



Community for Emerging and Zoonotic Diseases
Identifying emerging risks through collective intelligence

CFIA One Health HPAI Meeting
24 February 2022

www.cezd.ca

Domestic Detections

USDA list of Affected Commercial and Backyard Flocks

Kalamazoo Michigan	2/24/2022	Backyard Flock
Greene County Indiana*	2/23/2022	Commercial Turkeys
Green County Indiana*	2/23/2022	Commercial Turkeys
New Castle County, Delaware	2/22/2022	Commercial Poultry
Suffolk County, NY	2/19/2022	Backyard Pet Chickens
Knox County, Maine	2/19/2022	Backyard Mixed Species Birds
Dubois County, Indiana*	2/23/2022	Commercial Turkeys
Dubois County, Indiana	2/16/2022	Commercial Turkeys
Dubois County, Indiana	2/8/2022	Commercial Turkeys
Webster County, Kentucky	2/15/2022	Commercial Turkeys
Fauquier County, Virginia	2/12/2022	Backyard Mixed Species Birds (non-poultry)
Fulton County, Kentucky	2/12/2022	Commercial Broiler Chickens

Canadian Domestic Detections

Western Nova Scotia	02/11/2022	Backyard Flock
Western Nova Scotia	02/03/2022	Commercial Flock
Eastern Nova Scotia	02/01/2022	Backyard Flock
Newfoundland and Labrador	01/09/2022	Backyard Flock
Newfoundland and Labrador	12/20/2021	Mixed Exhibition Flock

*indicates USDA confirmation is pending

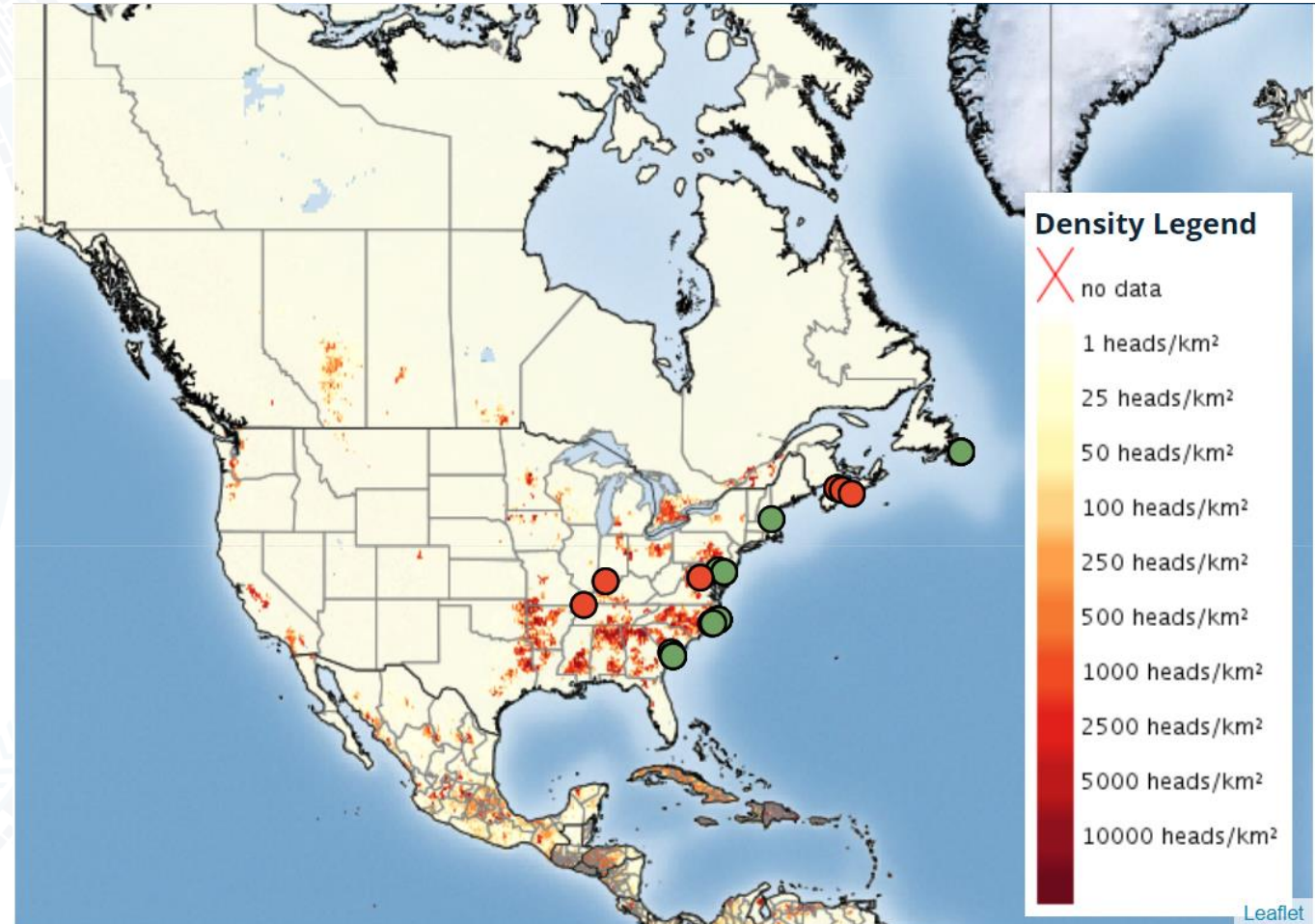
Wild Bird H5N1 Avian Influenza

- Canadian Wild Bird Information

- Nova Scotia (dead bird survey)
- Newfoundland and Labrador (dead and live surveys)
- New Brunswick (dead bird survey)

- US Wild Bird Information

- **North Carolina (Hunter harvest)**
- South Carolina (Hunter harvest)
- Florida (Hunter harvest)
- **New Hampshire (live bird)**
- Delaware (Hunter Harvest)
- Maryland (live bird)
- **Connecticut (live bird)**
- **Virginia Beach (Hunter Harvest)**
- **Georgia (Hunter Harvest)**

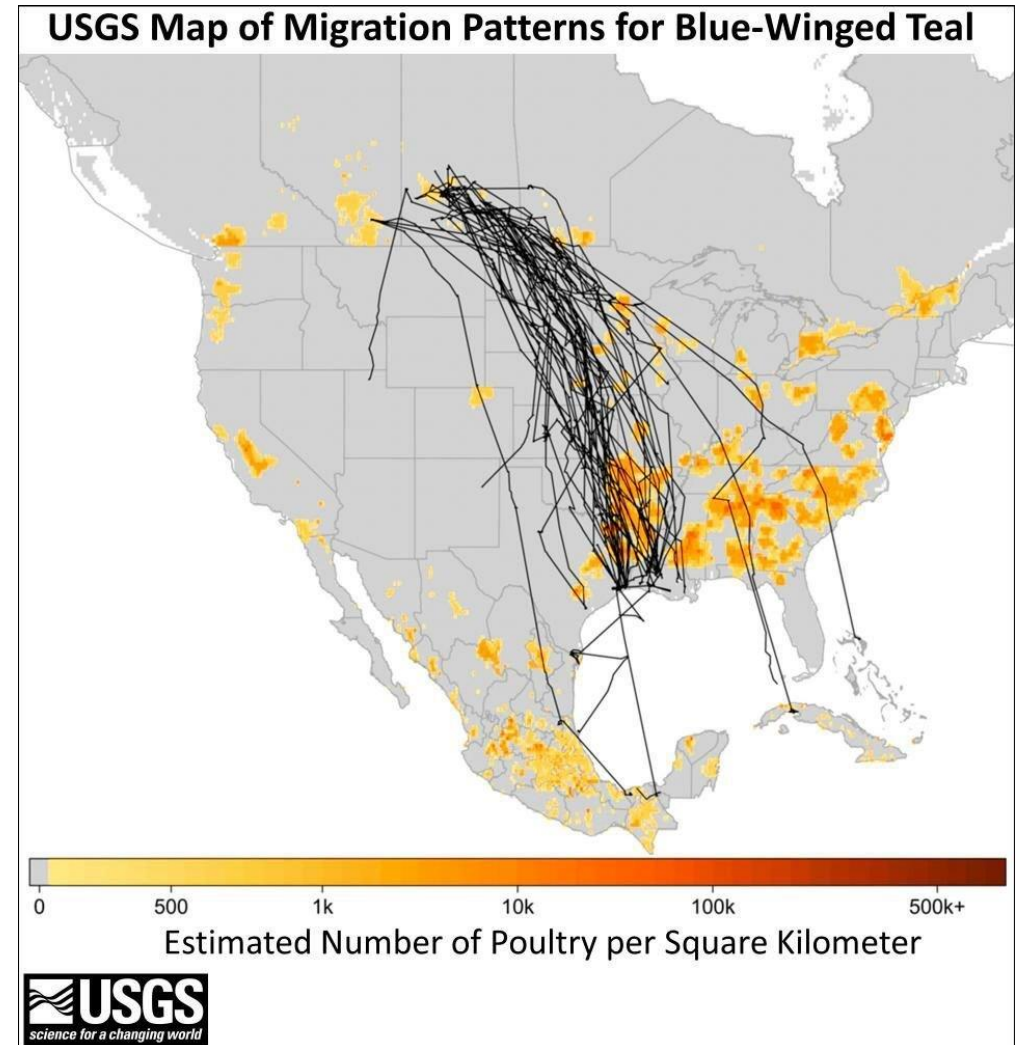


International Detections of Concern

Ireland	WAHIS	In Ireland,HPAI H5N1 was detected in a barnacle goose and a red fox in Benduff
Denmark and Germany	Avian Flu Diary	Denmark has reported HPAI H5N8 in a harbour seal found dead on a beach in Southwest Funen in September 2021 Germany
Portugal	Then24	15 Commercial outbreaks
South Korea	Yonhap News Agency	South Korea reported another case of highly pathogenic avian influenza (AI) at a duck farm on Sunday, bringing the total number of cases to 33 this winter season.
Ongoing reports of infections across Europe, Asia and Africa, see CEZD weekly intelligence report for more information		

USGS Study on Dabbling Ducks as HPAI reservoirs

- Blue-winged teal are one of 11 dabbling duck species that regularly breed in North America
- Dabbling ducks are the primary waterfowl species known to carry and shed avian influenza viruses in the United States



Intercontinental movement of H5 2.3.4.4 Highly Pathogenic Avian Influenza A(H5N1) to the United States, 2021 (biorxiv.org)

- HPAI detections in wild birds in US 139 Jan 1 – Feb 14 2022
- Bird banding data (1960-2021)
- Focus on birds banded or encountered in the Carolinas.
 - 65% recovered in Atlantic flyway
 - 34% Atlantic and Mississippi
 - 2% Atlantic and Central

Figure 2

