

WHEA Lunch & Learn Series Webinar

“Be Bed Bug Aware-Not Bed Bug Scared”

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IDENTIFICATION



Male



Female



Adults

- Easily seen with naked eye
- Reddish-brown, wingless, size of an apple seed



Nymphs

- Yellowish/translucent
- Bright red after blood meal



2nd instar bed bug (Scale in 32nds of an inch)

Mistaken Identity

- German Cockroach
- Larder Beetles
- Carpet Beetles
- Ticks
- Debris (lint or dirt)



SIGNS YOU MAY HAVE A PROBLEM

Bed Bug Red Flags



Bed Bug Bites

Do not diagnose a bed bug infestation
based on bites alone!

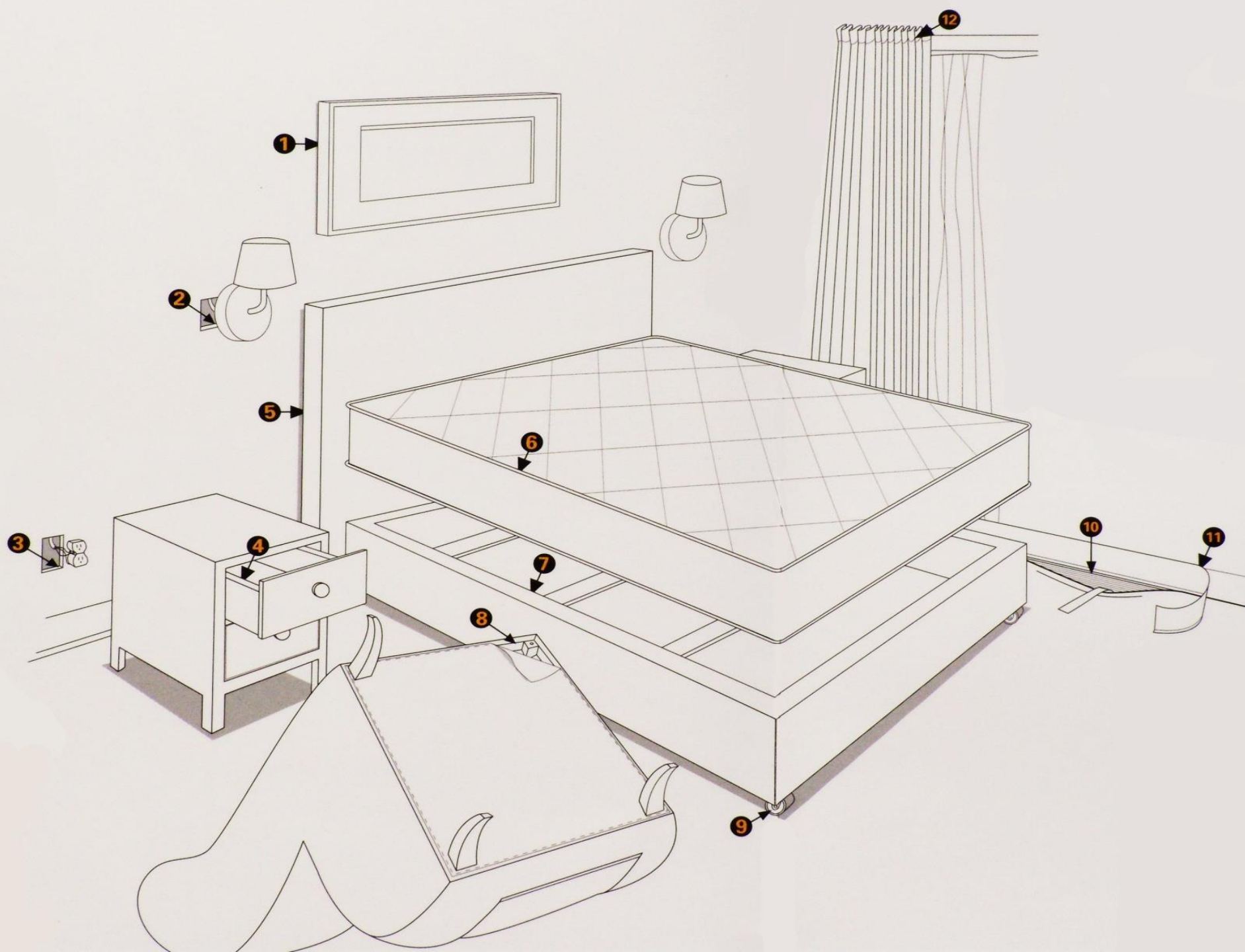


HOW TO PERFORM AN INSPECTION

Visual Inspections

What do I need for an inspection?





Visual Inspections

Linens

- Slowly peel back sheets



Visual Inspections

Mattresses

- Piping, tufts, folds, tags



Visual Inspections

Box Springs

- Wooden frame
- Plastic edge guards
- Fabric backing



Visual Inspections

Bed Skirts

- Under mattress, corners and folds

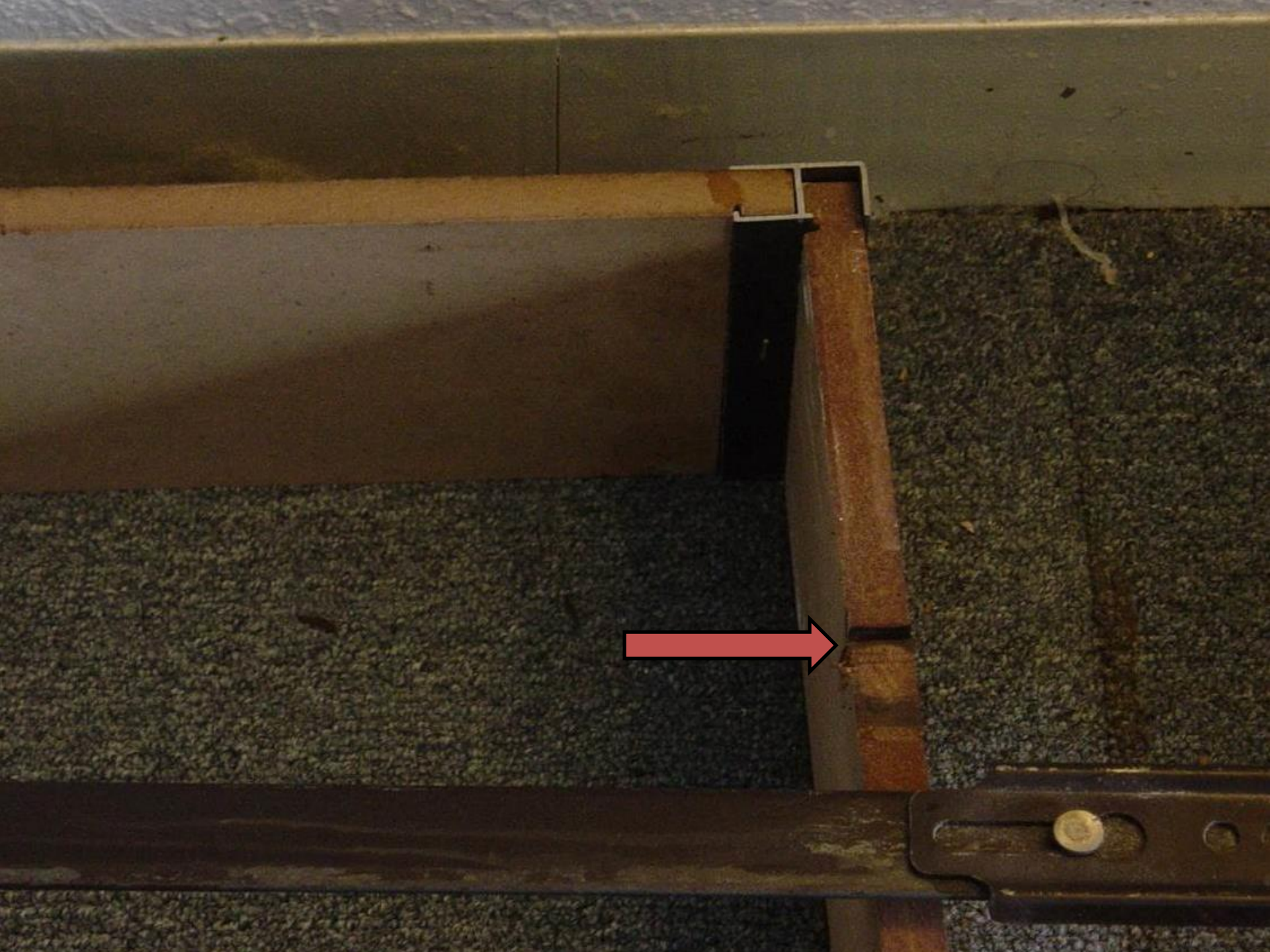


Visual Inspections

Bed Frames

- Several hiding spots







Visual Inspections

Surrounding areas

- Baseboards
- Peeling wallpaper
- Popcorn ceiling



Visual Inspections

Furniture



Visual Inspection

- Drapes
- Pictures frames
- Night stands
- Electrical outlets
- Curtains



I Found A Bug, Now What?

- Collect a sample
- Have a plan
- Keep cool



PREVENTING AND ADDRESSING OUTBREAKS

The Spread of Bed Bugs

- Luggage
- Backpacks
- Purses
- Clothing
- Used furniture

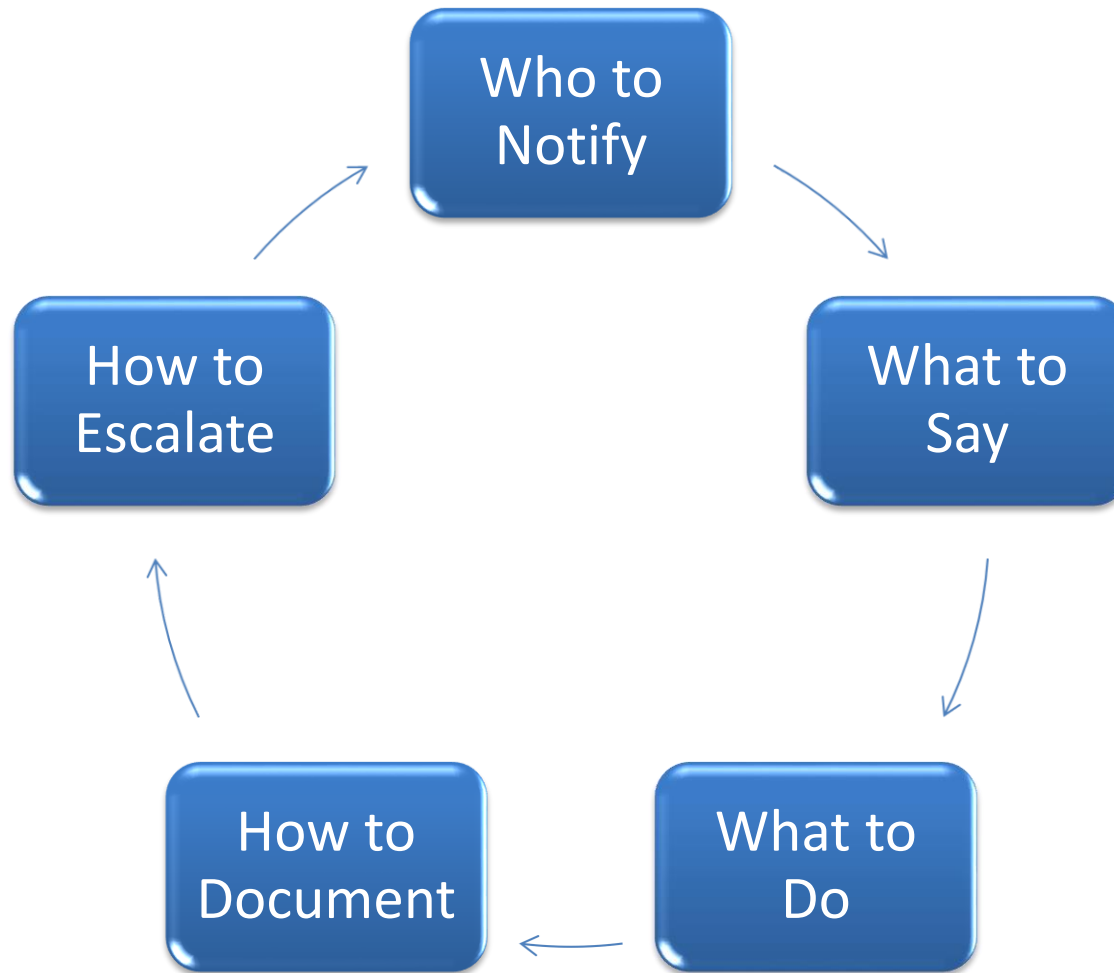


Be Proactive

- Perform inspections (*document everything*)
 - **Annually** (*at a minimum*) with a professional
 - **Ongoing** with staff
- Educate staff, guests and patients
- Create an action plan



Action Plans



K9 SCENT DETECTION

Chicken Noodle Soup

- What humans smell



Chicken Noodle Soup

- What dogs smell



Training



- J&K Academy High Springs, FL



- Obedience/Training Division



– Training dogs in scent detection in:

- Agricultural
- Government
- Conservation
- Entomology



Bed Bug Training Program

February						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	(2016, 2020)					

March						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

July						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Dog and staff
1 on 1

Bed Bug Training Program



MON	TUES	WED	THURS	FRI	SAT	SUN

Dog and handler

- Field work**
- Written test**

Bed Bug Training Program



**Final field test to
graduate**

Certifications



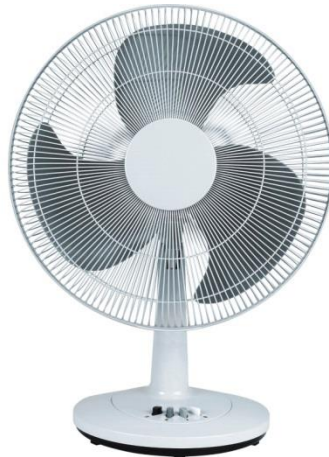
(NESDCA) National Entomology Scent Detection Canine Association

- Alerts to only live bed bugs and or viable bed bug eggs
- Each team (dog and handler) must pass annual test

K9 INSPECTION

K9 Inspection

- What needs to be done prior to team's arrival?
- Control the environment!























K9 Advantage



- ✓ **Efficiency**
- ✓ **Accuracy**
- ✓ **Documentation**
- ✓ **Peace of Mind**





MEET THE TEAMS

K9 Teams

- 3 teams
- All teams are Wil-Kil employees
- Cover entire service footprint



Max



Max

- 9 years old, pure bred beagle
- Florida
- Started with Wil-Kil: Jan 2010
- Lives in Racine, WI
- First scent detection dog for hire in state of WI
- Best friend/Handler: Rick



Daisy



Daisy

- 8 years old, pure bred beagle
- Rescue from Florida shelter
- Started with Wil-Kil: 2011
- Lives in Milwaukee, WI
- Best friend/Handler-Mike



Bull



Bull

- 2 ½ year old, beagle-hound mix
- Georgia, deer herding background
- Started with Wil-Kil: Feb 2016
- Lives in Wisconsin Dells, WI
- Best Friend/Handler: Jason









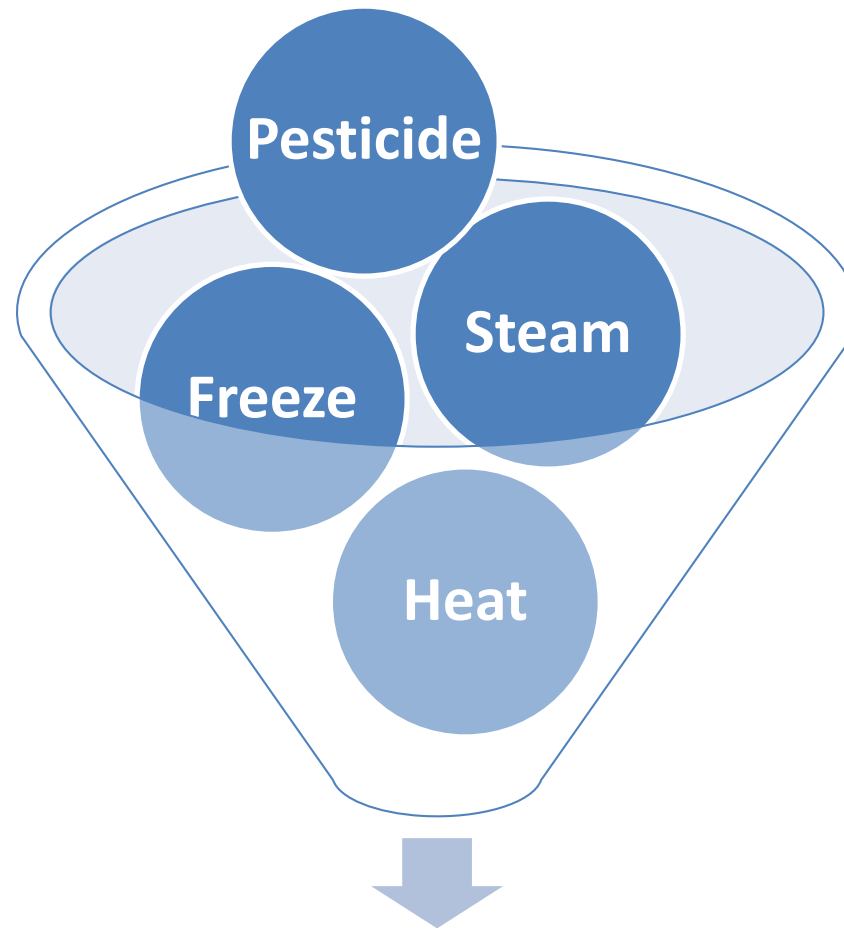
TREATMENT OPTIONS FOR BED BUGS

Prior to Selecting Treatment

- Do not panic
- Do your homework
- Ask questions



Several types of Treatments



Best for You

Professional Options

- Steam
 - Time consuming
 - High margin for error
 - Not treating all areas



Professional Options

- Cryonite (freeze)
 - Similar to steam
 - 0 F for 3-4 days



Professional Options

- Conventional (Pesticide)
 - Low infestation
 - Isolated to one area
 - Cost-efficient



Professional Options

- Thermal Remediation (Heat)
 - Effective
 - Minimal preparation
 - Quick turnaround
 - Large/widespread infestations
 - Warranty



Health Care Facilities



- Common strategy:
 - Thorough inspection
 - Pesticide application
 - In house deep clean
 - Release room back into service

HEAT TREATMENT BEST PRACTICE

Equipment



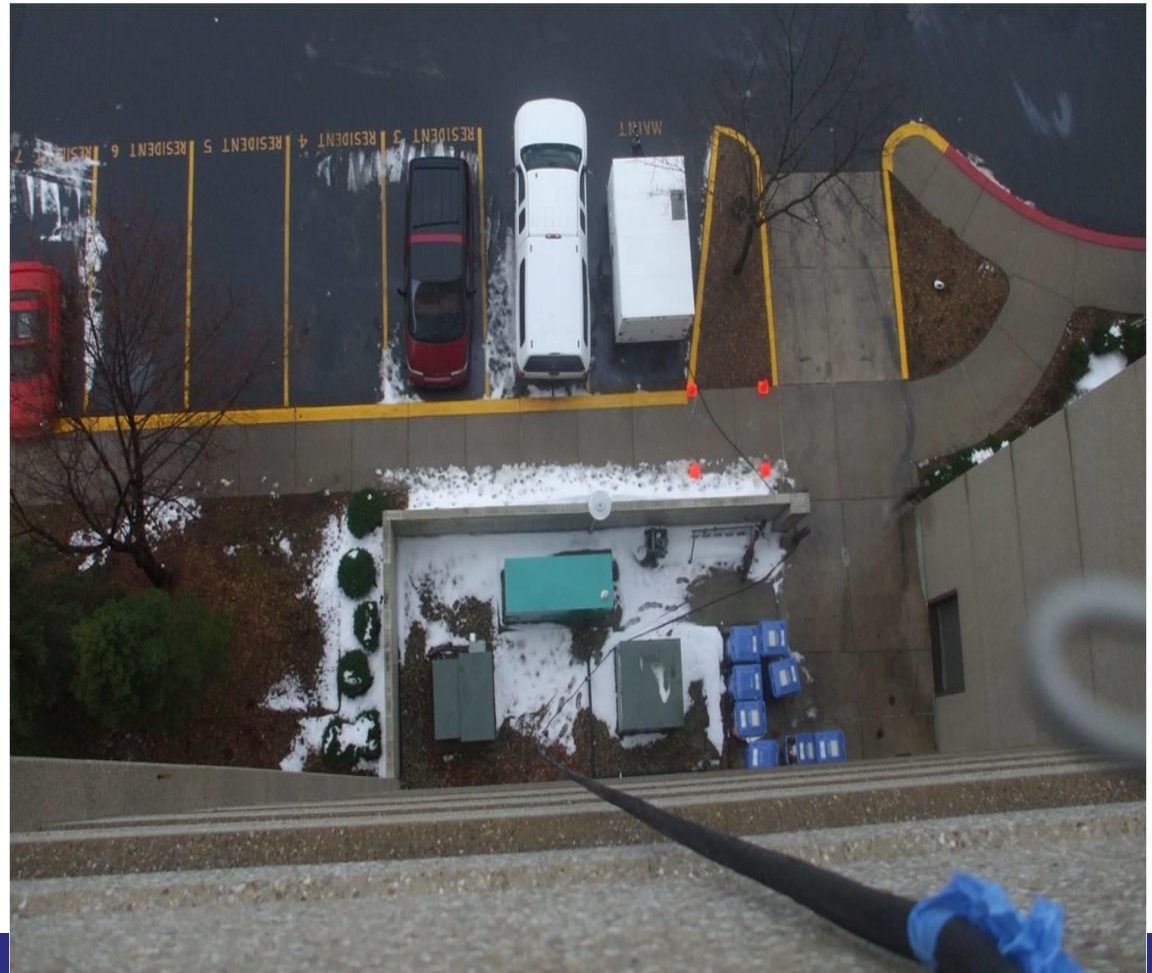
Equipment

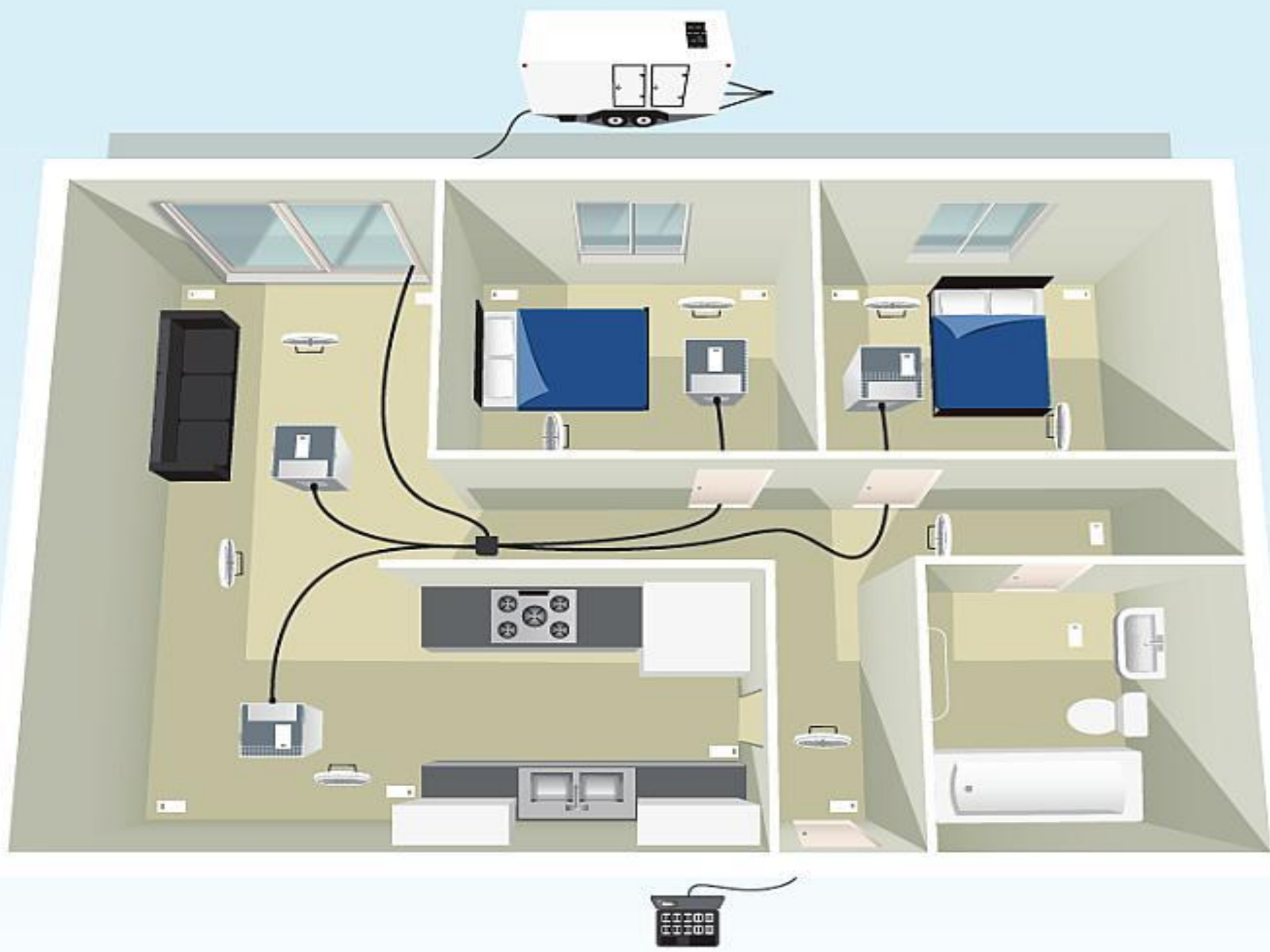
- One heat rig (truck, equipment and trailer)
 - 1-2 bed apt
 - Some 3 bed apt/townhouse
 - Hotel rooms



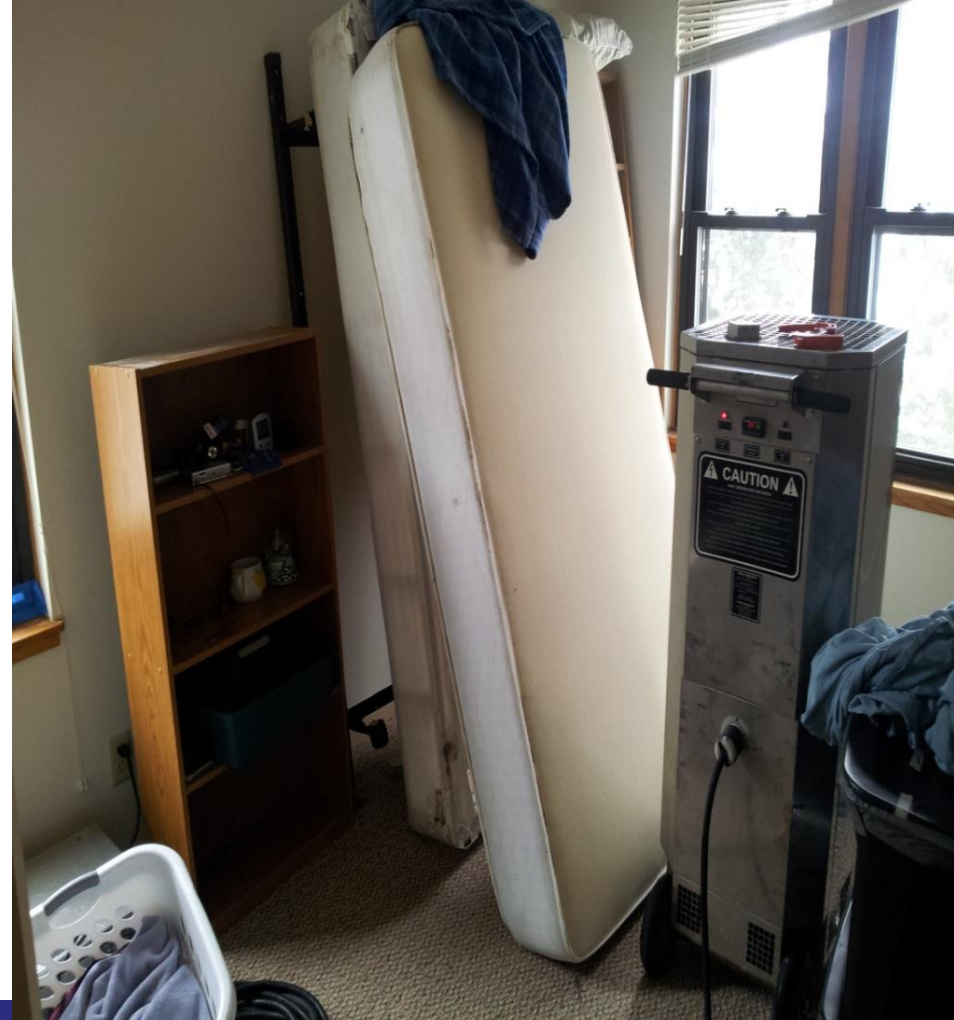
Equipment

- Trailer to unit
 - 300' of cord
 - 25th floor





Treatment Day



Treatment Day









Treatment Day

- Treatment unit
- Inspection
- Pesticide applications
 - Adjoining units
 - Hallways
 - Common rooms



Summary

- Proper Identification
- Action Plan in Place
- Ongoing Inspections



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