

They're Back: IPM and Bed Bugs

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Why are they back?

- GLOBAL TRAVEL & IMMIGRATION
- PESTICIDE USE
 - Change in available pesticides
 - Change in use patterns
 - Possible resistance
- LACK OF KNOWLEDGE



LACK OF PUBLIC AWARENESS?



INTEGRATED PEST MANAGEMENT

Combination of all available methods to manage pests with pesticides as a last resort.



INTEGRATED PEST MANAGEMENT

- IDENTIFICATION
- INSPECTION
- PLANNING
- EDUCATION
- SANITATION
- EXCLUSION
- TREATMENT
- MONITORING



IDENTIFICATION



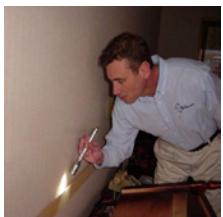
- Confirm that bed bugs are actually present
- Get a positive ID



**Oval, Flat (or)
Long, Cigar-shaped**



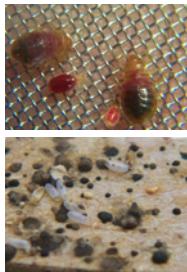
INSPECTION



- Very thorough
- All potential harborage sites
- Inspect adjacent rooms (above, below & both sides).



What are we looking for?

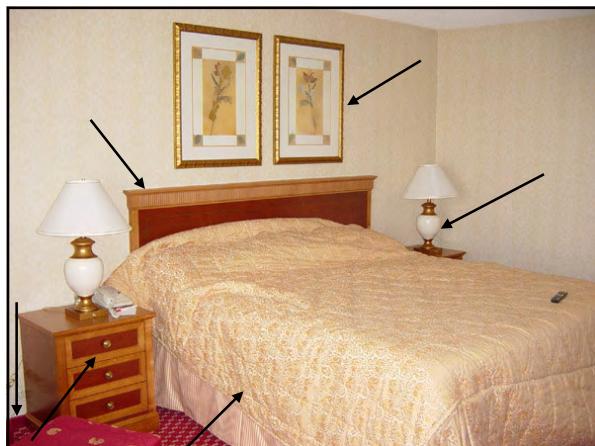




Where do we inspect?

<ul style="list-style-type: none">• Mattress & bedding• Night stands• Headboards• Bed frames• Dressers• Picture frames• Pipe chases• Outlet covers	<ul style="list-style-type: none">• Baseboards• Floor cracks• Paneling• Peeling wall paper• Wheel casters• Decorative items• Luggage• Others?
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PLANNING



- Client cooperation
- Pricing
- Contracts



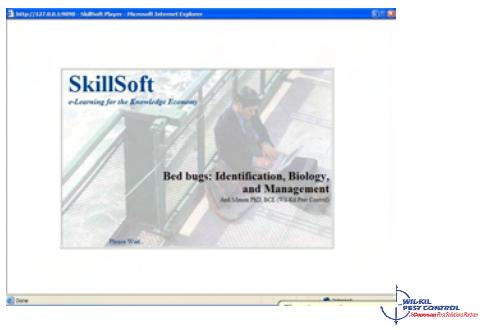
EDUCATION



- Yourself
- Your technicians
- Your customers



COPESAN UNIVERSITY



SANITATION



- Clutter provides harborage for bed bugs
- Makes inspection & treatment difficult



EXCLUSION



- Bed bugs can find harborage in any crack or crevice.
- Difficult to physically exclude them from a facility
- Chemical exclusion?



HOT OR COLD



- Steam treatments
- Freeze smaller items
 - Temperatures of minus 22°F or below



CHEMICALS



- Treat every existing and potential harborage
- Residual liquids & dusts
- Insect growth regulators
- Fumigation



MONITORING



- Detect and eliminate pests before they become a problem
- Confirm that the treatment was successful



WAR ON BUGS

- Hospitality and Tourism industry impacted.
- The Hawaiian Legislature introduced a legislation (SCR 69) to promote awareness and to help prevent bed bug infestations.



THANK YOU!

