



Georgia Department of Public Health

What should you do if you find bed bugs?

Because several different kinds of insects resemble bed bugs, specimens should be carefully compared with good reference images to confirm their identity. If any questions remain regarding the identity of your samples submit them to a competent entomologist for evaluation.

Once their identity is confirmed, a careful plan should be devised to eliminate the bed bugs in a manner that promotes success while limiting unnecessary costs and exposure to insecticides. Do not discard furniture and do not treat until and unless you have a plan.

What can you do to manage bed bugs?

Search for signs of bed bugs. Carefully inspect the bed frame, mattress, and other furniture for signs of bed bugs and their eggs. Although dead bed bugs, cast bug skins and blood spots may indicate an infestation occurred previously, they do not confirm that an infestation is still active. Search for live (crawling) bugs and ensure they are bed bugs before considering treating.

Reduce clutter to limit hiding places for bed bugs.

Thoroughly clean the infested rooms as well as others in the residence. Scrub infested surfaces with a stiff brush to dislodge eggs, and use a powerful vacuum to remove bed bugs from cracks and crevices. Dismantling bed frames will expose additional bug hiding sites. Remove drawers from desks and dressers and turn furniture over, if possible, to inspect and clean all hiding spots.

Mattresses and box springs can be permanently encased within special mattress bags. Once they are installed, inspect the bags to ensure they are undamaged; if any holes or tears are found, seal these completely with permanent tape. Any bugs trapped within these sealed bags will eventually die.

To prevent bed bugs from crawling onto a bed, pull the bed frame away from the wall, tuck sheets and blankets so they won't contact the floor, and place the frame legs into dishes or cups of mineral oil. Caulk and seal all holes where pipes and wires penetrate walls and floor, and fill cracks around baseboards and cove moldings to further reduce harborages.



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Hire a licensed pest control operator who is knowledgeable and experienced in managing bed bug infestations to confirm the infestation and to develop an integrated pest management plan. If you are a tenant, contact your property manager or landlord to discuss your respective obligations, and to agree on a plan to manage the infestation. If you find bed bugs in a hotel room, inform the hotel manager.

Because bed bugs and other pests may spread through cracks and holes in the walls, ceilings and floors, it is wise to inspect adjoining apartments or rooms on the same floor as well as those directly above and below.

What not to do.

- Don't panic. Although bed bugs can be annoying, they can be battled safely and successfully if you adopt a well-considered strategy.
- Do not apply pesticides yourself. Do not use: aerosol sprays – these will cause bed bugs to scatter or bug bombs - these do not kill bed bugs.
- Do not dispose of furniture that is useful. Infested furniture can be cleaned and treated. Placing infested furniture (particularly mattresses) into common areas or on the street may simply help spread bed bugs to the homes of other people. Infested furniture intended for disposal should be defaced to make it less attractive to other people.

How can you have specimens examined?

Specimens suspected of being bed bugs should be collected into small break-resistant containers (such as a plastic pill bottle or a zipper-lock plastic bag). They may also be secured to a sheet of white paper using clear packaging tape. These containers should be packaged carefully to prevent damage/crushing of the sample, and be sent to the Georgia Department of Public Health for identification (see address below).

What products are used to control bed bugs?

Insecticide formulations used to treat bed bug infestations consist mainly of the following:

- **Insecticidal dusts** abrade the insect's outer waxy coat and cause the bugs to dry out quickly. Some consist of a finely ground glass or silica powder. These dry dusts may be applied in cracks and crevices, as well as within the hollow interior of a tubular bed frame. Some dust formulations include another kind of insecticide.



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- **Contact insecticides** are those that kill the bugs shortly after they come into direct contact with the product or its residue. These mainly consist of one or more kinds of pyrethroids (synthetic analogs of the extract of chrysanthemum flowers). These products tend to rapidly 'knock down' bugs that wander over or otherwise contact the insecticide. Because pyrethroids can be irritating and repellent to many insects, bed bugs may avoid treated surfaces. A different kind of contact insecticide, chlorfenapyr, is now available in a product available to pest control operators. This product is non-repellent and effective for a longer period.
- **Insect Growth Regulators (IGRs)** affect the development and reproduction of insects. Although these products can be quite effective in reducing the population of the pests, they do not kill bugs quickly. Thus, pest control operators often use these products as a supplement to other kinds of insecticides.

What might you do when returning from a visit to an infested residence?

Travelers increasingly encounter bed bugs during their stays away from home. If signs of bed bugs were observed or suspected, consider the possibility that you may have unwittingly transported bed bugs or their eggs in your luggage and other personal effects. Clothing should be laundered in very hot water to kill bugs and their eggs before or as soon as these items are brought back into the home. Suitcases should be carefully inspected, scrubbed with a stiff brush, and thoroughly vacuumed. Leaving such luggage for several hours in a closed vehicle in full summer sun may render the items bug free.

For insect identification, contact: Rosmarie Kelly PhD, Public Health Entomologist, Georgia Department of Public Health, 2 Peachtree St NW, 13-405, Atlanta, GA 30303, phone 404-408-1207.



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