

# The Rabies Reporter

The Ministry of Natural Resources  
MNR Publication 51709, Volume 35  
January — December 2024



The Rabies Reporter is a scientific newsletter about current issues in rabies research and control. It is a joint effort of the Wildlife Research and Monitoring Section of the Ontario Ministry of Natural Resources; the Rabies Laboratory at the Ottawa Laboratory (Fallowfield) of the Canadian Food Inspection Agency; Ministry of Agriculture, Food and Agribusiness; and the Ontario Ministry of Health. Articles for future issues will be welcomed by the editor. The Rabies Reporter is not peer reviewed and should be cited as a newsletter. Send contributions, letters and inquiries to: [rabies@ontario.ca](mailto:rabies@ontario.ca).

Some of the information in this document may not be compatible with assistive technologies. If you need any of the information in an alternate format, please contact [rabies@ontario.ca](mailto:rabies@ontario.ca).

ISSN (print): 1186-8961  
ISSN (pdf): 1705-2106

## In this issue

- Rabies surveillance and control program – 2024
- 2024 communications
- First case of rabies in a human since 1967
- Bats in Ontario
- New research published in 2024

## A landmark year in rabies surveillance and control.

### Ministry of Natural Resources

We did not detect any raccoon strain cases in 2024 — a first since the outbreak began in 2015. Fox strain rabies hasn't been detected in the province since 2018.

In September 2024, Brant County Public Health reported a case of rabies in a human. The exposure was believed to be from a bat in the Temiskaming region of northeastern Ontario. Postmortem testing confirmed that the individual was infected with bat strain rabies. Since reporting began in 1924, there have been 28 cases of rabies in humans in Canada, 9 occurred in Ontario. All cases were fatal. Prior to the 2024 case, Ontario's last domestically acquired case of human rabies was in 1967.

Public education and pet vaccination are the best strategies for protecting people and pets from bat rabies. We are working with the Ministry of Health and other partners to support public education about the risks of bat rabies and the importance of bats as a part of our ecosystems. There is no efficient way to vaccinate wild bats against rabies.

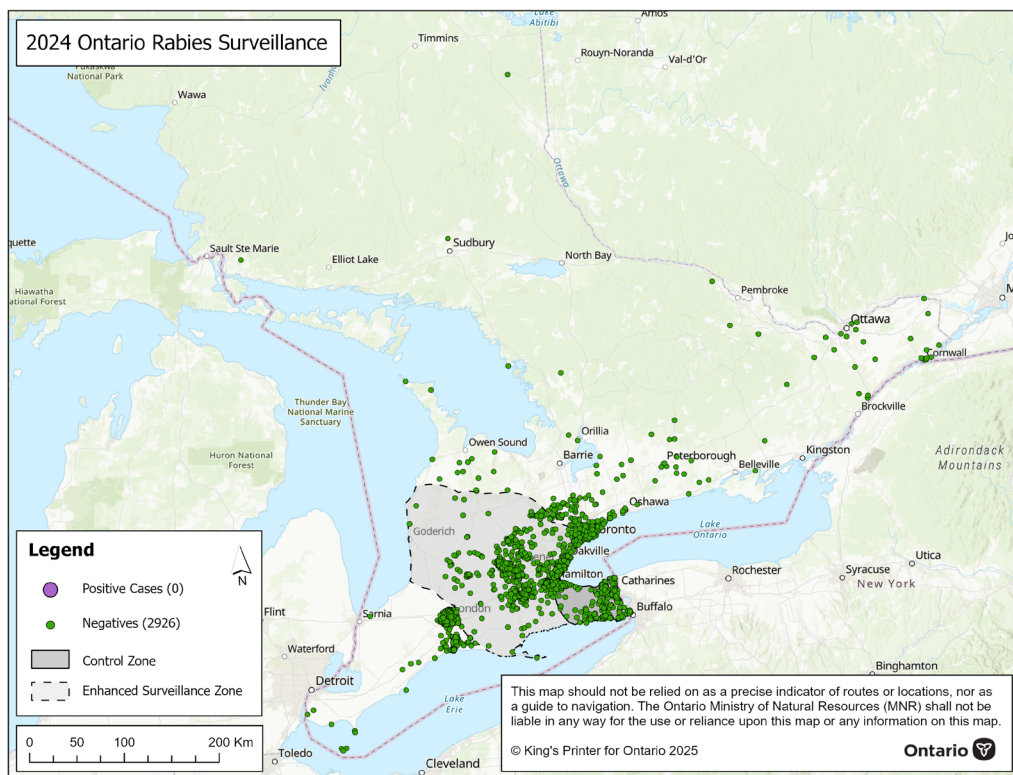
In 2024, we tested 2,745 samples from sick, strange acting, found dead, or roadkill wildlife. This was less than the ten year average of 3,680 (Figure 1). Since 2015, 523 raccoon strain and 21 fox strain cases have been detected in Ontario (Figure 2).

**Raccoon strain:** For the first time since the outbreak began in 2015, no raccoon strain cases were detected.

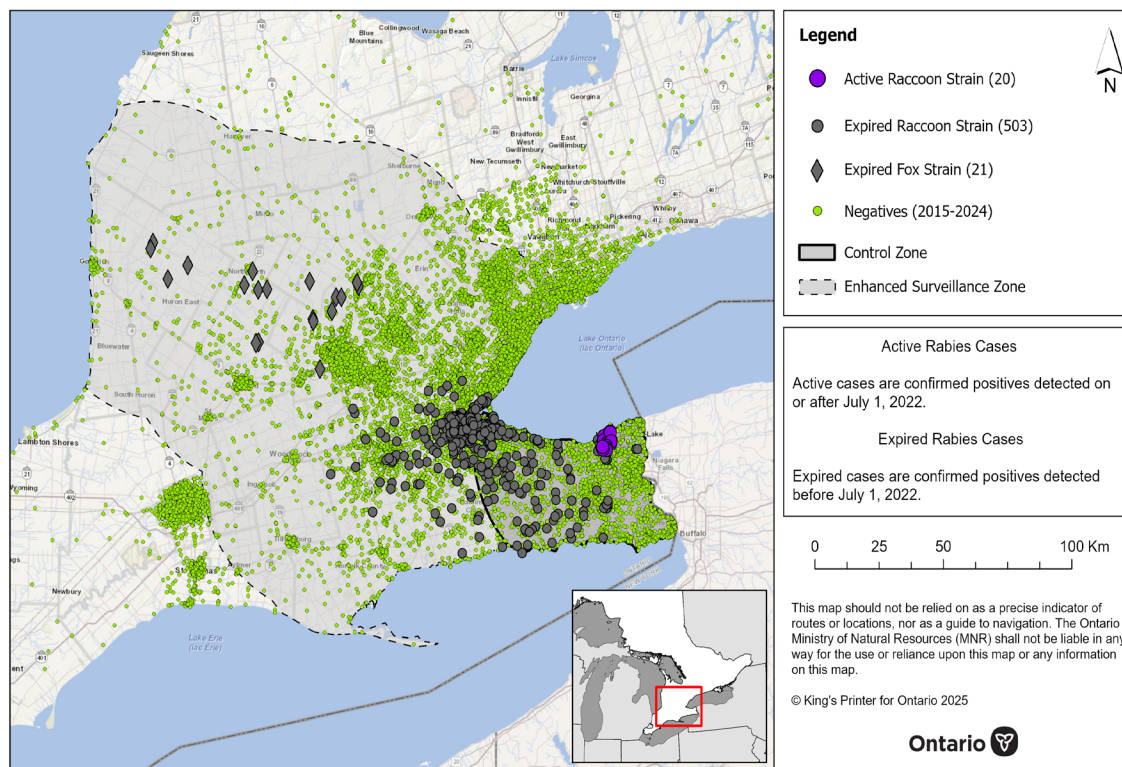
**Fox strain:** For the sixth year in a row, no fox strain cases were detected.

**Bat strains:** In 2024, 91 cases of bat rabies were detected across the province. Cases were detected in bats (78 big brown bats, six silver haired bats, four little brown bat and two hoary bats) and one human (see above).

We will continue surveillance and terrestrial rabies control operations throughout 2025. Monitoring and sampling of dead, sick or strange acting wildlife will continue across the province.



**Figure 1.** Samples tested in 2024 for terrestrial rabies in Ontario by MNR and partners, showing negative (green) wildlife, and positive cases (purple), of which there were none.



**Figure 2.** All terrestrial rabies cases active (<2 years since detection) and expired (>2 years since detection) detected in southern Ontario from December 2015–December 2024, along with the current enhanced surveillance and control zone.

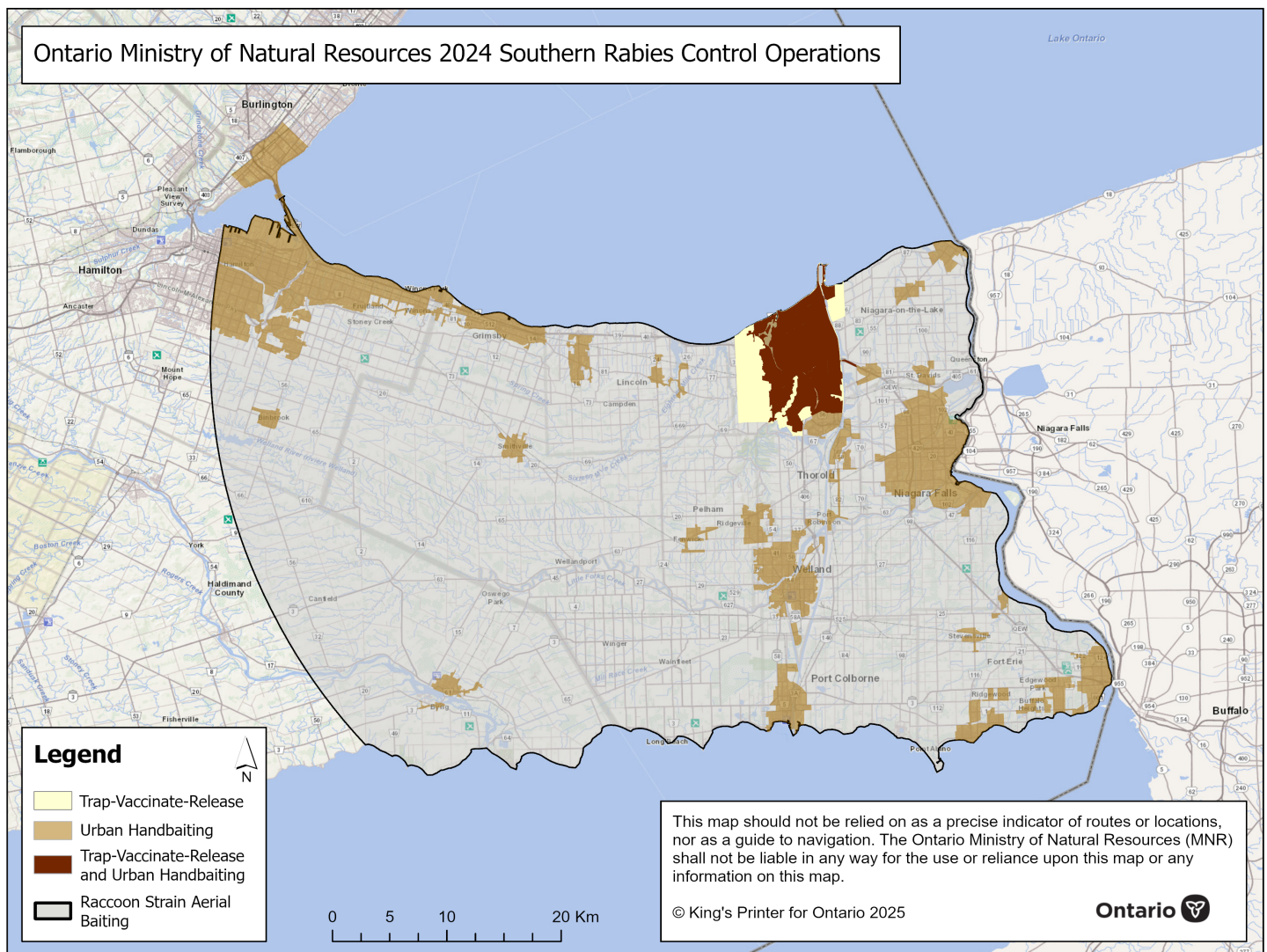


## Rabies surveillance and control program – 2024

Ministry of Natural Resources

In 2024, we continued to work towards our goal of containing and eliminating terrestrial (raccoon and fox strain) rabies in southern Ontario. The rabies control zone was reduced to just over 2,500 km<sup>2</sup> when several cases expired because they were detected more than 2 years before.

We continued to focus on oral rabies vaccine distribution using the ONRAB baits, Trap-Vaccinate-Release (TVR) of urban wildlife, and enhanced surveillance within 50 km of any active positive cases (Figure 3). In 2024, we distributed over 486,648 baits in southern Ontario by hand, air and bait station. Enhanced surveillance focused on the collection of sick, strange acting, or found-dead wildlife for rabies testing.



**Figure 3.** Southern Ontario aerial baiting, hand-baiting and Trap-Vaccinate-Release was conducted from May to October; over 486,000 baits were distributed in 2024.

## Aerial baiting

We distributed baits by air in southern Ontario from August 19-21. We distributed 348,300 baits using fixed-wing aircraft at densities of 75, 150 and 300 baits/km<sup>2</sup> over an area of 2,143km<sup>2</sup> (Figure 3). We distributed an additional 50,025 baits by helicopter from August 22-23 at a density of 75 and 150 baits/km<sup>2</sup>. Of these, 36,350 were distributed in the Niagara region, east of St. Catharines to the Ontario/US border and 7,800 were distributed throughout the Golden Horseshoe.

## Hand-baiting

We carried out hand-baiting in urban areas in the control zone, focusing on raccoon and skunk habitat (bushes, parks, ravines, etc.) where animals may forage, or along fence lines, hedges, and large culverts. Green spaces such as forested parks, along railways and small hydro cuts were also targeted by crews on foot using trails and pathways (Figure 3).

Hand-baiting took place from June 15 to September 9. Crews distributed 58,551 baits at a density of 50 baits/km<sup>2</sup> covering an area of 363 km<sup>2</sup>.

Following the success of the TVR digital data collection last year, we transitioned to digital data collection for all ground baiting operations using mobile devices in 2024.

## Trap-Vaccinate-Release (TVR)

Our TVR program ran for seventeen non-consecutive weeks between June 17 and October 18. We trapped in twenty-six polygons (trapping areas) covering approximately 94 km<sup>2</sup> in the city of St. Catharines (Figure 4). We targeted high risk areas where positive cases were most recently detected, and strategic areas to help create a barrier of vaccinated animals to prevent the spread of rabies.

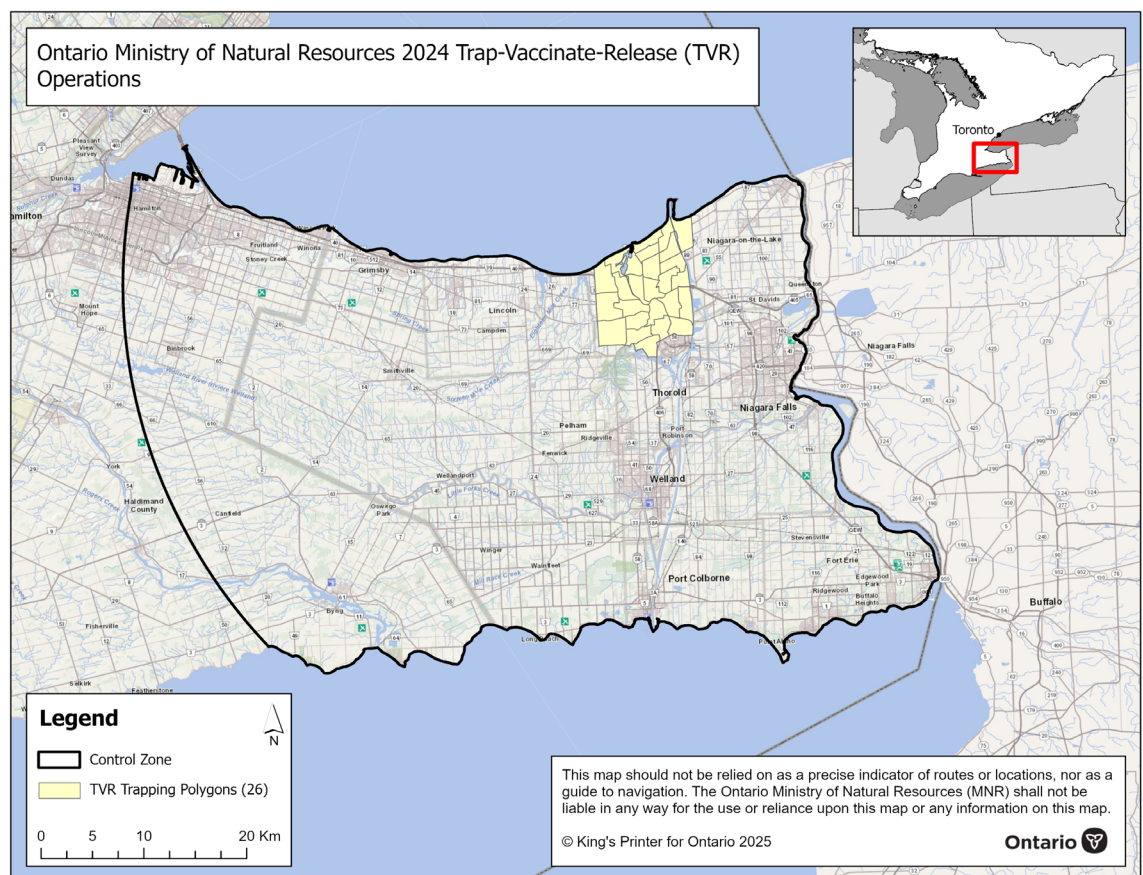


Figure 4. 2024 TVR polygons (trapping areas) in St. Catharines.



We obtained permission to set humane live traps on private and public land from the public, municipalities, and various organizations.

We captured and vaccinated animals with an intramuscular injection of the IMRAB 3 rabies vaccine. We applied ear tags with unique identification numbers so that mark-recapture data could be used to estimate raccoon and skunk population density and to determine the percentage of animals vaccinated. After vaccination, animals were released at the site of capture (Figure 5). In 2024, we vaccinated 1,209 raccoons, 309 striped skunks, and 1 red fox during TVR.

Non-target species such as opossums were released at the capture site without immunization.



Figure 5. TVR staff prepare to vaccinate a raccoon in 2024.

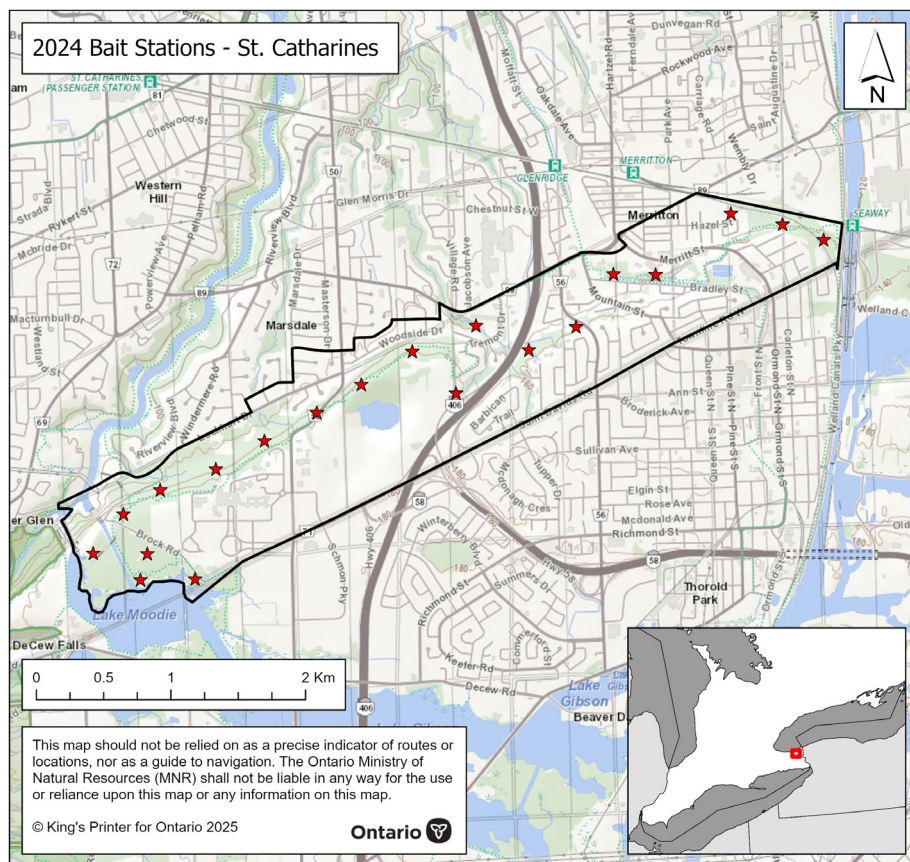


Figure 6. 2024 locations of bait stations in St. Catharines.

## Bait stations

In 2024, we once again installed temporary bait stations along the Niagara Escarpment in St. Catharines to target wildlife corridors in urban and semi-urban areas. Bait stations are polyvinyl chloride (PVC) tubes that are filled with baits once a week. Wildlife that encounter the stations may consume a bait, inoculate themselves, and keep moving.

We set up 19 stations in St. Catharines (Figure 6). The stations were re-baited with 75 baits every week from July 16-30. All together, we dispensed 2,729 baits using bait stations in 2024.



### Eastern Ontario preventative baiting

To prevent another incursion of raccoon strain rabies from New York State, we distributed 24,450 ONRAB baits by fixed-wing aircraft over a 431 km<sup>2</sup> area along the St. Lawrence River on August 6 (Figure 7). This area borders the St. Lawrence River near Kingston and Wolfe Island. Baits were dropped along flight lines spaced 750m apart and at a density of 75 baits/km<sup>2</sup> over agricultural and forested habitats. As an added precaution, Hill Island in Thousand Islands National Park was added to the baiting area in 2024. The island was baited at a density of 150 baits/km<sup>2</sup> from August 6-7 covering approximately 5 km<sup>2</sup>. A total of 1,193 baits were distributed by a combination of fixed-wing aircraft and hand distribution. From August 8-12, our hand-baiting crews distributed 5,462 baits in the city of Cornwall (Figure 7). We also partnered with the Mohawks of Akwesasne First Nation to provide 1,560 baits for distribution on Cornwall Island (Akwesasne).

We have not detected a case of rabies in eastern Ontario since 2005. However, we must remain vigilant. In 2024, there were several cases detected in New York State, within 50km of the border. The closest case to the Ontario border was located approximately 11 km south of the Thousand Islands border crossing.

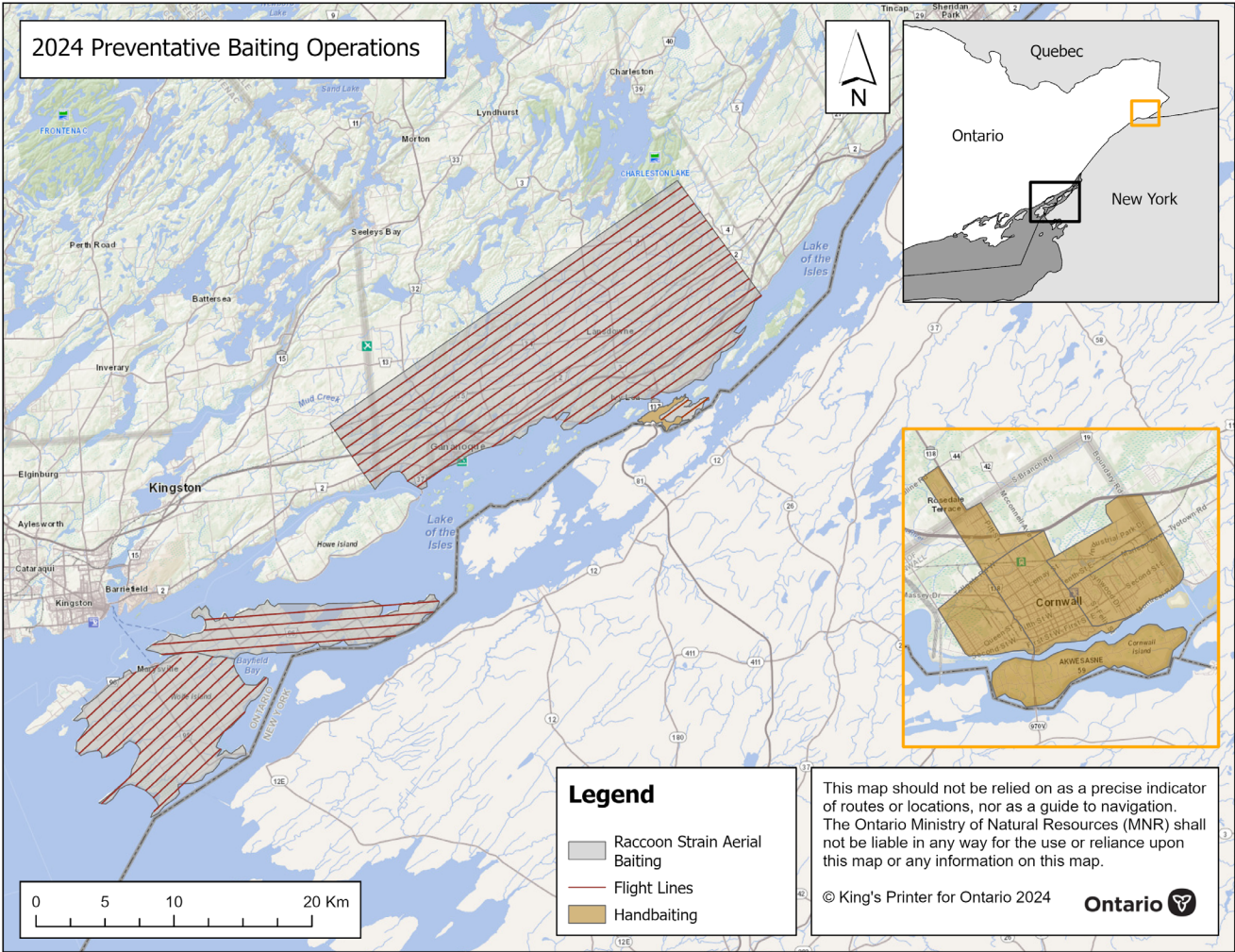


Figure 7. 2024 preventative baiting operations in eastern Ontario.



## 2024 communications

Anne McCarthy, Ministry of Natural Resources

Public education and outreach are an integral component of the rabies program. We work closely with municipalities and other partners to inform and engage the public and key audiences about rabies in wildlife. Tools used to communicate about the program include rabies information brochures, posters, media bulletins, social media, webpages, engagement events and presentations to partners and stakeholder groups.

The 2024, we shared 29 social media posts on Facebook, Instagram, Twitter and LinkedIn. These posts were successful, reaching (the number of people who saw the post) over 130,000 people (Table 1). The engagement rate for these posts averaged 3% (typically 1–5% is considered 'good'). While Facebook generated the most reach, almost 100,000, the highest engagement rate was seen on Instagram and LinkedIn with 4.1% and 4.8% engagement respectively.

Overall visitation to our Rabies in Ontario webpages was down slightly in 2024. The biggest changes were that the visitation to the rabies cases webpage almost doubled, likely in response to the human rabies case. While visits to the rabies in pets page appear to have decreased from 2023 visitation, it is close to the nine-year average of 14,500. The rabies surveillance map continued to be updated weekly on [Ontario.ca/rabies](https://ontario.ca/rabies).

**Table 1.** 2024 social media coverage on Facebook, Instagram, Twitter and LinkedIn, including impressions, reach, engagement and engagement rate.

| Platform           | Number of posts | Total impressions | Total reach    | Total engagements | Average engagement rate | Link clicks |
|--------------------|-----------------|-------------------|----------------|-------------------|-------------------------|-------------|
| Facebook           | 10              | 102,272           | 98,794         | 2,106             | 2.0%                    | 9           |
| Instagram          | 9               | 27,349            | 24,855         | 1,294             | 4.1%                    | 0           |
| LinkedIn           | 2               | 2,358             | 2,358          | 146               | 4.8%                    | 2           |
| Twitter/X          | 8               | 4,690             | 4,690          | 58                | 1.2%                    | 7           |
| <b>Grand Total</b> | <b>29</b>       | <b>136,669</b>    | <b>130,697</b> | <b>3,604</b>      | <b>3.0%</b>             | <b>18</b>   |

Impressions Number of times it appeared on people's screens.

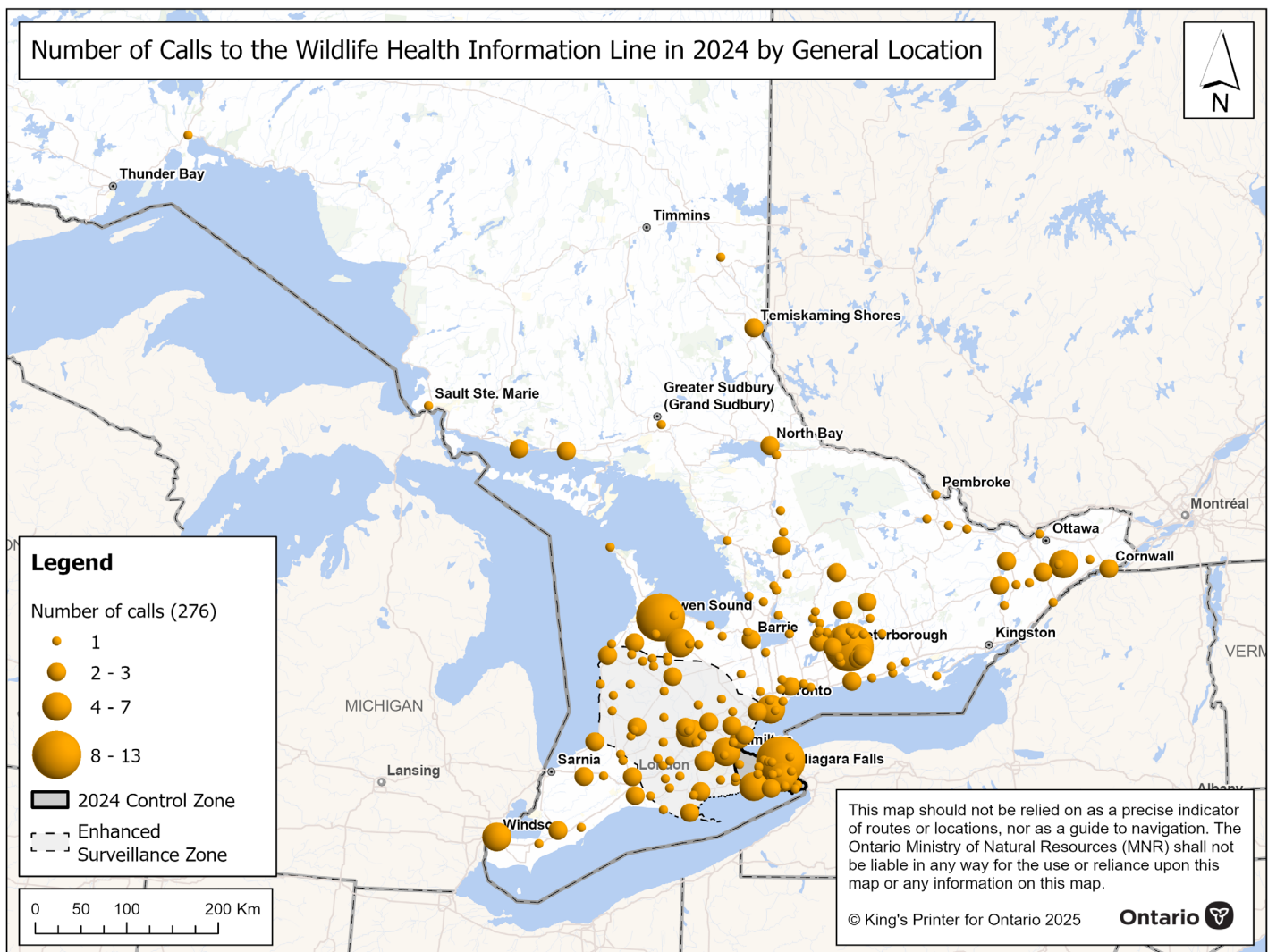
Reach Number of people who saw the post.

Engagement Number of people who interacted with the post.

Engagement rate Percentage of people who saw the post that reacted to it.

In 2024, the Wildlife Health Information Line (WHIL) received 300 calls. This was slightly more calls than received in 2023, but a bit less than the average number of calls for the past 10 years (average: 323 calls). Over half of the calls in 2024 were requests to pick up dead wildlife for testing (30%), or to report sick or strange acting wildlife (30%). Calls about baits (less than 10% of calls) included queries about the baiting schedule, baits found by dogs and bait safety.

Call volume ranged from 17-47 calls per month. In general, the highest volume of calls came in between April and October, when wildlife are most active and baiting operations are underway. The decrease in bait related calls continued in 2024. This decrease is likely related to the long history of rabies control operations and communications within the control zone, as well as the reduced control zone area. As in previous years, most calls originated in or near the control zone and enhanced surveillance zone (Figure 8).



**Figure 8:** General locations and number of calls to the Wildlife Health Information Line in Ontario in 2024. Calls lacking geographic information are not shown.



## First case of rabies in a human since 1967

Ministry of Natural Resources

In September 2024, a person was diagnosed with rabies after direct exposure to a rabid bat. This tragic situation reminds us of the serious nature of the rabies virus and the devastating impact that it can have.

If you suspect that you or another person may have been exposed to rabies (e.g., bitten or scratched by a wild or domestic mammal), report the incident to your [local health unit](#), doctor, or local emergency department as soon as possible to review your risk and discuss whether post-exposure vaccination is needed. The post-exposure vaccines are nearly 100 per cent effective when administered promptly, before symptoms appear.

Any direct contact with a bat should be considered a possible rabies exposure because bats have small, needle-like teeth and claws meaning bites or scratches can easily go undetected. Rabies in humans occurs very rarely in Canada due to effective public health prevention and rabies control measures. Since reporting began in 1924, there have been 26 cases of rabies in humans in Canada, and 9 of those were in Ontario. Before this case, Ontario's last domestically acquired case of human rabies occurred in 1967.

Local public health units are the lead agency for all cases involving human health. We work with public health and other partners to support public education about the risks of bat rabies and the importance of bats as a part of our ecosystems.

The Canadian Food Inspection Agency (CFIA) is the lead for tracking bat rabies cases. Information on rabies cases in Canada, including bats, can be found on CFIA's website at [Rabies in Canada](#).

The Canadian Wildlife Health Cooperative tests bats that have had no high risk contact with people or pets and provides public information such as [bat rabies fact from fiction](#), bat health information, and [how to remove a bat from inside your house](#).

### Rabies vaccines

#### Pre-exposure vaccine

Generally recommended for those who are at risk of exposure because of the kind of work or activities they are involved in e.g. veterinarians, wildlife rehabilitators.

Requires: 3 shots over 21 days – not covered by the Ontario Health Insurance Plan (OHIP).

#### Post-exposure vaccine

Rabies can be treated as long as it is administered before symptoms appear.

Post exposure treatment consists of:

- a shot, at the site of the wound, which contains immunoglobulin that helps destroy the rabies virus
- 4 or 5 shots of rabies vaccine in your upper arm, given over 14-28 days

Post-exposure treatment is covered by OHIP.

## Bats in Ontario

Bats are an important part of our ecosystem. They play an essential role in controlling insect populations, including agricultural pests and biting flies, which helps reduce the need for chemical pesticides. Bats contribute significantly to the health of ecosystems and human economies, making their conservation vital. Bats are specially protected wildlife in Ontario, and it is generally illegal to kill, harm or keep them in captivity.

Bat strain rabies persists at low levels across Ontario. Over the last decade, an average of 7% of all bats submitted for testing annually have rabies. Bats submitted for testing are typically sick, dead, or have had human contact which means that in the overall bat population the percentage of rabies is much lower. Although the percentage of rabid bats is low, any bat encountered should be considered rabid unless captured and proven otherwise. Bats have small, needle-like teeth and claws. Bites or scratches from a bat can easily go undetected.

Unfortunately, there is currently no practical way to manage bat rabies in the wild. Ontario's oral rabies vaccine baits must be chewed on to administer vaccine and are not appropriate for bats as they feed on flying insects. Public education and pet vaccination are the best strategies for protecting people and pets from bat rabies.

MNR science staff study and monitor bat distribution, habitat, and threats to help support management of bat populations. We also collaborate with partners such as the Canadian Wildlife Health Cooperative in tracking bat diseases such as coronaviruses and white-nose syndrome.



**Figure 9:** Big brown bats being swabbed for disease testing (left) and flying with transmitter (right) attached for tracking bat movements in Ontario.



## New research published in 2024

Ministry of Natural Resources

In 2024, MNR collaborated with partners to publish three new studies (links below). These projects represent just some of our collaborations. We work with municipal, provincial, national, and international partners to control rabies, conduct research and keep the public safe and informed. Our partners include local Public Health Units, Canadian Food Inspection Agency, Quebec, New Brunswick, New York State, Cornell University, and the United States Department of Agriculture, and others.

In this research we:

- Contributed to the development of tools for assessing raccoon populations in North America, enabling us to track long distance movements of wild raccoons.
- Refined a previous raccoon movement model to evaluate the cost and effectiveness of vaccination strategies.
- Summarized the lessons learned over the past 50 years of rabies oral vaccination campaigns on a global scale and how those lessons could be applied to new taxa and diseases.



Bastille-Rousseau, G., Gorman, N.T., McClure, K.M., Nituch, L., Buchanan, T., Chipman, R.B., Gilbert, A.T. and Pepin, K.M., 2024. Assessing the efficiency of local rabies vaccination strategies for raccoons (*Procyon lotor*) in an urban setting. *The Journal of Wildlife Diseases*, 60(1), pp.26-38. <https://doi.org/10.7589/JWD-D-23-00059>

Hopken, M.W., Bjorklund, B., Mankowski, C.C., Kirby, J., Chipman, R.B., Buchanan, T., Nituch, L., Gagnier, M., Massé, A. and Gilbert, A.T., 2025. Tracking the Origin of Raccoon (*Procyon lotor*) Translocations in Northeastern North America Using Population Genetics. *Northeastern Naturalist*, 31(4), pp.539-554. <https://doi.org/10.1656/045.031.0412>

Rupprecht, C.E., Buchanan, T., Cliquet, F., King, R., Müller, T., Yakobson, B. and Yang, D.K., 2024. A Global Perspective on Oral Vaccination of Wildlife against Rabies. *The Journal of Wildlife Diseases*, 60(2), pp.241-284. <https://doi.org/10.7589/JWD-D-23-00078>

# Ontario Animal Rabies Report

Detected rabies cases by region from January to December 2024 compared to same period in 2023.

| Animal type<br>Year            | Fox<br>2023 | Fox<br>2024 | RAC<br>2023 | RAC<br>2024 | SSK<br>2023 | SSK<br>2024 | Other<br>2023 | Other<br>2024 | Bat<br>2023 | Bat<br>2024 | Dog<br>2023 | Dog<br>2024 | Cat<br>2023 | Cat<br>2024 | LVSTK<br>2023 | LVSTK<br>2024 | Total<br>2023 | Total<br>2024 |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|
| <b>Eastern Ontario</b>         |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               |               |               |
| Frontenac                      |             |             |             |             |             |             |               |               |             | 1           |             |             |             |             |               |               | 0             | 1             |
| Lanark                         |             |             |             |             |             |             |               |               |             | 2           |             |             |             |             |               |               | 0             | 2             |
| Leeds and Grenville            |             |             |             |             |             |             |               |               |             | 1           |             |             |             |             |               |               | 0             | 1             |
| Lennox & Addington             |             |             |             |             |             |             |               |               |             | 2           |             |             |             |             |               |               | 0             | 2             |
| Prescott-Russel                |             |             |             |             |             |             |               |               | 2           |             |             |             |             |             |               |               | 2             | 0             |
| Ottawa-Carleton                |             |             |             |             |             |             |               |               | 1           | 2           |             |             |             |             |               |               | 1             | 2             |
| Renfrew                        |             |             |             |             |             |             |               |               | 1           | 1           |             |             |             |             |               |               | 1             | 1             |
| Stormont, Dundas,<br>Glengarry |             |             |             |             |             |             |               |               | 1           | 1           |             |             |             |             |               |               | 1             | 1             |
| <b>Central Ontario</b>         |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               |               |               |
| Durham                         |             |             |             |             |             |             |               |               | 2           | 6           |             |             |             |             |               |               | 2             | 6             |
| Haliburton                     |             |             |             |             |             |             |               |               | 1           |             |             |             |             |             |               |               | 1             | 0             |
| Hastings                       |             |             |             |             |             |             |               |               | 1           | 1           |             |             |             |             |               |               | 1             | 1             |
| Kawartha Lakes                 |             |             |             |             |             |             |               |               | 1           | 1           |             |             |             |             |               |               | 1             | 1             |
| Muskoka                        |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Northumberland                 |             |             |             |             |             |             |               |               |             | 2           |             |             |             |             |               |               | 0             | 2             |
| Peel                           |             |             |             |             |             |             |               |               | 2           | 2           |             |             |             |             |               |               | 2             | 2             |
| Peterborough                   |             |             |             |             |             |             |               |               | 2           | 5           |             |             |             |             |               |               | 2             | 5             |
| Prince Edward                  |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Simcoe                         |             |             |             |             |             |             |               |               | 4           | 5           |             |             |             |             |               |               | 4             | 5             |
| Toronto                        |             |             |             |             |             |             |               |               | 4           | 14          |             |             |             |             |               |               | 4             | 14            |
| York                           |             |             |             |             |             |             |               |               | 4           | 6           |             |             |             |             |               |               | 4             | 6             |
| <b>Western Ontario</b>         |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               |               |               |
| Bruce                          |             |             |             |             |             |             |               |               |             | 4           |             |             |             |             |               |               | 0             | 4             |
| Dufferin                       |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Grey                           |             |             |             |             |             |             |               |               | 1           | 1           |             |             |             |             |               |               | 1             | 1             |
| Halton                         |             |             |             |             |             |             |               |               | 3           | 3           |             |             |             |             |               |               | 3             | 3             |
| Huron                          |             |             |             |             |             |             |               |               | 1           | 1           |             |             |             |             |               |               | 1             | 1             |
| Perth                          |             |             |             |             |             |             |               |               |             | 3           |             |             |             |             |               |               | 0             | 3             |
| Waterloo                       |             |             |             |             |             |             |               |               | 1           |             |             |             |             |             |               |               | 1             | 0             |
| Wellington                     |             |             |             |             |             |             |               |               | 1           | 2           |             |             |             |             |               |               | 1             | 2             |



| Animal type<br>Year     | Fox<br>2023 | Fox<br>2024 | RAC<br>2023 | RAC<br>2024 | SSK<br>2023 | SSK<br>2024 | Other<br>2023 | Other<br>2024 | Bat<br>2023 | Bat<br>2024 | Dog<br>2023 | Dog<br>2024 | Cat<br>2023 | Cat<br>2024 | LVSTK<br>2023 | LVSTK<br>2024 | Total<br>2023 | Total<br>2024 |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|
| <b>Southern Ontario</b> |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               |               |               |
| Brant                   |             |             |             |             |             |             |               | 1             |             | 3           |             |             |             |             |               |               | 0             | 4             |
| Elgin                   |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Essex                   |             |             |             |             |             |             |               |               | 1           | 6           |             |             |             |             |               |               | 1             | 6             |
| Haldimand               |             |             |             |             |             |             |               |               |             | 2           |             |             |             |             |               |               | 0             | 2             |
| Hamilton                |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Kent                    |             |             |             |             |             |             |               |               | 8           | 5           |             |             |             |             |               |               | 8             | 5             |
| Lambton                 |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Middlesex               |             |             |             |             |             |             |               |               | 4           | 2           |             |             |             |             |               |               | 4             | 2             |
| Niagara                 |             |             |             |             | 6           |             |               |               | 1           | 5           |             |             | 1           |             |               |               | 8             | 5             |
| Norfolk                 |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Oxford                  |             |             |             |             |             |             |               |               | 1           | 1           |             |             |             |             |               |               | 1             | 1             |
| <b>Northern Ontario</b> |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               |               |               |
| Algoma                  |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Cochrane                |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Kenora                  |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Muskoka                 |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Nipissing               |             |             |             |             |             |             |               |               | 1           |             |             |             |             |             |               |               | 1             | 0             |
| Parry Sound             |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Rainy River             |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Sudbury                 |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Thunder Bay             |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| Timiskaming             |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               | 0             | 0             |
| <b>Regional Totals</b>  |             |             |             |             |             |             |               |               |             |             |             |             |             |             |               |               |               |               |
| <b>Eastern</b>          | 0           | 0           | 0           | 0           | 0           | 0           | 0             | 0             | 5           | 10          | 0           | 0           | 0           | 0           | 0             | 0             | 5             | 10            |
| <b>Central</b>          | 0           | 0           | 0           | 0           | 0           | 0           | 0             | 0             | 21          | 42          | 0           | 0           | 0           | 0           | 0             | 0             | 21            | 42            |
| <b>Western</b>          | 0           | 0           | 0           | 0           | 0           | 0           | 0             | 0             | 7           | 14          | 0           | 0           | 0           | 0           | 0             | 0             | 7             | 14            |
| <b>Southern</b>         | 0           | 0           | 0           | 0           | 6           | 0           | 0             | 1             | 15          | 24          | 0           | 0           | 1           | 0           | 0             | 0             | 22            | 25            |
| <b>Northern</b>         | 0           | 0           | 0           | 0           | 0           | 0           | 0             | 0             | 1           | 0           | 0           | 0           | 0           | 0           | 0             | 0             | 1             | 0             |
| <b>Totals</b>           | 0           | 0           | 0           | 0           | 6           | 0           | 0             | 1             | 49          | 90          | 0           | 0           | 1           | 0           | 0             | 0             | 56            | 91            |

#### Acronym Legend

RAC: raccoon

SSK: striped skunk

Other: other species

LVSTK: livestock