NVSL has confirmed the detection of H5 avian influenza virus with PCR tests. Preliminary testing indicates this virus is a North American H5N2 Low Pathogenic Avian Influenza (LPAI) virus.

The Board of Animal Health has executed and is implementing the H5/H7 LPAI Initial State Response and Containment Plan (the Minnesota Plan). Additional information will be released as deemed necessary.

Information below this point is from the Suspect Disease Alerts sent November 2 and November 3, 2018.

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Influenza Suspect Disease Alert

Testing conducted on samples from a Minnesota poultry flock indicate exposure to influenza virus. These results are based on screening tests as part of the State’s continued surveillance efforts to detect poultry diseases. The Minnesota Board of Animal Health will release more information after the National Veterinary Service Laboratory finishes confirmatory testing.

Alert Level: CRITICAL

MNAIW05-18 – STEARNS 02

- Flock is located in Stearns County, MAPP Code = 73MELR33A
- Multi-age premises: 12 week old commercial turkey hens (flock size 16,000) and 3 week old commercial turkey hens (flock size 25,000)
• No illness or mortality is present
• Control Area surveillance samples were collected and submitted to the MPTL on October 31, 2018
• Tracheal swab samples from the 12 week old birds were PCR AI Matrix positive (CT 23.3) and H5 positive (CT 23.9). Antibodies were detected in 10 out of 10 serum samples tested by ELISA. Tracheal swab samples from the 3 week old birds were negative. See explanation of testing below.
• Samples are being submitted to the National Veterinary Services Laboratory (NVSL) in Ames, IA for confirmation. Results expected in 1-2 days.

**MNAIW06-18 – KANDIYOHI 02**

• Flock is located in Kandiyohi County, MAPP Code = 34FAHL19B
• 16 week old commercial turkey toms (flock size 50,000)
• No illness or mortality is present
• Control Area surveillance samples were collected and submitted to the MPTL on November 1, 2018
• Tracheal swab samples from each of the 5 barns were PCR AI Matrix positive or suspect (CTs 22.4 to 37.8) and H5 positive or suspect (CTs ranged from 22.0 to 37.3). See explanation of testing below.
• Samples are being submitted to the National Veterinary Services Laboratory (NVSL) in Ames, IA for confirmation. Results expected in 1-2 days.

**MNAIW07-18 – STEARNS 03**

• Flock is located in Stearns County, MAPP Code = 73GROV03A
• Multi-age premises: 17 week old commercial turkey hens (flock size 13,500) and 8 week old commercial turkey hens (flock size 47,500)
• No illness or mortality is present
• Control Area surveillance samples collected and tested at the MPTL on November 1, 2018 were suspect positive. Additional samples were collected and tested at the MPTL on November 2, 2018.
• Tracheal swab samples from the 17 week old birds were PCR AI Matrix positive (CT 22-26) and H5 positive (CT 22-26). Tracheal swab samples from the 8 week old birds were negative. See explanation of testing below.
Samples are being submitted to the National Veterinary Services Laboratory (NVSL) in Ames, IA for confirmation. Results expected in 1-2 days.

MNAIW08-18 – STEARNS 04

- Flock is located in Stearns County, MAPP Code = 73GROV10A
- Multi-age premises: 14 week old commercial turkey toms (flock size 21,000) and 6 week old commercial turkey toms (flock size 22,000)
- Flock is experiencing respiratory signs.
- Control Area surveillance samples collected and tested at the MPTL on November 2, 2018 were suspect positive. Additional samples were collected and tested at the MPTL on November 3, 2018.
- Tracheal swab samples from the 14 week old birds were PCR AI Matrix positive (CT 18.98 and 37.3) and H5 positive or suspect (CT 18.23 and 33.82). Tracheal swab samples from the 6 week old birds were negative. See explanation of testing below.
- Samples are being submitted to the National Veterinary Services Laboratory (NVSL) in Ames, IA for confirmation. Results expected in 1-2 days.

Please remember to be vigilant with your biosecurity and help keep Minnesota’s poultry healthy. Contact your veterinarian if you suspect any diseases or illnesses in your flock.

**ALERT LEVEL DESIGNATION**

**WATCH**
Serology positive flock, no clinical signs consistent with HPAI.

**WARNING**
Virus detected, no clinical signs consistent with HPAI.

**CRITICAL**
Virus detected, clinical signs consistent with HPAI, or H5 or H7 positive test results.

Testing information:
• Serologic testing (AGID or ELISA) is a diagnostic tool that looks for the presence of antibodies in the blood. The detection of antibodies are an indication that the bird has been exposed to a disease agent and its body produced antibodies in response to a virus/bacteria. It does not indicate whether or not the disease causing agent is still present within the flock.

• Molecular testing (PCR) is a diagnostic tool that looks for the presence of the disease agent (virus or bacteria) in the bird. Positive influenza results indicate that the bird is infected and shedding virus.

• Testing at the MPTL or Veterinary Diagnostic Laboratory (VDL) are to be interpreted as preliminary results and require confirmation at the National Veterinary Services Laboratory (NVSL).

If there are any questions or concerns please contact your veterinarian or the MPTL at 320-231-5170.