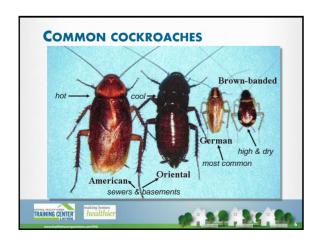


Cockroaches and their frass Make asthma worse in sensitive people Cause asthma in preschool-aged children Cause or aggravate allergies Contaminate food, dishes, and counters Are unwelcome in places where we work and play

WHAT IS A COCKROACH? An insect Lives in areas where humans provide food and water Active at night If you see cockroaches during the day, the infestation is serious

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WHAT IS A COCKROACH? • Multiple eggs in each egg case • Many eggs means many nymphs (babies) • Nymphs look like small versions of the adults



GERMAN COCKROACH

- Medium size (3/4"), bronze, with "racing stripes" behind the head
- Found everywhere, but likes warmth, moisture, and darkness
- * Reproduces quickly
- Mother carries eggs to term even if she is dead
- Eats almost anything







American cockroach

- * a.k.a. "palmetto bugs" or "water bugs"
- Large (1-1/2"); brown color
- → Glides in the air
- Lives in sewers and basements
- Likes it hot



ORIENTAL COCKROACH

- ◆a.k.a "water bugs"
- +Large (1"); black color
- *Lives in sewers,
- basements, and mulch
- +Likes it cool

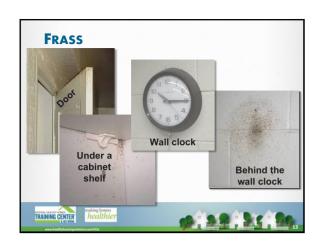


One German cockroach, 1/2 a year... Stopping one cockroach does a lot! One pregnant cockroach January March May June







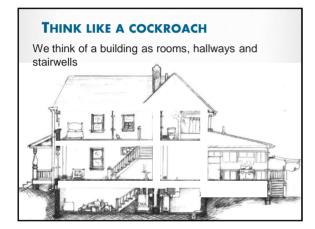


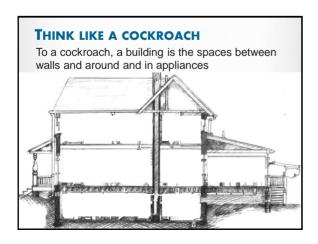




WHERE COCKROACHES DRINK - Sinks - Counters - Floors - Pet bowls - Shower stalls - Sweaty pipes - Refrigerator drip pans and gaskets - AC units Sources of water in a kitchen

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What's the problem here? How would you fix it? | TRANSPERSOR |

COCKROACH COMMON AREAS: REFRIGERATORS AND STOVES

- Daily: wipe grease and crumbs from the stove top
- Weekly: Detailed cleaning of stove top—remove burners and wash drip pans
- Quarterly:
 - pull appliances away from the wall and clean the floor underneath,
 - clean under the stove top,
 - clean or replace the stove vent filter, and
 - wipe down refrigerator gaskets





GOT COCKROACHES? NOW WHAT?

There is not just one answer

- First find out:
 - What kind?
 - How many?
 - Where?
- Then use solutions that provide:
 - Most effective prevention and control
 - Least risk to residents and staff





INSPECT

- Using a flashlight, look for evidence where cockroaches would find food, water, or a hiding spot: up, down, behind, and under
- ◆ Think like a cockroach look in hidden areas





INSPECT

Monitor by placing sticky traps near areas where cockroaches might travel—at corners and near warmth, food, and water





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PREVENTION AND CONTROL: SANITATION Good, detailed sanitation makes pest control work Eliminate hiding spots, food, and water available at night by cleaning the kitchen reducing clutter throwing away dead cockroaches cleaning frass and areas where there were cockroaches with simple soap and water

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PREVENTION AND CONTROL: EXCLUSION Seal or fix cracks, peeled wallpaper and shelf liners, or holes that cockroaches could get through Use ** silicone caulk ** copper mesh ** screens ** door sweeps— always on boiler rooms and exterior doors ** the control of the control o

PREVENTION AND CONTROL: TARGETED CHEMICAL USE Sanitation first! Maintenance staff and residents should not spray. Spraying should be a last resort and done only by a PMP Read the ENTIRE pesticide label before buying, using, storing, or disposing of a product The label is the law! Follow the label directions closely



PREVENTION AND CONTROL: BAITS The bait needs to be the only food in the area—sanitation first! Slow to kill: Cockroaches feed on the bait and take it back to their hiding spots where other cockroaches live PMP's gel bait applied under a drawer PARTICLE TO THE TRANSPORTED TO

PREVENTION AND CONTROL: INSECTICIDAL DUSTS • Least toxic active ingredients you may know: • boric acid • diatomaceous earth • How they kill cockroaches: • A stomach poison • Dry them out • Contact kill • Long-lasting if dry



PREVENTION AND CONTROL: INSECT GROWTH REGULATORS (IGRs) Interfere with cockroach growth and egg hatching In sprays, aerosols, and impregnated discs Take a month to work Stay effective for a long time Compatible with other IPM methods; may enhance baits

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