

## CHAPTER 8.18.

### WEST NILE FEVER

#### Article 8.18.1.

##### General provisions

West Nile fever (WNF) is a zoonotic *disease* caused by certain strains of the mosquito transmitted West Nile virus (WNV).

For the purpose of this chapter, the susceptible species are equidae, geese, ducks (under study) and birds other than *poultry*.

WNV is maintained in a mosquito–bird–mosquito transmission cycle, whereas humans and equidae are considered dead-end hosts. Most human *infections* occur by natural transmission from mosquitoes.

In relation to domestic animal trade, geese and ducks pose a *risk* for the spread of the WNV as some species have been documented to develop a viraemia sufficient to infect mosquitoes.

*Surveillance* for WNF should be carried out in accordance with Chapter X.X.

The following criteria define the occurrence of WNF:

- 1) WNV has been isolated from an *animal* that shows signs consistent with WNF; or
- 2) antigen or ribonucleic acid specific to WNV has been identified in samples from one or more *animals* that show clinical signs consistent with WNF, or that is epidemiologically linked to a confirmed or suspected *outbreak* of WNF; or
- 3) antibodies to WNV have been identified in an unvaccinated *animal* that shows clinical signs consistent with WNF, or that is epidemiologically linked to a confirmed or suspected *outbreak* of WNF.

For the purposes of the *Terrestrial Code*, the *incubation period* for WNF shall be 15 days.

When authorising import or transit of the *commodities* covered in the chapter, with the exception of those listed in Article 8.18.2., *Veterinary Authorities* should require the conditions prescribed in this chapter relevant to the WNF status of the *exporting country* or *zone*.

Standards for diagnostic tests and vaccines are described in the *Terrestrial Manual*.

#### Article 8.18.2.

##### Safe commodities

Member Countries should not impose trade restrictions on dead-end hosts such as horses.

When authorising import or transit of the following *commodities* and any products made from these, *Veterinary Authorities* should not require any WNV related conditions, regardless of the WNF status of the *exporting country* or *zone*:

- 1) *hatching eggs*;
- 2) *eggs* for human consumption;
- 3) *egg products*;
- 4) *poultry semen*;
- 5) *fresh meat* and *meat products* of *poultry*;
- 6) *products* of *poultry* origin intended for use in animal feeding, or for agricultural or industrial use;
- 7) *feathers* and *down* from *poultry*;
- 8) *semen* of horses;
- 9) *meat* and *meat products* of horses.

Article 8.18.3.

**WNF free country or zone**

- 1) A country or *zone* may be considered free from WNF when WNF is notifiable in the whole country and either:
  - a) no occurrence of WNF *cases*, where *infection* occurred within the territory of the Member Country, have been recorded for the past two years; or
  - b) a *surveillance* programme in accordance with Chapter X.X. has demonstrated no evidence of WNV in the country or *zone* during the past two years.
- 2) A WNF free country or *zone* will not lose its free status through the importation from WNF infected countries or *zones* of:
  - a) seropositive *animals*;
  - b) semen, embryo or ova;
  - c) *animals* vaccinated in accordance with the *Terrestrial Manual* at least 30 days prior to dispatch, and are identified in the accompanying certification as having been vaccinated; or
  - d) *animals* not vaccinated if a *surveillance* programme in accordance with Chapter X.X. has been in place in the source population for a period of 30 days immediately prior to dispatch, and no evidence of WNV transmission has been detected.

Article 8.18.4.

**WNF seasonally free country or zone**

- 1) A WNF seasonally free country or *zone* is one in which for part of a year, *surveillance* demonstrates no evidence either of WNV transmission or presence of mosquitoes likely to be competent WNV *vectors*.
- 2) For the application of Article 8.18.6., the seasonally free period is taken to commence 21 days following the last evidence of WNV transmission (as demonstrated by the *surveillance* programme), or the cessation of activity of mosquitoes likely to be competent WNV *vectors*.
- 3) For the application of Article 8.18.6., the seasonally free period is taken to conclude either:
  - a) at least 21 days before the earliest date that historical data show WNV transmission cycle has recommenced; or
  - b) immediately if current climatic data or data from a *surveillance* programme indicate an earlier resurgence of activity of mosquitoes likely to be competent WNV *vectors*.
- 4) A WNF seasonally free country or *zone* will not lose its free status through the importation from WNF infected countries or *zones* of:
  - a) seropositive *animals*;
  - b) semen, embryo or ova;
  - c) *animals* vaccinated in accordance with the *Terrestrial Manual* at least 30 days prior to dispatch, and are identified in the accompanying certification as having been vaccinated; or
  - d) *animals* not vaccinated if a *surveillance* programme in accordance with Chapter X.X. has been in place in the source population for a period of 30 days immediately prior to dispatch, and no evidence of WNV transmission has been detected.

Article 8.18.5.

**Recommendations for importation from WNF free countries or zones**

For ducks (under study), geese and birds other than poultry

Veterinary Authorities should require the presentation of an *international veterinary certificate* attesting that:

- 1) the *animals* were kept in a WNF free country or *zone* since birth or for at least 30 days prior to shipment; or
- 2) the *animals* were kept in a WNF free country or *zone* for at least 15 days, were subjected, with negative results, to an agent identification test in accordance with the *Terrestrial Manual* carried out on a sample collected at least 3 days after the commencement of the residence period and remained in the WNF free country or *zone* until shipment; or

- 3) the *animals*:
  - a) were vaccinated in accordance with the *Terrestrial Manual* 30 days before introduction into the free country or zone; and
  - b) were identified as having been vaccinated; and
  - c) were kept in a WNF free country or zone for at least 15 days; and
  - d) remained in the WNF free country or zone until shipment;

AND

- 4) if the *animals* were exported from a WNF free zone, either:
  - a) did not transit through an infected country or zone during transportation to the *place of shipment*; or
  - b) were protected from mosquito attacks at all times when transiting through an infected country or zone; or
  - c) had been vaccinated in accordance with point 3 above.

#### Article 8.18.6.

#### **Recommendations for importation from WNF seasonally free countries or zones**

For ducks (under study), geese and birds other than poultry

*Veterinary Authorities* should require the presentation of an *international veterinary certificate* attesting that the *animals*:

- 1) were kept during the seasonally free period in a WNF seasonally free country or zone since birth or for at least 30 days prior to shipment; or
- 2) were kept during the WNF seasonally free period in a WNF seasonally free country or zone for at least 15 days prior to shipment, and were subjected during the residence period in the country or zone to an agent identification test in accordance with the *Terrestrial Manual*, with negative results, carried out on a sample collected at least 3 days after the commencement of the residence period and remained in the WNF seasonally free country or zone until shipment; or
- 3) were kept during the seasonally free period in a WNF seasonally free country or zone for at least 15 days prior to shipment, and were vaccinated in accordance with the *Terrestrial Manual* 30 days before introduction into the free country or zone against WNF, were identified as having been vaccinated and remained in the WNF seasonally free country or zone until shipment;

AND

- 4) if the *animals* were exported from a WNF seasonally free country or zone, either:
  - a) did not transit through an infected country or zone during transportation to the *place of shipment*; or
  - b) were protected from mosquito attacks at all times when transiting through an infected country or zone; or
  - c) were vaccinated in accordance with point 3 above.

#### Article 8.18.7.

#### **Recommendations for importation from WNF infected countries or infected zones**

For ducks (under study) and geese

*Veterinary Authorities* should require the presentation of an *international veterinary certificate* attesting that the *animals*:

- 1) were protected from mosquito attacks for at least 30 days prior to shipment; or
- 2) were subjected to a serological test in accordance with the *Terrestrial Manual* to detect WNV neutralising antibodies with positive results; or
- 3) were protected from mosquito attacks for at least 15 days prior to shipment, and were subjected during that period to an agent identification test in accordance with the *Terrestrial Manual*, with negative results, carried out on a sample collected at least 3 days after being introduced in the mosquito-free zone; or
- 4) were vaccinated at least 30 days before shipment in accordance with the *Terrestrial Manual* against WNV and were identified in the accompanying certification as having been vaccinated; or
- 5) are not vaccinated and a *surveillance* programme in accordance with Chapter X.X. has been in place in the source population for a period of 30 days immediately prior to shipment, and no evidence of WNV transmission has been detected;

AND

- 6) were protected from mosquito attacks during transportation to the *place of shipment*.

Article 8.18.8.

**Recommendations for the importation from WNF infected countries or zones**

For birds other than poultry

*Veterinary Authorities* should require the presentation of an *international veterinary certificate* attesting that:

- 1) the birds showed no clinical sign of WNF on the day of shipment; and
- 2) the birds were kept in a *quarantine station* in a mosquito-free environment for 30 days prior to shipment and a statistically valid sample was subjected, with negative results, to an agent identification test in accordance with the *Terrestrial Manual* at least 3 days after the commencement of the residence period.

Article 8.18.9.

**Protecting animals from mosquito attacks**

When transporting *animals* through WNF infected countries or *zones*, *Veterinary Authorities* should require strategies to protect susceptible *animals* from mosquito attacks during transport, taking into account the local ecology of the mosquitoes.

Potential *risk management* strategies include:

- 1) treating *animals* with insect repellents prior to and during transportation;
  - 2) ensuring *vehicles* do not stop en route unless the *animals* are held behind insect-proof netting;
  - 3) *surveillance* for *vectors* at common stopping and offloading points to gain information on seasonal variations;
  - 4) integrated pest management practices at holding, common stopping and offloading points;
  - 5) using historical, ongoing and/or WNF modelling information to identify low risk ports and transport routes.
-