

HPAI Updates for Zoos and Wildlife Professionals

USDA VS Response March 17, 2022

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Avian Influenza Virus Department of

Orthomyxovirus

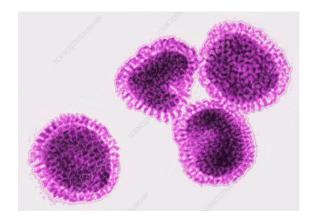
- Influenza A type found in birds
- RNA

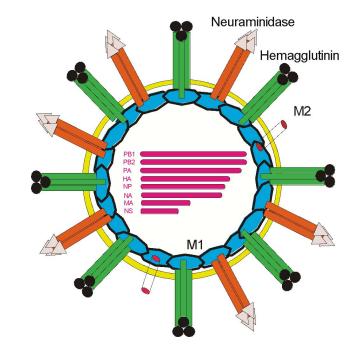
USD/

United States

Agriculture

- Major surface proteins
 - Hemagglutinin (H1-H16)
 - Neuraminidase (N1-N9)
 - 144 combinations
- Virulence is variable
 - Low Pathogenic LPAI
 - Highly Pathogenic HPAI



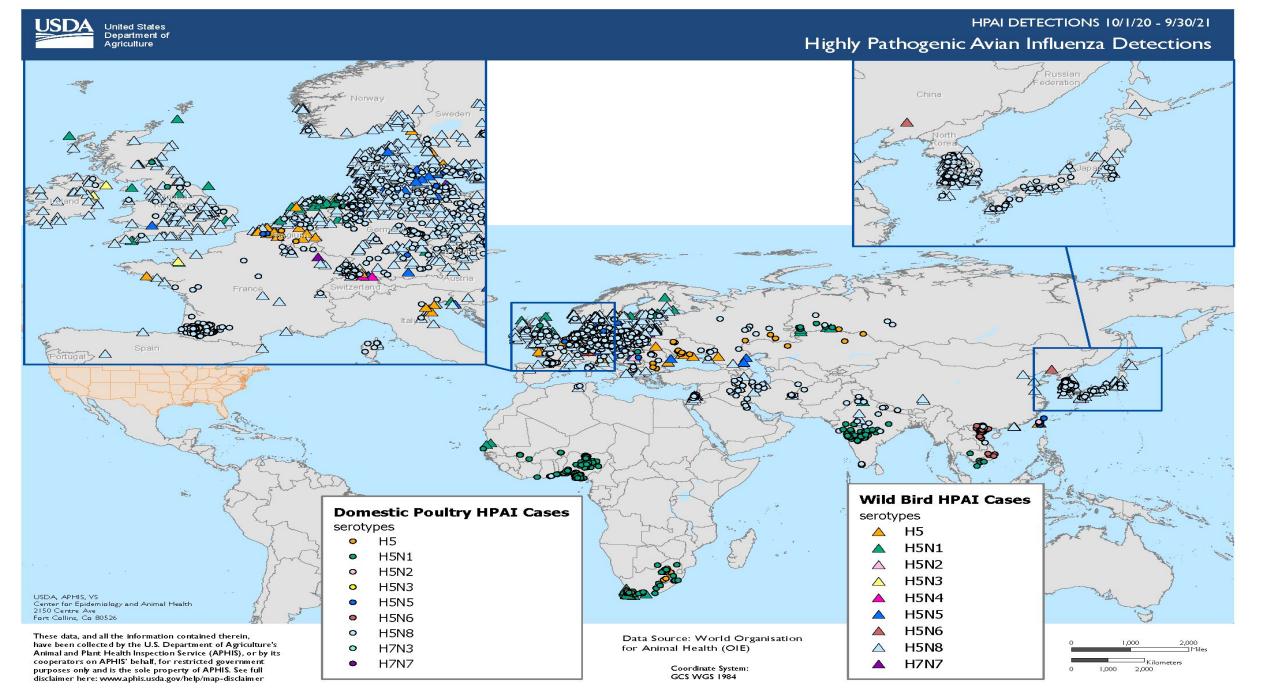




HPAI US Outbreak Dec 2014 - June 2015

- 211 detections on commercial operations and 21 detections on backyard premises
- Approximately 7.4 million turkeys and 43 million egg-layers and pullet chickens were affected by HPAI and died from the disease or were depopulated
- This outbreak was the largest HPAI outbreak ever recorded in the United States and arguably the most significant animal health event in U.S. history
- HPAI was detected in 21 States (including wild birds)



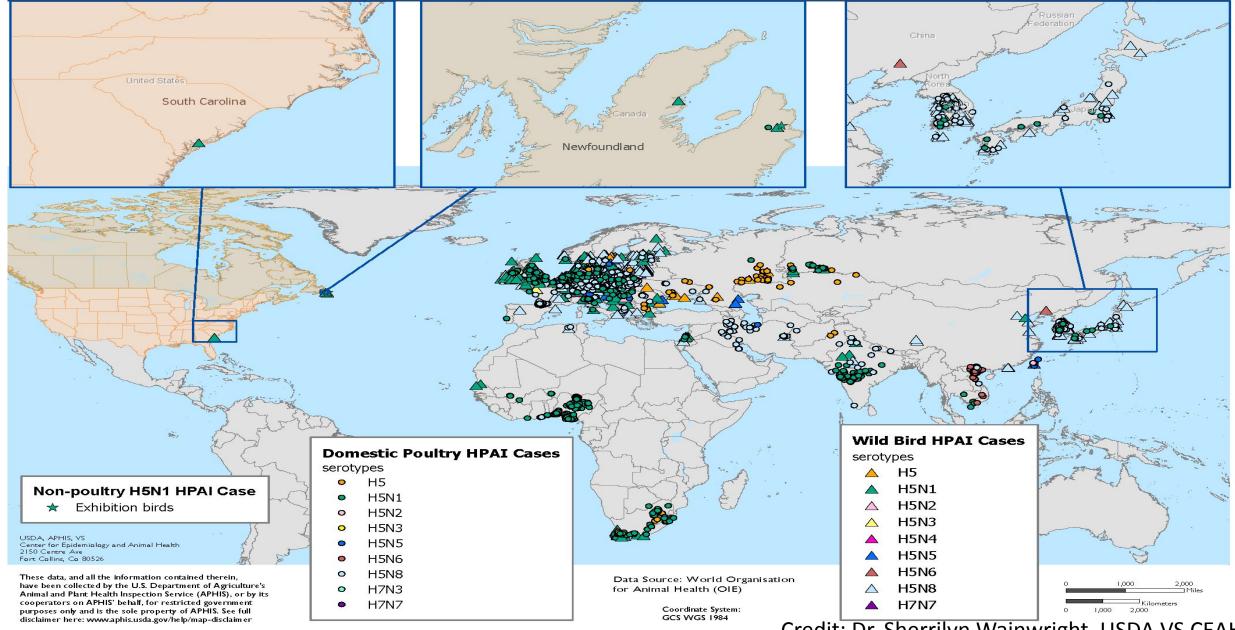


Credit: Dr. Sherrilyn Wainwright, USDA VS CEAH

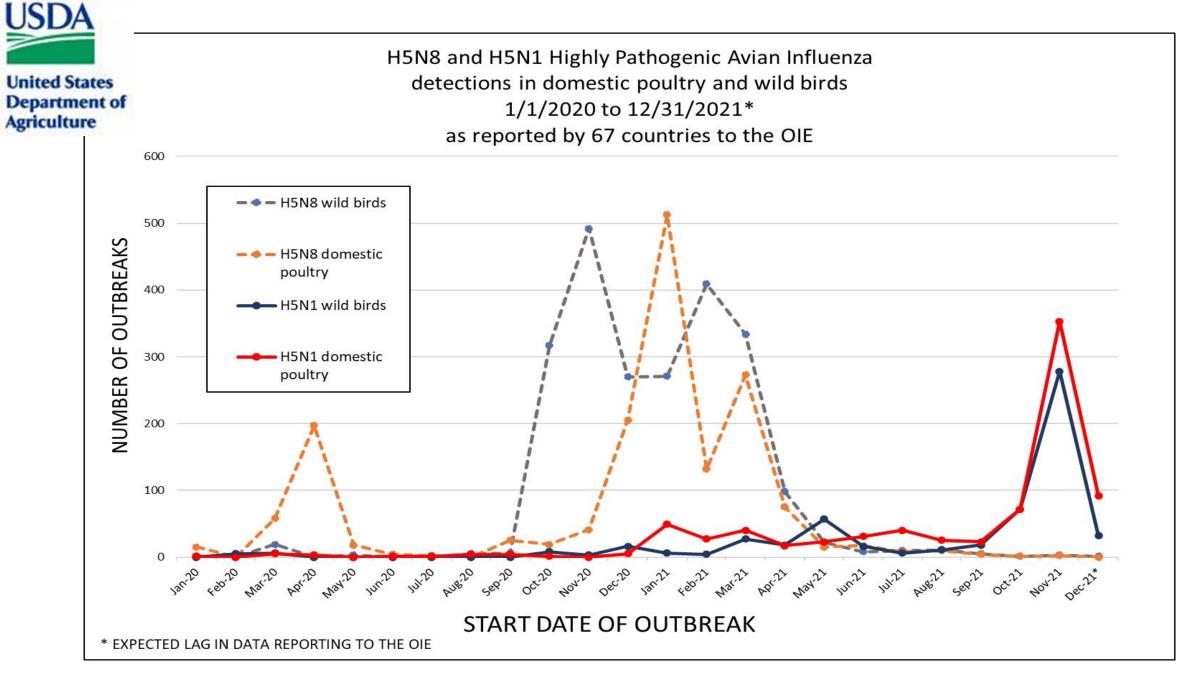
HPAI DETECTIONS 1/1/21 - 1/14/22

United States Department of Agriculture

Highly Pathogenic Avian Influenza Detections



Credit: Dr. Sherrilyn Wainwright, USDA VS CEAH



Credit: Dr. Sherrilyn Wainwright, USDA VS CEAH

Highly Pathogenic Avian Influenza





- Direct contact (droppings, bodily discharges, feathers, infected birds)
- Indirect contact (hands, shoes, clothes, equipment)



- Depressed
- Decreased feed and water intake
- Runny nose and eyes, swollen head



- Can affect the entire flock
- Death rate up to 100%

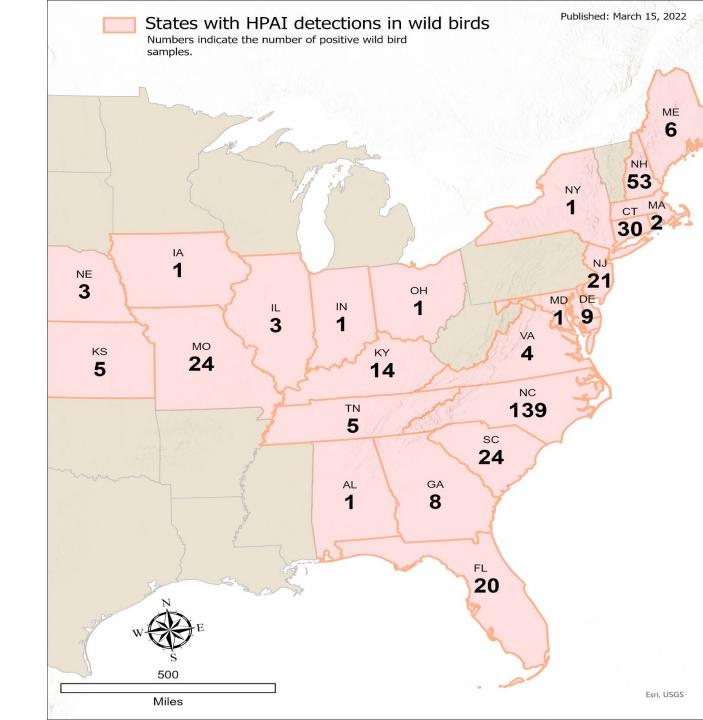
www.aphis.usda.gov/animalhealth/defendtheflock Captions: www.bit.lv/Webinar_Spring2022



None

2022 US Wild Bird Detections (376)

USDA APHIS | 2022 Detections of Highly Pathogenic Avian Influenza in Wild Birds



OVERVIEW OF THE U.S. NATIONAL SITUATION

Total # of Confirmed Premises Poultry **OIE Non-Poultry Grand Total** State Connecticut 1 1 2 2 Delaware Illinois 1 1 Indiana 6 6 2 3 1 lowa 1 1 Kansas 2 2 Kentucky Maine 3 3 Maryland 3 3 Michigan 1 1 3 Missouri 1 4 New York 3 3 South 2 2 Dakota Virginia 1 1 Wisconsin 1 1 22 12 34 Grand Total



Map last updated on 3/14/2022

USDA APHIS | 2022 Confirmations of Highly Pathogenic Avian Influenza in Commercial and Backyard Flocks



HPAI Response Process

Detect

You see sigusuaf illness sudden deaths indur flock. You painteport it to your private veterinarian or a State or USDA veterinarian. Samples are taken and tested. You find out your flock is positive for HPAI.

Quarantine

USDA and State personnel acene to your farm. Mesign you a case whan addebe your main of contact onsite, answer your questions, and guide you through the needed paperwork. We will also place your operation under guarantine, meaning only authorized workers are allowed in and out, and movement restrictions for poultry, calculators. poultry products, and equipment go into effect. We contact neighboring poultry farms and start

Appraise Depopulate

We work with you to create a flooded ntory. This lists how many birds you have, what species they are, their

key details.

Infected flocks depopulated as aspoicks/ble-ideally

first HPAI detectionto get rid of the age, and other virus.

USDA will compensate for birds that must be destroyed using species-specific

Compensate Affected producers

andwers must certify thatosecurity plan within 24 hours of the in plawas prior to an HPAI detection. Split

payments can be provided between the owner and contract grower. You receive your first indemnity payment early on in the response process. We also pay you a standard amount for virus elimination activities (cleanup work).

Manage Dispos

safesv. Disposal

Viru DA will help

The next step is dispose of the dead twipe out all traces the virus at inelthodelscomposting. pooperty. To kill the burial, incineration, virus, thoroughly rendering, or landfilling. clean and disinfect The options you'll have the barn, equipment, and all affected depend on several things: what type of areas of your farm. farm you have, the You can do this specific conditions work yourself or there. State and local hire contractors to laws, and what you handle it.

Once USDA and As soon as State both weative let vase manager apprcave.restock koowe finished with favoities and start cleanup. Your site production again. State officials will must then stay empty for at least 21 release your farm days. During this from quarantine time, we'll return to after all required collect and test testing and waiting environmental periods are done. samples. We need to confirm that your property is completely

virus-free.

Eliminate Test Restock

Maintain **Biosecurit**

Miter restocking. mee'd to ovarititatie ing the bigbesturity standards to keep the virus from coming back. For biosecurity tips, go to www.aphis.usda.gov/publications and download the factsheet "Prevent Avian Influenza at Your Farm."

Questions?

prefer.

Talk with your case manager or the State or Federal officials responding to the disease event in your area.

For general information and contacts, visit: www.usda.gov/avian influenza.htm I www.aphis.usda.gov/fadprep www.aphis.usda.gov/animalhealth/ defendtheflock

How Long Does the Process Take?

testing their birds to see if they've been affected,

too.

Ideally, this entire process could be completed in as soon as 60-120 days. However, the timeframe varies depending on many things (for example, flock size, depopulation and disposal methods used, test results, farm's location).

We're committed to restoring production as fast as we can while also protecting poultry health.

USDA is an equal opportunity provider and employer.

Animal and Plant Health Inspection Service • APHIS 91-85-005 • Issued March 2017



Protect Your Flock from Wild Birds



Wild birds are the source of infection in this year's outbreak so far.

- Confine birds to covered houses or runs
- Keep birds away from ponds and other outdoor open water sources
- Feathers, nests, feces, and other organic materials can carry disease. Look around the poultry enclosure for wild bird droppings and remove promptly

www.aphis.usda.gov/animalhealth/defendtheflock Captions: www.bit.ly/Webinar_Spring2022



Report Sick Birds



Report sick birds or unusual deaths immediately to:

State Veterinarian

- Cooperative Extension
- USDA1-866-536-7593

www.aphis.usda.gov/animalhealth/defendtheflock Captions: www.bit.ly/Webinar Spring2022



Defend the Flock Resources



Animal and Plant Health Inspection Service

www.aphis.usda.gov/animalhealth/defendtheflock Captions: www.bit.ly/Webinar Spring2022









More Tools To Protect Your Flocks



www.aphis.usda.gov/animalhealth/defendtheflock *Captions:* www.bit.ly/Webinar Spring2022 Stay



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www.aphis.usda.gov/animalhealth/defendtheflock

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