### SELECTED disease counts

#### AVIAN INFLUENZA VIRUS - DEAD BIRD SURVEILLANCE
- 66 specimens tested:
  - 0 Matrix Positive
  - 0 H5 Positive
  - 0 H7 Positive
- No dead birds tested positive for AIV.

#### AVIAN INFLUENZA VIRUS - LIVE BIRD SURVEILLANCE
- 394 specimens tested:
  - 83 Matrix Positive
  - 0 H5 Positive
  - 0 H7 Positive
- 83 live bird samples tested positive, 40 inconclusive on matrix testing. No birds tested positive for H5 or H7.

#### WEST NILE VIRUS
- 40 specimens tested:
  - 8 positive
- 4 American Crows and 4 Red-tailed Hawks tested positive for West Nile Virus by PCR.

#### BOTULISM
- 13 specimens tested:
  - 3 positive
- 3 birds (2 x Ring-billed Gull, 1 x Double-crested Cormorant) tested positive for botulism Type E. (4 pending results)

#### SNAKE FUNGAL DISEASE
- 26 specimens tested:
  - 1 Positive (Histology & PCR)
  - 7 PCR Positive Only
- While 8 were PCR positive for the fungus, only 1 snake (Queensnake) was positive for the disease by both PCR and Histology.

#### CANINE DISTEMPER VIRUS
- 5 specimens tested:
  - 2 positive
- 2 Raccoons tested positive for Canine Distemper Virus. (Totals do not include special project cases)

#### PARVOVIRUS
- 2 specimens tested:
  - 0 positive
- No animals tested positive for Parvovirus. (Totals do not include special project cases)

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**NOTE:** Animals reported represent the data currently available in the CWHC database and should be considered preliminary. These data do not include all diagnostic testing for the selected pathogens carried out in Ontario. Additional testing is performed by other agencies and organizations.

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**CAUSE of death (excluding 150 special project cases)**

- **Emaciation:**
  - Mammals: 5
  - Birds: 3
  - Amphibians/Reptiles: 2

- **Infectious/Inflammatory:**
  - Mammals: 24
  - Birds: 25
  - Amphibians/Reptiles: 2

- **Poisoning/Toxicity:**
  - Mammals: 12
  - Birds: 10
  - Amphibians/Reptiles: 1

- **Trauma:**
  - Mammals: 8
  - Birds: 8
  - Amphibians/Reptiles: 3

- **Other:**
  - Mammals: 3
  - Birds: 3
  - Amphibians/Reptiles: 2

- **Unknown/No Diagnosis:**
  - Mammals: 2
  - Birds: 1
  - Amphibians/Reptiles: 2

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**SPECIMEN submission summary**

- **273 Specimens Submitted**
- **150/273 for Special Projects**
- **228 Calls to CWHC Wildlife Hotline**

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**CAUSATION of death**

- **Mammals**
  - Emaciation: 5
  - Infectious/Inflammatory: 24
  - Poisoning/Toxicity: 12
  - Trauma: 8
  - Other: 3
  - Unknown/No Diagnosis: 2

- **Birds**
  - Emaciation: 3
  - Infectious/Inflammatory: 25
  - Poisoning/Toxicity: 10
  - Trauma: 8
  - Other: 3
  - Unknown/No Diagnosis: 1

- **Amphibians/Reptiles**
  - Emaciation: 2
  - Infectious/Inflammatory: 2
  - Poisoning/Toxicity: 1
  - Trauma: 3
  - Other: 2
  - Unknown/No Diagnosis: 2

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**CAUSATION of death by Cause**

- **Emaciation:**
  - Mammals: 5
  - Birds: 3
  - Amphibians/Reptiles: 2

- **Infectious/Inflammatory:**
  - Mammals: 24
  - Birds: 25
  - Amphibians/Reptiles: 2

- **Poisoning/Toxicity:**
  - Mammals: 12
  - Birds: 10
  - Amphibians/Reptiles: 1

- **Trauma:**
  - Mammals: 8
  - Birds: 8
  - Amphibians/Reptiles: 3

- **Other:**
  - Mammals: 3
  - Birds: 3
  - Amphibians/Reptiles: 2

- **Unknown/No Diagnosis:**
  - Mammals: 2
  - Birds: 1
  - Amphibians/Reptiles: 2
ANOTHER SUCCESSFUL YEAR of the OVC Student Wildlife Rotation

The Ontario/Nunavut Region was excited to welcome this year’s Ontario Veterinary College (OVC) Wildlife Rotation students as part of their fourth year program. Diana Shum and Chanel Schwartzentruber participated in a number of wildlife research activities, including tick dragging, goose fecal collection for bacterial analysis, and even small animal trapping for sample collection.

You can read more about their rotation and experiences on CWHC’s “Healthy Wildlife” blog:

1) What Are You Really Stepping In?
2) Raccoons: What Are They Really Hiding Behind That Mask?
3) Groundhogs, Squirrels and Skunks, Oh My!
4) Ghostbusters? No – Tickbusters!
5) Living With Wildlife

NEW GRADUATE STUDENTS associated with the CWHC

Shannon French DVM – Dr. Shannon French is a veterinarian who graduated from the Ontario Veterinary College and is now working with Dr. Claire Jardine and Dr. David Pearl examining risk factors relating to Baylisascaris procyonis infection in raccoons. Raccoons are the primary host of the raccoon roundworm, which is a parasite that can cause neurologic disease when it infects people and other animals. We have been monitoring the prevalence of this parasite over the past four years in order to better understand factors that influence the presence and spread of the parasite. We hope to use this information as well as identification of any hot spots to help guide public health efforts and public education.

Samantha Allen DVM, MSc - Dr. Samantha Allen joins Dr. Nicole Nemeth to perform a risk assessment for the incursion and establishment of livestock and wildlife orbiviruses (e.g., epizootic hemorrhagic disease and bluetongue viruses) in southern Ontario. This will entail serosurveillance in free-ranging white-tailed deer (and livestock) and characterization of current vector composition and distribution throughout high-risk areas. The methods and concepts developed by this project will also be broadly applicable to studying the epidemiology of vector-borne diseases in Canada, which is at-risk for the incursion of causative pathogens, their vectors and hosts as they expand northward into favourable warming climates.