

THE COCKROACH SOLUTION GUIDE

BROUGHT TO YOU BY BAYER ENVIRONMENTAL SCIENCE

The Bayer Cockroach Solution

Contents

- Overview
- Our Products
- Integrated Pest Management
- Cockroach Insecticides
- Cockroach Treatment Guide
- Cockroach Treatment Tips

The Bayer Cockroach Solution

- Cockroaches have a negative impact on public health
- Bayer Environmental Science has an arsenal of insecticide baits, sesidual sprays and dusts so you can custom-design IPM programs that work fast



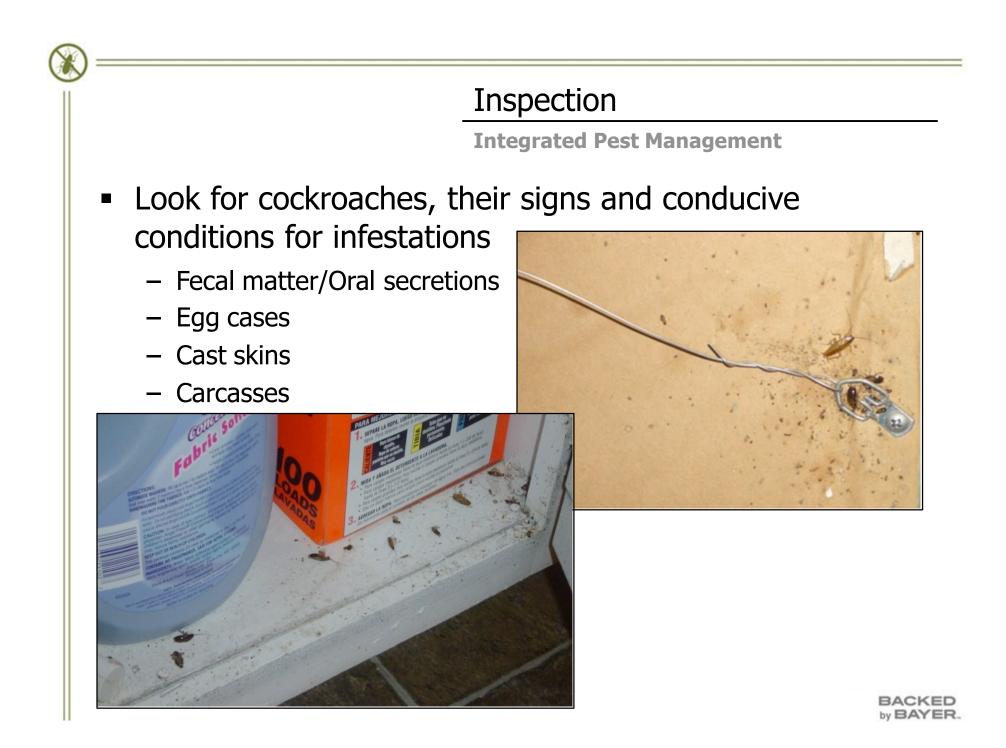
Integrated Pest Management

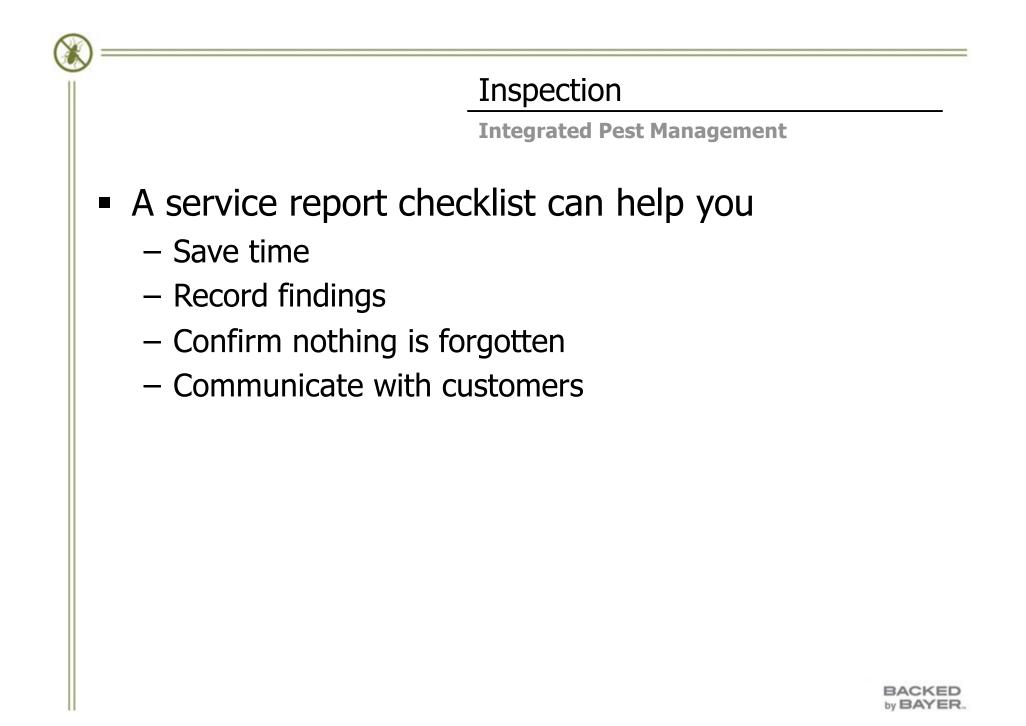
Definition

 Is defined as an effective and environmentally sensitive approach that relies on common sense practices to effectively manage pests economically with the least possible hazard to people, property, and the environment.

IPM

- IPM is critical to
 - Ensuring customer satisfaction
 - Building your business
 - Enhancing your company's reputation
 - Preventing future infestations
- IPM includes five steps for success
 - Inspection
 - Identification
 - Recommendation/Customer education
 - Treatment
 - Evaluation

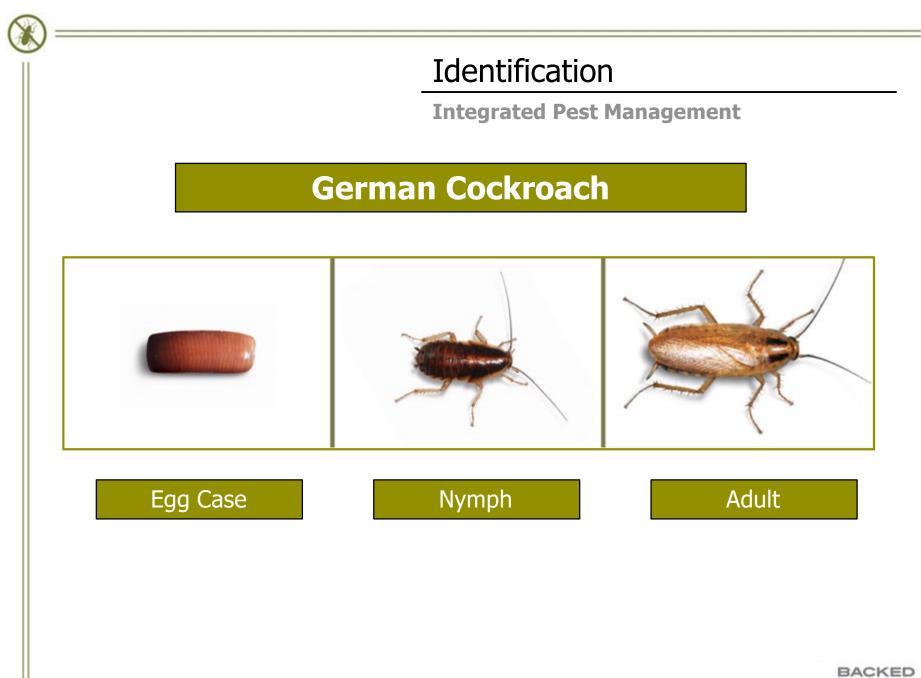


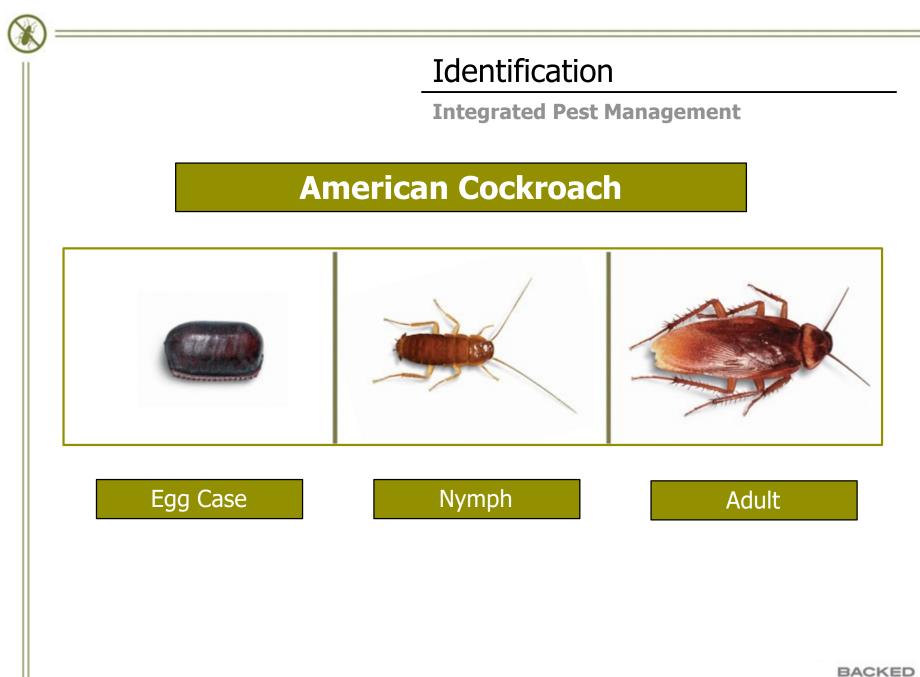


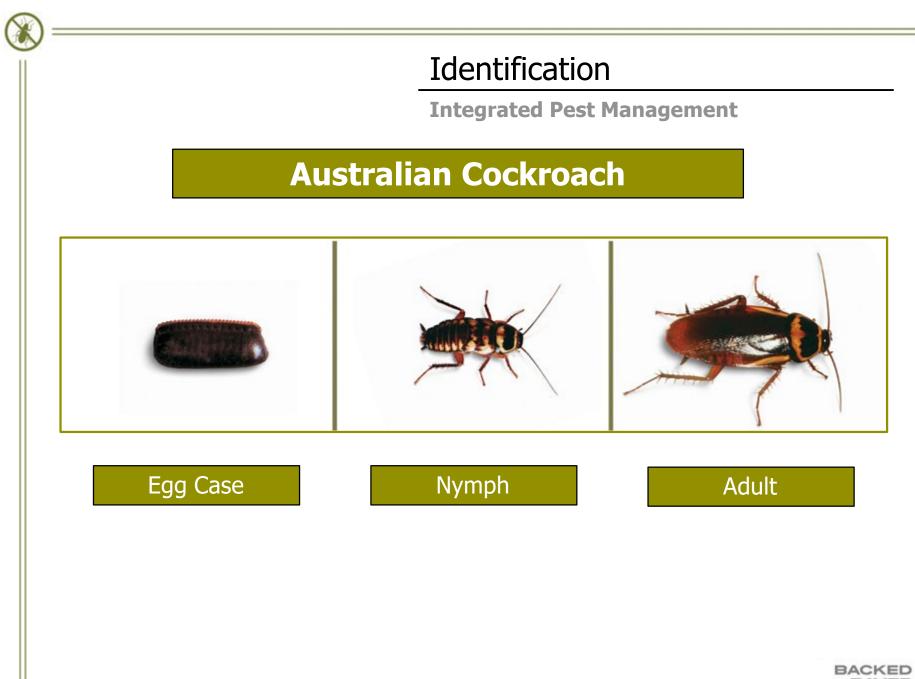


Identification

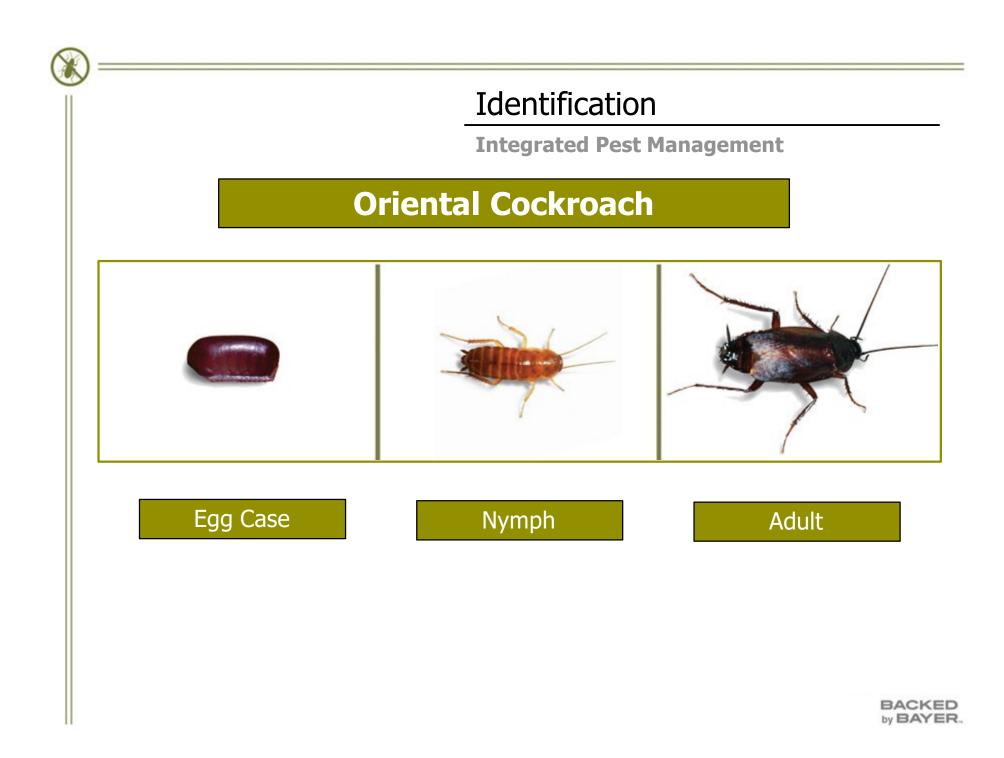
- Be able to identify the common cockroach species and understand the biology and behavior of all common cockroach species
- This information will help you save time and do the best job possible

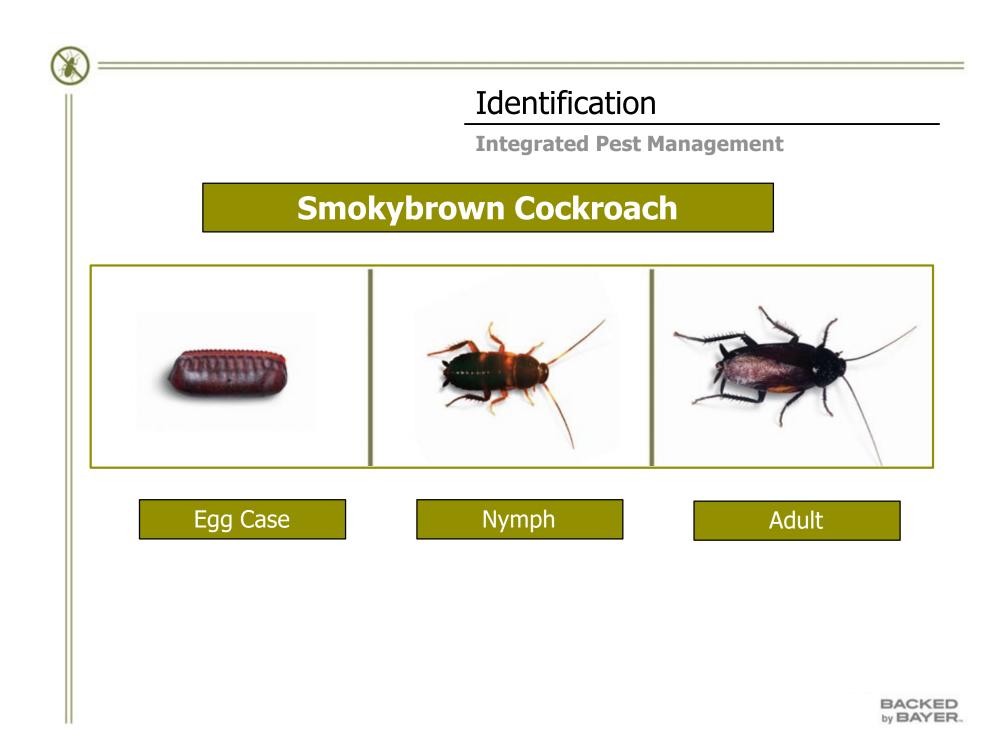


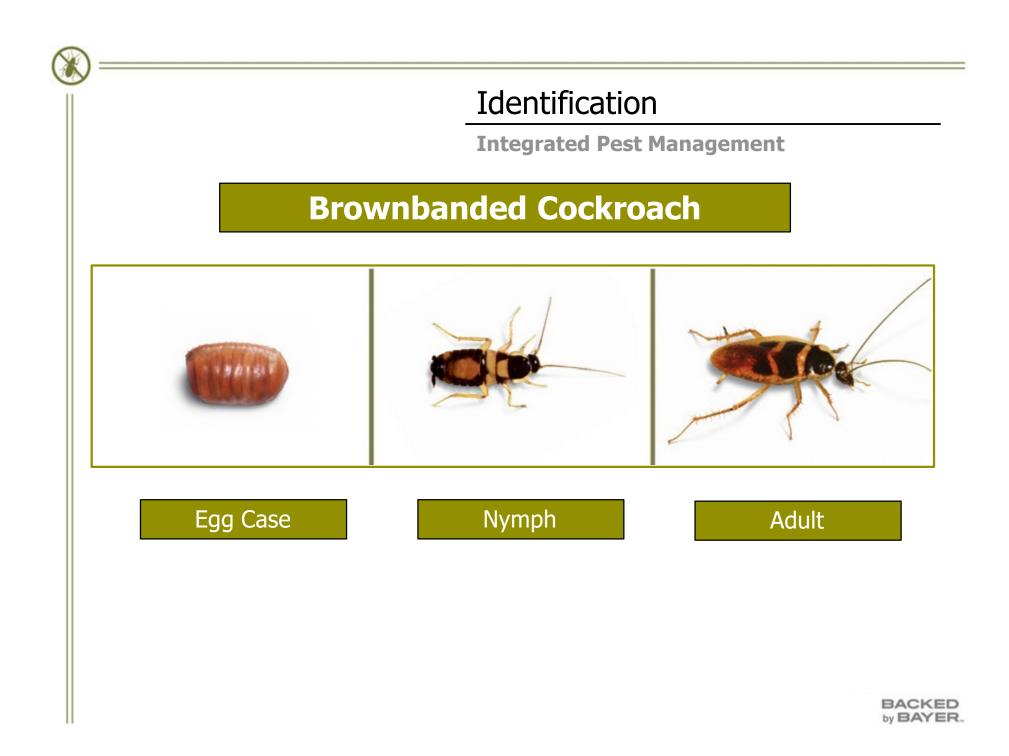




by BAYER.







Recommendations

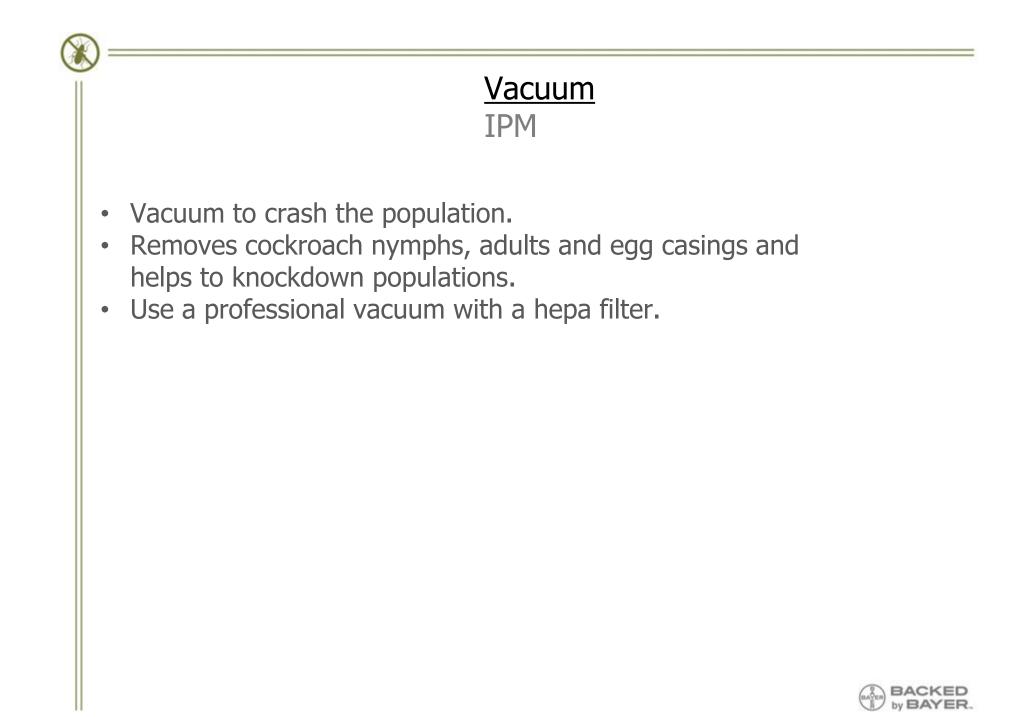
Integrated Pest Management
 IPM should include non-chemical and chemical control methods that best fit the residential or commercial environment











Treatment

Integrated Pest Management

- The best areas to treat for cockroaches are
 - Cracks and crevices where cockroaches hide
 - Cockroach travel routes (along edges and corners of walls)
 "in between" where cockroaches hide and where they find food and water
 - Lines easy for cockroaches to follow
 - Pipes
 - Utility lines
 - Table legs



 ALWAYS READ AND FOLLOW ALL PRODUCT LABEL DIRECTIONS

BACKED

Treatment

- Practice "Zone Management" for large accounts such as commercial kitchens
 - Divide the account into smaller zones
 - Address one zone at a time
 - Inspect and treat each zone accordingly

Treatment

- Pay attention to the micro-environment where cockroaches live
 - Are surfaces dirty or covered with grease?
 - Are they porous?
 - Is the area washed regularly?
 - What's the temperature?







- Communication with your customer is essential for successful IPM
- As an expert in cockroach control this is an opportunity to educate your customers
- The customer must be part of the solution
- Customers can take preventative measures in between Pest Management services to address sanitation and reduce harbourage sites

Integrated Pest Management

- Customers can
 - Improve sanitation



Integrated Pest Management

- Customers can
 - Repair and eliminate moisture problems
 - Reduce clutter



- Customers can
 - Seal cracks and crevices
 - Store food in cockroach-proof containers
 - Empty trash containers frequently
 - Pick up pet food
 - Improve sanitation
 - Reduce harborage and available food sources





Outdoor Peridomestic Control

- As an expert in IPM, you can
 - Seal cracks to eliminate entry points
 - Trim trees and shrubbery away from structure
 - Ensure windows, doors and screens fit tightly and install weather stripping as needed
 - Remove debris that attracts roaches







BACKED by BAYER.

Maxforce Baits

Cockroach Insecticides



- Two Unique Cockroach Baits ideal for bait rotation
- Both products offer exclusive Domino Effect[™] a delayed action kill that allows cockroaches to take bait back to the colony
 - Roaches transfer the active ingredient to other roaches through vomophagy (feeding on vomit), cross contact (with contaminated roaches), coprophagy (feeding on feces of other roaches) and cannibalism
- Rotate Maxforce Impact and Maxforce Roach every 90-120 days for best results.





Unique formulation specially designed for bait averse roaches

Not reliant on simple sugars (that select for aversion), but more complex carbohydrates

Powerful **group 4 active ingredient**, with alternate mode of action A proprietary feeding stimulant, in controlled-release BlueBead technology, assures excellent bait acceptance

Unique Features

None of the big 8 allergens, A clean, white bait matrix Highly effective on both normal and bait-averse strains of German roaches





- Excellent rotational bait with Maxforce Impact
- "Select" bait matrix is made up of a balanced diet (proteins, carbs, fats and oils)
- Contains the active ingredient hydramethylon. The only Group 20 insecticide available in a commercial cockroach bait
- Controls broad range of cocnckroaches





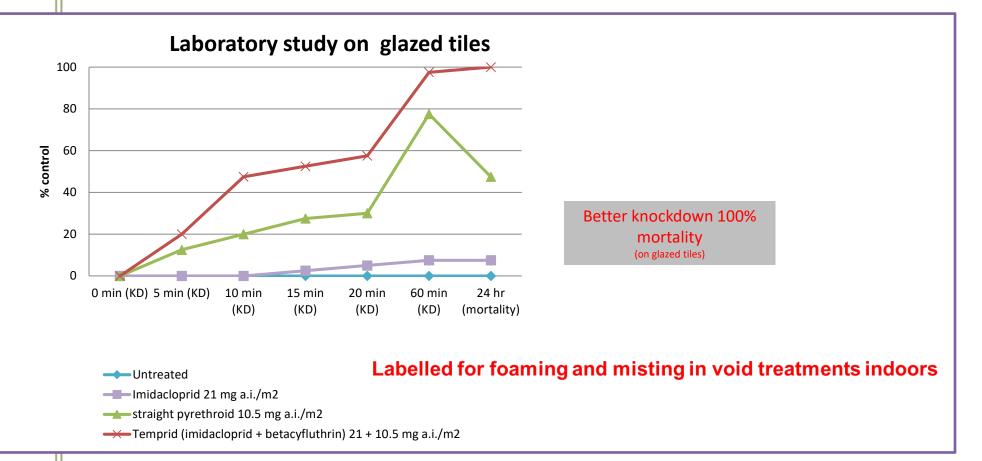
Cockroach Insecticides

Residual Contact Spray

- For problem accounts that require a liquid residual spray
- Fast-acting and long lasting
- Contains two active ingredients with different modes of action
- Controls pyrethroid resistant cockroaches
- Applicable Uses
 - INDOOR PERIMETER, SPOT, CRACK AND CREVICE OR VOID TREATMENT ONLY
 - Can be foamed or misted in voids
 - Apply at entry points such as around doors and windows and where utilities enter.
 - Treat areas of the structure where pests are normally found or hide
 - such as behind baseboards, around water pipes, cabinets and under sinks.



Temprid is highly effective in controlling pyrethroid resistant German cockroaches





B BAYER E R



Cockroach Insecticides

Dusts

- Dusts provide effective penetration into cracks and crevices and large voids
- Dusts will deliver a long, effective residual making harborages uninhabitable for long periods of time



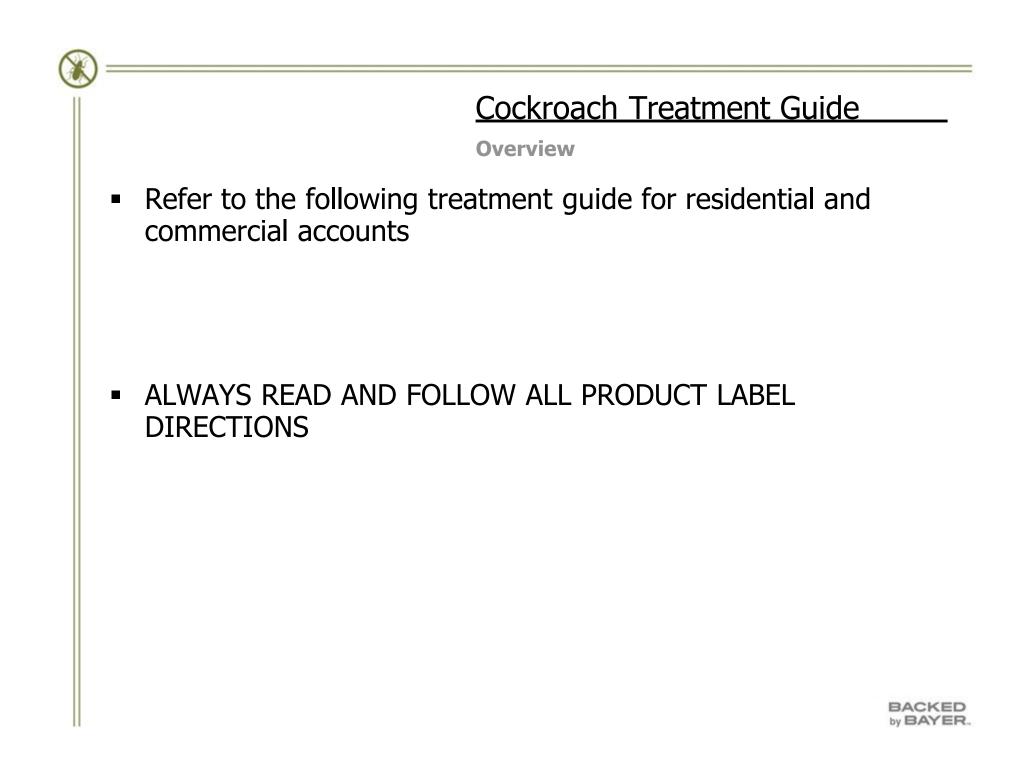


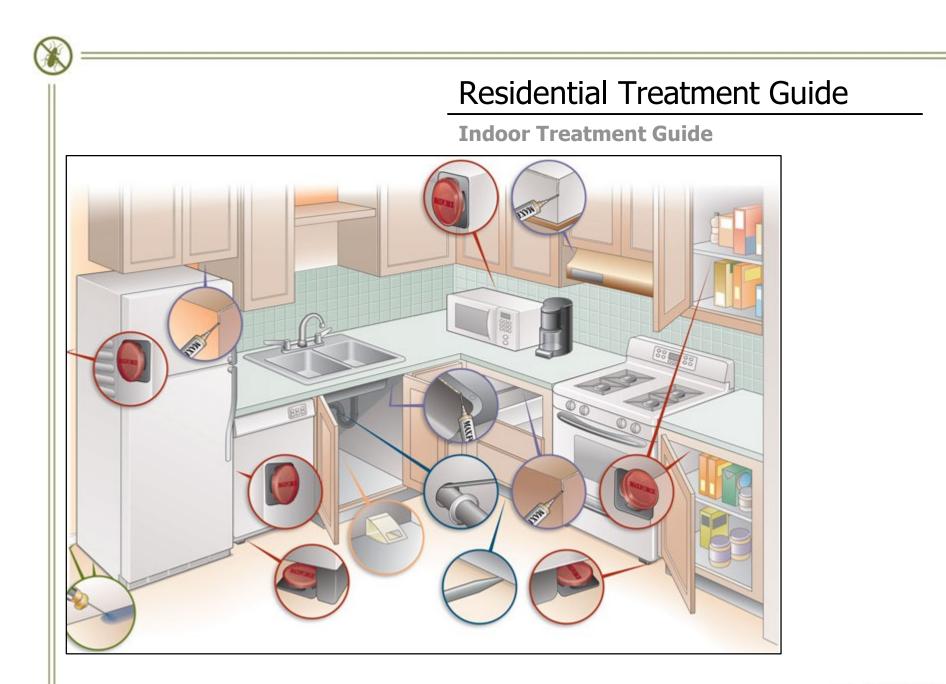
Cockroach Insecticides

Drione

- Silica-based desiccant dust with natural pyrethrum
- Provides quick control and a residual of up to six months
- Also can be used as a powerful flushing agent



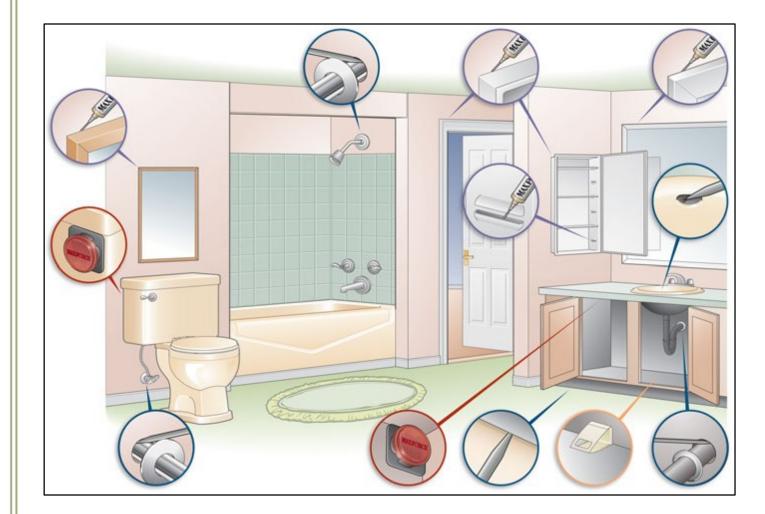




Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted BACKED

Residential Treatment Guide

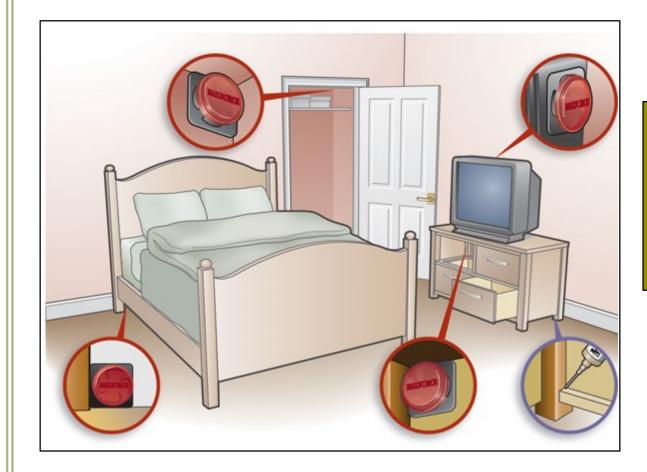
Indoor Cockroach Control



Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted

Residential Treatment Guide

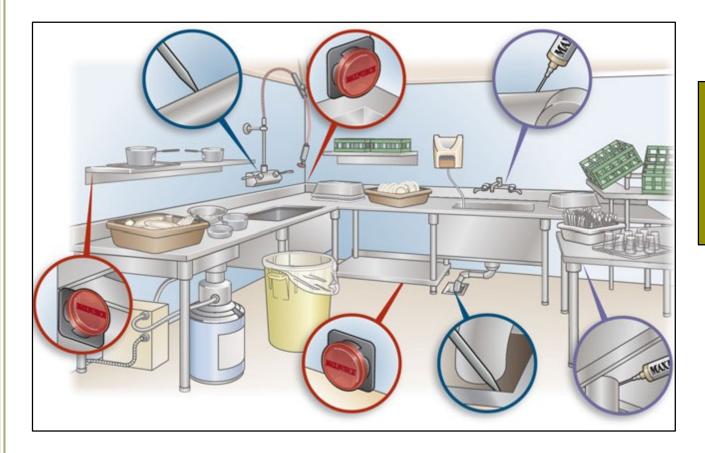
Indoor Cockroach Control



•Use caution when applying bait stations to wall paper, painted surfaces or fine wood that may become damaged when the station is removed.

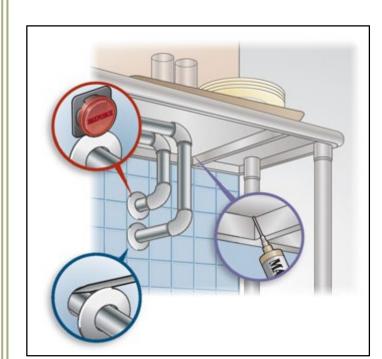
Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted

Dishwashing Station

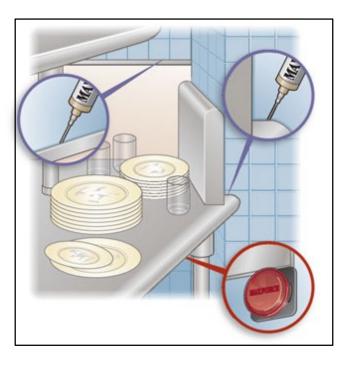


•Record and report sanitation issues and report ongoing progress to the correct person.

Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted



Dishwashing Station



Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted

Commercial Treatment Guide Pot & Pan Storage 0 0

Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted

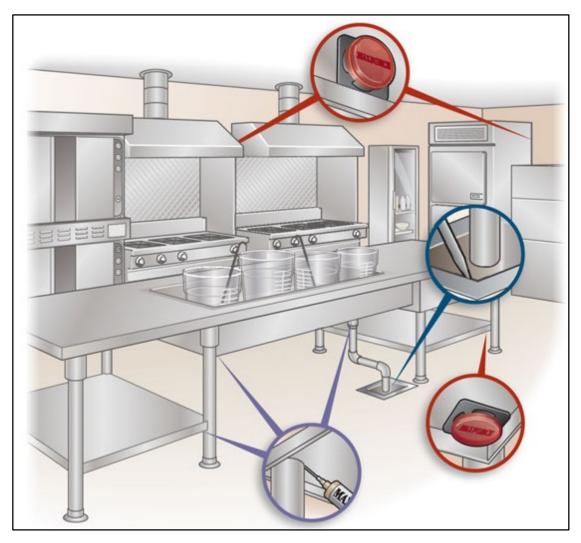
Commercial Treatment Guide Mop Room

Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted BACKED

Commercial Treatment Guide Food Prep Area 0 0

Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted BACKED

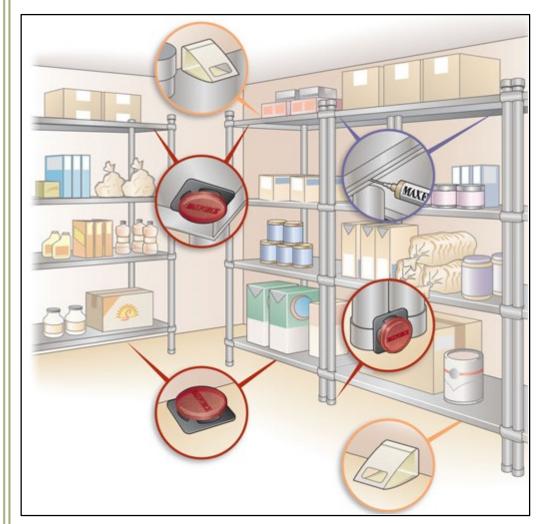
Food Prep Area



•Maxforce gels are ideal for use in food prep areas.

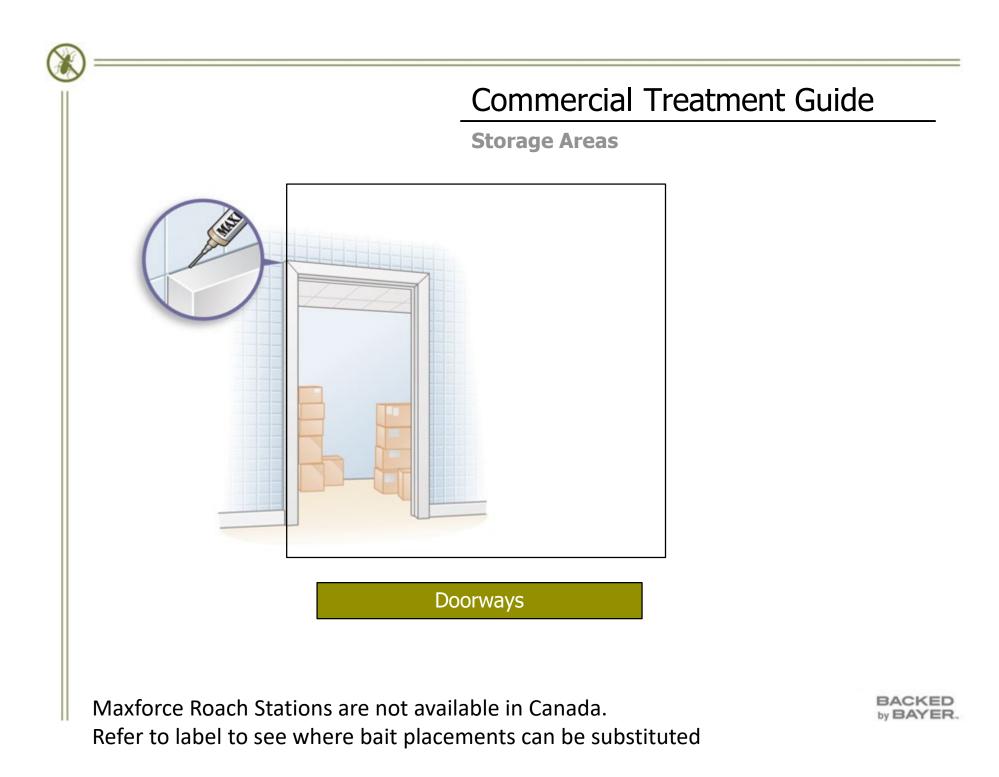
Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted

Food Storage Area



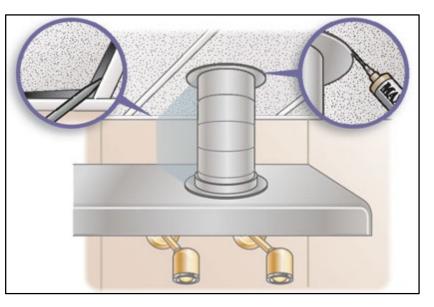
•Cockroaches are normally brought into an account through incoming goods. In food storage areas, place bait stations under storage racks and to the underside of shelves.

Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted

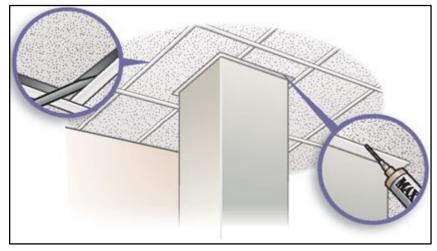


Commercial Treatment Guide Table Items Area 3 Maxforce Roach Stations are not available in Canada. BACKED by BAYER. Refer to label to see where bait placements can be substituted

Ceiling Fixtures



•Tilt drop ceiling and apply dust in a very thin layer; thick piles or clumps will repel cockroaches.



BACKED by BAYER.

Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted

Miscellaneous Areas

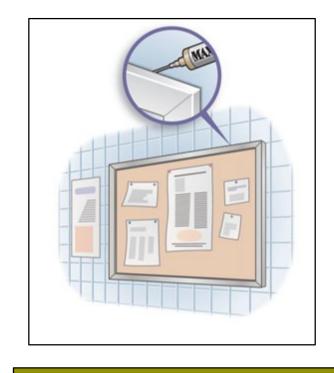


Cracked Tile

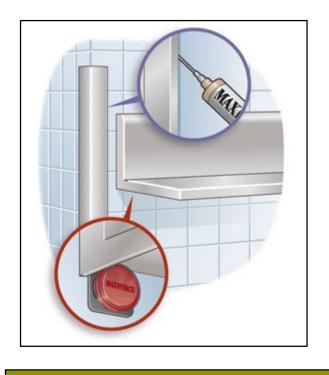
Commercial Treatment Guide Miscellaneous Areas Wall Fixtures Free-Standing Sink **Steel Corners**

Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted

Miscellaneous Areas



Bulletin Boards



Steel Corners

Maxforce Roach Stations are not available in Canada. Refer to label to see where bait placements can be substituted

Baiting Tips

- Maxforce gels provide fast control
- Don't spray on top of bait placements and do not place baits on top of freshly sprayed surfaces
- Smaller, more frequent bait placements work better than fewer larger bait placements
- The Maxforce Sharpshooter extension attaches to Maxforce bait reservoirs for treating hard-to-reach areas

Spraying Tips

- Don't flush cockroaches in commercial accounts while they are in operation if you don't want customers to see them
- Don't flush cockroaches if a customer has asthma
- Use a crack and crevice tip to better control crack and crevice applications

Dusting Tips

- Apply dust in very thin layers to avoid repelling cockroaches
 "If it's white, it isn't right"
- Fill dust applicator about halfway so there is "head space" in the applicator
- Store dusts at moderate temperatures and avoid cold/damp conditions
- Save time by dusting voids and then sealing them up

General Tips

- [*] Dress sharp, keep your equipment clean and be professional.
- [*] Record and report sanitation issues and ongoing progress to the correct person.
- [*] Drilling holes into walls and voids will make it easier to apply pesticides directly into cockroach harborages.
- [*] Maintain a monitoring program. Learn how to read a sticky trap/monitor. For example, if a roach is caught on the right side of a trap, chances are it came from a hiding spot to the right of the trap. (Ask your Bayer representative for a copy of the Need to Know document entitled Reading Roach Traps...)
- [*] Understand how cockroaches react to repellent insecticides such as Drione Dust. Use this avoidance behavior to keep roaches away from critical sighting areas and corral them into other areas where they are easier to control.
- [*] Educate your customer on what type of results they can expect.
- [*] Sealing cracks and crevices will help eliminate harborage areas and save time on future visits.
- [*] Large peridomestic cockroaches normally live outdoors but may enter and infest structures. When these cockroaches are a concern, the insecticide formulations discussed in this guide can be used to stop cockroaches outside, before they enter the structure.



Cockroach Control Tips

Field recommendation:

- •Vacuum to "crash" populations before treating
- •Refocus on floor level sanitation
- Remove of old bait
- Seal cracks and crevices

•Use Bayer Solutions as part of an integrated approach

•Rotate Maxforce baits every 90-120d







THE COCKROACH SOLUTION GUIDE

BROUGHT TO YOU BY BAYER ENVIRONMENTAL SCIENCE