BMSB From the Perspective of an Urban PCO



Richard Cooper Rutgers University & Cooper Pest Solutions

Stink bugs gaining attention in the urban environment WEST VIRGINIA

Sunday, Edbruary 21, 2010 There's something in the air, but it smells nothing like spring

pears Lesson learned; In my man cave, death-by-toilet is now the preferred method of exterminatio Despite the bug-kills Kevin Riordan They're compact, the Invading Area Homes, So much Bugs Invading Crops Stink Bugs Farmers' Crops Attacking Farmers' Combat Sont Attacking Marea Advice To Combat Sont es of humans. 13 perfile (a) L'annerts (a). Externingfor Offers Advice To Combat Stink

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Stink Bugs Invade Homes In

Susquehanna Valley

Stinky pest finds its way into WV homes

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rentruch - Many Pittsburgh-area residents have contacted . News in say that living with the current stink bug with how to get rid of them.

Stink bugs present a growing problem in N.3. as

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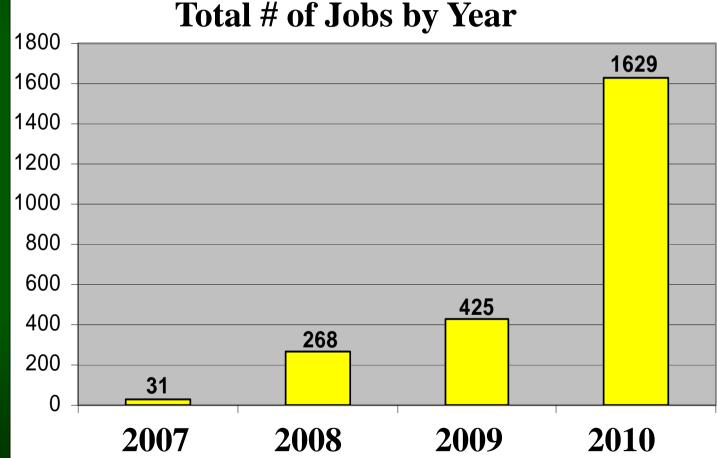
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Increase in BMSB Activity







Data Source: Cooper Pest Solutions





What's the Big Deal They're Just a Nuisance, Right?







BMSB is Different Than Other Over-wintering Pests!

- Enter earlier and leave later than other over-wintering pests
- Active throughout entire winter
 - Get into people's stuff clothes, bed sheets, in boxes, amongst piles of papers, etc.. (becomes infuriating)
 - Very active at night and attracted to lights (disruptive & creates anxiety)
 - Very problematic in sensitive environments (i.e. hospitals, FDA & USDA regulated facilities, etc.)

Typical Industry Response

Repeated treatment indoors where clients seeing bugs!

End Result:

Unnecessary Exposure To Pesticides With Little to No Benefit!

Cooper Pest approached BMSB the same as other over-wintering pests

Exterior

• Recommend sealing gaps around windows, flashing...

• Treatments made around roof flashing, window frames, weep holes (lift work often required)







Interior:



Non chemical approach

- Sealing gaps around windows, outlets, etc...
- Vacuuming by technician at time of service
- Light traps in drop ceilings
- Glue boards in drop ceiling by light fixtures



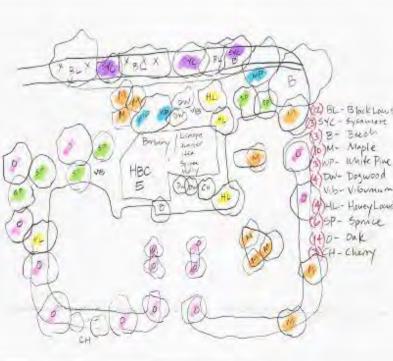




Results have generally been poor for BMSB

Believe this was largely a "Timing" Issue!

2008' Cooperative Effort with Rutgers University

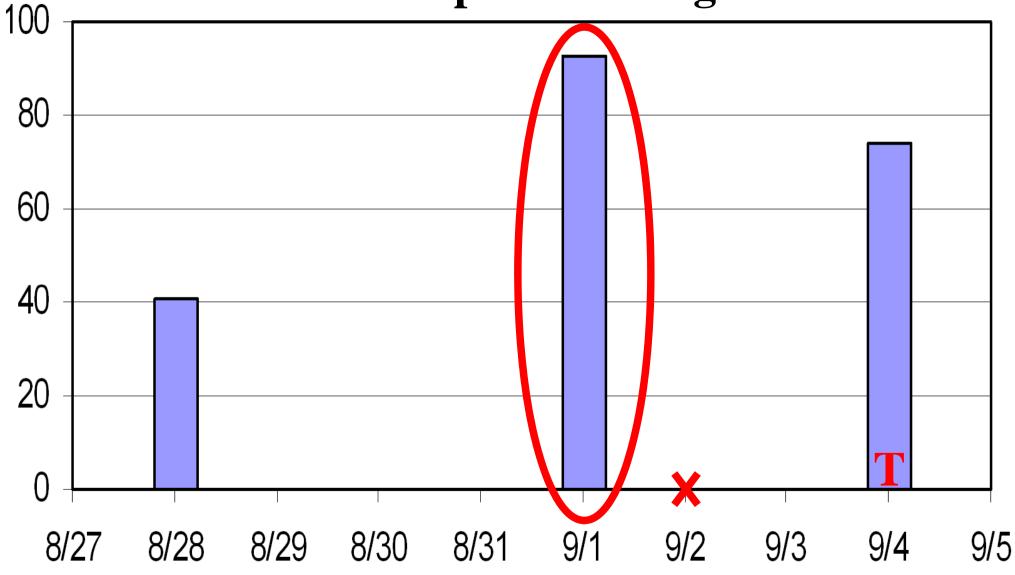




Beat Sampling

Pheromone Traps

Total Trap Catch Bldg 5



Data: Courtesy of Dr. George Hamilton

Want to be able to predict & prevent pest entry based upon relationships between buildings and host plants

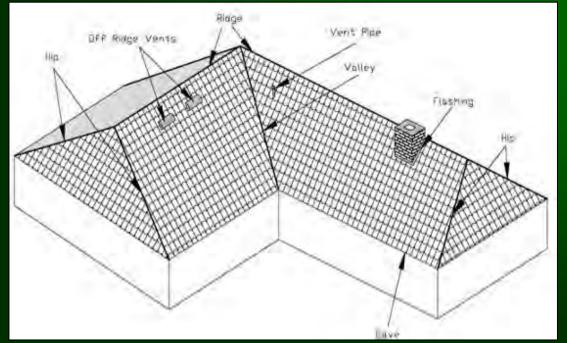


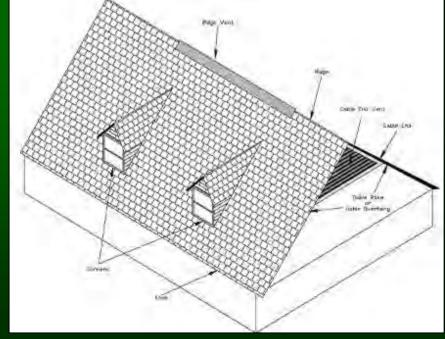
BMSB Management on Residential Properties



Focus is on treatment of exterior points of entry







Interior: Treatment limited to attics









Feb/March 2010' Customer Satisfaction Survey

"I was told this was only a reduction service and..."

Wow "I haven't seen any since the time of treatment."

Good "the #'s were significantly reduced I would pay for the service again."

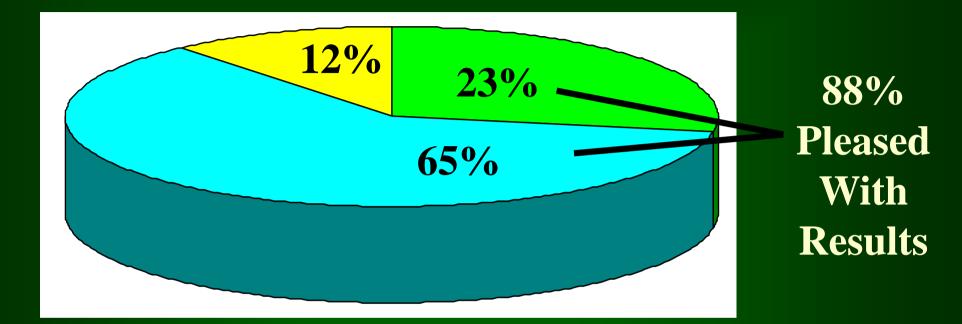
"I was disappointed in the level of reduction and would not pay for the service again."

Fail

Poor

"I was completely dissatisfied, it was like you were never here."

Customer Satisfaction (09'/10')





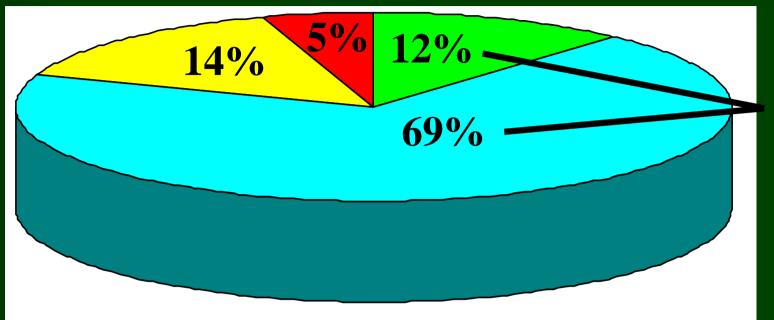
Contacted 72 Clients 30 responded to the survey = 42% response rate

Summer 2010' Rolled Out Residential Campaign

Treatments first two weeks of September

- Set expectations at 90% reduction in activity compared to what they were accustomed to seeing
- Provided an unlimited service plan if treatments provided before September 15th

Customer Satisfaction (10'/11')



81% Pleased With Results

Wow Good Poor Fail

Contacted 220 Clients 123 responded to the survey = 56% response rate

A Need For Research!

- 1. What attracts them to structures, i.e. color, size, shadows, compass direction, etc?
- 2. How far do they typically travel from host plants to structures for over-wintering (scope of concern)
- 3. What are the most effective methods for preventing entry into structures i.e. targeted applications to host plants, mass trapping, trap plantings, etc?
- 4. What triggers them to leave structures and is there another opportunity to control them at that time?
- 5. Insecticide studies i.e. efficacy, residual lifespan, etc..

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Thank You



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