



Inter-agency Wild Bird Avian Influenza Survey Update

A report of samples collected and tested as of December 31, 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	Dec 14-31, 2022		Year to Date				
	Tested	Matrix Positive*	Tested	Matrix Positive*	H5 Positive*	H7 Positive*	HPAI**
British Columbia	0	0	164	34	34	0	46
Alberta	0	0	759	283	272	0	169
Saskatchewan	4	1	804	257	208	0	186
Manitoba	0	0	89	66	62	0	72
Ontario	19	9	1088	211	206	0	106
Quebec	13	6	953	343	341	0	253
New Brunswick	1	1	347	84	84	0	67
Nova Scotia	5	1	863	88	78	0	87
Prince Edward Island	6	2	274	76	76	0	57
Newfoundland & Labrador	2	0	227	92	89	0	92
Yukon Territory	0	0	56	6	6	0	5
Northwest Territories	0	0	68	3	2	0	1
Nunavut	0	0	31	2	2	0	2
Total	50	20	5723	1545	1460	0	1143

* 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	698	64	44	3	0
Alberta	239	17	3	0	0
Saskatchewan	1481	298	129	2	0
Manitoba	624	120	14	5	0
Ontario	1120	88	52	3	0
Quebec	557	114	5	3	0
New Brunswick	355	66	10	4	0
Nova Scotia	250	83	128	0	0
Prince Edward Island	0	0	0	0	0
Newfoundland & Labrador	68	10	9	0	3
Yukon Territory	0	0	0	0	0
Northwest Territories	325	0	0	0	0
Nunavut	280	18	1	0	0
Total	5997	878	395	20	3

* 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-rscf.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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