

Promoting Integrated Pest Management in Affordable Housing Update



StopPests in Housing
November 2, 2020 NIFA update

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United States Department of Agriculture
National Institute of Food and Agriculture


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History of the IAA




United States Department of Agriculture
National Institute of Food and Agriculture

 **FY 2007–FY 2012** IAA (I-PHI-00980) first interagency agreement (IAA) between HUD and NIFA.



 **FY 2012-FY 2016** (USDA 2012-48668-20327) established the procedure for working with public housing authorities and developed the infrastructure of NEIPM Center staff, curricula, online resources, and trainers.



 **FY 2016 – FY 2020** – NCE granted Aug 2020- Aug 2021



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Strength of Program

- ✦ Well-established program
- ✦ Extensive and active networks and collaborations across the country
- ✦ Serving a diverse audience nation-wide
- ✦ Based in a Regional IPM Center
- ✦ HUD/NIFA IAA funding allows for free training

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Key personnel

NEIPMC Staff:

- ◆ Deborah Grantham-PI
- ◆ Susannah Reese – Program Coordinator
- ◆ Nancy Cusumano, Mike Webb, David Lane, Kevin Judd - Support

Regional Consultants:

- ◆ Dion Lerman – Northeast
- ◆ Jayne Windham – National
- ◆ Nancy Crider – South
- ◆ Michael Swoyer – Midwest
- ◆ Deborah Young - West



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HUD's Priority Pests

- ⊗ **Cockroaches** cause asthma, trigger asthma attacks, and contaminate food
- ⊗ **Rodents** such as mice and rats carry diseases, bite, destroy property, may cause fires, and may trigger asthma attacks
- ⊗ **Bed Bugs** and their bites are a nuisance and are expensive to eliminate. New evidence suggests may contribute to asthma and allergies.



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Objective 1. Deliver the free training *IPM in Multifamily Housing* through stoppests.org to eligible housing managers and maintenance staff



TRAININGS 2016-2020

60 trainings

WEST
Tohono O'odham Nation, AZ (2)
 Oakland, CA
 Westminster, CO
 Fort Collins, CO
 Billings, MT
 Helena, MT
 Great Falls, MT
 Grand Junction, CO
 San Antonio, TX
 Colorado Springs, CO
Gila River Nation, AZ
 Long Beach, CA
 Sacramento, CA
Pasqua Yaqui Nation, AZ
Cheyenne River Sioux, SD
 El Paso, TX
 Houston, TX
 Kenedy, TX



MIDWEST
 Saginaw, MI
 Pinckney, MI
 Topeka, KS (2)
 Des Moines, IA
 Madison, WI
 Peoria, IL
 Rapid City, SD
 St. Louis, MO
 Independence, MO
Comanche Nation, SD
 Chicago, IL

NORTHEAST
 Hudson, NY
 Niagara, NY
 New York, NY
 Columbia, MD
 Baltimore, MD
 Philadelphia, PA
 Sharon, PA
 Providence, RI
 Bar Harbor, ME
 Chambersburg, PA
 Altoona, PA
 Hartford, CT
 Trenton, NJ
 Washington DC
 Jersey City, NJ
 Cranston, RI
 Springfield, MA

SOUTH
 Lagrange, GA
 Portsmouth, VA
 Richmond, VA
 Naples, FL
 Covington, KY

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Objective 1. Free training offered nationally

On-site (**Now Online**) training for federally subsidized, affordable housing:

- Public Housing
- Section 8 Housing
- Section 811 and 202
- Tribal Housing (TDHEs)



Dr. Siavesh Tarvati, UC IPM demonstrating bed bug inspection to staff at StopPests training in Guadelupe, CA

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Objective 1. Training the IPM team



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Objective 1. Training the IPM team

Transitioning to on-line training

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Objective 2. Provide pre- and post-training technical assistance to housing providers who implement IPM or to HUD headquarters or field staff

Off-site assistance - document review

Site visits

The image shows a detailed IPM document review sheet with columns for PRODUCT, UNIT, BALT, EQUIP, AMOUNT, and LOCATION. A prominent red diagonal banner across the sheet reads "~3 minutes per unit?". Handwritten notes at the bottom of the sheet include: "Services 850 write for relation signed back", "Signed B on demands", "12/11/17", "SCANNED", and "DEC 18 2017".



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Objective 2: Free Technical Assistance



on-site inspections



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Objective 2: Free Technical Assistance



on-site inspections



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Objective 3. Actively work to eliminate documented obstacles to the use of IPM approaches in affordable housing and **Objective 7.** Identify/reduce/eliminate obstacles to IPM adoption and implementation.

Identify obstacles through:

- ✦ Personal communication with housing and pest management professionals, residents, structural entomologists and HUD staff
- ✦ Evaluations
- ✦ Site visits/assessments
- ✦ Record and contract review
- ✦ Web traffic – how many visitors and what they look for
- ✦ Polls on webinars

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Objectives 3 & 7. Identify/reduce/eliminate obstacles to IPM



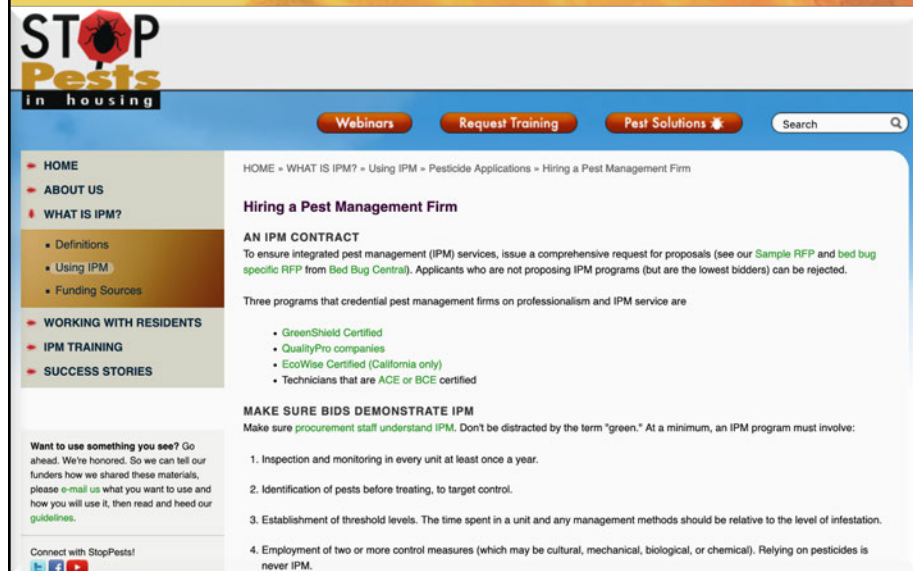
Website traffic shows us needs and allows us to address obstacles

Web Traffic 9/16-10/20

- ✦ **279,769** Website and blog visitors
- ✦ **310,984** page views
- ✦ Most popular page: *"If you see cockroaches during the day, the infestation is bad"* **73,115** visits

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Objective 3 & 7. Identify/reduce/eliminate obstacles to IPM



Subaward

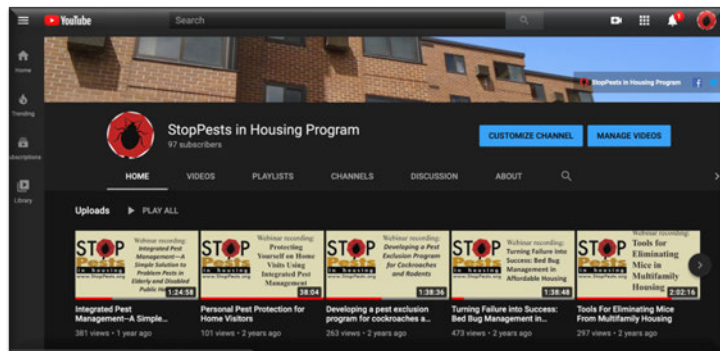
- Dini Miller, PhD., Virginia Tech addressed poorly written contracts.
- The sample RFP was downloaded **132** times.

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Objective 3 & 7. Identify/reduce/eliminate obstacles to IPM


Webinars are successful venues to address obstacles

- **10** webinars
- **5,293** attendees
- **1,777** attendees from New York City Housing Authority



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Objective 3 & 7. Identify/reduce/eliminate obstacles to IPM



STOP Pests in housing
www.StopPests.org

Integrated Pest Management for German Cockroaches

A Guide for Property Managers



German Cockroaches and Their Risks

The German cockroach is the most common species of cockroach found in homes and buildings all over the world.

German cockroaches are introduced into homes in resident belongings, grocery bags, cardboard boxes, and furniture. They reproduce quickly and spread throughout multiunit housing easily, feeding on any drop or crumb of human food, pet food, garbage, and many other substances, including toothpaste, hair, and paper.

A German cockroach infestation can negatively affect human health. Cockroaches can transmit bacteria that cause food-poisoning^{34,7} and trigger asthma and allergies or make existing symptoms of those conditions worse⁵.

While this document focuses on German cockroaches, there are a number of other cockroach species commonly found in home environments. Thus, it is important to make sure the cockroaches in your building are identified correctly because the habits and control methods differ for each species.

This guide does not cover biology and identification of cockroaches. For more information, see the resources mentioned under "Additional Information."

Throughout this guide, we will use the abbreviation PMP, which stands for pest management professional. PMPs include both contracted pest control operators and housing staff responsible for pest management; each must

6 fact sheets

IPM Guides for Property Managers:


- Cockroaches
- Mice
- Bed Bugs

Picture-Based Guides for Residents

- Cockroaches
- Mice
- Bed Bugs

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Objective 3 & 7. Identify/reduce/eliminate obstacles to IPM




Do

- Clean up
- Store food in containers
- Reduce hiding spots
- Report holes and leaks
- Have a professional use baits
- Take out recycling and trash
- Clean up spilled pet food
- Inspect


Busque los signos de las cucarachas




Adulto



Ninfa




Huevo o larva



Excremento

Busque los signos de las cucarachas con una linterna.

LLame a la oficina de mantenimiento o a su arrendador.



STOP Pests in housing
Northeastern IPM Center

Investigación financiada por el Fondo de Inversión del Estado de Nueva York y el Fondo de Inversión del Estado de Nueva Jersey. Este informe fue financiado por el Fondo de Inversión del Estado de Nueva York y el Fondo de Inversión del Estado de Nueva Jersey. Este informe fue financiado por el Fondo de Inversión del Estado de Nueva York y el Fondo de Inversión del Estado de Nueva Jersey. Este informe fue financiado por el Fondo de Inversión del Estado de Nueva York y el Fondo de Inversión del Estado de Nueva Jersey.

Low-literacy, picture-based guides for tenants in English and Spanish: **687 views!**

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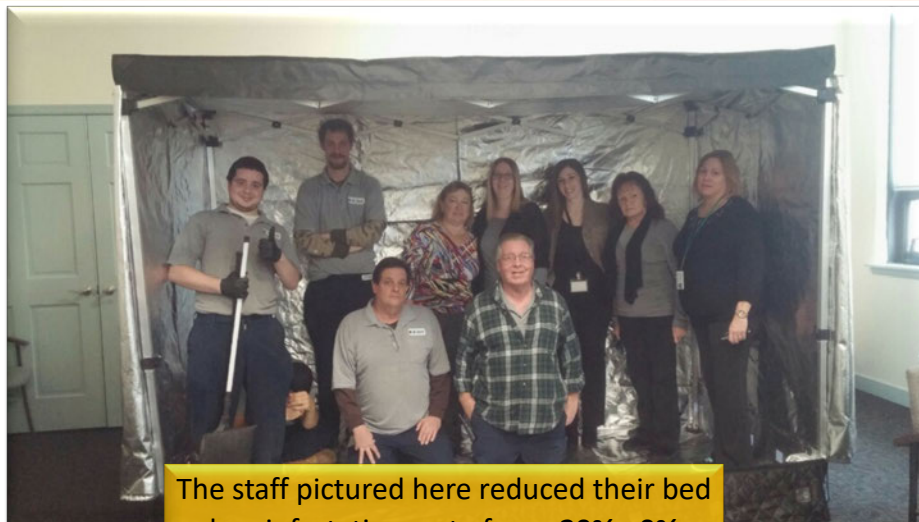
Objective 4. Evaluate IPM in the participating housing communities and gather the data needed to assess a return on investment (ROI) of the Center's efforts



September 2016 – October 2020
60 Trainings
1469 housing staff
88,895 Units

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Objective 4. Evaluate IPM in the participating housing communities and gather the data needed to assess a return on investment (ROI) of the Center's efforts



The staff pictured here reduced their bed bug infestations rate from **20% - 0%**

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Objective 5. Increase institutional capacity to handle structural IPM issues

- **Participate in national and regional committees** to advocate for policy development (ESA MUVE, TPPC, Community IPM Coordinating Council, bed bug and hoarding task forces)
- **Partner** with Universities, state IPM programs, public and private housing agencies, pest management companies, and healthy housing organizations to create and share resources and training
- **Increase capacity to implement IPM** with TA, webinars, conference presentations, trainings, and events, and as an advisor to HUD



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Objective 5. Increase institutional capacity to handle structural IPM issues
27 conference and speaking engagements

- | | |
|--|--|
| 1. National Lead and Healthy Housing Conference | 15. Tribal Indoor Air Quality/Healthy Homes Training, |
| 2. International IPM Symposium | 16. Midwest Regional Lead and Healthy Housing Conference |
| 3. Illinois Association of Housing Authorities | 17. Global Bed Bug Summit |
| 4. National NAHRO Conference | 18. Making Homes Safer, HUD region IV conference, |
| 5. ESA International Congress of Entomology | 19. NEHA virtual Conference |
| 6. Tribal Indoor Air Quality Conference | 20. Kentucky Affordable Housing Conference |
| 7. Tompkins County Health Department | 21. Kansas Housing Conference |
| 8. Jefferson County Bed Bug Symposium | 22. Tribal Indoor Air Quality training, Yocha Dehe Wintun Nation |
| 9. Regional Healthy Homes Conference | 23. Tribal Healthy Homes Conference, |
| 10. Intertribal Council Meeting on Indoor Air Quality | 24. NYSPHADA |
| 11. Annual NEHA/HUD Conference | 25. South Dakota Housing and Redevelopment Authority Conference |
| 12. Mid-Atlantic NAHRO PAHRA Joint Conference | 26. Inter Tribal IPM for Public Health Training |
| 13. Southern Regional Lead and Healthy Housing Conference | 27. National Lead and health Housing Online Conference |
| 14. EPA's Tribal Children's Healthy Environments Symposium | |

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Objective 6. Evaluate training effectiveness

- ✦ **83%** of trainees rated the course as **excellent**, 16% rated the course as good.
- ✦ Training attendees responded that after this training they will:
 - ✦ increase **resident education** efforts,
 - ✦ do **exclusion work**,
 - ✦ re-write **contract** and **IPM policy**.
- ✦ What do they like about the training?
 - ✦ **knowledge** of the trainers
 - ✦ **handouts** and resources provided
 - ✦ **interactive** Q&A session addressed their specific needs



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Going forward...

- ✦ Continue to adapt and refine course materials to on-line platforms
- ✦ Offer online training and TA
- ✦ Address COVID-19 related pest issues
- ✦ Work with partner organizations and tribal partners to reach more tribal housing entities
- ✦ Short video demonstrations

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Questions?



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