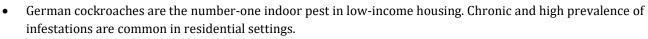
Northeastern IPM Center Partnership Grant Impacts

Developing Aesthetic Injury Level for German Cockroach* IPM (2018)

Project Director: Changlu Wang - Rutgers University

Author: David Lane - Cornell University

THE NEED



- Not only are cockroaches a nuisance, but they also produce allergens that are asthma triggers.
- Applications of insecticide sprays for cockroach control introduce additional health risks to inhabitants.







Cockroach infestation. Photo: C. Wang.





Northeastern

Insecticides introduce additional health risks. Photo: C. Wang.

IMPACTS

Non-chemical treatment achieved similar cockroach reduction compared with baiting method for low-level infestations and avoided the need for insecticide application.





Trapper Monitor & Insect Trap beside stove for monitoring or controlling low-level German cockroach infestations. Photos: C. Wang.





There are a variety of gel bait products available on the market. It is wise to choose at least 3 different bait products and rotate them during the monthly services. Photos: C. Wang.

- This project helped inform at least 3 publications:
 - "Residents Attitudes and Home Sanitation Predict Presence of German Cockroaches (Blattodea: Ectobiidae) in Apartments for Low-Income Senior Residents" (Wang et al., 2018) in Journal of Economic Entomology.
 - "Effectiveness of Building-Wide Integrated Pest Management Programs for German Cockroach and Bed Bug in a High-Rise Apartment Building" (Wang et al., 2019) in Journal of Integrated Pest Management.
 - Biology and Management of the German Cockroach (Wang et al., 2021)

WEBSITES

www.northeastipm.org/ipm-in-action/the-ipm-toolbox/reducing-pest-infestations-in-multifamily-housing-research-updateson-mice-and-cockroaches/

* Blattella germanica L.

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