

United States of America - Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) - Follow-up report 1

GENERAL INFORMATION

| COUNTRY/TERRITORY OR ZONE | ANIMAL TYPE | DISEASE CATEGORY | EVENT ID |
|--|---|-------------------------------|--------------|
| ZONE | TERRESTRIAL | Listed disease | 4451 |
| DISEASE | CAUSAL AGENT | GENOTYPE / SEROTYPE / SUBTYPE | START DATE |
| Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) | Highly pathogenic avian influenza virus | H5N1 | 2022/04/19 |
| REASON FOR NOTIFICATION | DATE OF LAST OCCURRENCE | CONFIRMATION DATE | EVENT STATUS |
| Unusual host species | - | - | On-going |
| END DATE | SELF-DECLARATION | | |
| - | NO | | |

REPORT INFORMATION

| REPORT NUMBER | REPORT ID | REPORT REFERENCE | REPORT DATE |
|--------------------|---------------------|------------------|-------------|
| Follow-up report 1 | FUR_155419 | - | 2022/05/18 |
| REPORT STATUS | NO EVOLUTION REPORT | | |
| Validated | - | | |

EPIDEMIOLOGY

SOURCE OF EVENT OR ORIGIN OF INFECTION

- Contact with wild species
- Unknown or inconclusive

EPIDEMIOLOGICAL COMMENTS

--Wisconsin (WI)--Highly pathogenic avian influenza (HPAI) H5N1, Eurasian lineage goose/Guangdong clade 2.3.4.4b was confirmed in three additional wild red fox kits from Jefferson and Dane Counties, WI. The animals were found displaying neurological signs and taken to rehabilitation facilities, where two have since died and one remains living. Full genome sequencing is pending. Michigan (MI)—Highly pathogenic avian influenza (HPAI) H5N1, Eurasian lineage goose/Guangdong clade 2.3.4.4b was confirmed in three wild red fox kits from Lapeer, Macomb and St Clair Counties, MI. Clinical signs included circling, tremors and seizures. The animals were taken to a rehabilitation facility where they since have died. Full genome sequencing is pending. Iowa (IA)—Highly pathogenic avian influenza (HPAI) H5N1, Eurasian lineage goose/Guangdong clade 2.3.4.4b was confirmed in a red fox kit from Hancock County, IA. The affected animal was found dead prior to testing. Full genome sequencing is pending. Minnesota (MN)--Highly pathogenic avian influenza (HPAI) H5N1, Eurasian lineage goose/Guangdong clade 2.3.4.4b was confirmed in a red fox kit from Anoka County, MN. The affected animal died prior to its delivery at a rehabilitation facility and subsequent testing. Full genome sequencing is pending.

QUANTITATIVE DATA SUMMARY

MEASURING UNIT

Animal

| Species | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|---------|-------------|-------|--------|------------------------|--|------------|
| red fox | NEW | - | 11 | 7 | - | - |
| (wild) | TOTAL | - | 11 | 9 | - | - |

DIAGNOSTIC DETAILS

CLINICAL SIGNS

YES

METHOD OF DIAGNOSTIC

Clinical,
Diagnostic test

| Test name | Laboratory | Species sampled | Number of outbreaks sampled | First result date | Latest result date | Result |
|---|--|-----------------|-----------------------------|-------------------|--------------------|----------|
| Real-time reverse transcription polymerase chain reaction (rRT-PCR) | National Veterinary Services Laboratories (NVSL), Ames, Iowa | Red Fox | 9 | 2022/05/05 | 2022/05/11 | Positive |

CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL

Surveillance within the restricted zone
Official disposal of carcasses, by-products and waste
Disinfection

DOMESTIC ANIMALS

WILD ANIMALS

Applied
Applied
Applied

NEW OUTBREAKS

OB_103182 - DANE COUNTY

| OUTBREAK REFERENCE | START DATE | END DATE | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| - | 2022/05/05 | - | - |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT |
| Wisconsin | Dane | - | Other |
| LOCATION | Latitude, Longitude | OUTBREAKS IN CLUSTER | Measuring unit |
| Dane County | 43.104 , -89.285 (Approximate location) | - | Animal |

AFFECTED POPULATION DESCRIPTION

--Captive wild red fox kit (Vulpes vulpes) at a rehabilitation facility.

| Species (latin) | Wildlife | Susceptible | Cases | Deaths | Killed and | Slaughtered/ Killed for | Vaccinated |
|-----------------|----------|-------------|-------|--------|------------|-------------------------|------------|
|-----------------|----------|-------------|-------|--------|------------|-------------------------|------------|

| name) | type | | | | Disposed of | commercial use | |
|----------------|-------|---|---|---|-------------|----------------|---|
| red fox (wild) | NEW | - | 1 | 1 | - | - | - |
| captive | TOTAL | - | 1 | 1 | - | - | - |

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

| MEASURES NOT IMPLEMENTED | ADDITIONAL MEASURES |
|--------------------------|---------------------|
| - | - |
| OB_103118 - ANOKA COUNTY | |

| OUTBREAK REFERENCE | START DATE | END DATE | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| - | 2022/04/22 | - | - |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT |
| Minnesota | Anoka | - | Not applicable |
| LOCATION | Latitude, Longitude | OUTBREAKS IN CLUSTER | Measuring unit |
| Anoka County | 45.212 , -93.373 (Approximate location) | - | Animal |

AFFECTED POPULATION DESCRIPTION

--Wild red fox kit (Vulpes vulpes).

| Species (latin name) | Wildlife type | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|
| red fox (wild) | NEW | - | 1 | 1 | - | - | - |
| wild | TOTAL | - | 1 | 1 | - | - | - |

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

| MEASURES NOT IMPLEMENTED | ADDITIONAL MEASURES |
|----------------------------|---------------------|
| - | - |
| OB_103117 - HANCOCK COUNTY | |

| OUTBREAK REFERENCE | START DATE | END DATE | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| - | 2022/05/06 | - | - |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT |
| Iowa | Hancock | - | Not applicable |
| LOCATION | Latitude, Longitude | OUTBREAKS IN CLUSTER | Measuring unit |
| Hancock County | 43.094 , -93.592 (Approximate location) | - | Animal |

AFFECTED POPULATION DESCRIPTION

--Wild red fox kit (Vulpes vulpes).

| Species (latin name) | Wildlife type | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|

| | | | | | | | |
|----------------|-------|---|---|---|---|---|---|
| red fox (wild) | NEW | - | 1 | 1 | - | - | - |
| wild | TOTAL | - | 1 | 1 | - | - | - |

METHOD OF DIAGNOSTIC

Clinical,
Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

| | |
|--------------------------|---------------------|
| MEASURES NOT IMPLEMENTED | ADDITIONAL MEASURES |
|--------------------------|---------------------|

| | |
|---|---|
| - | - |
|---|---|

OB_103116 - SAINT CLAIR COUNTY

| OUTBREAK REFERENCE | START DATE | END DATE | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| - | 2022/04/22 | - | - |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT |
| Michigan | Saint Clair | - | Other |
| LOCATION | Latitude, Longitude | OUTBREAKS IN CLUSTER | Measuring unit |
| Saint Clair County | 42.988 , -82.862 (Approximate location) | - | Animal |

AFFECTED POPULATION DESCRIPTION

--Captive wild red fox kit (Vulpes vulpes) at a rehabilitation facility.

| Species (latin name) | Wildlife type | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|
| red fox (wild) | NEW | - | 1 | 1 | - | - | - |
| captive | TOTAL | - | 1 | 1 | - | - | - |

METHOD OF DIAGNOSTIC

Clinical,
Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

| | |
|--------------------------|---------------------|
| MEASURES NOT IMPLEMENTED | ADDITIONAL MEASURES |
|--------------------------|---------------------|

| | |
|---|---|
| - | - |
|---|---|

OB_103115 - MACOMB COUNTY

| OUTBREAK REFERENCE | START DATE | END DATE | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| - | 2022/04/22 | - | - |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT |
| Michigan | Macomb | - | Other |
| LOCATION | Latitude, Longitude | OUTBREAKS IN CLUSTER | Measuring unit |
| Macomb County | 42.592 , -82.862 (Approximate location) | - | Animal |

AFFECTED POPULATION DESCRIPTION

--Captive wild red fox kits (Vulpes vulpes) at a rehabilitation facility.

| Species (latin name) | Wildlife type | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|
| red fox (wild) | NEW | - | 2 | 1 | - | - | - |

| | | | | | | | |
|---------|-------|---|---|---|---|---|---|
| captive | TOTAL | - | 2 | 1 | - | - | - |
|---------|-------|---|---|---|---|---|---|

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

| | |
|--------------------------|---------------------|
| MEASURES NOT IMPLEMENTED | ADDITIONAL MEASURES |
|--------------------------|---------------------|

| | |
|---|---|
| - | - |
|---|---|

OB_103114 - LAPEER COUNTY

| OUTBREAK REFERENCE | START DATE | END DATE | DETAILED CHARACTERISATION |
|-------------------------------|---|-------------------------------|---------------------------|
| - | 2022/04/22 | - | - |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT |
| Michigan | Lapeer | - | Other |
| LOCATION | Latitude, Longitude | OUTBREAKS IN CLUSTER | Measuring unit |
| Lapeer County | 43.04 , -83.331 (Approximate location) | - | Animal |

AFFECTED POPULATION DESCRIPTION

--Captive wild red fox kit (Vulpes vulpes) at a rehabilitation facility.

| Species (latin name) | Wildlife type | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|
| red fox (wild) | NEW | - | 1 | 1 | - | - | - |
| captive | TOTAL | - | 1 | 1 | - | - | - |

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

| | |
|--------------------------|---------------------|
| MEASURES NOT IMPLEMENTED | ADDITIONAL MEASURES |
|--------------------------|---------------------|

| | |
|---|---|
| - | - |
|---|---|

OB_103113 - JEFFERSON COUNTY

| OUTBREAK REFERENCE | START DATE | END DATE | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| - | 2022/04/09 | - | - |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT |
| Wisconsin | Jefferson | - | Other |
| LOCATION | Latitude, Longitude | OUTBREAKS IN CLUSTER | Measuring unit |
| Jefferson County | 43.027 , -88.796 (Approximate location) | - | Animal |

AFFECTED POPULATION DESCRIPTION

--Captive wild red fox kits (Vulpes vulpes) at a rehabilitation facility.

| Species (latin name) | Wildlife type | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|
| red fox (wild) | NEW | - | 2 | 1 | - | - | - |
| captive | TOTAL | - | 2 | 1 | - | - | - |

METHOD OF DIAGNOSTIC

Clinical,
Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

UPDATED OUTBREAKS

OB_102891 - WAUSHARA COUNTY

| OUTBREAK REFERENCE | START DATE | END DATE | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| - | 2022/04/24 | - | - |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT |
| Wisconsin | Waushara | - | Other |
| LOCATION | Latitude, Longitude | OUTBREAKS IN CLUSTER | Measuring unit |
| Waushara County | 44.078 , -89.293 (Approximate location) | - | Animal |

AFFECTED POPULATION DESCRIPTION

--Captive wild red fox kit (Vulpes vulpes) at a rehabilitation facility.

| Species (latin name) | Wildlife type | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|
| red fox (wild) | NEW | - | 1 | - | - | - | - |
| captive | TOTAL | - | 1 | 1 | - | - | - |

METHOD OF DIAGNOSTIC

Clinical,
Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_102890 - ROCK COUNTY

| OUTBREAK REFERENCE | START DATE | END DATE | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| - | 2022/04/19 | - | - |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT |
| Wisconsin | Rock | - | Other |
| LOCATION | Latitude, Longitude | OUTBREAKS IN CLUSTER | Measuring unit |
| Rock County | 42.745 , -88.974 (Approximate location) | - | Animal |

AFFECTED POPULATION DESCRIPTION

--Captive wild red fox kit (Vulpes vulpes) at a rehabilitation facility.

| Species (latin name) | Wildlife type | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|
|----------------------|---------------|-------------|-------|--------|------------------------|--|------------|

| | | | | | | | |
|----------------|-------|---|---|---|---|---|---|
| red fox (wild) | NEW | - | 1 | - | - | - | - |
| captive | TOTAL | - | 1 | 1 | - | - | - |

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

| MEASURES NOT IMPLEMENTED | ADDITIONAL MEASURES |
|--------------------------|---------------------|
| - | - |