

Messiah University
Bed Bug Policy and Procedure
December 2024

Policy: The infestation of Bed Bugs is a very serious situation that must be handled quickly, decisively and with proper communication by everyone involved.

Objectives: Identify the bug
Exterminate the bug
Communicate the details professionally
Follow up thoroughly to avoid a re-flaring of the problem

Equipment: Steri-Fab® Insecticide
Prozap® Insect Guard Jr. Pest Strips
Plastic Containers
Storage Container(s)
Ziploc Bags
Rolls of Trash Bags
Vacuum Cleaners with HEPA filtration

Resource: Bed Bug Dog – Ehrlich
Doug Crawford
717-669-1412

Responsibility: Departments Involved:
Residence Life
Campus and Building Services
Facility Services
Marketing and Communications
Health Services

Procedure: Handling of bed bug reports should be as follows:

Step Action

1. To determine what bugs are in the apartment/room (see attachment F for Flow Chart)
 - a. Calls about bed bugs should be directed immediately to the Director of Housing.
 - b. The Director of Housing will gather information from the students to determine what course of action needs to be taken (using the template located at M: drive /Housing Bugs/Bug Question Template – Attachment D)
 - c. When the Director of Housing determines that a room check is needed, immediately contact X6011 and Facilities Assistant to check room. (steps b & c may happen simultaneously)
 - d. Our preferred method is to handle this issue during regular hours. However, if an issue arises **off hours**, then do the following
 - i. The RD on Call should perform duties described in 1.b. above,
 - ii. If a bed bug search is needed
 1. Call Facilities Assistant
 2. If Facilities Assistant is not available, then call on campus C&BS Staff/Weekends
 - iii. C&BS Staff supervisory team on all shifts will be trained annually in January by the Facilities Assistant on how to search for bedbugs
 - iv. The C&BS supervisory team will have a list of mattress and bag locations in the North and South Complexes, so mattress switches can be made
 - e. If bedbugs are found at any point, move to #2
 - f. If bedbugs are not found and there are bites
 - i. Nursing Practitioner Visit—if NP determines the bites are likely from bed bugs, move to #2 and do treatment
 - ii. If multiple suspected rooms, arrange for a Bedbug Dog visit
 - iii. Ehrlich visit within 3 days, if recommended
 - iv. Housing meeting follow up for next 3 weeks
 - v. C&BS provide: hepa vac, large trash bags, change mattress
 - g. If no bedbugs are found
 - i. Ehrlich check during next scheduled visit
 - ii. Director of Housing follows up weekly via email
 - iii. C&BS provide items as necessary to provide comfort (see point 1.f.v. above)

2. Exterminating Bed Bugs (once identification has been made)
 - a. The Facilities Assistant will contact the pest company (Ehrlich) ASAP or at the latest within 1 business day of finding a bug
 - b. The Facilities Assistant will coordinate help from professional staff (Facilities and Residence Life)
 - c. Email or call C&BS Res Hall Supervisor (x2549) and ask for a roll or couple of rolls of large plastic bags, bins (stored in Kelly B2) and the vacuum cleaner (HEPA filtered) with disposable bags to be delivered to the room/apt. (The students vacuum after treatment)
 - d. The Facilities Assistant (with a PA Pesticide Applicators License) will retrieve pest strips from the Lenhart Supply and will place the strips in the bins and bags containing the students' un-washable items
 - e. Talk with the C&BS Worker and the Res Hall Supervisor to make sure protocol has been followed
 - f. Call Ehrlich and see when they can come out to treat room/apt. Set up for around 10:00 a.m. so students can return around mid-afternoon
 - g. Contact the Director of Housing with all the above details and when spraying will be done. The Director of Housing will notify the RD of the building
 - h. Please Note: Surrounding infested rooms may also need to be prepared for treatment and treated as well
 - i. All furniture must be moved away from the walls so Ehrlich can come in and spray cracks and crevices, and carpeting
Campus & Building Services can assist with the disassembling of furniture
 - j. All wall/ceiling mounted items may need to be removed. This will be determined by our Ehrlich Rep. This will be completed by Facility Maintenance
 - k. All infested personal furniture must be disposed of, if necessary, before treatment and replace any mattresses that were infested after treatment is completed
 - l. If more than one room/apt are involved or if students are requesting relocation, contact the Director of Housing to relocate students. Relocating should be avoided as much as possible, due to possible spread of bed bugs.
 - m. Contact the Vice President of Operations to handle all public relations related issues/communication
 - n. Send information through email to distribution list that includes the following:
 - i. Facilities Administrative Assistant (1)
 - ii. Facilities Administrative Assistant (2)
 - iii. Facilities Assistant
 - iv. C&BS Manager
 - v. C&BS Res Hall Supervisor
 - vi. Director of Facilities
 - vii. Facilities Manager
 - viii. Dean of Students
 - ix. Director of Residence Life
 - x. Director of Housing
 - xi. Director of Buildings and Grounds
 - xii. Coordinator of Health Services
 - o. If a number of rooms are affected the Facilities Assistant will:
 - i. Coordinate with the Facilities Project Manager to order storage trailers if necessary
 - ii. Coordinate with Campus & Building Services and Residence Life to move containers to and from large storage containers
3. Communicating with the students involved:
 - a. Residence Life will contact the student(s) and give them the following information:
 - i. The Director of Housing and the RD for their building has been notified and will be contacting them
 - ii. Tell the students to remove all their bed linens, wash (in hot water if possible and dry them for one hour on the hottest setting)
 - b. The Director of Housing will work with the RD to serve as the liaisons with the students. The RD will:
 - i. Meet with the students and distribute the "Student Bed Bug Information & Checklist" (See Attachment C) which explains all the details of packing, treatment, unpacking and laundry, etc.
 - ii. Tell the students to remove all items from the floor, and place items in plastic bags. A Facilities Employee who has a pest control applicators license will place pest strips in bags and seal them. (The pest strip needs to stay in the closed plastic bag for at least 48 hours)
 - iii. Assist students with packing and labeling their belongings, if needed
 - iv. RD will physically go and check the room/apt to make sure the floor is completely clear of students' personal belongings, and all items are bagged in plastic bags with pest strips. Make sure computers and all electronic equipment are turned off and unplugged. Make sure no fish or plants are in room/apt. Make sure furniture is moved approximately 1 ½ - 2 feet away from the walls
 - v. If one room/apartment is involved the RD will communicate with the students involved (and the rooms/apts surrounding it) and will contact the point person. If more than one room/apartment is displaced, the Director of Housing will work with Res Life staff and Campus & Building Services

c. The Director of Housing will:

- i. Communicate with students when the initial treatment and two follow up treatments are scheduled
- ii. Contact the Associate Vice President of Marketing and Communications to keep them informed in the event that a broader communication response (i.e. beyond students) becomes necessary, at the request of the Dean of Students
- iii. Send a confirmation email reminding students to be ready for the treatment and what has to be done to be totally "ready" for treatment
- iv. Follow up weekly with the students to make sure they are no longer being bitten or seeing bed bugs

4. After first spraying

a. Campus & Building Services will:

- i. Keep a detailed spreadsheet of the expenses incurred. (Assigned to the Facilities Administrative Assistant (2))
- ii. After the pest strips are in the bags for at least 48 hours, the Licensed Facility Employee will retrieve all used pest strips and dispose of them as per the instruction on the package
- iii. Schedule a follow-up treatment for about 10 to 14 days from the first treatment date
- iv. Keep a detailed log/diary of all information (with treatment dates) so it can be referred to at a later date. (See Attachment D). The template can be found on M: drive /Housing Bugs/Bug Question Template – Attachment D, and is accessible by all:

1. Res Life Staff
2. Facilities Administrative Assistant (1)
3. Facilities Administrative Assistant (2)
4. Facility Assistant
5. C&BS Manager
6. C&BS Res Hall Supervisor
7. Director of Facility Services

v. Keep in communication with the Director of Housing to make sure students are not getting any more bites. Have room/apt periodically checked and recorded in Campus & Building Services' log

b. Residence Life will:

- i. Communicate with students when the two follow up sprayings will be scheduled
- ii. The Director of Housing will send a confirmation email reminding students to be ready for the treatment and what has to be done to be totally "ready" for treatment
- iii. RD will physically go and check the room/apt to make sure the floor is completely clear of students' personal belongings, and all items are bagged in plastic bags with pest strips. Make sure computers and all electronic equipment are turned off and unplugged. Make sure no fish or plants are in room/apt. Make sure all furniture is moved approximately 1 ½ - 2 feet away from the walls
- iv. The Director of Housing will keep a detailed log of all information so it can be referred to later, if needed. (See Attachment D.) The template can be found on M: drive /Housing Bugs/Bug Question Template – Attachment D, and is accessible by all:

1. Res Life Staff
2. Facilities Administrative Assistant (1)
3. Facilities Administrative Assistant (2)
4. Facilities Assistant
5. C&BS Manager
6. C&BS Res Hall Supervisor
7. Director of Buildings and Grounds

v. The Director of Housing will follow up with the students to make sure they are no longer being bitten or seeing bed bugs

5. If after three rounds of treatment, bugs are still being found a meeting of the Facilities Assistant, Res Life, the students & the pest control company should be held

6. Managers are to notify their staff of the content of this policy

Note - The signed copy of this procedure is filed in the Facility Service Department. By signing this policy, you have agreed to enforce the contents, share with your staff and adhere to standards.

Attachment A
RESIDENCE LIFE BED BUG CHECKLIST

RD Checklist

- _ Get plastic bags from the Campus & Building Services Residence Hall Supervisor and deliver them to the students in the infected room(s) and rooms around the infected room(s).
- _ Get a vacuum cleaner with disposable bags from Campus & Building Services Residence Hall Supervisor and deliver to the students so they can vacuum before and after treatment.
- _ Notify Facilities Assistant when the pest strips can be placed and a licensed Facilities employee will place the strips and seal the bags/containers.
- _ Give students "Student Bed Bug Information & Checklist" sheet containing information about bed bugs, treatment, packing, unpacking, laundry, dry cleaning, etc.
- _ For first treatment, tell the students to remove all items from the floor, walls, all dresser drawers, all desk drawers, bedroom closets, and place items in sealed bags/containers with a pest strip. (Pest strips need to stay in sealed bags/containers for at least 48 hours)
- _ Assist students with packing and labeling their belongings (if needed).
- _ The morning of the treatment, physically check the apartment/room to verify that the apartment/room is ready and the floor is completely clear of students' personal belongings, and all items are bagged or in containers with pest strips. Make sure computers and all electronic equipment are turned off, unplugged, and moved to bathroom floor or kitchen table. ___ Make sure no fish or plants are in room/apt. Make sure all furniture has been moved approximately 1 ½ - 2 feet away from the walls and is disassembled.
- _ Post signs on doors (Attachment B) to let students know when they can return to their apt/room.

Director of Housing Checklist

- _ Give students plastic containers to pack their things (if needed).
- _ Ask residents if they have asthma, allergies to pesticides or any other health concerns that may be aggravated by bug spray.
- _ Communicate to the students when spraying will take place. Let them know when they will need to leave their apartment/room and when they can return.
- _ Communicate with students about disposing of all personal furniture, i.e., couches, upholstered chairs, etc.
- _ Relocate students if absolutely necessary. (Relocating should be avoided as much as possible, due to possible spread of bed bugs.)
- _ Get cell phone numbers or preferred method of contact from students.
- _ Send a reminder e-mail about spraying (if necessary).
- _ Contact the Executive Director of Marketing and Communications and give all information **so that he/she is informed in the event that a broader communication response (i.e. beyond students) becomes necessary, at the request of the Dean of Students.**
- _ Contact Facilities Assistant to make arrangements to remove the used pest strips by a licensed Facilities Employee
- _ Inform students that there will be 2 follow up 'crack and crevice' treatments. The second treatment will be 10 to 14 days after the initial treatment and the third treatment will be 10 to 14 days following the second treatment. They will need to stay out of their apartment/room for approximately 4 hours. The same preparation is necessary for both follow-up treatments.
- _ Check with Facilities Assistant to find out when the two follow up treatments are scheduled and inform the students of treatment date, time, and give instructions on what needs to be packed.
- _ Make sure Residence Life Office contacted the student's professors to let them know that the process will likely disrupt the student's academic work.
- _ Record details of all information on the template on the M drive. Save as the building and room number.
- _ Follow up with the students weekly for three months to make sure they are no longer being bitten or are seeing bugs.
- _ Send an email with information about students' apt/room, date of treatment, when ready for treatment to the following distribution list: To:
 - Facilities Administrative Assistant (1)
 - Facilities Administrative Assistant (2)
 - Facilities Assistant
 - C&BS Manager
 - C&BS Res Hall Supervisor
 - Facilities Manager
 - Director of Buildings and Grounds
 - Dean of Students
 - Director of Residence Life
 - Director of Housing

**THIS ROOM HAS BEEN TREATED
FOR BUGS**

**RESIDENTS ARE NOT
TO RE-ENTER UNTIL**

_____ at _____

Attachment C
STUDENT BED BUG INFORMATION & CHECKLIST

Place all clothing, books and other belongings (including pillows, stuffed animals, suitcases/duffle bags) from dressers, desks, closets, walls and floors into bags or plastic containers. Remove all items from walls and place in plastic bags or containers. Contact RD to call Campus & Building Services who will have a licensed Facilities Employee place pest strips in the container/bag. Pest strips must stay in sealed container/bag for at least 48 hours to be effective. After at least 48 hours the licensed Facility employee will return to remove the used pest strip as per the packaging instructions.

Throw out all cardboard boxes.

Throw out pillows if heavily infested.

Wash and dry all clothes and bed linens in hot water and dry on high heat for at least one hour. If clothing cannot be washed, place it in a plastic bag and take it to the dry cleaner and tell them you have bed bugs.

Check with Residence Life staff about personal furniture – to determine if it needs to be disposed of, i.e., couches and other upholstered furniture.

Move all furniture away from the wall approximately 1 ½ - 2 feet. Disassemble all furniture. Contact Campus & Building Services if help is needed.

Remove hanging items from walls. Facility Maintenance may be visiting to remove mounted items from walls.

Residence Life staff will check bags and containers for proper packing.

At times, students request to change locations because they don't want bites and/or are grossed out. Changing rooms actually increases the spread of bed bugs and costs additional money as the new spaces then also need to be treated. As such, students may not change locations.

Residence Life staff will let you know when you can return to your room/apartment.

There will be two follow up treatments. The second treatment will be 10 to 14 days after the initial treatment and the third will be 10 to 14 days after the second treatment. Someone from Residence Life will let you know when they will be scheduled, and give instructions on what needs to be packed.

Let the Residence Life staff know **immediately** if you see bugs or receive bites again after spraying.

Attachment D
BUG QUESTION TEMPLATE

Room/Apt #

Cell #

Student Name, ID #

Student Name, ID #

Student Name, ID #

Student Name, ID #

- Person who receives phone call about bugs call student(s) and records all details on "M" drive in the Housing Bugs folder. Save as specific building and room number. The following must be recorded: exact date and time of interview, details of what was said, all student names and ID numbers in apartment/room (as seen above), and exactly what students saw where and what time. Send email with pertinent information to distribution list (see below).

- Record any items to be reimbursed, i.e., replacement items, meals, etc.

- Record treatment dates, including follow-up treatment date.

- Record RD and Campus & Building Services names you were working with, and any other Messiah staff members you were working with.

- Record any other significant conversations or actions taken and your name.

- Email distribution list: To: Facilities Administrative Assistant, Facility Services Administrative Coordinator, Facility Coordinator, C&BS Manager, C&BS Res Hall Supervisor, Director of Facility Services, Dean of Students, Director of Residence Life, Director of Housing, Assistant Director of Physical Plant

- Record all information pertaining to the following questions:
 - *First ask if they had bed bugs before.*
 - *Did they see a bug? If so, where, when, and what did it look like? Did they kill it or put it into a plastic bag or container?*
 - *Did a bug bite them? If so, when and where? What does the bite look like? Is anyone else in the room/apt getting bitten? If so, where?*
 - *Did they recently go into the woods or the Yellow Breeches?*
 - *Have they traveled abroad recently or done a service project recently?*
 - *What were they wearing when they noticed the bites?*
 - *When was the last time they washed their sheets? What color are their sheets?*
 - *Which bed is theirs? Where is it located in the bedroom? Which bedroom if a two-bedroom apartment?*
 - *Do they have any cardboard boxes in their bedroom, under their bed, in their closets, in their living room area? If so, dispose of all cardboard boxes right away in the outside dumpster.*
 - *Do they have furniture other than the university furniture? Couch, recliner, loveseat? If so, how long have they had it? Where did they get it from?*
 - *Has anyone stayed in anyone else's room/apt while any of their current roommates were getting bitten? If so, when and where?*
 - *Did they go to the Engle Center to have their bites looked at?*
 - *If there are any questions about if these are bed bugs ask the student to trap a bug in a Ziploc bag and visit the health center to have their bites examined.*
 - *Any details or comments that could be relevant.*

Saved as: M:/Res Ed/Housing Bugs/Bug Question Template - Attachment D

**Attachment E
Bed Bug Facts**

What do bed bugs look like?

Adult bed bugs are flat, less than ¼ inch, broadly oval, wingless bugs. They are reddish-brown in color. Baby bed bugs are transparent.

What do bed bug bites look like?

Bed bug bites are similar to mosquito bites, but there may be severe swelling that extends beyond the bite area in highly sensitive individuals. Approximately 20% of the population will show no reaction to the bite.

Do bed bugs transmit disease?

There is no conclusive evidence that bed bugs transmit disease to humans.

Where do they hide?

Bed bugs typically can be found around mattress buttons and binding, in box springs or their coverings, and in any crack and crevice of bed frames, furniture, and walls. They come out to feed at night.

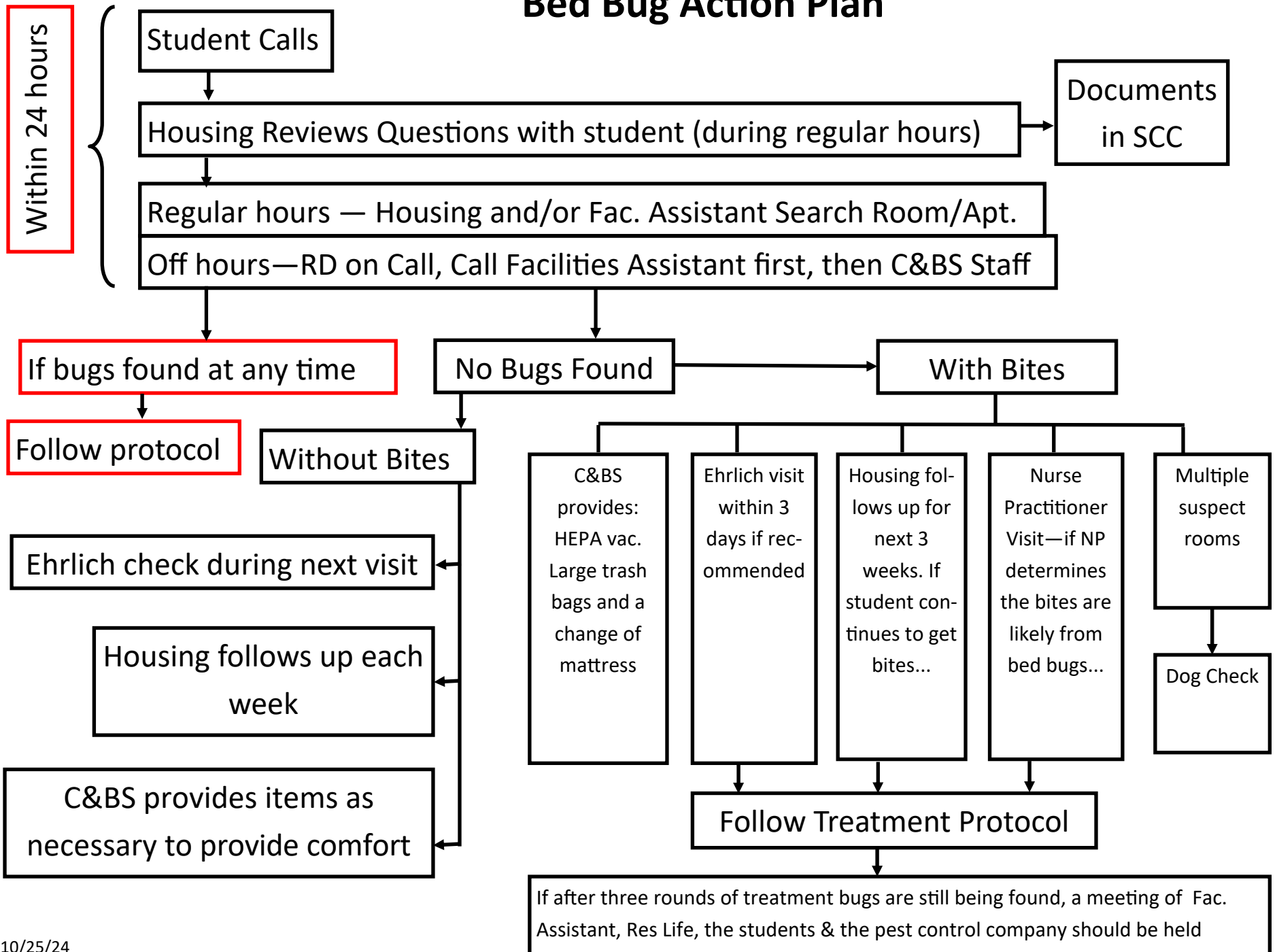
What is the history of bed bugs?

Bed bugs were eradicated from the United States since World War II. They have returned in the past 20 years to many cities in America due to more people traveling abroad and returning with them in their belongings. Many hotels including those in large cities have been infested in recent times with bed bugs.

How can I prevent taking bed bugs with me?

While at any off-campus program you can take precautions by not putting your clothing or suitcase/duffle bag on the floor. Wash and dry all clothing before you return to your home.

Bed Bug Action Plan



Scott Zeigler, Form creator Signature	Electronically signed by Scott Zeigler on 12/06/2024 2:24:19 PM
Vice President for Operations Signature	Electronically signed by Kathie Shafer on 12/06/2024 2:36:03 PM
Associate Vice President of Marketing & Comm. Signature	Electronically signed by Carla Gross on 12/06/2024 3:34:58 PM
Director of Building and Grounds Signature	Electronically signed by Mark Graybill on 12/06/2024 2:26:44 PM
Director of Facility Services Signature	Electronically signed by Brian Miller on 12/10/2024 8:14:30 AM
Facility Manager Signature	Electronically signed by jarrod sites on 12/06/2024 2:29:08 PM
Project Manager Signature	Electronically signed by Russ Ehrich on 12/09/2024 10:37:42 AM
Coordinator of Health Services Signature	Electronically signed by Linda Weaver on 12/09/2024 4:21:43 PM
Director of Housing Signature	Electronically signed by Courtney Williams on 12/09/2024 1:27:26 PM
Director of Residence Life Signature	Electronically signed by Annastasia Bonczyk on 12/18/2024 12:16:51 PM
Dean of Students Signature	Electronically signed by Doug Wood on 12/06/2024 4:34:26 PM
C&BS - Residence Hall Supervisor Signature	Electronically signed by Donna Herman on 12/06/2024 3:01:42 PM
Campus & Building Services Manager Signature	Electronically signed by Laura Price on 12/07/2024 9:44:54 AM
Facility Services Administrative Assistant (1) Signature	Electronically signed by Jennifer Sheaffer on 12/09/2024 1:45:01 PM
Facility Services Administrative Assistant (2) Signature	Electronically signed by Traci Gaito on 12/06/2024 3:38:07 PM