

# COCKROACHES

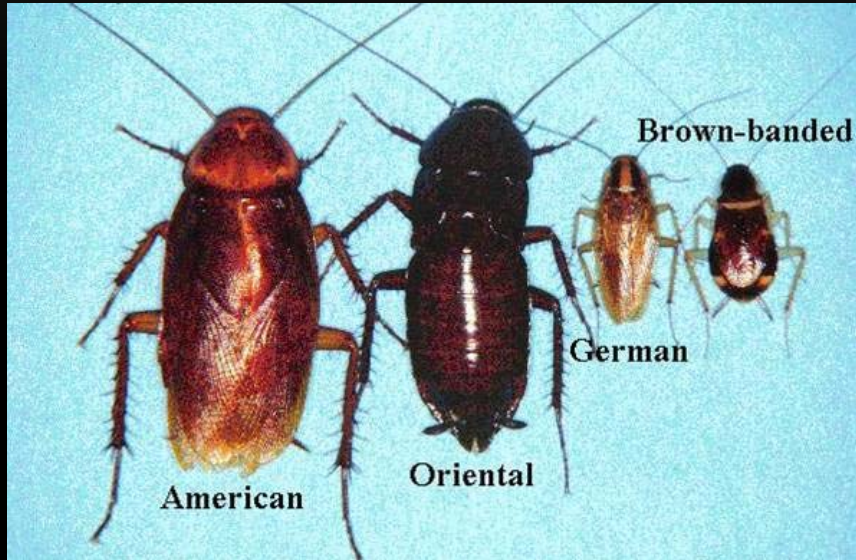
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Cody Lee

# TOPICS TODAY

- Identifying Cockroaches
- How To Determine If Your Facility Has A Cockroach Infestation
- Recommendations For Opening After A Cockroach Closure
- Recommendations For Maintaining A Cockroach Free Facility

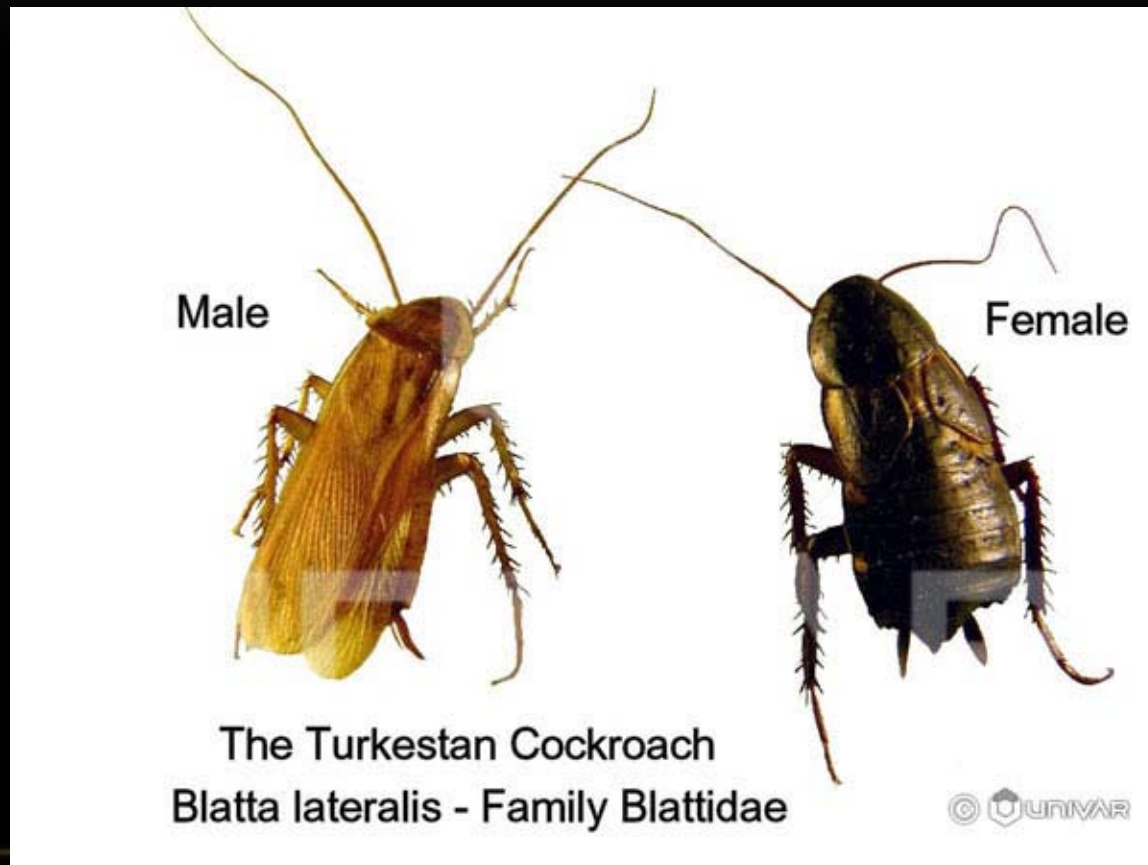
# COMMON SPECIES LOCALLY



# QUESTIONS

- Which of the four cockroaches matures from egg to adult the fastest?  
-German cockroach
- If we start with one pregnant German cockroach and there are unlimited harborage areas, food, water, and no pest control how many cockroaches will there be in one year? (eg. 480 American cockroaches in one year)
  - A. 900,000
  - B. 3 million
  - C. 62 million
  - D. 92 million

# NEW INVASIVE SPECIE



Male

Female

The Turkestan Cockroach  
*Blatta lateralis* - Family Blattidae



# ORIENTAL OR TURKESTAN FEMALE??



Turkestan Female

Oriental Female

# AMERICAN OR TURKESTAN MALE???



American Male



Turkestan Male

# AMERICAN OR TURKESTAN NYMPH



Turkestan Nymph



American Nymph



# GERMAN COCKROACHES IMPORTANT TO IDENTIFY



COCKROACH ??????



IGR affected German Cockroach

COCKROACH ??????



Earwig/Pincher bug

COCKROACH ??????



Common Black Beetle

COCKROACH ??????



Female Oriental

COCKROACH ??????



June Bug

COCKROACH ??????



American Female

# DETERMINING COCKROACH INFESTATION

- What are some different ways you can determine that your facility could possibly be infested with cockroaches?
  - A. Recent pest control report
  - B. Monitoring traps
  - C. Dead cockroaches
  - D. Fecal focal points
  - E. All of the above



# PEST CONTROL REPORT

Clark Pest Control, Inc.  
P.O. Box 1480  
Lodi, CA 95241-1480  
800-936-3339



## Service Report

INVOICE #: 15134246 Work Date: 11/20/13

Time In: 11/20/13 11:16 AM  
Time Out: 11/20/13 11:23 AM

Customer Signature

*[Signature]*

Technician Signature

*[Signature]*

Jason Pugh  
License #: CA - FR36827

**BILL-TO** 1672049 **LOCATION** 1672049  
Thien Phu Vietnamese Restaurant  
Steve Le  
6175 Stockton Blvd Ste #200  
Sacramento, CA 95824-4520

**Service Description** **Terms**  
No Charge Courtesy Service

### GENERAL COMMENTS / INSTRUCTIONS

Tech Comment: Inspected interior, found one german roach in a monitor by the water heater one in a spider web removed roaches and baited for, replaced monitors, cleaning is not an issue

**CONDITIONS / OBSERVATIONS** **Reported** **Severity** **Responsibility** **Reviewed**

Open  
*None Noted.*  
Resolved This Visit  
*None Noted.*

### PRODUCT APPLICATION SUMMARY

Material	EPA #	Active Ingredient	Finished Qty	Undiluted Qty
Advion Cockroach Gel Bait	100-1484	Indoxacarb	10.00 Gram	10.00 Gram
Areas Applied: Device z1 cookline				

**PEST ACTIVITY** **# Areas** **# Devices** **Pest Totals**

*None Noted.*

### DEVICE INSPECTION SUMMARY

Device Type	# Inspected	# Inspected w/Activity	# Skipped	# Replaced
Inspection Zone	1 of 2 (50.00%)	0 of 1 (0.00%)	0	0
<b>- Totals</b>	<b>1 of 2 (50.00%)</b>	<b>0 of 1 (0.00%)</b>	<b>0</b>	<b>0</b>

### AREA COMMENTS

*None Noted.*

### DEVICE INSPECTION EXCEPTIONS

Device Type	Device Name	Exceptions	Reason	Area
<i>None Noted.</i>				

### INSPECTION DETAIL

Area	Time	Device	Type	Status	Pest Findings
General/Other	11:19:34 AM	z1 cookline	Inspection Zone	No Activity	

Areas	Time	Type	Status	Pest Findings
<i>None Noted.</i>				

### PRODUCTS APPLIED

Material	A.I. %	Finished Qty	Application Equipment	Application Rate	Time
EPA #	A.I. Concentration	Undiluted Qty	Application Method	Sq/Cu Ft	Lot #

# MONITORING TRAPS



# DEAD COCKROACHES



# FECAL FOCAL POINTS



# CLOSURE RECOMMENDATION QUESTION??

If your facility is closed for a large cockroach infestation, which of the following would be the best steps to eliminate cockroaches and to be able to open the earliest?

- A. Cleaning, sealing gaps/cracks, and self treatment using monitoring traps.
- B. Cleaning, sealing gaps/cracks, and self treatment applying bait.
- C. Cleaning, pest control applying bait in gaps/cracks, sealing gaps/cracks and then placing monitoring traps out.
- D. Cleaning, pest control applying residual contact spray, pest control micro-injecting into wall with flushing agent, sealing gaps/cracks and then placing monitoring traps out.
- E. C and D

## FOLLOW UP TRUE OR FALSE QUESTIONS

You should do a thorough floor cleaning with wash, rinse, and sanitize method after pest control has treated the facility for cockroach closure.

- False

You should seal all gaps and cracks before pest control comes for treatment of facility for cockroach closure.

- False

# DETERMINING DYING COCKROACHES

- Moving laying on their backs
- Will not react to light
- Will not hide from people
- On monitoring traps



# BEING PROACTIVE ABOUT COCKROACHES

Do not wait until you have a problem then react to this:

- <http://www.youtube.com/watch?v=HFse9Z4srTU>



# WAYS TO MAINTAIN COCKROACH FREE FACILITY

- Make sure your facility is cleaned on a nightly basis
  - Clean and pour bleach down floor sinks
  - Remove standing water
  - Remove food debris
  - Clean and sanitize equipment



# QUESTIONS

- How long can a German Cockroach live without food and water?
  - Several weeks without food
  - One week without water
- How long can a German Cockroach live without its head?
  - One week

# WAYS TO MAINTAIN COCKROACH FREE FACILITY

- Seal all gaps/cracks in facility



# WAYS TO MAINTAIN COCKROACH FREE FACILITY

- Highly recommend hiring monthly pest control
- Highly recommend placing monitoring traps out to monitor facility



# REMINDERS

- Cockroaches are hitchhikers
- Check boxes of products
- Remove all unused equipment
- Inform all employees to let management know
- Read your pest control reports
- Be proactive. Don't wait for the infestation

A close-up photograph of a brown cockroach. Two black thought bubbles are positioned above the insect. The first bubble contains the text 'HAHAHA' and the second bubble contains the text 'ANY QUESTIONS'. The background is a blurred indoor setting with warm lighting.

**HAHAHA**

**ANY  
QUESTIONS**

**NICE TRY HUMANS**