

# **Pest Control Subsidy Framework and Study**

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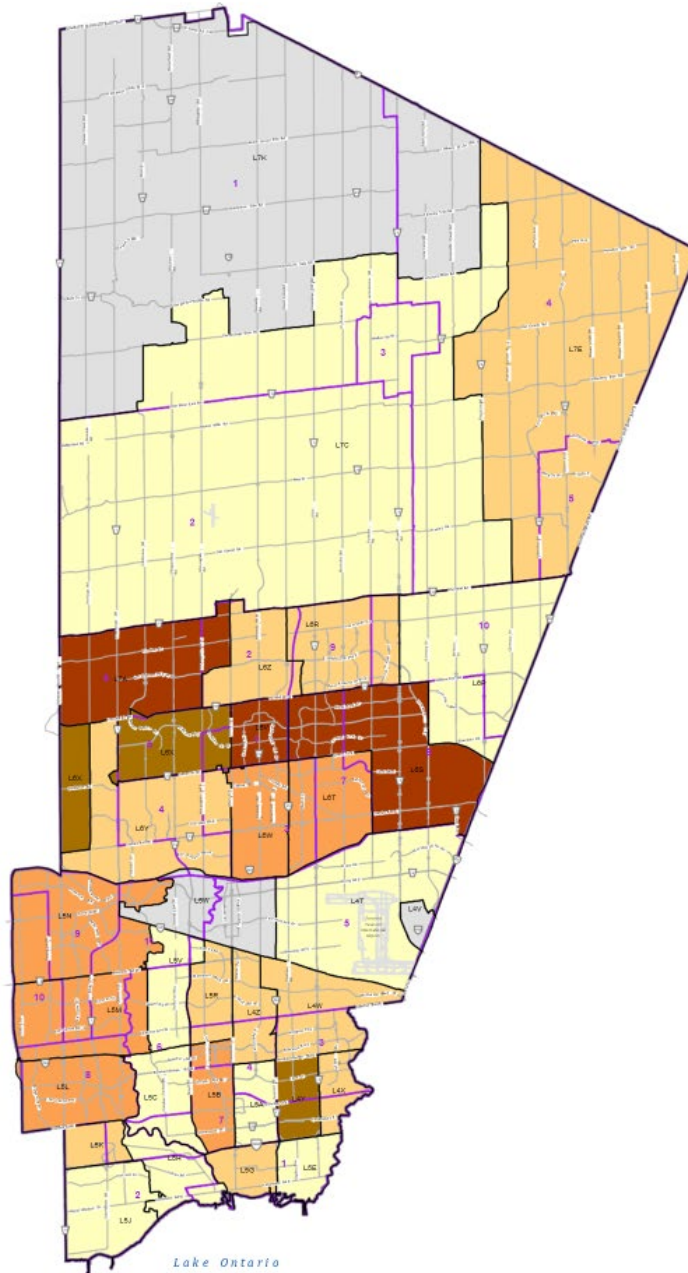
# Rats are present in our environment

## **Between 2017-2020 (as of September 24, 2020)**

- Peel Health has received 330 rat-related complaints:
  - 150 in Brampton
  - 10 in Caledon
  - 170 in Mississauga
- The numbers are variable from year to year.

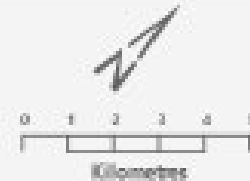
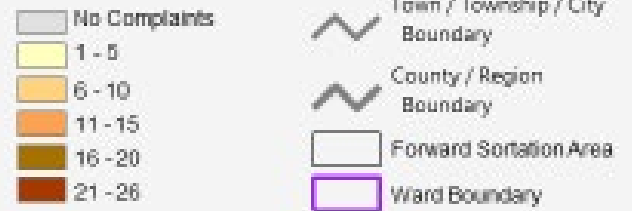
# Map

Number of Rat Complaints Reported to Peel Public Health, 2017-2020



## Legend

### Number of Complaints by Forward Sortation Area<sup>a</sup>



<sup>a</sup> 4 out of 261 valid complaints were reported to Peel Public Health. Of the total, 2 complaints were found to have Forward Sortation Area that did not exist in Peel Region. These areas were excluded from the map.

The information displayed on this map has been compiled from various sources. While every effort has been made to accurately depict the information, the map should not be relied on as being a precise indicator of location.

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<https://www.regionofpeel.ca/peelpublichealth>

# Rat-borne illness in Peel

## Current context in Peel: risk of rat-borne disease is low

- Incidence of reportable rat-borne disease in Peel:
  - No human cases of plague in Canada since 1939
  - No cases of viral hemorrhagic fever, hantavirus pulmonary syndrome or tularemia in Ontario in the past 10 years
  - Can carry gastrointestinal illness (E. coli, Campylobacter, Salmonella) – however, of the cases annually reported to Peel Public Health, none were linked to rats; the majority were linked to travel and improper handling of food.

# Responsibility of Public Health with Rats

- **Inspection of food premises and enforcement of the Food Regulations**
- **Response to rat complaints on private property**
- Inspection of the premises – rat droppings/burrows
- Education and Advice – both on the property and on surrounding properties
- Referrals to Property Services/By-law if warranted

	Region of Peel	Area Municipalities	Owner/Landlord
Private Property (Residential)	<ul style="list-style-type: none"> <li>Public Health Education</li> <li>Health Protection and Promotion Act</li> </ul>	<ul style="list-style-type: none"> <li>Property Standards</li> <li>Animal Control – feeding of wildlife</li> <li>Nuisance Weed and Tall Grass</li> </ul>	<ul style="list-style-type: none"> <li>Property Maintenance and Pest Control</li> </ul>
Municipal-owned Public Property	<ul style="list-style-type: none"> <li>Building Maintenance</li> <li>Construction</li> <li>Waste Collection</li> </ul>	<ul style="list-style-type: none"> <li>Building Maintenance</li> <li>Park Maintenance (grass/waste control)</li> <li>Construction</li> </ul>	
Property to which the public has access	<ul style="list-style-type: none"> <li>Enforcement of Food Premises Regulation</li> </ul>	<ul style="list-style-type: none"> <li>Property Standards</li> </ul>	<ul style="list-style-type: none"> <li>Property Maintenance and Pest Control</li> </ul>
Rental Property	<ul style="list-style-type: none"> <li>Public Health Education</li> </ul>	<ul style="list-style-type: none"> <li>Property Standards Bylaw</li> </ul>	<ul style="list-style-type: none"> <li>Property Maintenance and Pest Control</li> </ul>
Vacant Buildings		<ul style="list-style-type: none"> <li>Property Standards</li> </ul>	<ul style="list-style-type: none"> <li>Property Maintenance and Pest Control</li> </ul>

# External Municipal Surveys Summary - Subsidies

## *Where do they exist?*

No programs in Large GTHA Municipalities

Several smaller Municipalities with programs

## *What do they involve?*

Residential Program Only

One ICI Pilot Project for one BIA (in development)

Education & Web site Data

Some cancelled due to excessive cost

## *How do they work?*

\*Residents receive subsidy for pest control vendor they hire  
(\* Typical)

Must meet specific criteria to be eligible for subsidy

Inspection and Monitoring by staff

# Municipal Scan Summary - Subsidies

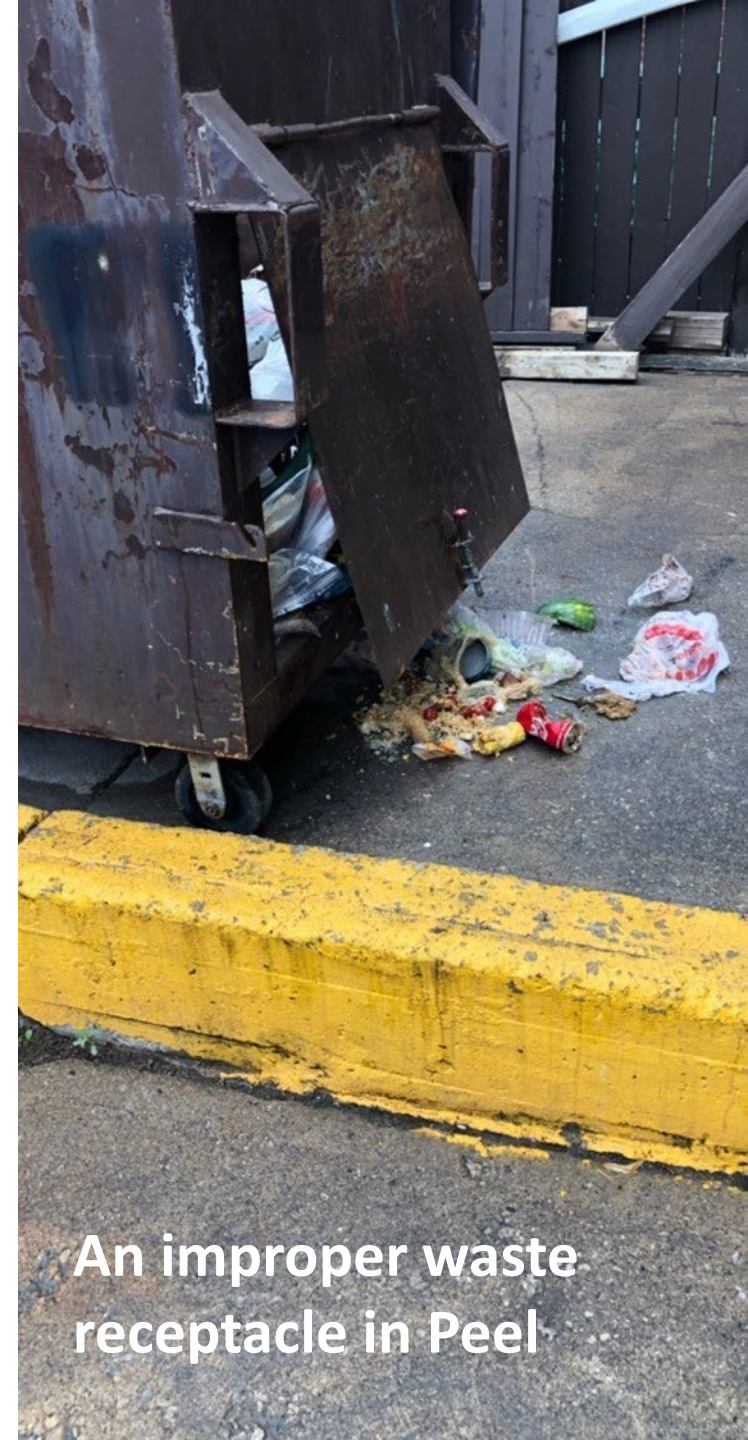
Municipality	Windsor	Oshawa	Niagara Falls	St. Catharines	Durham	Welland	York	Sault Ste. Marie
Program	Extermination	No	Subsidy	Subsidy	No	Subsidy	No	<b>Cancelled</b>
Residential / ICI	<b>Residential only</b>	n/a	<b>Residential only</b>	<b>Residential Only</b>	n/a	<b>Residential Only</b>	n/a	n/a
Resourced	1 FTE inspector		Existing resources	4 bylaw officers, coordinator and clerk		Bylaw clerk and bylaw officers (3.5 FTE)		
Costs	Cost of baiting covered if eligible		<b>50% to a max of \$200/yr</b>	<b>50% to a max of \$200/yr</b>		<b>50% to a max of \$200/yr</b>		
Population	217,000		88,000	133,000		52,000		

More details can be found in Appendix IV of the report



# What is Integrated Pest Management (IPM)?

IPM is a decision making process that anticipates and prevents pest activity and infestation by combining several tactics to achieve long-term solutions.



An improper waste receptacle in Peel

# **Bobby Corrigan, PhD**

## **Urban Rodentologist**

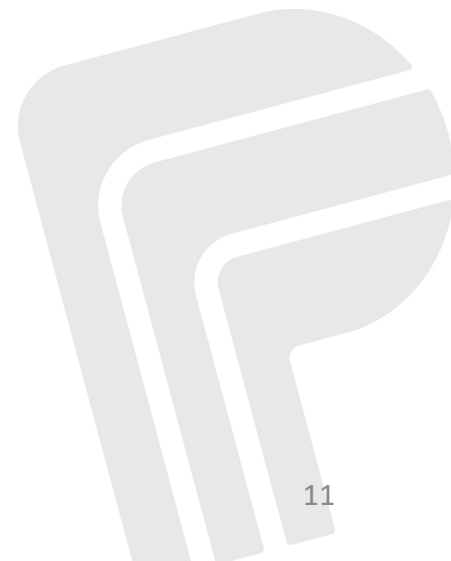
Rodent Consultant to the  
Region of Peel

On-going scientific consultant  
to: The New York City Dept of  
Health; Rodent Control Division.



# Discussion

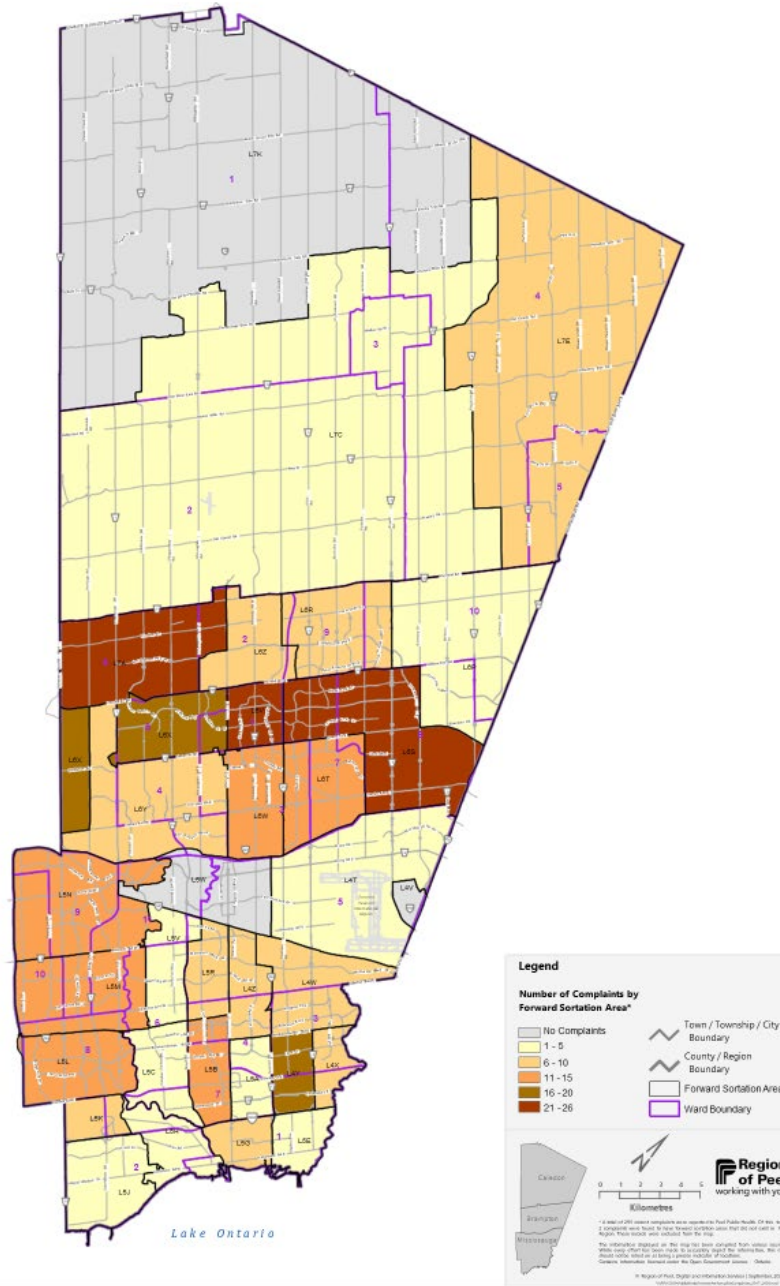
- Peel Public Health Complaints
- Review of Recommended Program for the Region of Peel
- Rebate Program Comments
- IPM at all times for the good of the environment







# Number of Rat Complaints Reported to Peel Public Health, 2017-2020



e.

No Food = No Rats!







NO HOUSEHOLD  
TRASH  
NO BUSINESS  
TRASH  
**\$100 FINE**



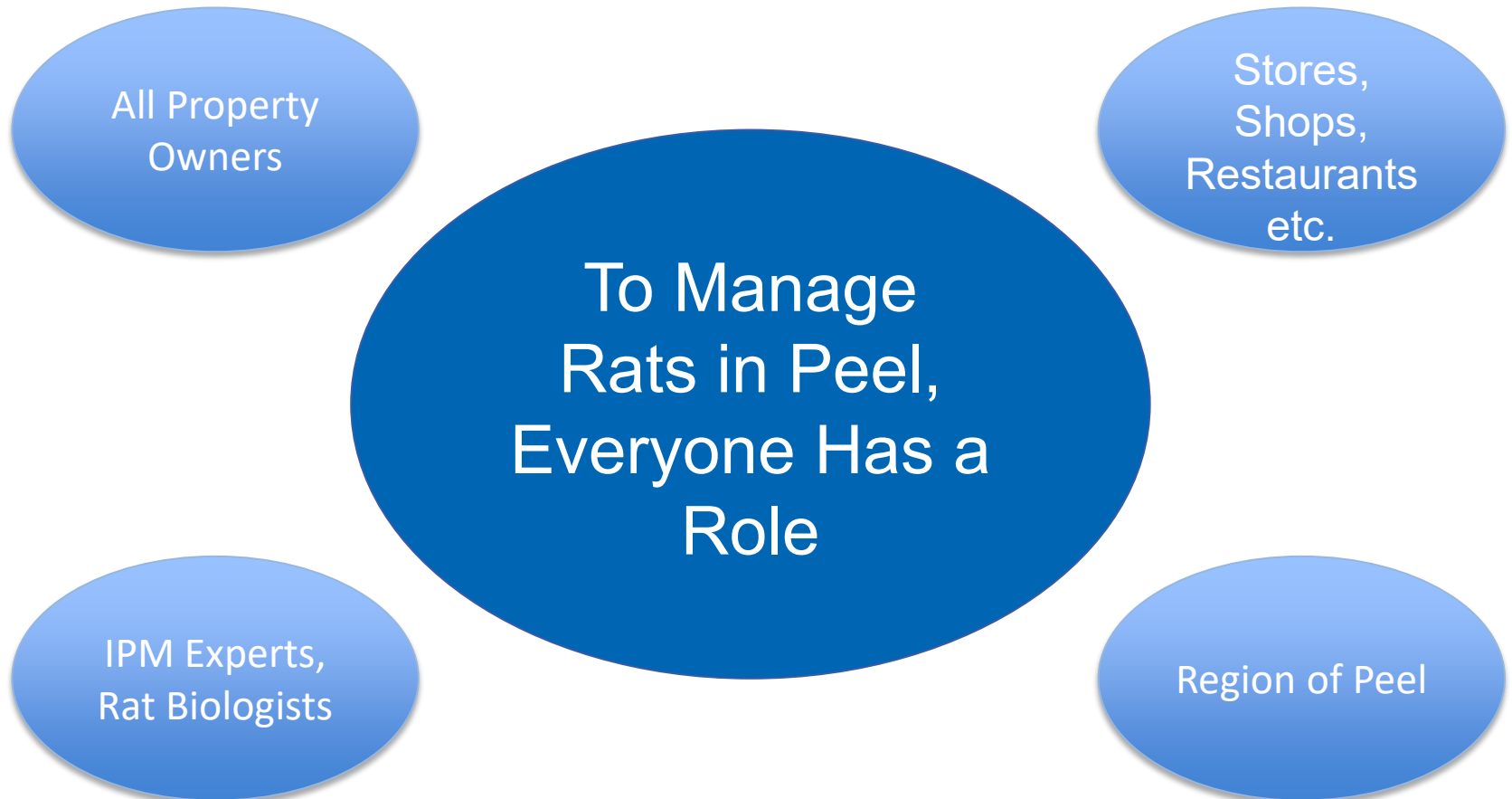
411

95R15 69755

QUEEN VICTORIA  
LEGGERS LETTUCE

GENERAL BIODIESEL  
WASTE COOKING OIL ONLY  
NO MOTOR OIL  
206 932 1600

# Review /Peel Recommended Program



# Subsidy Program



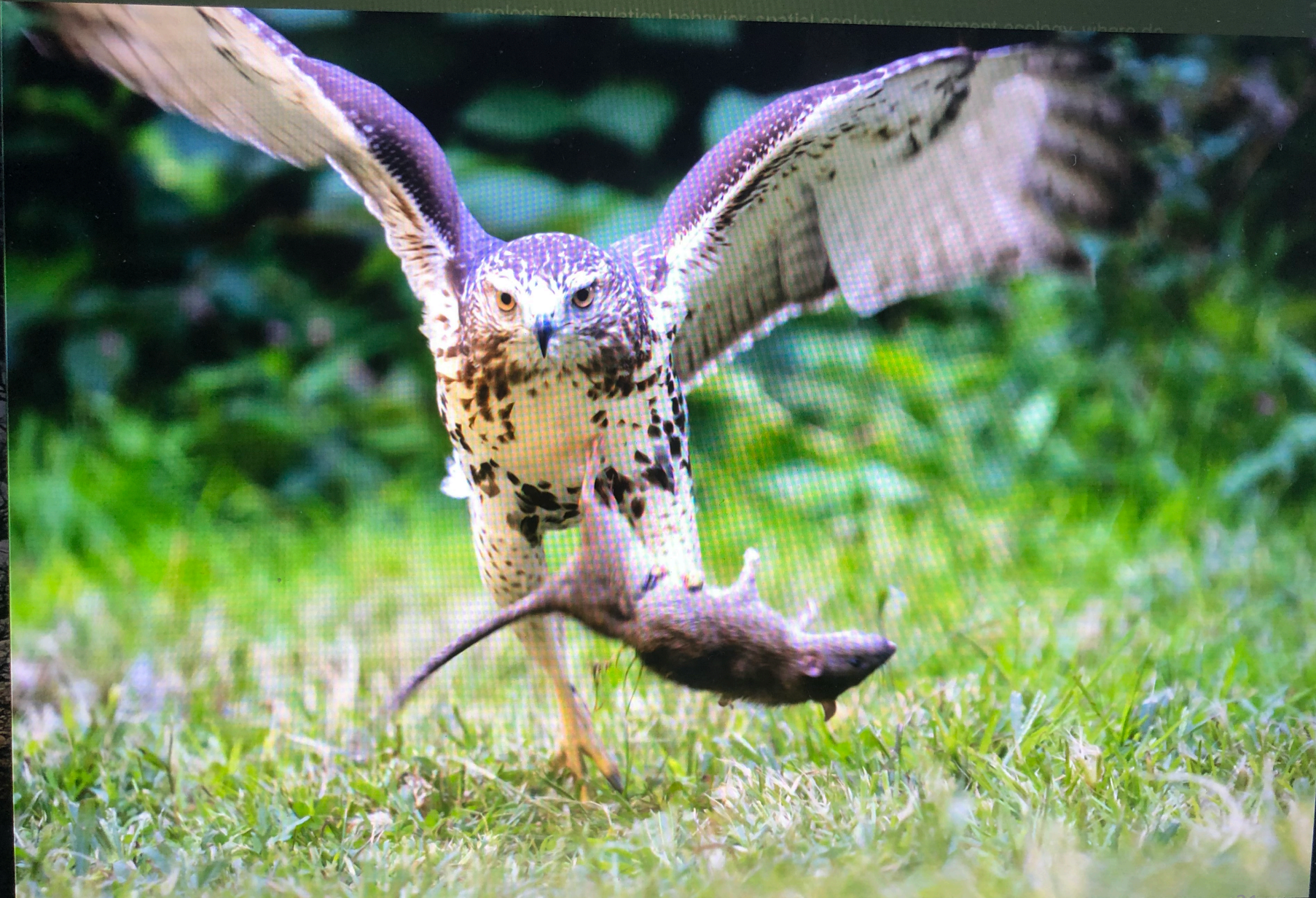


Home

Nate Bickford

@nate\_bickford

ecologist, population behavior, spatial ecology, movement ecology, where do



Promoted Tweet

# Integrated Pest Management (IPM)

## Five Basic Steps

1. On-going surveys
2. Keeping our garbage tidy and secure
3. Keep our buildings tight.
4. Non chemical tools (traps, etc)
5. Chemical (Pesticides)..

# Key to a Successful Program

- Create new “IPM Team”
- Develop strategy for rodent population reduction
- Implement Strategy based on IPM principles
  - Use preventative measures
  - Develop monitoring and identification program
  - Focus on education
  - Conduct regular inspection
  - Establish an “Action Threshold”
  - Environmentally compatible & Economically feasible
  - **Evaluate** effectiveness



# Key considerations of a successful Subsidy program..

- A subsidy program would...
  - Reimburse 50% of professional services to a max of \$200/year per residential address
  - Be focused for Residential use *only*
  - Would see Residents receive subsidy for pest control vendor they hire
  - Would include qualification criteria for eligibility – ie. no bird feeders, good overall condition, no excess waste
  - Would focus on Education and other methods to eliminate pests



# Financial Implications

Summary	2020	2021	2022 and beyond
<b>Full Region of Peel Option</b>			
Rebate Program – Full Region	\$475,000	\$900,000	\$900,000
IPM Resources including external studies and consultants	\$125,000	\$1,500,000	\$1,500,000
Waste Management Support	\$73,000	\$440,000	\$440,000
Sub-total: Annual Operating costs	\$673,000	\$2,840,000	\$2,840,000
Construction Abatement Program	\$75,000	\$550,000	\$550,000
Total Annual Costs	\$748,000	\$3,390,000	\$3,390,000
IPM Strategy – One-time Costs	N/A	\$500,000	N/A
<b>Total – FULL Region</b>	<b>\$748,000</b>	<b>\$ 3,890,000</b>	<b>\$ 3,390,000</b>
<b>Three Ward Option</b>			
Rebate Program – 3 Wards Pilot	\$143,000	\$103,000	\$103,000
IPM Resources and Waste Management Support	\$181,000	\$1,835,000	\$1,701,700

# Questions and Answers

## Contact info:

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