



Inter-agency Wild Bird Avian Influenza Survey Update

A report of samples collected and tested as of October 3, 2022.

PLEASE NOTE: The data displayed in the following report are the most recent AIV **PRELIMINARY** test results provided to the CWHC by participating program partners unless otherwise stated. All survey numbers are displayed for the current calendar year.

DEAD BIRD SURVEY 2022

Number of birds tested and number matrix PCR positive* since January 1, 2022

| Region | Sept 19-Oct 3, 2022 | | Year to Date | | | | |
|-------------------------|---------------------|------------------|--------------|------------------|--------------|--------------|------------|
| | Tested | Matrix Positive* | Tested | Matrix Positive* | H5 Positive* | H7 Positive* | HPAI** |
| British Columbia | 0 | 0 | 164 | 34 | 34 | 0 | 21 |
| Alberta | 33 | 18 | 612 | 239 | 228 | 0 | 134 |
| Saskatchewan | 23 | 8 | 740 | 226 | 167 | 0 | 169 |
| Manitoba | 0 | 0 | 87 | 66 | 62 | 0 | 64 |
| Ontario | 27 | 11 | 794 | 147 | 144 | 0 | 68 |
| Quebec | 8 | 1 | 689 | 241 | 239 | 0 | 160 |
| New Brunswick | 0 | 0 | 341 | 82 | 82 | 0 | 64 |
| Nova Scotia | 0 | 0 | 780 | 87 | 77 | 0 | 75 |
| Prince Edward Island | 0 | 0 | 270 | 73 | 73 | 0 | 54 |
| Newfoundland & Labrador | 0 | 0 | 212 | 87 | 87 | 0 | 78 |
| Yukon Territory | 0 | 0 | 55 | 6 | 6 | 0 | 5 |
| Northwest Territories | 0 | 0 | 58 | 1 | 1 | 0 | 1 |
| Nunavut | 1 | 0 | 23 | 2 | 2 | 0 | 2 |
| Total | 92 | 38 | 4825 | 1291 | 1202 | 0 | 895 |

* Matrix positive includes all birds that tested 'not negative' by PCR for one or more Influenza A viruses. The number of positive test results included both those birds that tested POSITIVE (Ct value less than 36) and those that had an INCONCLUSIVE test result (Ct value greater than or equal to 36).

**The CFIA has confirmed the presence of High Pathogenic Avian Influenza (HPAI), subtype H5N1.

Any samples found to be matrix POSITIVE or INCONCLUSIVE are then tested by PCR for H5 and H7 strains at the regional level. Any samples that are then found to be either H5 or H7 POSITIVE or INCONCLUSIVE are immediately sent to the NCFAD for confirmation and identification. Authorities from the province or region where the bird was sampled will be notified when preliminary H5 or H7 positive results are found at the regional lab. When the CFIA confirms and identifies the virus, authorities from across the country will be notified. This update reports all POSITIVE or INCONCLUSIVE **PRELIMINARY** matrix results unless otherwise stated.



LIVE BIRD SURVEY 2022

Number of live birds tested and number matrix, H5 and H7 PCR positive* since January 1, 2022

| | Tested | Matrix Positive* | H5 Positive* | H7 Positive* | HPAI** |
|-------------------------|---------------|-------------------------|---------------------|---------------------|---------------|
| British Columbia | 325 | 64 | 40 | 1 | 0 |
| Alberta | 0 | 0 | 0 | 0 | 0 |
| Saskatchewan | 20 | 0 | 0 | 0 | 0 |
| Manitoba | 0 | 0 | 0 | 0 | 0 |
| Ontario | 1098 | 137 | 64 | 1 | 0 |
| Quebec | 915 | 82 | 5 | 0 | 0 |
| New Brunswick | 337 | 54 | 0 | 4 | 0 |
| Nova Scotia | 185 | 63 | 70 | 0 | 29 |
| Prince Edward Island | 0 | 0 | 0 | 0 | 0 |
| Newfoundland & Labrador | 68 | 10 | 9 | 0 | 3 |
| Yukon Territory | 0 | 0 | 0 | 0 | 0 |
| Northwest Territories | 309 | 0 | 0 | 0 | 0 |
| Nunavut | 280 | 18 | 1 | 0 | 1 |
| Total | 3537 | 428 | 189 | 6 | 33 |

* Matrix positive includes all birds that tested 'not negative' by PCR for one or more Influenza A viruses. The number of positive test results included both those birds that tested POSITIVE (Ct value less than 36) and those that had an INCONCLUSIVE test result (Ct value greater than or equal to 36).

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This information as well as historical data are available on the CWHC AIV portal at: http://www.cwhc-rcsf.ca/avian_influenza_testing_results.php



GLOSSARY OF TERMS

Tested - The number of birds that were screened for avian influenza virus by real time reverse transcriptase PCR (RRT-PCR) for the M1 gene.

Matrix positive - The number of birds that tested positive for the M1 gene by RT-PCR.

H5 positive - The number of birds that tested positive for the H5 virus subtype by RT-PCR.

H7 positive - The number of birds that tested positive for the H7 virus subtype by RT-PCR.

HPAI - Confirmed at the CFIA NCFAD laboratory to be positive for highly pathogenic avian influenza through virus isolation or sequencing.

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