drywood Termites	150-200 sq.ft./gal. Or 5-10 gal./100 board ft. (for dipping dimensional lumber)	Wood should be dry before application. Dip treatment at least 3 minutes per inch of thickness. Apply several coats by brush or spray.	It is a violation of federal law to use this product in a manner inconsistent with its labeling. Paintable with oil based paint within 48 hours. For exterior use only. Water repellent.

## 2011 IPM-1310

**For more information**, contact your county Extension office. Visit <http://www.aces.edu/counties> or look in your telephone directory under your county's name to find contact information.

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Use pesticides **only** according to the directions on the label. Follow all directions, precautions, and restrictions that are listed. Do not use pesticides on plants that are not listed on the label.

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The pesticide rates in this publication are recommended **only** if they are registered with the Environmental Protection Agency or the Alabama Department of Agriculture and Industries. If a registration is changed or canceled, the rate listed here is no longer recommended. Before you apply **any** pesticide, check with your county Extension agent for the latest information.

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Trade names are used **only** to give specific information. The Alabama Cooperative Extension System does not endorse or guarantee any product and does not recommend one product instead of another that might be similar.

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