The National Veterinary Services Laboratory (NVSL) has reported preliminary results from MNAIU02-19 and MNAIW03-19. All samples were detected on the PCR assay for H1N1. Additional virus isolation and sequencing testing is on-going.

The information below this point is from the Suspect Disease Alerts sent March 23, 2019 and March 26, 2019.

**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:**

**MNAIU02-19 – KANDIYOHI & MEEKER COUNTIES**

- Flock is split between two premises which are located in Kandiyohi and Meeker Counties, MAPP Codes = 34IRVI24A and 47UNIG19A
- 40 week old breeder turkey hens (flock size 3,200 and 8,200)
- The flock is experiencing a drop in egg production with white, thin eggs and egg deformities
- Tracheal swab samples were collected from all barns on both premises and submitted to the VDL via the MPTL for testing on March 22, 2019
- 6 of the 9 samples collected were positive on the Avian Influenza Matrix PCR test (CTs ranged from 30.52 to 34.54); all samples were negative for H5 and H7 - see explanation of molecular testing below
Samples are being submitted to the National Veterinary Services Laboratory (NVSL) in Ames, IA for confirmation. Results expected in 7-10 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.

**MNAIW03-19 – MEEKER COUNTY**

- Flock is located in Meeker County, MAPP Code = 47UNIG16A
- 55 week old breeder turkey hens (flock size 12,000) and toms (flock size 500)
- The flock is experiencing a drop in egg production and has an epidemiological link to previously identified flock (MNAIU02-19)
- Tracheal swab samples were collected from all barns on both premises and submitted to the MPTL on March 25, 2019 for testing on March 26, 2019
- 5 of the 8 samples collected were positive on the Avian Influenza Matrix PCR test (CTs ranged from 26.49 to 36.49); all samples were negative for H5 and H7 - see explanation of molecular testing below
- Samples are being submitted to the National Veterinary Services Laboratory (NVSL) in Ames, IA for confirmation. Results expected in 7-10 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.

**ALER**

**T LEVEL DESIGNATION**

- Serology positive flock, no clinical signs consistent with HPAI.
- Virus detected, no clinical signs consistent with HPAI.
- 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.

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