



OREGON  
**HEALTH**  
AUTHORITY

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# **Avian influenza A(H5) ‘Bird flu’ in Oregon**

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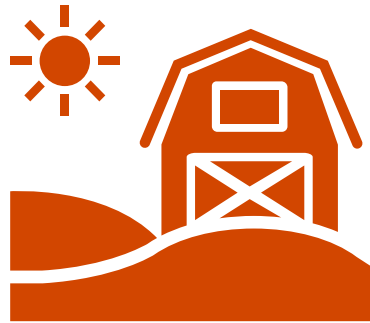
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# One Health approach

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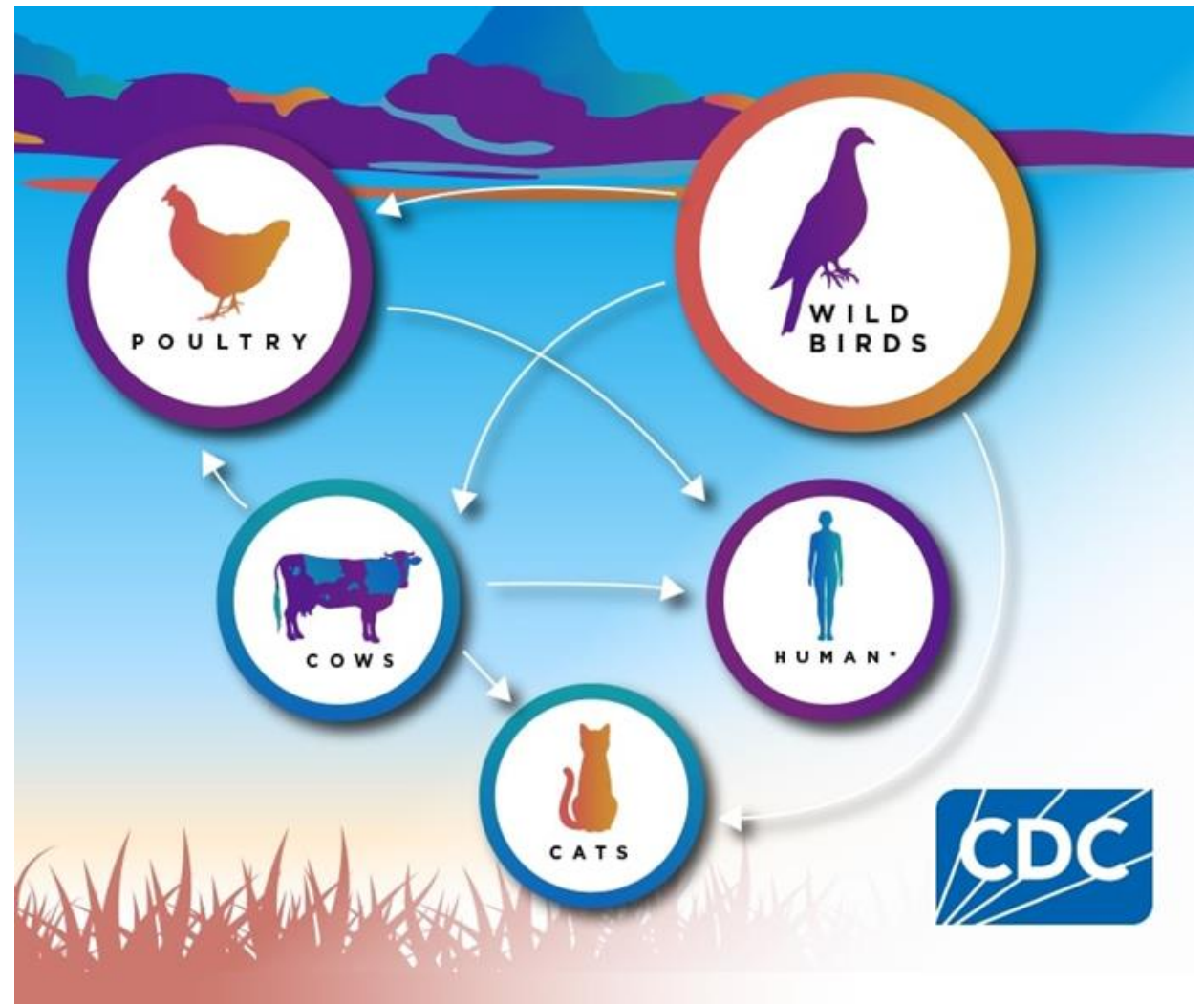
Oregon Department of Agriculture (ODA)  
investigates animal cases and outbreaks



Oregon Health Authority (OHA)  
investigates human exposures, cases,  
and outbreaks

# 'Bird flu' overview

- **1996:** avian influenza A(H5) emerged in Asia
- **1997:** first human case
- **1997-2021:** 883 cases globally, 53% case fatality proportion
- **2022:** widespread in wild birds of North America
- **2024:** dairy cattle outbreaks



# One Health approach to 'bird flu' in Oregon

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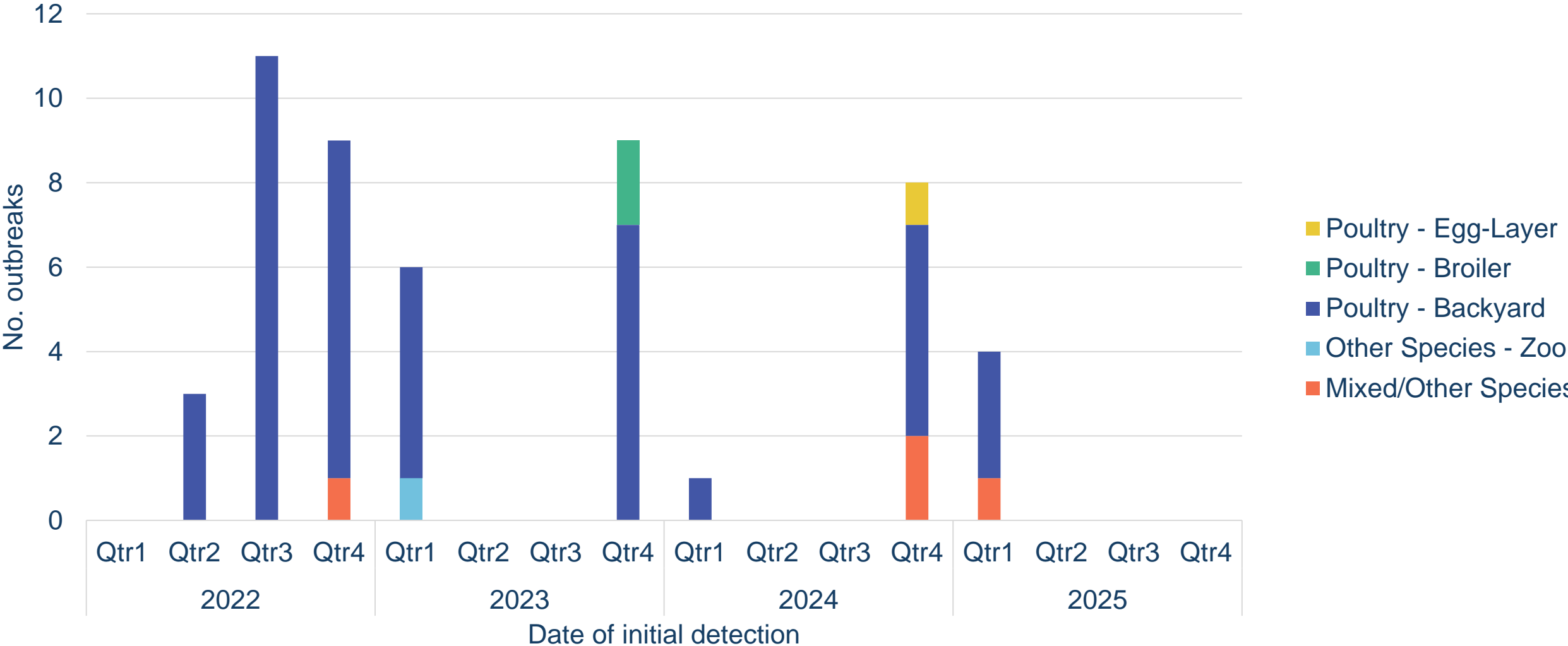
- When an animal case is suspected, ODA deploys to farm to provide animal testing and personal protective equipment (PPE) to farm workers
- ODA notifies OHA of animal outbreak
  - For commercial outbreaks, ODA invites OHA to the farm to provide education and, when indicated, offer testing and treatment to farm workers
  - For backyard outbreaks, ODA provides OHA with farm contact information
- OHA monitors exposed individuals through 10 days following last exposure
  - If symptoms develop, testing and treatment are offered directly by public health
- Bilateral information sharing is key to effective preparedness and response

# 'Bird flu' animal outbreaks in Oregon—2022 to present

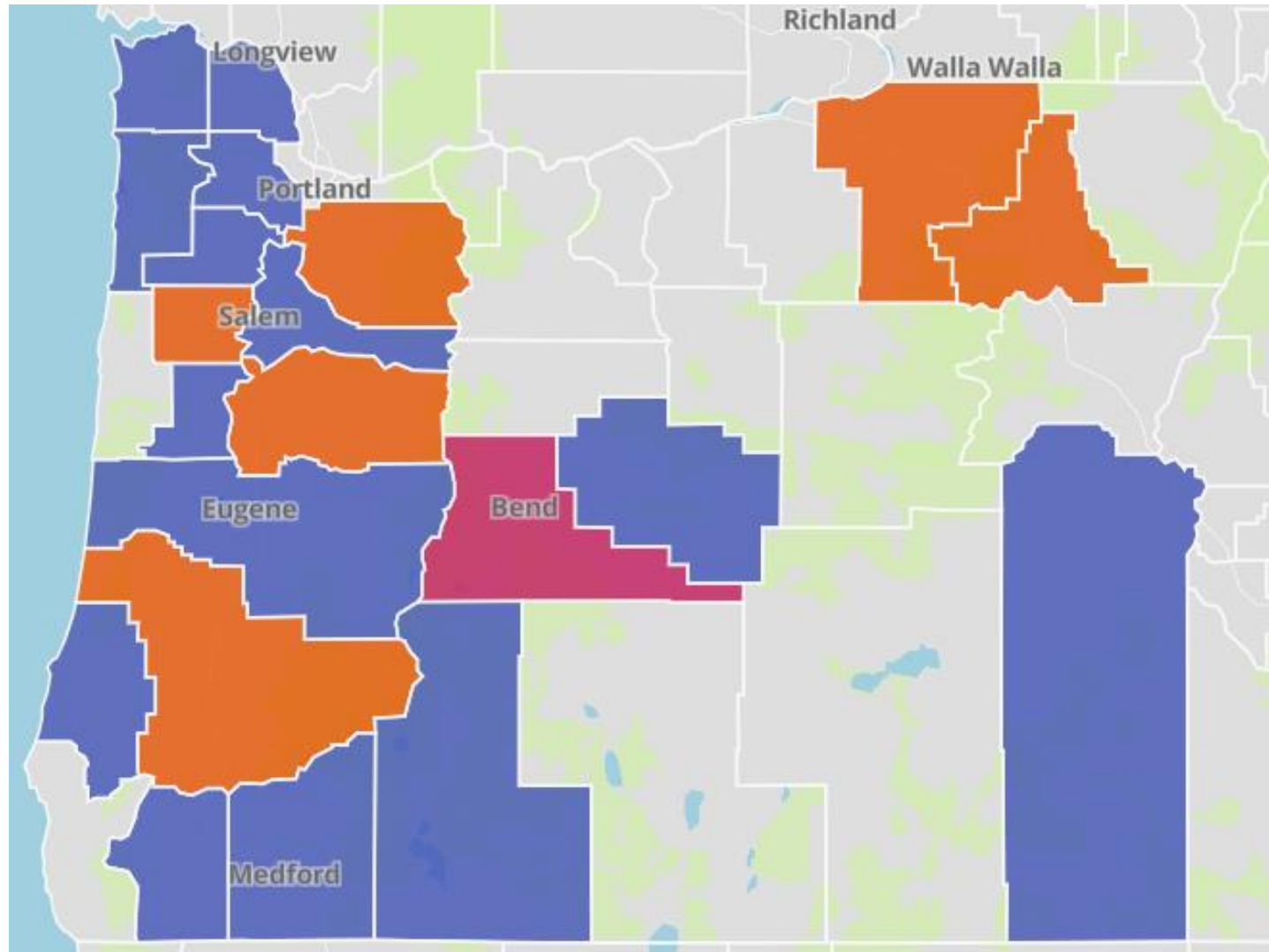
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- 48 outbreaks in poultry
  - 3 commercial, 45 backyard
- 0 dairy cattle outbreaks
- 3 domestic cat outbreaks
  - One infected through raw pet food, with subsequent recall and FDA investigation
- 1 pig outbreak
  - First confirmed case in this species in North America

# 'Bird flu' animal outbreaks in Oregon—2022 to present



# 'Bird flu' animal outbreaks in Oregon—by county



# 'Bird flu' human cases in Oregon—2022 to present

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- 1 confirmed case
  - Associated with a commercial poultry outbreak
  - 4 additional cases *exposed in WA* also identified while in OR
- 219 people monitored following exposure to infected animals
  - 52 tests performed
  - Treatment offered to all individuals with symptoms
  - Prophylaxis offered to all household contacts of case



# The risk to the general population is currently low

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- Rare spillover events have resulted primarily in mild disease
  - Nationally, 67 cases with 2 hospitalizations and 1 death
- No person-to-person transmission and no mutations to facilitate this
  - Concerning mutations have been identified in hospitalized people only late in course of illness
- No markers of antiviral resistance
- Strategic National Stockpile (SNS) contains FDA approved H5 vaccines and influenza antivirals
  - ~ 5 million H5 vaccine doses currently, with 5 million additional under production
- Food chain is safe—affected animal products are diverted and pasteurization and proper cooking of meat inactivates virus
  - Both raw milk and raw meat carry risk

# The 'bird flu' outbreak is dynamic

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- Wild birds cannot be contained and spillover into other species will continue
- Influenza A viruses carry epidemic and pandemic potential
  - Seasonal influenza vaccine uptake has been declining, increasing the risk of coinfection
- Robust surveillance is necessary to monitor virus spread and evolution
  - Clinical influenza surveillance focused on subtyping specimens from hospitalized patients—OSPHL subtyped > 30,000 specimens since 2022
  - Wastewater surveillance can detect surges in both influenza A and the 'bird flu' subtype—OHA/ODA/OSU MMWR with critical insights into H5 in wastewater was to be published last week and has been paused
- Emerging influenza viruses may ultimately cause mild or severe disease, and may affect atypical populations (e.g., young adults) most severely



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# **General Approach to Emerging Public Health Situation**

# Process for emerging public health events

Event or agent detected

Triage/ assess immediacy

Health intelligence briefing

Determine response structure

IMT activation

Response expansion

## Key Features of Expansion:

- ODEM engagement
- Joint Information Center
- Broad staff IMT participation
- Community Engagement
- Data Sharing
- Distribution of medical and nonpharmaceutical intervention supplies

# Response Capabilities

## What We Do

- Biosurveillance
- Incident management
- Information sharing & management
- Medical countermeasures (SNS)
- Nonpharmaceutical interventions
- Medical surge and Mass care
- Volunteer management
- Agency Operations Center, “go” equipment

## Agency Operations Center, Portland



# Partners

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- Agencies supporting Emergency Support Functions outside of Public Health
- Local/Tribal PH Authorities
- Medicaid, DCBS, Healthcare systems & coalitions
- Public Health Programs:
  - HSPR, EMS
  - Drinking Water Services, Environmental Public Health, Radiation Protection
  - Immunizations, OSPHL, Acute & Communicable Disease Prevention
  - Community Engagement
- Behavioral Health

# Thank You

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