

## United States of America - Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) - Follow-up report 43

### 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                          | 2022/03/30   |
| REASON FOR NOTIFICATION  | DATE OF LAST OCCURRENCE                 | CONFIRMATION DATE             | EVENT STATUS |
| Unusual host species   | -                                       | 2022/05/05                    | On-going     |
| END DATE   | SELF-DECLARATION                        |                               |              |
| -  | NO                                      |                               |              |

### REPORT INFORMATION

| REPORT NUMBER       | REPORT ID           | REPORT REFERENCE | REPORT DATE |
|---------------------|---------------------|------------------|-------------|
| Follow-up report 43 | FUR_166488          | -                | 2024/03/18  |
| REPORT STATUS       | NO EVOLUTION REPORT |                  |             |
| Validated           | -                   |                  |             |

### EPIDEMIOLOGY

#### SOURCE OF EVENT OR ORIGIN OF INFECTION

- Contact with wild species
- Unknown or inconclusive

#### EPIDEMIOLOGICAL COMMENTS

USDA's National Veterinary Services Laboratories confirmed highly pathogenic avian influenza (HPAI) in neonatal goat kids that demonstrated neurologic signs from a Minnesota backyard premises recently affected with HPAI. The goats on the premises shared the same pasture and sole water source with infected ducks and chickens. The goats began to kid only days after the birds were depopulated. Of 10 goat kids that have died, ranging from 5 days to 9 days of age, five goat kids between 7 and 9 days of age have tested positive on brain and other tissues for H5N1 clade 2.3.4.4b virus. Whole genome sequence data available to date from the chickens, ducks, and the first goat kid tested share high identity, and are Eurasian/North American reassortant genotype B3.6 (GenoFlu <https://github.com/USDA-VS/GenoFLU>)

### QUANTITATIVE DATA SUMMARY

#### MEASURING UNIT

Animal

| Species                                    |       | Susceptible | Cases | Deaths | Killed and<br>Disposed of | Slaughtered/ Killed for<br>commercial use | Vaccinated |
|--|-------|-------------|-------|--------|---------------------------|---|------------|
| coyote (wild)                              | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 1     | -      | 1                         | -   | -          |
| cats (domestic)                            | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 7     | 1      | 4                         | -   | -          |
| virginia opossum (wild)                    | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 4     | 3      | 1                         | -   | -          |
| domestic cat (wild)                        | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 6     | 1      | 1                         | -   | -          |
| goats (domestic)                           | NEW   | 165         | 5     | 5      | -                         | -   | -          |
|  | TOTAL | 165         | 5     | 5      | -                         | -   | -          |
| gray seal (wild)                           | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 1     | 1      | -                         | -   | -          |
| bobcat (wild)                              | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 6     | 4      | 2                         | -   | -          |
| striped skunk (wild)                       | NEW   | -           | 1     | 3      | 1                         | -   | -          |
|  | TOTAL | -           | 42    | 27     | 14                        | -   | -          |
| tiger (wild)                               | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 1     | 1      | -                         | -   | -          |
| harbor seal (wild)                         | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 21    | 19     | 2                         | -   | -          |
| raccoon (northern<br>raccoon) (wild)       | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 15    | 5      | 4                         | -   | -          |
| puma (wild)                                | NEW   | -           | -     | 1      | -                         | -   | -          |
|  | TOTAL | -           | 22    | 22     | -                         | -   | -          |
| bottlenose dolphin (wild)                  | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 1     | 1      | -                         | -   | -          |
| american black bear<br>(black bear) (wild) | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 4     | 1      | 3                         | -   | -          |
| brown bear (grizzly bear)<br>(wild)        | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 4     | 3      | 1                         | -   | -          |
| polar bear (wild)                          | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | -     | 1      | -                         | -   | -          |
| red fox (wild)                             | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 85    | 48     | 19                        | -   | -          |
| amur leopard (wild)                        | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 1     | 1      | -                         | -   | -          |
| fisher (wild)                              | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 3     | 2      | 1                         | -   | -          |
| north american river otter<br>(wild)       | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 1     | 1      | -                         | -   | -          |
| american marten (wild)                     | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 1     | 1      | -                         | -   | -          |
| abert's squirrel (wild)                    | NEW   | -           | -     | -      | -                         | -   | -          |
|  | TOTAL | -           | 1     | -      | -                         | -   | -          |
| all species                                | NEW   | 165         | 6     | 9      | 1                         | -   | -          |
|  | TOTAL | 165         | 232   | 148    | 53                        | -   | -          |

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 | Bobcat, Brown bear (Grizzly Bear), Red Fox, Striped Skunk, Domestic cat, Cats, Fisher, American Black Bear (black bear), Tiger, Puma, Goats, Bottlenose dolphin, Coyote, Virginia Opossum, Abert's squirrel, Harbor Seal, Polar Bear, Gray Seal, American marten, Amur Leopard, Raccoon (Northern raccoon), North American river otter | 173                         | 2022/05/05        | 2024/03/08         | Positive |

CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL

Disinfection

Official disposal of carcasses, by-products and waste

Surveillance within the restricted zone

DOMESTIC ANIMALS

WILD ANIMALS

Applied

Applied

Applied

NEW OUTBREAKS

OB\_133113 - STEVENS COUNTY

| OUTBREAK REFERENCE            | START DATE                                 | END DATE                      | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| -                             | 2024/02/24                                 | -                             | -                         |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION             | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT      |
| Minnesota                     | Stevens                                    | -                             | Backyard                  |
| LOCATION                      | Latitude, Longitude                        | OUTBREAKS IN CLUSTER          | Measuring unit            |
| Stevens County                | 45.587 , -95.909<br>(Approximate location) | -                             | Animal                    |

AFFECTED POPULATION DESCRIPTION

Domestic neonatal goats (Capra hircus) with close contact to HPAI infected birds on an HPAI affected WOAHH non-poultry premises. Clinical signs included neurologic deficits and death.

| Species    | Wildlife type | Susceptible Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|------------|---------------|-------------------|--------|------------------------|--|------------|
| goats      | NEW           | 165               | 5      | 5                      | -                                      | -          |
| (domestic) | TOTAL         | 165               | 5      | 5                      | -                                      | -          |

METHOD OF DIAGNOSTIC

Clinical,  
Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

| MEASURES NOT IMPLEMENTED   | ADDITIONAL MEASURES |
|--|---------------------|
| Disinfection<br>Official disposal of carcasses, by-products and waste<br>Surveillance within the restricted zone | Quarantine          |

OB\_133164 - ADA COUNTY

| OUTBREAK REFERENCE            | START DATE                                 | END DATE                      | DETAILED CHARACTERISATION |
|-------------------------------|--|-------------------------------|---------------------------|
| -                             | 2023/12/22                                 | -                             | -                         |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION             | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT      |
| Idaho                         | Ada  | -                             | Not applicable            |
| LOCATION                      | Latitude, Longitude                        | OUTBREAKS IN CLUSTER          | Measuring unit            |
| Ada County                    | 43.61 , -116.198<br>(Approximate location) | -                             | Animal                    |

AFFECTED POPULATION DESCRIPTION

Wild striped skunk (Mephitis mephitis) exhibiting neurologic signs.

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

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

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

UPDATED OUTBREAKS

OB\_132896 - GRANITE COUNTY

| OUTBREAK REFERENCE            | START DATE                                  | END DATE                      | DETAILED CHARACTERISATION |
|-------------------------------|---|-------------------------------|---------------------------|
| -                             | 2024/01/30                                  | -                             | -                         |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION              | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT      |
| Montana                       | Granite                                     | -                             | Not applicable            |
| LOCATION                      | Latitude, Longitude                         | OUTBREAKS IN CLUSTER          | Measuring unit            |
| Granite County                | 46.334 , -113.293<br>(Approximate location) | -                             | Animal                    |

AFFECTED POPULATION DESCRIPTION

Wild mountain lion (Puma concolor). Samples were collected from a sub-adult female found dead.

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

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

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

OB\_132869 - STEVENS COUNTY

| OUTBREAK REFERENCE            | START DATE                                  | END DATE                      | DETAILED CHARACTERISATION |
|-------------------------------|---|-------------------------------|---------------------------|
| -                             | 2024/02/23                                  | -                             | -                         |
| FIRST ADMINISTRATIVE DIVISION | SECOND ADMINISTRATIVE DIVISION              | THIRD ADMINISTRATIVE DIVISION | EPIDEMIOLOGICAL UNIT      |
| Washington                    | Stevens                                     | -                             | Not applicable            |
| LOCATION                      | Latitude, Longitude                         | OUTBREAKS IN CLUSTER          | Measuring unit            |
| Stevens County                | 48.543 , -117.903<br>(Approximate location) | -                             | Animal                    |

AFFECTED POPULATION DESCRIPTION

Wild striped skunks (Mephitis mephitis).

| Species       | Wildlife type | Susceptible | Cases | Deaths | Killed and Disposed of | Slaughtered/ Killed for commercial use | Vaccinated |
|---------------|---------------|-------------|-------|--------|------------------------|--|------------|
| striped skunk | NEW           | -           | -     | 3      | -                      | -                                      | -          |
| (wild) wild   | TOTAL         | -           | 3     | 3      | -                      | -                                      | -          |

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

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