

New York City
Department of Health & Mental Hygiene
Bureau of Environmental Disease Prevention

Promoting IPM and the Reduction of Pesticide Use in NYC: Programmatic and Policy Initiatives

Daniel Kass
Director, Environmental Surveillance & Policy

Why Tie IPM to Health Promotion?

- Cockroach and rodent infestation linked conclusively to asthma morbidity
- Epidemiological risks from professionally applied pesticides, personal use of off-the-shelf and illegal pesticides
- Structural solutions to infestations overlap with solutions to other housing problems associated with negative health outcomes
- Poor pest control shifts costs from housing system to health care system
- A public health approach may achieve some things advocates of safer pest control cannot

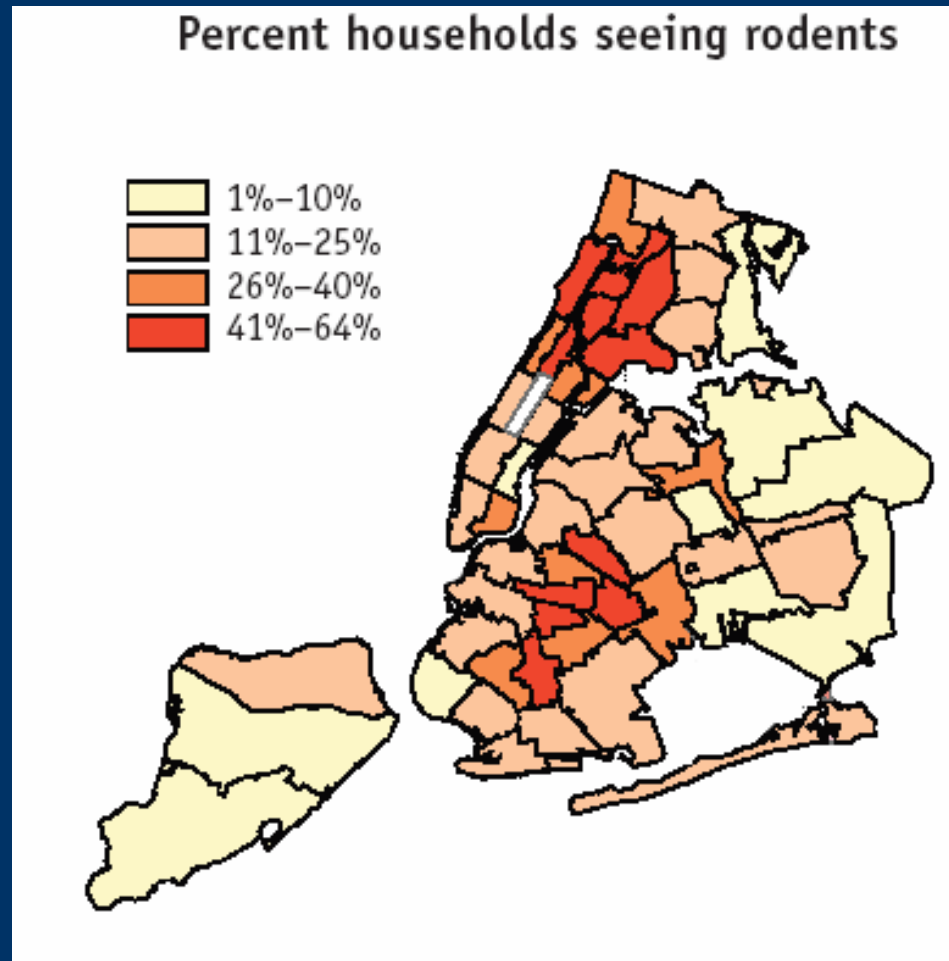
Presentation Outline

- Pest and pesticide surveillance in NYC
- A health department promotes IPM
 - IPM in public and private rental housing
 - IPM and rodent control
 - Policy Initiatives
- Discussion, collaboration

Pest and Pesticide Surveillance

- CDC Environmental Public Health Tracking has supported hazard, exposure and health outcome surveillance in NYC
- Local behavioral risk factor surveys (n=11,000) to determine pest and pesticide use prevalence
- Exposure survey (n=2000) of representative New Yorkers

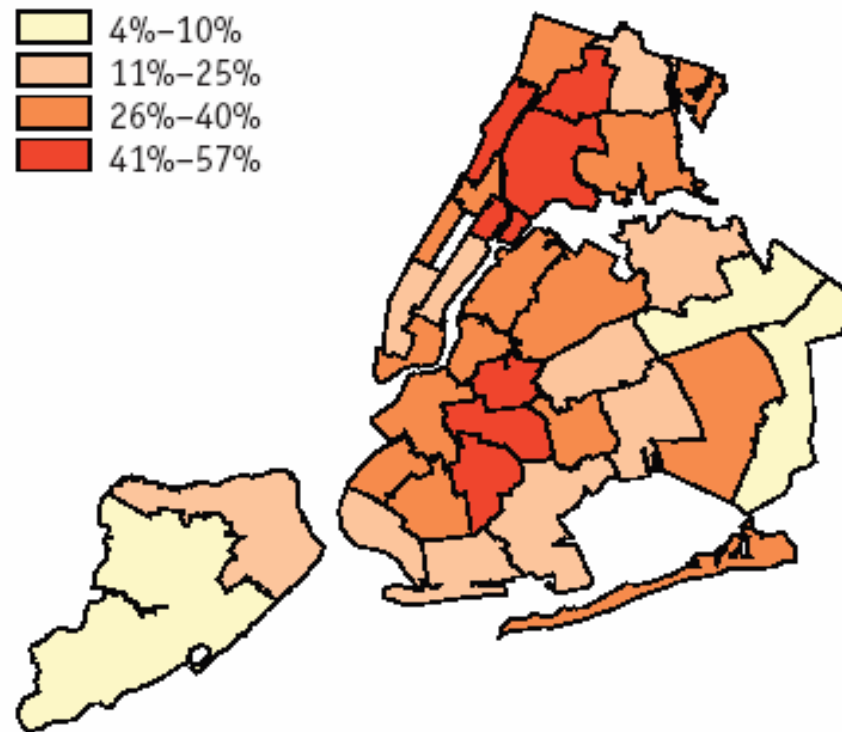
Rodents in NYC Residences



Source: Housing & Vacancy Survey 2002

Cockroaches in NYC Residences

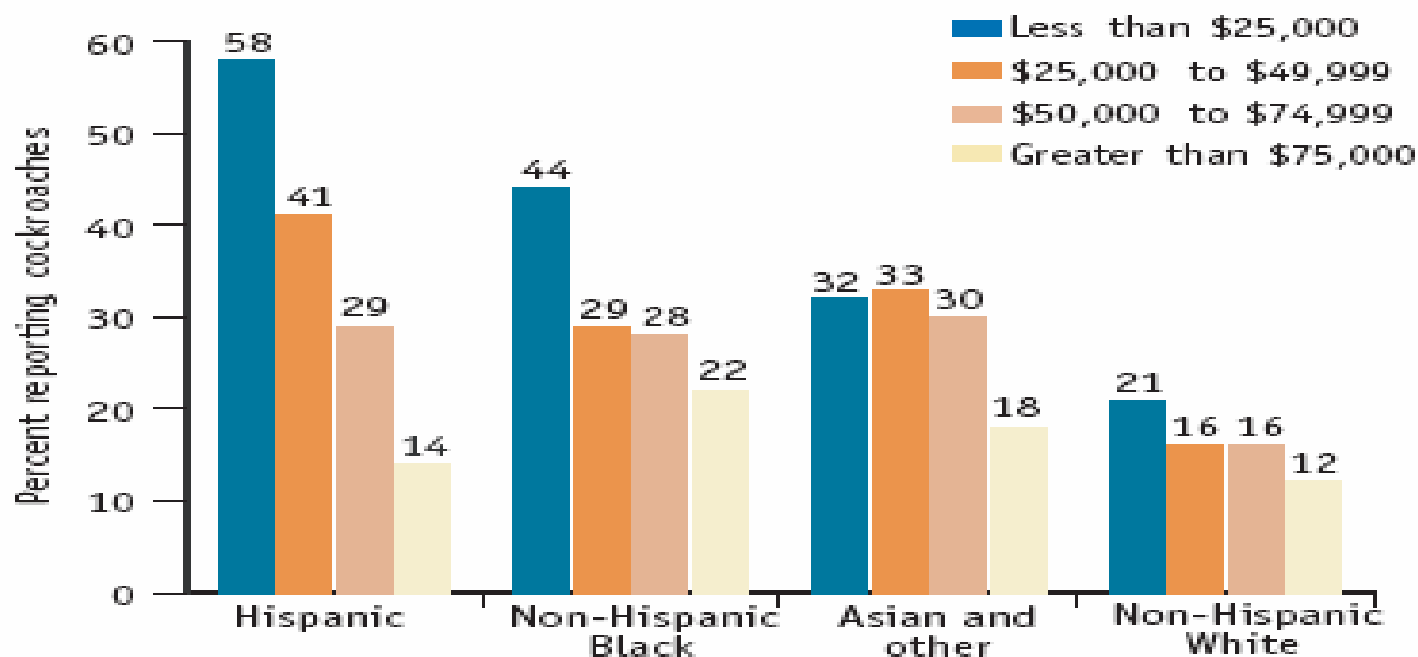
Percent households with cockroaches



Source: Community Health Survey 2003

Racial and Income Disparities in Infestation

Percent of households in NYC reporting cockroaches, by race/ethnicity and household income



Source: Community Health Survey 2003

Infestation and Housing Disrepair are Associated with Asthma

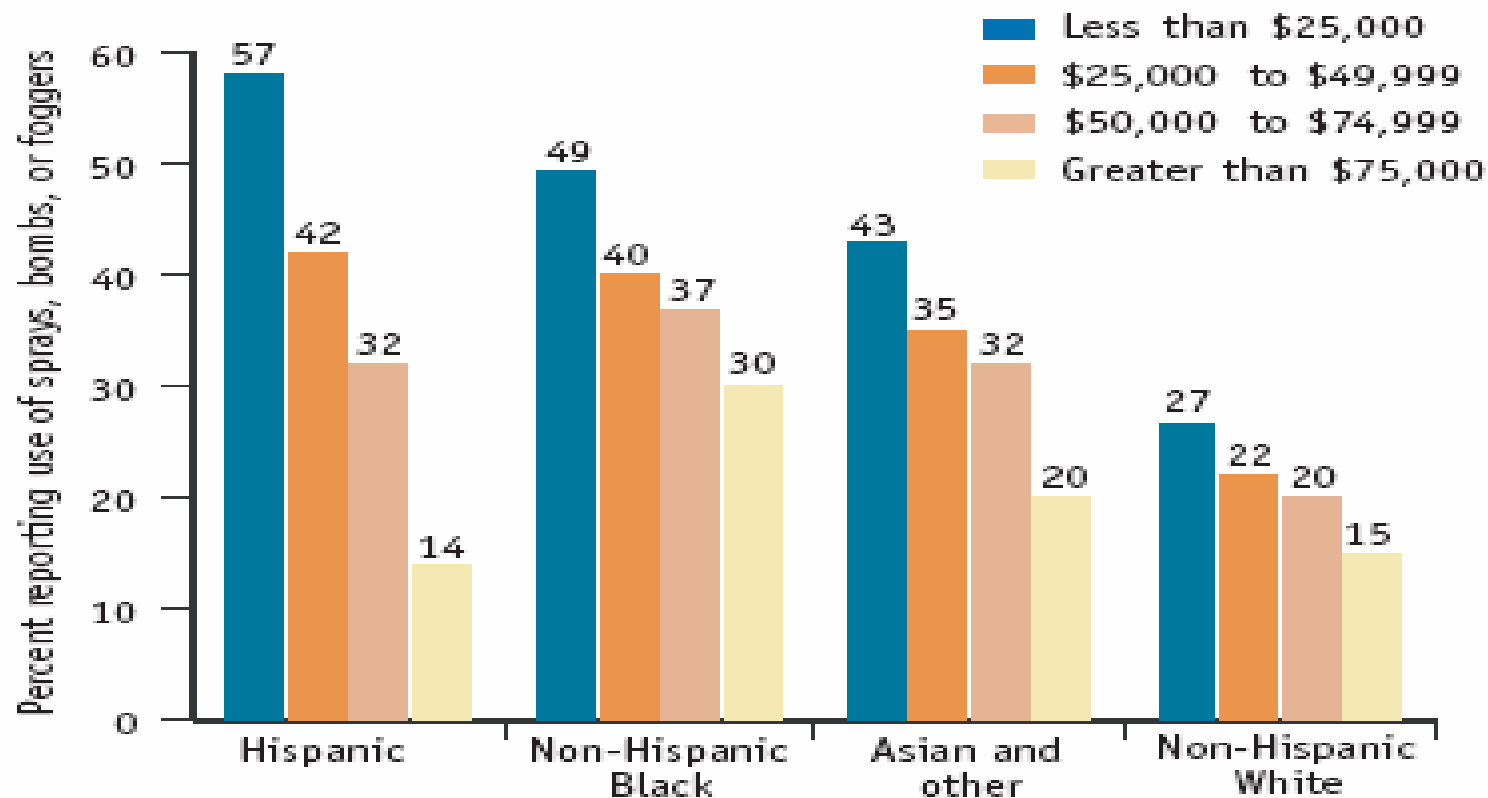
Asthma, infestation and disrepair

	% reporting recent symptoms of asthma
Cockroaches in household	
Yes	6.2
No	4.0
Rodents in building	
Yes	12.5
No	6.0
Cracks or holes in walls of apartment	
Yes	12.9
No	6.6

Source: Community Health Survey 2003

And Infestation Leads People to Use Pesticides Unsafely

Percent of households in NYC that use sprays, bombs or foggers, by race/ethnicity and household income



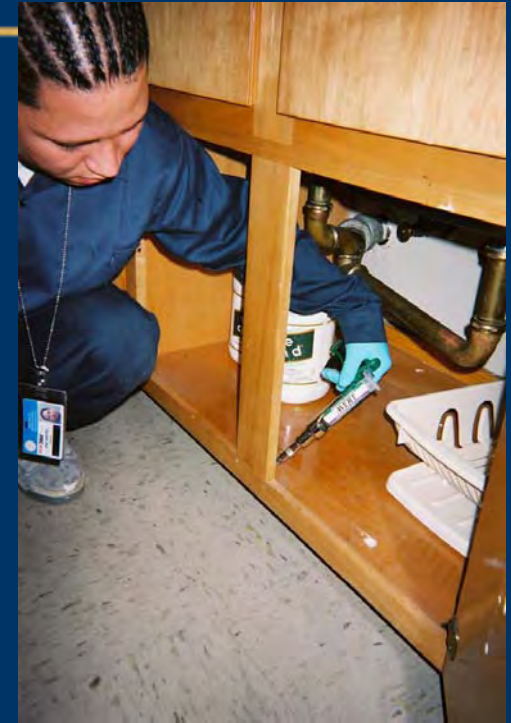
Source: Community Health Survey 2003

Promotion of IPM In Rental Housing

- 1999 Pilot Program in New York City Housing Authority (NYCHA) Development
- NYCHA Expansion – Whole Building Approach
 - Creation of NYCHA IPM Unit
 - Implementation and Evaluation of IPM in 5 NYCHA Developments (2,300 apartments)
 - System-wide changes to pest control practice
- NYC Childhood Asthma Initiative Adoption of IPM as Official Environmental Intervention

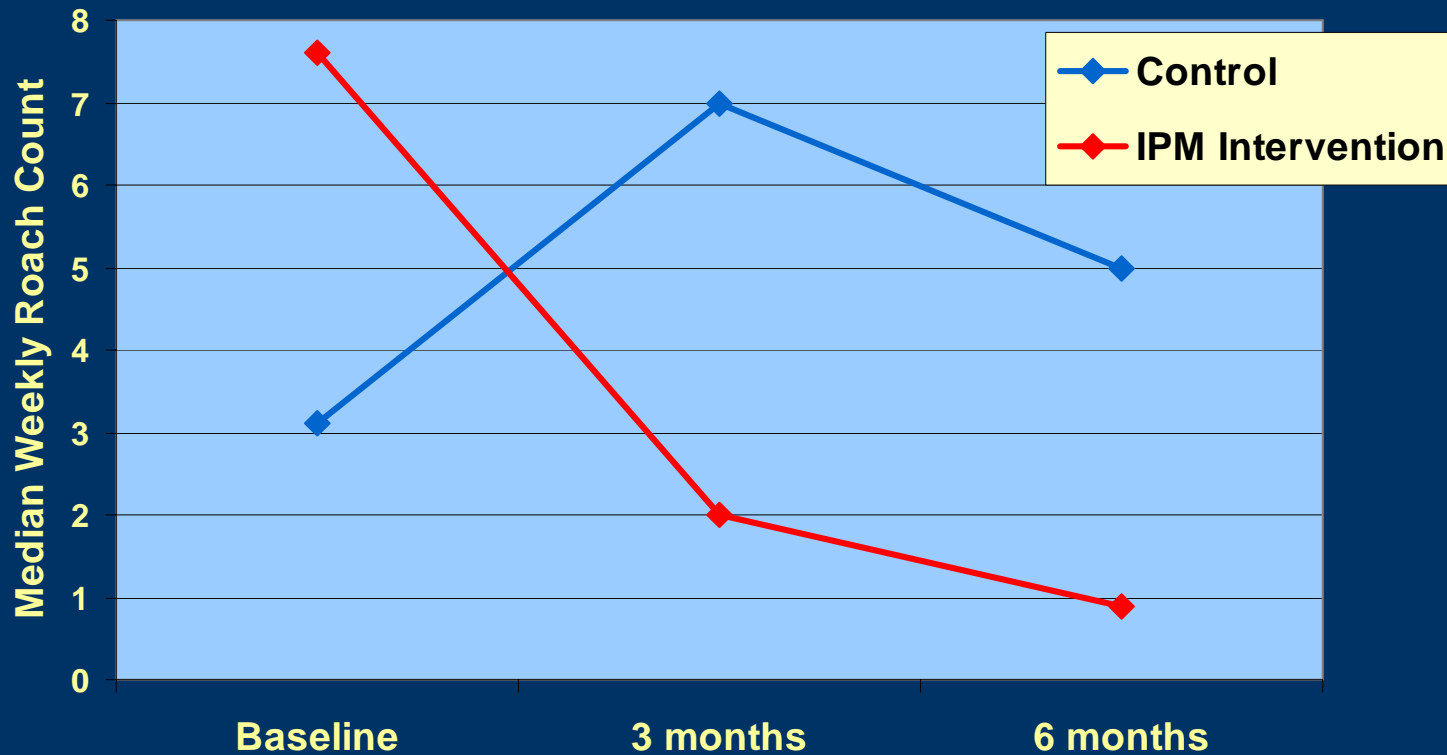
Our Simple Approach to IPM

- Professional cleaning to remove food sources, cockroach and rodent traces in kitchen and bathrooms
- Caulking and sealing kitchen cabinets and other points of entry
- Use of gels & bait stations, boric acid powder, diatomaceous earth
- Suspension of all commercial spray pesticide use
- Residents receive a garbage can with a lid, food storage containers, and cleaning supplies.



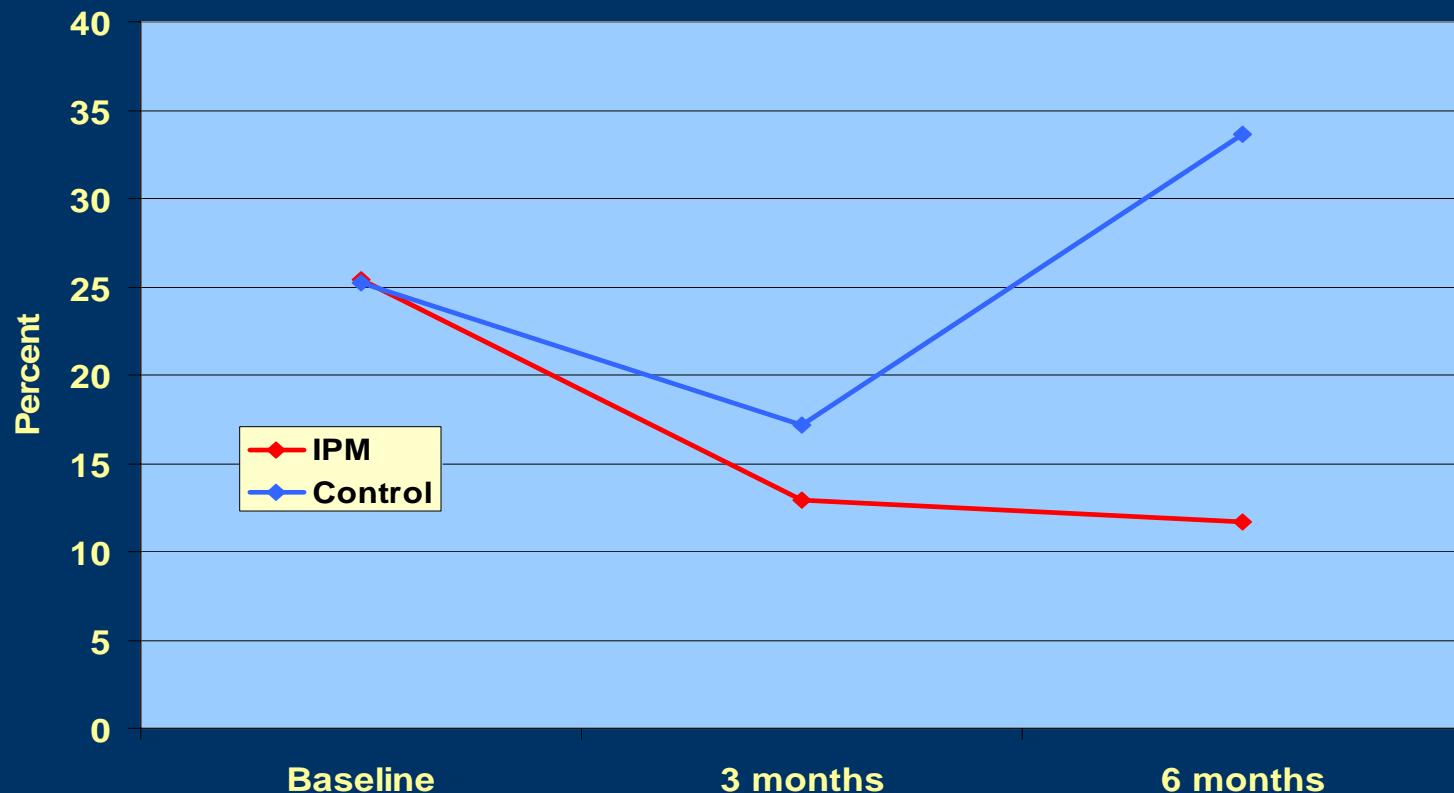
Evaluation Highlights: Cockroaches

**Weekly Trapped Roach Counts over Time
in Intervention vs. Control Apartments**

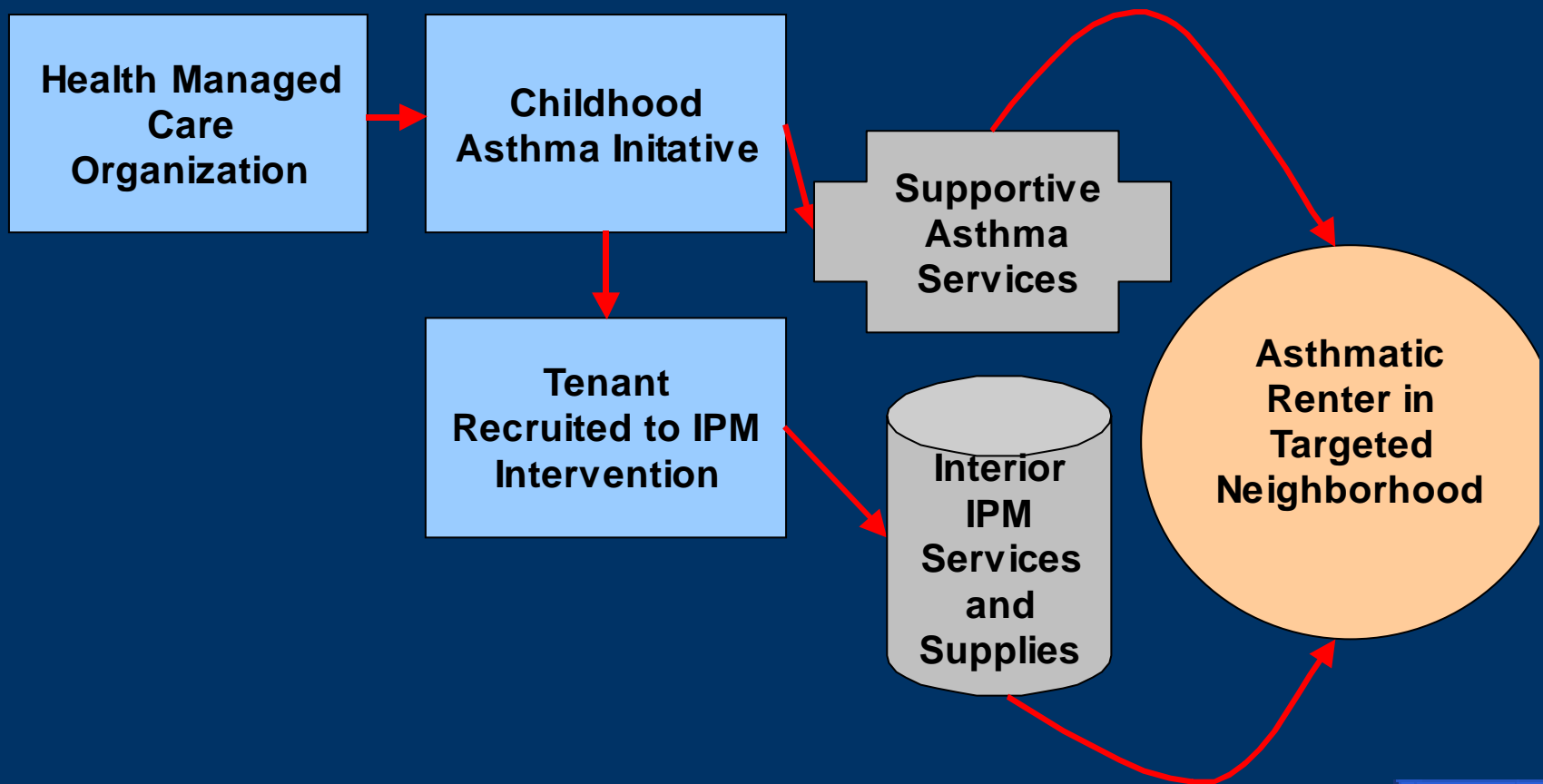


Evaluation Highlights: Rodents

Percent of Households Seeing at Least One Mouse per Week over Time



Childhood Asthma Initiative Approach



IPM and Exterior Rodents

- Problem: governmental response to urban rats is typically reactive
- IPM Approaches in NYC:
 - Retraining all municipal pest control and building maintenance leadership in 3-day Rodent Academy
 - Mining administrative data to evaluate community factors and risks for rodents
 - Initiating rodent indexing

Promoting IPM via Outreach and Policy

- Consumers and retailers
- Landlords and tenants
- Municipal government

Hardware Store Campaign

HEALTHY HOMES



Pests

Pests - including roaches and mice – are common asthma triggers in the home. Using pesticides may also be unhealthy. Use safer pest control in the home.

Things You Can Do

Deny pests food and water

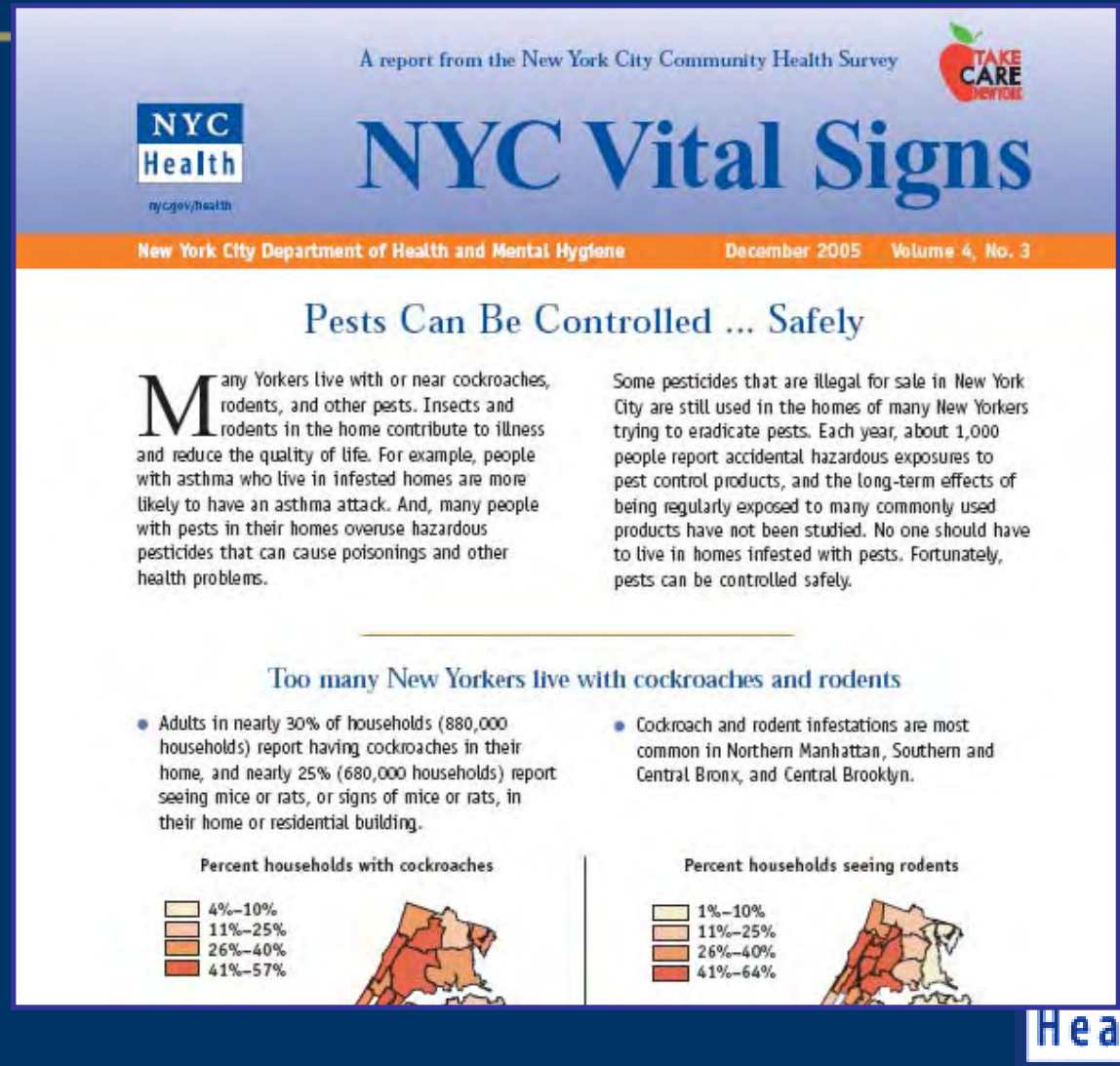
- Keep your home clean and dry.
- Store food in sealed containers.
- Fix leaks and dripping faucets quickly.
- Wash and dry dishes after each use.
- Empty your kitchen garbage every day.

Deny pests entry and shelter

- Use caulk and plaster to seal holes and cracks in walls, floors, and ceilings.
- Reduce clutter, cardboard and newspapers.

**Use safer products: avoid foggers, bombs and sprays.
Never use products called “Tempo”, “Tres Pasitos”**

Reports to Policy Makers and Media



NYC Adopted Municipal Use Reduction Bill in 2005

- Phase-out of certain pesticides
- Prior notification for pesticide applications
- Recordkeeping & reporting requirements to City Council & DOHMH
- Inter-agency pest management committee and IPM planning

Phase-Out Schedule

☑ November 9, 2005: EPA-classified **Toxicity Category I**
(**“Danger”**)

G May 9, 2006:
**EPA-classified known, probable, likely, possible
carcinogens**

G November 9, 2006:
**California-classified developmental and reproductive
toxins**

Local Law 37 Home Page

www.nyc.gov/health/ll37

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Local Law 37 Pesticide Use by City Agencies

Local Law 37 of 2005 amends the administrative code of the City of New York to promote the reduction of pesticide use by city agencies. Municipal agencies are now phasing out the use of certain pesticides, instituting new recordkeeping and reporting procedures, and providing prior notice to the public before many pesticide applications.

For more information about Local Law 37, click on one of the fact sheets to the right. To determine whether a pesticide is prohibited under Local Law 37, click on "Search for Product Prohibition Status."

Search for Product Prohibition Status

Fact Sheets

- ▶ General Summary
- ▶ Prohibitions
- ▶ Waiver
- ▶ Reporting and Recordkeeping
- ▶ Notification
- ▶ Contracts
- ▶ Glossary

Forms and Templates

- ▶ Waiver Form
- ▶ Notification Sign
- ▶ Reporting Form

Other Resources

- ▶ Text of Local Law 37
- ▶ New York State Department of Environmental Conservation
- ▶ U.S. Environmental Protection Agency
- ▶ New York State Pesticide Product, Ingredient, and Manufacturer System
- ▶ New York State Pesticide Sales and Use Reporting Database Group

Product Prohibition Search

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Pesticide Product Search

Prohibition Status under Local Law 37

Local Law 37 prohibits the use of certain pesticide products based on their toxicity and potential to cause cancer and/or reproductive effects.

The tool below can be used to evaluate whether any product registered by the U.S. Environmental Protection Agency (EPA) is prohibited for use on New York City owned or leased property.

YOU MUST ENTER EITHER THE EPA PRODUCT REGISTRATION NUMBER* **OR** THE PRODUCT NAME

Company Code	Product Code
<input type="text" value="279"/>	<input type="text" value="3081"/>

PRODUCT NAME LOOKUP - Enter the Full Name or Any Part of the Product Name.

→ Search for Product

*Certain EPA product registration numbers contain an additional distributor number (XXXXXX-XXXXX- XXXXX). Please exclude the distributor number when performing a product search. Products with a distributor number will have a different name but the same formulation as the primary registered product displayed here.


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Product Prohibition Results

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Pesticide Product Search Result
Prohibition Status under Local Law 37

Date of Search: 1/6/2006

Product Name: CYNOFF EC INSECTICIDE
EPA Registration: 000279-03081
Local Law 37 Prohibition Status*

PROHIBITED: Use of this product on New York City property is prohibited by the provisions of Local Law 37, effective May 9, 2006. See below for specific reason (s) for the prohibition.

CRITERIA CONSIDERED IN DETERMINING PROHIBITION STATUS

Toxicity Category

NOT PROHIBITED: This product is not classified by the U.S. Environmental Protection Agency as Toxicity Category 1.

Carcinogenicity

PROHIBITED: Use of this product is prohibited on New York City property due to one or more of its active ingredients being classified as a possible, probable or known carcinogen by the U.S. Environmental Protection Agency, effective May 9, 2006.**

Active ingredients prohibited by Local Law 37 on the basis of their carcinogenicity status

Active Ingredient	EAS No.	EPA Carcinogenicity Status
Cypermethrin	0052315078	Group C--Possible Human Carcinogen

Features of the IPM DOHMH-NYCHA Collaboration

- Environmental area of intervention outside the direct regulatory control of Health Department
- Targets of change are institutional *and* individual
- Lessons have broad applicability to entire city, general public
- Health Department able to play significant role without significant staff resources

Inter-Agency Environmental Collaboration: Roles for a Health Department

1. Technical advisory capacity
2. Secure health-based funding for environmental goals
 - IPM
 - Environmental Public Health Tracking
 - Healthy Homes
3. Create flexible staffing and collaborative work environments promoting innovation
4. Design and conduct evaluations, research
5. Assemble constituencies, allies
6. Shift or accelerate secular trends
7. Exert scientific leverage

Acknowledgements

DOHMH

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