USDA has confirmed Highly Pathogenic Avian Influenza in the U.S.

Avian Influenza

A Threat to U.S. Poultry

Worldwide, there are many strains of avian influenza (AI) virus that can cause varying amounts of clinical illness in poultry. AI viruses can infect chickens, turkeys, pheasants, quail, ducks, geese, and guinea fowl, as well as a wide variety of other birds. Migratory waterfowl have proved to be a natural reservoir for the less-infectious strains of the disease.

AI viruses can be classified into low-pathogenicity (LPAI) and high-pathogenicity (HPAI) forms based on the severity of the illness they cause. Most AI virus strains are LPAI and typically cause little or no clinical signs in infected birds. However, some LPAI virus strains are capable of mutating under field conditions into HPAI viruses. The U.S. Department of Agriculture's (USDA) Animal and Plant Health Inspection Service (APHIS) works to keep HPAI from becoming established in the U.S. poultry population.

Clinical Signs

Birds affected with all forms of AI may show one or more of the following signs:
- Sudden death without clinical signs
- Lack of energy and appetite
- Decreased egg production
- Soft-shelled or misshapen eggs
- Swelling of the head, eyelids, comb, wattles, and hocks
- Purple discoloration of the wattles, combs, and legs
- Nasal discharge
- Coughing, sneezing
- Incoordination
- Diarrhea

Introduction and Spread of AI Virus

Once introduced, AI can be spread from bird to bird by direct contact. AI viruses can also be spread by manure, equipment, vehicles, egg flats, crates, and people whose clothing or shoes have come in contact with the virus.

Biosecurity Measures on the Farm

Poultry producers should strengthen biosecurity practices to prevent the introduction of AI into their flocks. The following are some sound biosecurity practices:
- Keep an "all-in, all-out" philosophy of flock management.
- Protect poultry flocks from coming into contact with wild or migratory birds. Keep poultry away from any source of water that may have been contaminated by wild birds.
- Permit only essential workers and vehicles to enter the farm.
- Provide clean clothing and disinfection facilities for employees.
- Thoroughly clean and disinfect equipment and vehicles (including tires and undercarriage) entering and leaving the farm.
- Do not loan to, or borrow equipment or vehicles from, other farms.
Avoid visiting other poultry farms. If you do visit another farm or live-bird market, change footwear and clothing before working with your own flock.

Do not bring birds from slaughter channels, especially live-bird markets, back to the farm.

**Report Sick Birds**

If birds exhibit clinical signs of AI or may have been exposed to birds with the disease, don’t wait. Report unusual signs of disease or unexpected deaths among your birds. Call your agricultural extension agent, local veterinarian, the State Veterinarian, or USDA Veterinary Services office. USDA operates a toll-free hotline (1-866-536-7593) with veterinarians to help you. USDA wants to test sick birds to make sure they do not have a serious poultry disease. There is no charge for USDA veterinarians to work with you to conduct a disease investigation.

**Additional Information**

For additional information on AI and how to practice biosecurity, visit the APHIS Web site at [http://www.aphis.usda.gov/vs/birdbiosecurity](http://www.aphis.usda.gov/vs/birdbiosecurity).

A biosecure broiler house protects poultry flocks from coming into contact with wild or migratory birds.

Allowing a backyard flock to commingle with wild waterfowl poses the risk of introducing AI into poultry.

AI can overwhelm a healthy broiler flock, leaving high rates of mortality and economic losses.

Here, healthy turkeys are compared with turkeys exhibiting signs of diarrhea and depression due to AI. One gram of contaminated manure can contain enough virus to infect 1 million birds.

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