

Highly Pathogenic Avian Influenza (HPAI) in Europe: update Wild birds: species affected

Last update: ADIS 17/09/2021 at 15.00

The wild bird species that tested positive for Highly Pathogenic Avian Influenza (HPAI) virus in the epidemic season that began in October 2020 in Europe are listed in Table 1. In total, the species identified are seventy-five (n=75), belonging to 13 Orders. The majority of the species tested positive to HPAI virus belong to the order *Anseriformes*.

Table 1. Wild birds species involved in the HPAI epidemic, by order and number of cases.

| Common name | Scientific name | Order | H5 | H5N1 | H5N2 | H5N3 | H5N4 | H5N5 | H5N8 | H7N7 | Total |
|------------------------------|------------------------------|------------------------|-----|------|------|------|------|------|------|------|------------|
| Mute swan | <i>(Cygnus olor)</i> | <i>Anseriformes</i> | 155 | 6 | 1 | | | 21 | 535 | 2** | 720 |
| Barnacle goose | <i>(Branta leucopsis)</i> | <i>Anseriformes</i> | 6 | 39 | | | | 6 | 350 | | 401 |
| Greylag goose | <i>(Anser anser)</i> | <i>Anseriformes</i> | 17 | 20 | | 1 | 3 | 3 | 343 | | 387 |
| Swan ns | <i>(Cygnus spp)</i> | <i>Anseriformes</i> | 5 | | | | 2 | 19 | 241 | | 267 |
| Common buzzard | <i>(Buteo buteo)</i> | <i>Accipitriformes</i> | 4 | 4 | | 2 | 2 | 5 | 130 | | 147 |
| Whooper swan | <i>(Cygnus cygnus)</i> | <i>Anseriformes</i> | 26 | 3 | | | | 5 | 102 | | 136 |
| Anseriformes ns | <i>(Anseriformes)</i> | <i>Anseriformes</i> | 5 | 78 | | | 1 | | 50 | | 134 |
| Red knot | <i>(Calidris canutus)</i> | <i>Charadriiformes</i> | | | | 108 | | 1 | | | 109 |
| Eurasian wigeon* | <i>(Mareca penelope)</i> | <i>Anseriformes</i> | 27 | 11 | | | | 1 | 49* | | 88 |
| Mallard duck | <i>(Anas platyrhynchos)</i> | <i>Anseriformes</i> | 12 | | | | 2 | 1 | 55 | | 70 |
| Common pheasant | <i>(Phasianus colchicus)</i> | <i>Galliformes</i> | | | | | | | 68 | | 68 |
| Accipitriformes ns | <i>(Accipitriformes)</i> | <i>Accipitriformes</i> | | 5 | | | 1 | 3 | 50 | | 59 |
| European herring gull | <i>(Larus argentatus)</i> | <i>Charadriiformes</i> | 3 | 6 | | | 2 | 2 | 36 | | 49 |
| Eurasian teal | <i>(Anas crecca)</i> | <i>Anseriformes</i> | 28 | 2 | | | | 1 | 12 | | 43 |
| Gull ns | <i>(Laridae)</i> | <i>Charadriiformes</i> | 3 | 9 | | | 2 | 2 | 27 | | 43 |
| Canada goose | <i>(Branta canadensis)</i> | <i>Anseriformes</i> | 4 | 1 | | | | 1 | 36 | | 42 |
| Peregrine falcon | <i>(Falco peregrinus)</i> | <i>Falconiformes</i> | 1 | | | 2 | 2 | 2 | 31 | | 38 |

| Common name | Scientific name | Order | H5 | H5N1 | H5N2 | H5N3 | H5N4 | H5N5 | H5N8 | H7N7 | Total |
|-----------------------------|-------------------------------------|------------------------|----|------|------|------|------|------|------|------|-------|
| Eurasian eagle-owl | <i>(Bubo bubo)</i> | <i>Strigiformes</i> | 4 | 1 | | | | 1 | 18 | | 24 |
| Grey heron | <i>(Ardea cinerea)</i> | <i>Pelecaniformes</i> | 3 | | | | | | 20 | | 23 |
| Wild black swan | <i>(Cygnus atratus)</i> | <i>Anseriformes</i> | | | | | | | 20 | | 20 |
| Greater white-fronted goose | <i>(Anser albifrons)</i> | <i>Anseriformes</i> | | | | | | | 19 | | 19 |
| Northern goshawk | <i>(Accipiter gentilis)</i> | <i>Accipitriformes</i> | 3 | 1 | | | | 1 | 14 | | 19 |
| White-tailed eagle | <i>(Haliaeetus albicilla)</i> | <i>Accipitriformes</i> | 1 | 9 | | | | 2 | 7 | | 19 |
| Pink-footed goose | <i>(Anser brachyrhynchus)</i> | <i>Anseriformes</i> | | | | | | | 18 | | 18 |
| Black-headed gull | <i>(Chroicocephalus ridibundus)</i> | <i>Charadriiformes</i> | 1 | 3 | | | | 1 | 13 | | 18 |
| wild bird non-specified | | | 12 | | | | | | 5 | | 17 |
| Curlew | <i>(Numenius arquata)</i> | <i>Charadriiformes</i> | 1 | 1 | | 1 | 1 | | 12 | | 16 |
| Brant goose | <i>(Branta bernicla)</i> | <i>Anseriformes</i> | 4 | | | | | | 11 | | 15 |
| Common eider | <i>(Somateria mollissima)</i> | <i>Anseriformes</i> | 1 | | | | | | 14 | | 15 |
| Great cormorant | <i>(Phalacrocorax carbo)</i> | <i>Suliformes</i> | | 5 | | | | | 10 | | 15 |
| Taiga bean goose | <i>(Anser fabalis)</i> | <i>Anseriformes</i> | | | | | | 2 | 11 | | 13 |
| Sparrow ns | <i>(Passeridae)</i> | <i>Passeriformes</i> | 10 | | | | | | 1 | | 11 |
| Common kestrel | <i>(Falco tinnunculus)</i> | <i>Falconiformes</i> | | | | 1 | | | 10 | | 11 |
| White stork | <i>(Ciconia ciconia)</i> | <i>Ciconiiformes</i> | | | | | | | 10 | | 10 |
| Great black-backed gull | <i>(Larus marinus)</i> | <i>Charadriiformes</i> | 1 | | | | | | 8 | | 9 |
| Eurasian sparrowhawk | <i>(Accipiter nisus)</i> | <i>Accipitriformes</i> | | | | | | | 7 | | 7 |
| Dalmatian Pelican | <i>(Pelecanus crispus)</i> | <i>Pelecaniformes</i> | | | | | | | 7 | | 7 |
| Common starling | <i>(Sturnus vulgaris)</i> | <i>Passeriformes</i> | | | | | | | 6 | | 6 |
| Eurasian magpie | <i>(Pica pica)</i> | <i>Passeriformes</i> | 2 | | | | | | 2 | | 4 |
| Goose ns | | <i>Anseriformes</i> | | | | | | | 4 | | 4 |
| Great egret | <i>(Ardea alba)</i> | <i>Pelecaniformes</i> | | | | | | | 4 | | 4 |
| Common coot | <i>(Fulica atra)</i> | <i>Gruiformes</i> | 1 | | | | | | 3 | | 4 |
| Charadriidae ns | <i>(Charadriiformes)</i> | <i>Charadriiformes</i> | | 2 | | | | | 2 | | 4 |
| Common tern | <i>(Sterna hirundo)</i> | <i>Charadriiformes</i> | | 4 | | | | | | | 4 |
| Eurasian oystercatcher | <i>(Haematopus ostralegus)</i> | <i>Charadriiformes</i> | | 1 | | | | | 3 | | 4 |
| Strigiformes ns | <i>(Strigiformes)</i> | <i>Strigiformes</i> | 1 | | | | | | 2 | | 3 |
| Eurasian woodcock | <i>(Scolopax rusticola)</i> | <i>Charadriiformes</i> | | | | 2 | | | 1 | | 3 |

| Common name | Scientific name | Order | H5 | H5N1 | H5N2 | H5N3 | H5N4 | H5N5 | H5N8 | H7N7 | Total |
|--------------------------|---------------------------------|------------------|----|------|------|------|------|------|------|------|-------|
| Common shelduck | <i>(Tadorna tadorna)</i> | Anseriformes | 1 | | | | | | 2 | | 3 |
| Muscovy duck | <i>(Cairina moschata)</i> | Anseriformes | 1 | | | | | | 2 | | 3 |
| Rough-legged Hawk | <i>(Buteo lagopus)</i> | Accipitriformes | | | | | | | 3 | | 3 |
| Tawny owl | <i>(Strix aluco)</i> | Strigiformes | 1 | | | | | | 2 | | 3 |
| Common gull | <i>(Larus canus)</i> | Charadriiformes | | 1 | | | | | 3 | | 3 |
| Common merganser | <i>(Mergus merganser)</i> | Anseriformes | | 1 | | | | | 2 | | 3 |
| Lesser balck-backed gull | <i>(Larus fuscus)</i> | Charadriiformes | | | | | | | 2 | | 2 |
| Northern shoveler | <i>(Spatula clypeata)</i> | Anseriformes | 2 | | | | | | | | 2 |
| Great crested grebe | <i>(Podiceps cristatus)</i> | Podicipediformes | 2 | | | | | | | | 2 |
| Common wood pigeon | <i>(Columba palumbus)</i> | Columbiformes | 2 | | | | | | | | 2 |
| Garganey | <i>(Spatula querquedula)</i> | Anseriformes | | | | | | | 2 | | 2 |
| Duck ns | <i>(Anseriformes)</i> | | | | | | | | 2 | | 2 |
| Gadwall | <i>(Mareca strepera)</i> | Anseriformes | | | | | | | 2 | | 2 |
| Crow ns | <i>(Corvidae)</i> | Passeriformes | | | | | | 1 | 1 | | 2 |
| Scolopacidae ns | <i>(Scolopacidae)</i> | Charadriiformes | 1 | | | 1 | | | | | 2 |
| Common goldeneye | <i>(Bucephala clangula)</i> | Anseriformes | 1 | | | | | 1 | | | 2 |
| Common raven | <i>(Corvus corax)</i> | Passeriformes | | | | | | | 2 | | 2 |
| Eurasian Jackdaw | <i>(Corvus monedula)</i> | Passeriformes | | | | | | 1 | 1 | | 2 |
| Eurasian jay | <i>(Garrulus glandarius)</i> | Passeriformes | 1 | | | | | | 1 | | 2 |
| Western marsh harrier | <i>(Circus aeruginosus)</i> | Accipitriformes | | 1 | | | | | 1 | | 2 |
| Golden eagle | <i>(Aquila chrysaetos)</i> | Accipitriformes | | 1 | | | | | | | 1 |
| Tufted duck | <i>(Aythya fuligula)</i> | Anseriformes | | | | | | 1 | | | 1 |
| Merganser ns | <i>(Mergus spp)</i> | Anseriformes | 1 | | | | | | | | 1 |
| Hen harrier | <i>(Circus cyaneus)</i> | Accipitriformes | | | | | | | 1 | | 1 |
| Yellow-legged gull | <i>(Larus michahellis)</i> | Charadriiformes | | | | | 1 | | | | 1 |
| Common crane | <i>(Grus grus)</i> | Gruiformes | | | | | | | 1 | | 1 |
| Gruidae ns | <i>(Gruiformes)</i> | Gruiformes | | | | | | | 1 | | 1 |
| Common moorhen | <i>(Gallinula chloropus)</i> | Gruiformes | 1 | | | | | | | | 1 |
| Curlew sandpiper | <i>(Calidris ferruginea)</i> | Charadriiformes | | | | | | | 1 | | 1 |
| Egyptian goose | <i>(Alopochen aegyptiaca)</i> | Anseriformes | 1 | | | | | | | | 1 |
| Falcon ns | <i>(Falconidae)</i> | Falconiformes | | | | | | | 1 | | 1 |
| Little grebe | <i>(Tachybaptus ruficollis)</i> | Podicipediformes | | | | | | | 1 | | 1 |

| Common name | Scientific name | Order | H5 | H5N1 | H5N2 | H5N3 | H5N4 | H5N5 | H5N8 | H7N7 | Total |
|--------------------|-------------------------------------|------------------------|------------|------------|----------|------------|-----------|-----------|-------------|----------|-------------|
| Northern gannet | <i>(Morus bassanus)</i> | <i>Suliformes</i> | | | | | | | 1 | | 1 |
| Northern lapwing | <i>(Vanellus vanellus)</i> | <i>Charadriiformes</i> | | | | | | | 1 | | 1 |
| Northern pintail | <i>(Anas acuta)</i> | <i>Anseriformes</i> | 1 | | | | | | | | 1 |
| Short-eared owl | <i>(Asio flammeus)</i> | <i>Strigiformes</i> | | | | | | | 1 | | 1 |
| Thrushes ns | <i>(Turdidae)</i> | <i>Passeriformes</i> | 1 | | | | | | | | 1 |
| Tundra bean goose | <i>(Anser serrirostris)</i> | <i>Anseriformes</i> | | | | | | | 1 | | 1 |
| Greater scaup | <i>(Aythya marila)</i> | <i>Anseriformes</i> | | | | | | | 1 | | 1 |
| Water rail | <i>(Rallus aquaticus)</i> | <i>Gruiformes</i> | | | | | | | 1 | | 1 |
| Montagu's Harrier | <i>(Circus pygargus)</i> | <i>Accipitriformes</i> | | 1 | | | | | | | 1 |
| Finch ns | <i>(Fringillidae)</i> | <i>Passeriformes</i> | | | | | | | 1 | | 1 |
| Common murre | <i>(Uria aalge)</i> | <i>Charadriiformes</i> | | 1 | | | | | | | 1 |
| Mediterranean gull | <i>(Ichthyaetus melanocephalus)</i> | <i>Charadriiformes</i> | | | | | | | 1 | | 1 |
| Ardeidae | <i>(Ardeidae)</i> | <i>Pelecaniformes</i> | | | | | | | 1 | | 1 |
| Carrion crow | <i>(Corvus corone)</i> | <i>Passeriformes</i> | | | | | | | 1 | | 1 |
| Little egret | <i>(Egretta garzetta)</i> | <i>Pelecaniformes</i> | | | | | | | 1 | | 1 |
| Total | | | 358 | 217 | 1 | 118 | 19 | 84 | 2422 | 2 | 3221 |

*one of the wild birds was positive for both H5N8 and H5N1.

**H7N7 was not confirmed by the EURL cause of sample scarce material.