

Avian Influenza outbreak in the US 2014-5



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Objectives

- Summary of recent outbreak
- High Pathogenicity versus Low Pathogenicity
- Disease control measures
- Future outbreak expectations
- Arizona poultry producer preparedness



Avian Influenza outbreak in the US 2014-5

“Today, we are facing the largest animal health emergency in this country’s history.”

Dr. John Clifford, USDA Chief Veterinarian

In testimony before the Senate Homeland Security
and Governmental Affairs Committee Hearing on

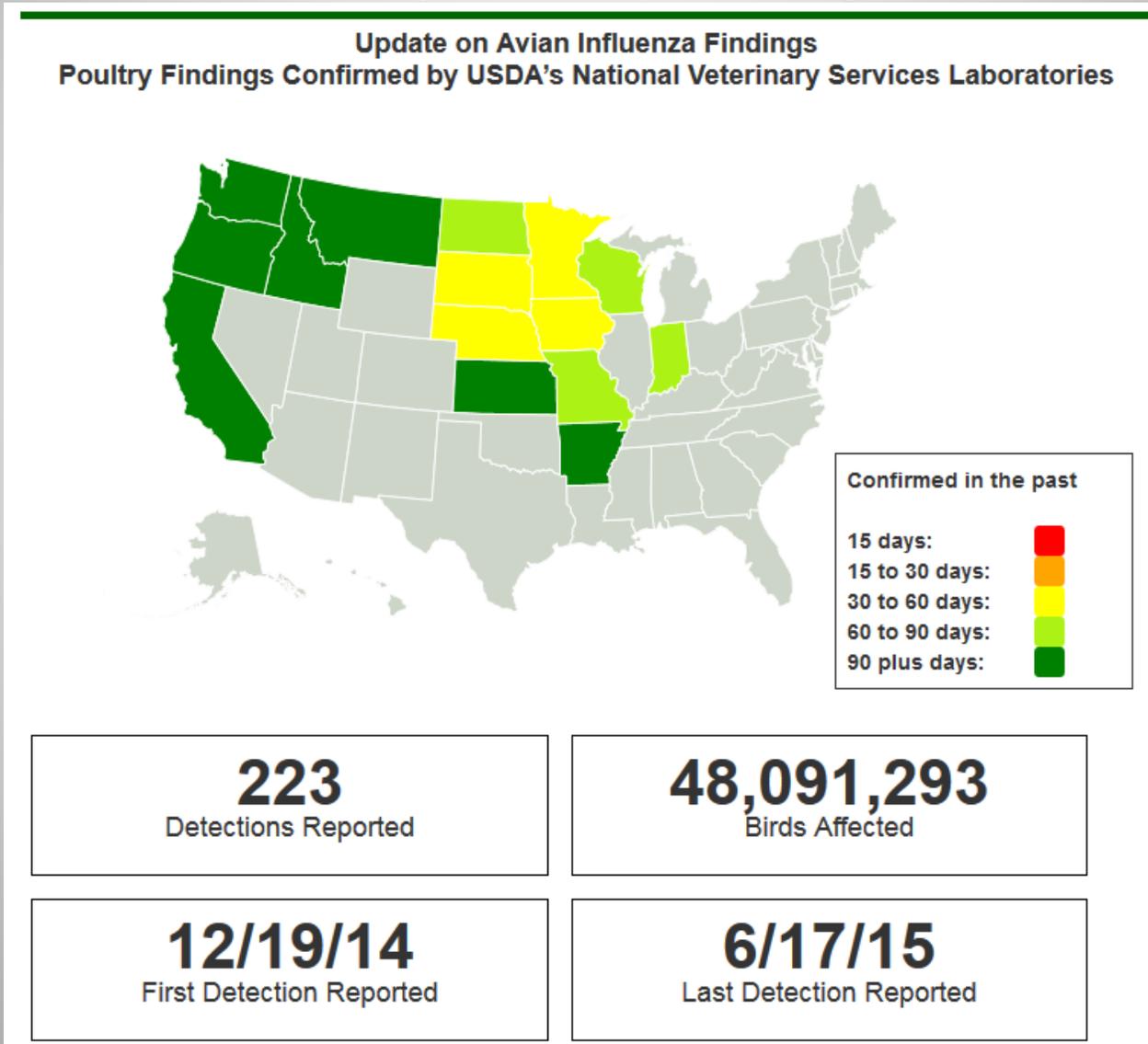
Stopping an Avian Influenza Threat to Animal and Public Health

July 8, 2015



Summary of outbreak

Courtesy of www.aphis.usda.gov





Healthy turkeys





Just 2 hours later



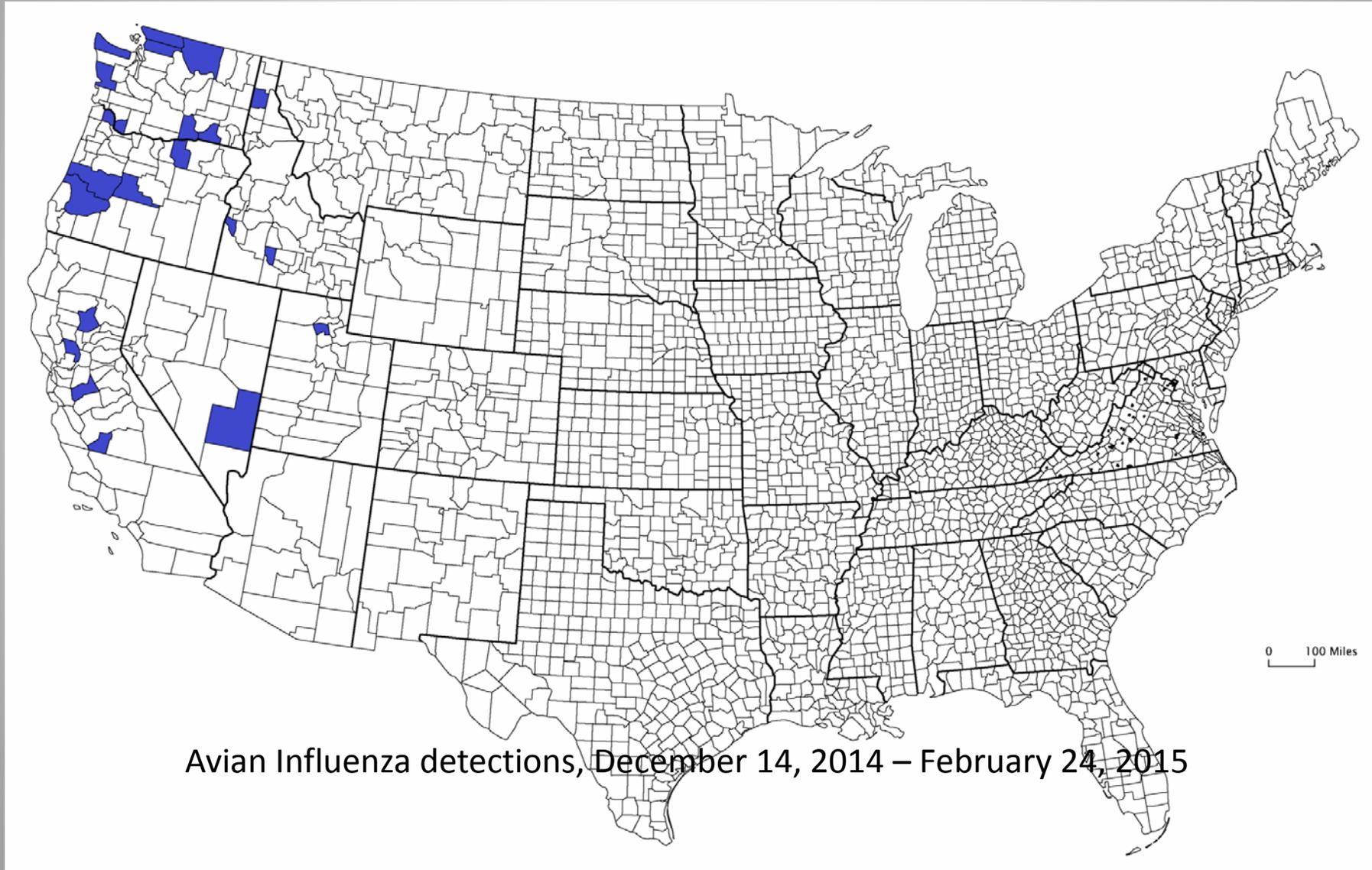


Severe mortality due to HPAI





West coast outbreak



Avian Influenza detections, December 14, 2014 – February 24, 2015



Migratory waterfowl



Northern Pintail



Mallard



Northern Shoveler



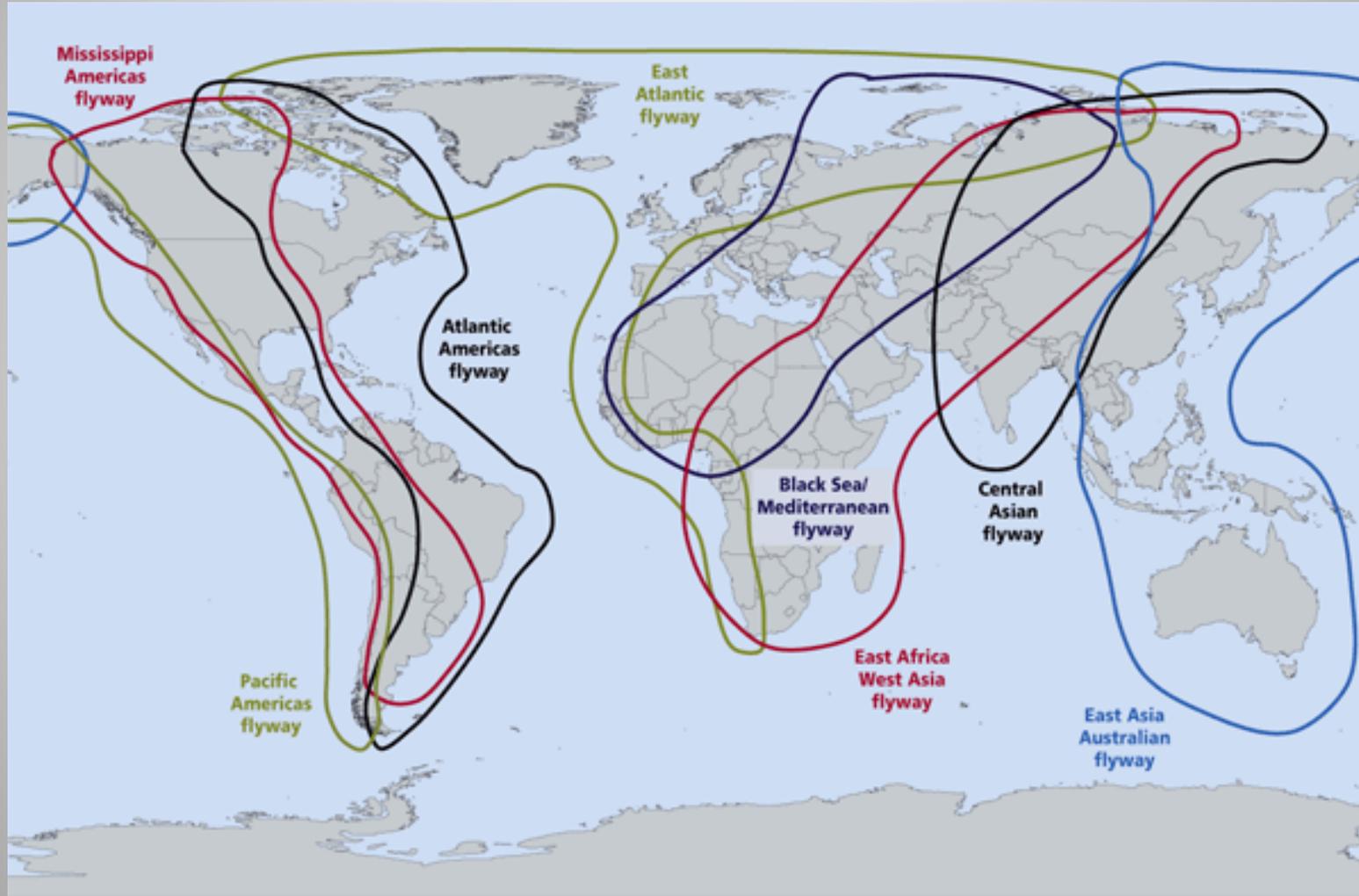
Canada Goose

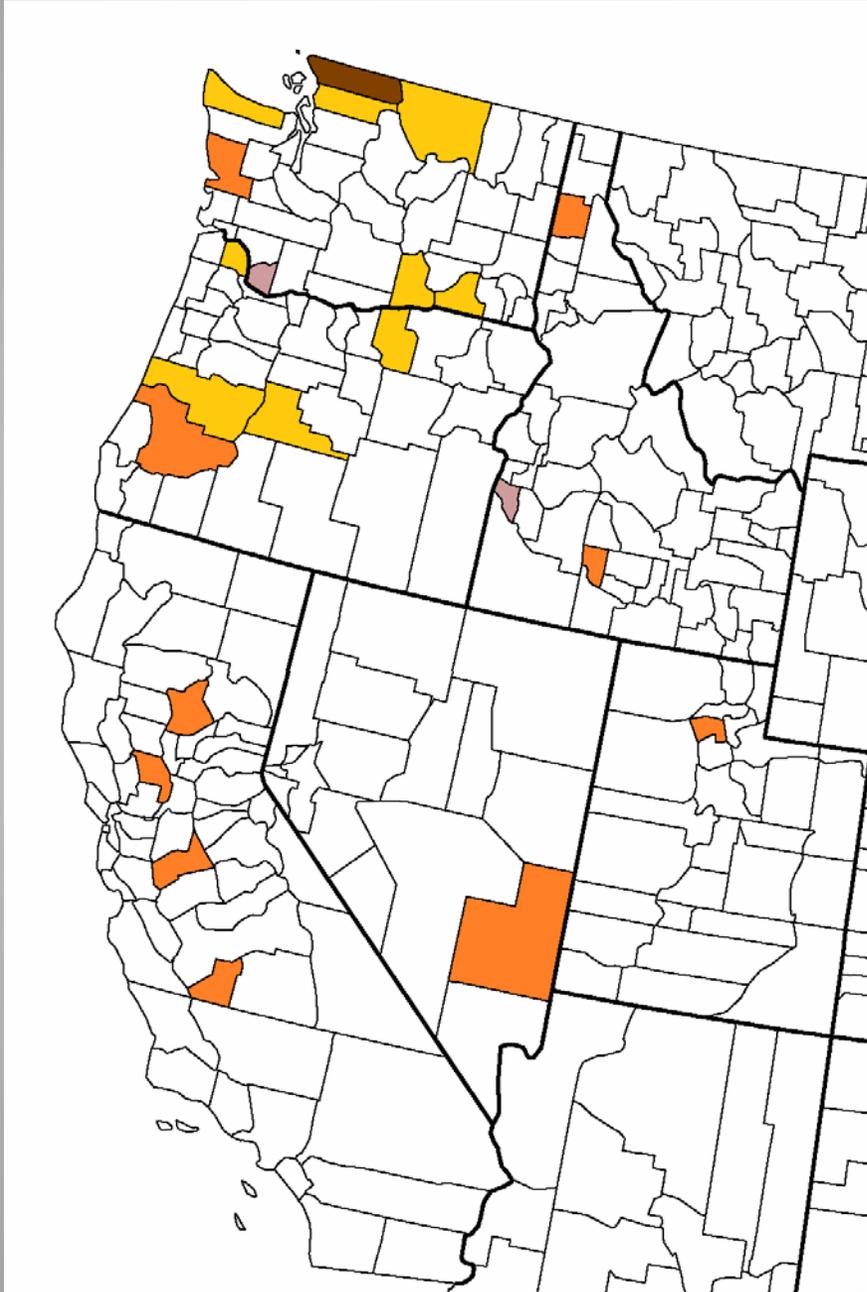


American Wigeon



Migratory flyway map





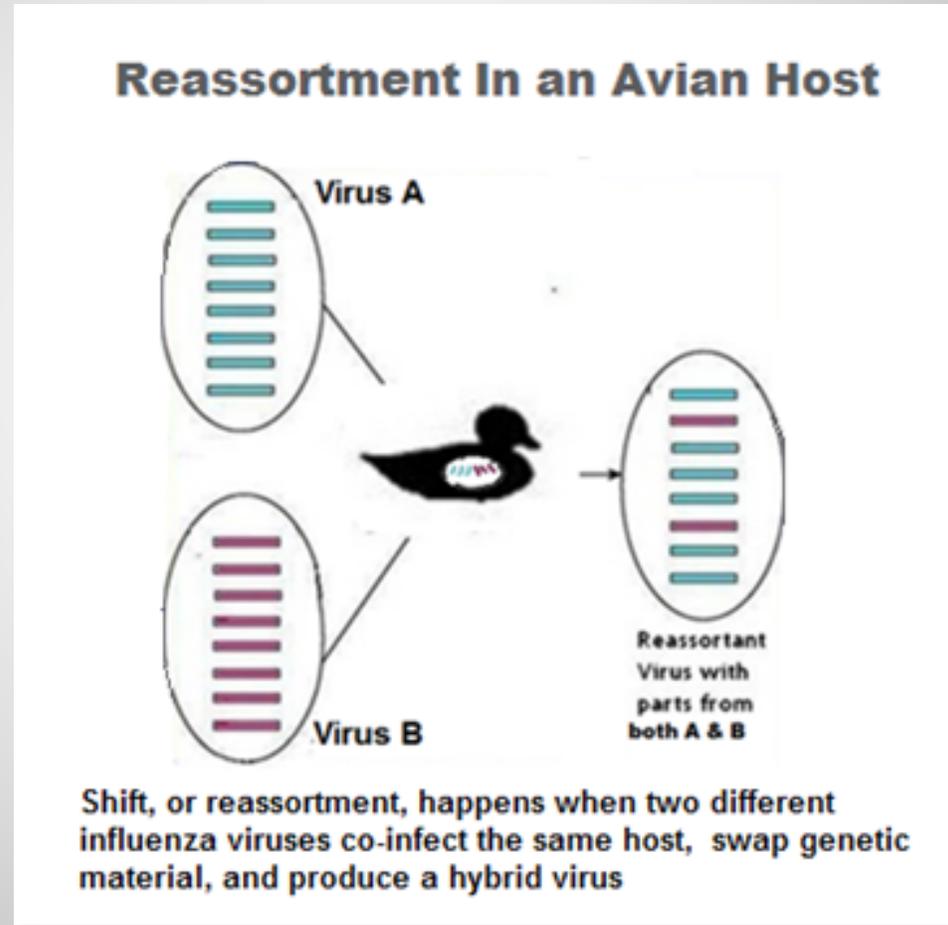
West Coast outbreak

-  H5N8
-  H5N2
-  H5N8 & H5N2
-  H5N8, H5N2 & H5N1



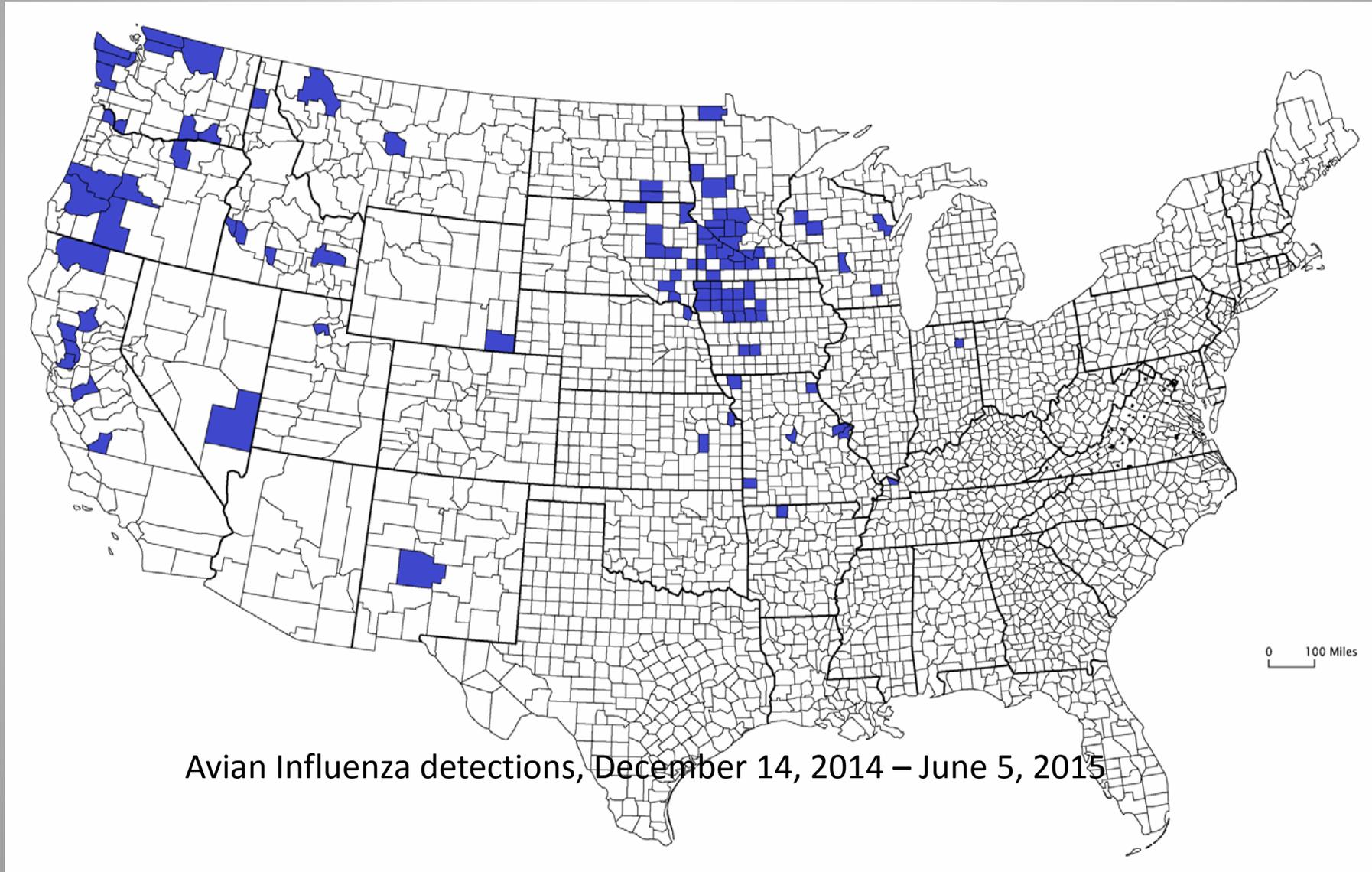
Reassortment

Eurasian H5 HPAI with North American LPAI N2



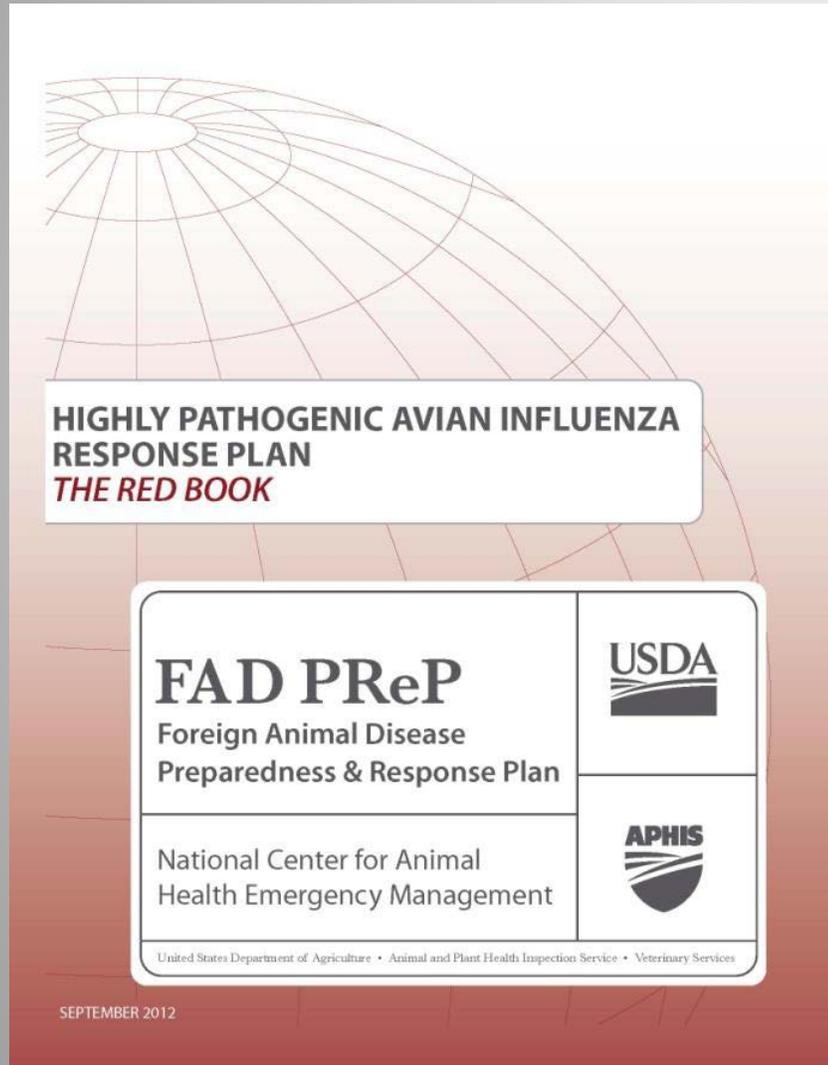


Midwest outbreak





Response Measures



- Reportable
- Quarantine and movement controls
- Depopulation and carcass disposal
- Epidemiological investigation
- Control zone testing
- Cleaning and disinfection
- Environmental testing
- Fallow period
- Restocking



Prevention Measures

- Biosecurity
 - Keep the virus out of flock houses
 - Stop the virus from moving off the farm
- Vaccination
 - Doesn't prevent virus infection, birds are still contagious
 - Limited effectiveness in chickens, untested in turkeys
 - Ban on exports from entire USA, not just affected areas
 - More research needed





Expectations for fall

- HPAI is expected to return with migratory waterfowl
- Likely to infect more farms and spread to Atlantic Flyway
- May have more subtypes
- Wild waterfowl surveillance program for early detection



Arizona poultry preparedness

- Migratory waterfowl surveillance program
- Sentinel flock testing
- National Poultry Improvement Program
- Biosecurity audit of poultry farms
- More restrictive poultry import rules
- Outreach and education
- Prepare plans for mass depopulation and disposal

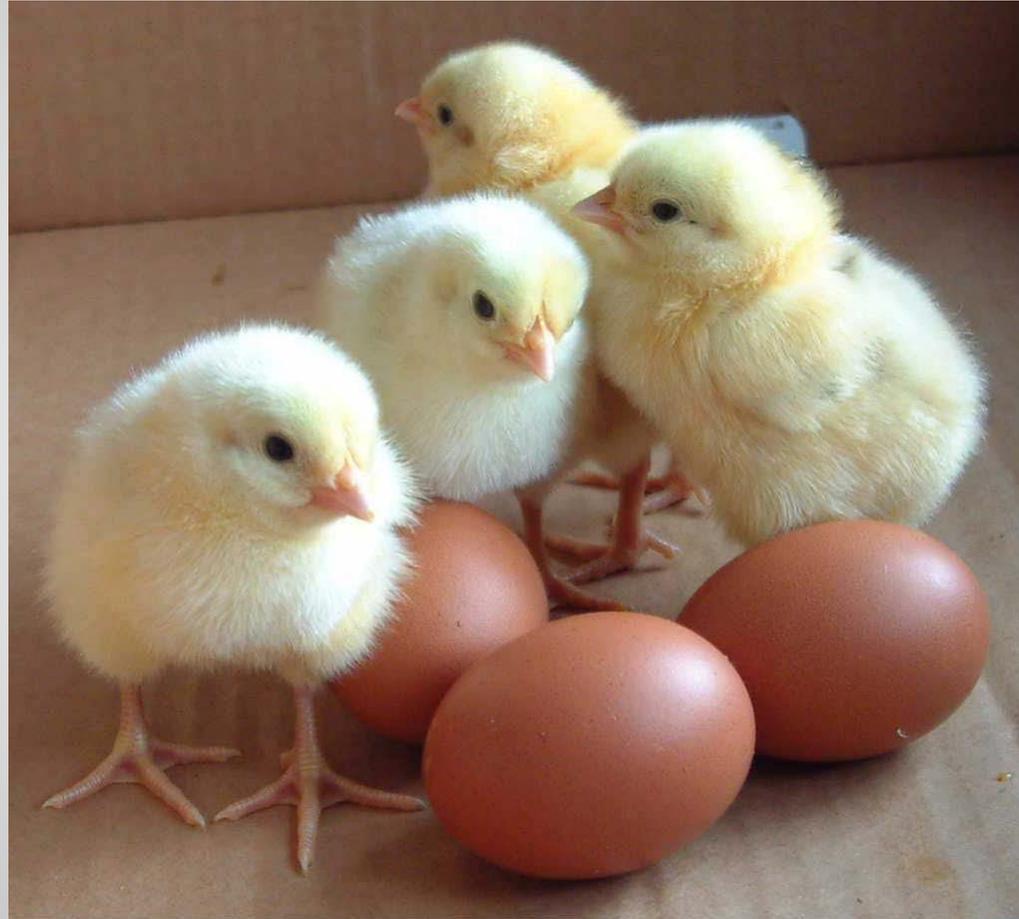


Public Health Concerns

- HPAI H5N8, H5N2 and North American H5N1 have not been transmitted to humans.....yet
- Properly cooking poultry meat and eggs inactivates HPAI
- Safe disposal of infected poultry prevents introduction into food or water supply
- Food supply shortages, increased price



Questions



Thank you!