Appendix VII Summary of impacts of diseases on wildlife

| Disease name | Causative agent | Maria | | 3 | Region | Comments | OIE notifiable disease |
|----------------------------------|--|-------|--|---|---|---|------------------------------|
| African animal trypanosomosis | Protozoan trypanosomes | | | | Endemic in most of Africa. Occurs where the tsetse fly vector exists. | I mammals are trynanotolerant. Mainly spread by | |
| Amphibian chytridiomycosis | The fungus Batrachochytriu m dendrobatidis | | | | All continents except Antarctica. | Affects most species of amphibian and is a | |
| Anthrax | The bacterium Bacillus anthracis | | | | Worldwide. Endemic in southern Europe, parts of Africa, Australia, Asia and North and South America. | e. Endemic in southern arts of Africa, Australia, Asia affect almost all species of mammals | |
| Avian botulism | The bacterium Clostridium botulinum | | | | Worldwide. | Affects birds and some mammals. Caused by ingestion of a toxin produced by <i>C. botulinum</i> . | |
| Avian cholera | The bacterium Pasteurella multocida | | | | Mainly North America. Also occurs in South America, Africa, Asia, Europe and Oceania. | Most commonly affects ducks, geese, swans, shore birds, coots, gulls and crows. | |
| Avian influenza | Influenzavirus A subtypes | | | | Since 1997, highly pathogenic AI (subtype H5N1) has been reported in S.E. Asia, Europe, Africa and the Middle East. | rted in HPAI H5N1 is the cause of unprecedented AI- | |
| Avian tuberculosis | The bacterium Mycobacterium avium | | | | Worldwide. | Most commonly reported in wild waterbirds, gregarious birds, raptors and scavengers. Clinical manifestation in mammals is rare. | |
| Bovine tuberculosis | The bacterium Mycobacterium bovis | | | | Worldwide. Widespread in Africa, parts of Asia and some Middle Eastern countries.Cattle are considered the true hosts of M. bovis; responsible for elevated mortality and morbidity in wild mammals in some protected areas. | | |

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|---|--|-------|---|---|---|--|------------------------------|
| Brucellosis | Bacteria of the genus <i>Brucella</i> | | | | Worldwide. High risk areas include: the Mediterranean Basin, South and Central America, Eastern Europe, Asia, Africa . | Particularly affects cattle, swine, goats, sheep but also wild bison, elk, deer, other ruminants. Infection can cause reproductive losses. | N |
| Campylo- bacteriosis | Bacteria in the genus Campylobacter | | | | Worldwide. | Infection in wild birds and mammals often inapparent. | |
| Coral diseases | Various | | | | Reported in marine ecosystems worldwide. | Responsible for considerable ecological damage, affecting numerous species of coral (primarily the soft corals or true stony corals). | |
| Crayfish plague | Oomycete Aphanomyces astaci | | | | Widespread in Europe and North America. | All species of freshwater crayfish are considered susceptible to infection, European species have declined due to novel infection. | |
| Duck virus enteritis | Herpesvirus | | | | Reported in North America, Asia and several countries in Europe. | Can cause high seasonal mortality in ducks, geese and swans | |
| Epizootic ulcerative syndrome (EUS) | Oomycetes Aphanomyces Invadans/ piscidida | | | | Worldwide distribution. Affects 25 countries in four continents: southern Africa, Asia, Australia and North America. | Affects wild and farmed, fresh- and brackish- water fish. | N |
| <i>Escherichia coli</i> poisoning | Strains of the bacterium Escherichia coli | | | | Worldwide. | Direct release of raw sewage is a frequent source. Often inapparent in wild animals. Certain strains (O157) can cause severe disease in humans. | |
| Harmful algal blooms | Toxic species of algae | | | | Worldwide. | Occur in both saltwater and freshwater environments, particularly where there are high nutrient levels, causing high levels of mortality. | |
| Lead poisoning | Toxic lead | | | | Occurs globally and in any wetland where lead is deposited. | Particularly affects waterbirds, birds of prey, and mammals. | |

| Disease name | Causative agent | Mun | Ś | 3 | Region | Comments | OIE notifiable disease |
|-------------------------------------|---|-----|-------|---|---|--|--------------------------------|
| Leptospirosis | Bacteria from the genus <i>Leptospira</i> | | | | Worldwide. Most common in temperate or tropical climates with high rainfall. | Causes infections in many terrestrial and marine mammals. Commonly affects domestic animals and humans. | N |
| Oyster diseases | Various | | | | Worldwide.Can affect wild populations of oysters and also commercial setups. Oysters grown in contaminated areas can cause human disease. | | N |
| Peste des petits ruminants (PPR) | Peste des petits ruminants virus | | | | Considered endemic across North Africa, China and parts of the Far East. | Predominantly affects sheep and goats causing very high mortality, less severe in wildlife. | |
| Ranavirus infection | Ranaviruses | | | | Reported in the Americas, Asia, Pacific and Europe. | Significant effects on amphibians (including salamanders, toads and frogs). | N |
| Rift Valley fever | Rift Valley fever Phlebovirus | | | | Endemic in tropical regions of Eastern and Southern Africa. Cases also reported in Saudi Arabia and Yemen. | A vector-borne disease, commonly transmitted by mosquitoes. Affects most terrestrial mammals; predominantly sheep, cattle and wild ruminants. | |
| Salmonellosis | Types of <i>Salmonella</i> bacteria | | | | Worldwide. | Affects many domestic and wild animals including birds, reptiles, amphibians, fish and invertebrates. | |
| Schistosomiasis | Schistosomes (trematode worms) | | | | Most commonly found in Asia, Africa and South America in areas where the water contains freshwater snails. | Iy found in Asia, AfricaAffects many species of wild animals anderica in areas where thewildfowl, however, humans and livestock are | |
| Tick-borne diseases | Variety of pathogens | | | | As a collective TBDs occur worldwide. Usually in foci with suitable conditions for ticks and with susceptible animal hosts. | Ticks often found in grassy, wooded habitat. TBDs can affect most mammals and birds; primarily livestock, humans and companion animals. | Some TBDs are OIE listed |
| Trematode Infection of fish | Trematodes (flatworms / flukes) | | | | Worldwide. | Trematodes can parasitise many vertebrate species. Commonly fish, frogs, livestock, domestic animals, humans and some invertebrates. | |

| Disease name | Causative agent | * | 3 | Region | Comments | OIE notifiable disease |
|----------------------------|--------------------------------|---|---|---|---|------------------------------|
| West Nile virus disease | West Nile <i>Flavivirus</i> | | | Reported in Africa, Europe, the Middle East, west and central Asia, Oceania and most recently, North America. | Spread by insect vectors (primarily mosquito). Affects numerous bird species and some terrestrial mammals (including humans). | \mathbb{N} |

KEY

| Taxa syn | nbols |
|----------|--|
| Man | Invertebrates Animals without backbones – all animals except fish, amphibians, reptiles, birds and mammals. Includes corals, molluscs, insects, crustacea <i>etc</i> . |
| | Fish A group of taxa, including hagfish, lampreys, sharks and rays, ray-finned fish, bony fish, coelacanths and lungfish. |
| | Amphibians and reptiles (together known as herpetafauna) Animals from the classes Amphibia (such as frogs, salamanders and caecilians) and Reptilia (such as crocodiles, lizards and turtles). |
| 3 | Birds Animals from the class Aves. |
| Ĩn | Mammals Animals from the class Mammalia. |

| Impact colours | | | | | | | | | | |
|----------------|-----------------|--|-------------|--|--|--|--|--|--|--|
| | Severe impact | | Mild impact | | | | | | | |
| | Moderate impact | | No impact | | | | | | | |