

# Contexte: Accord *SPS Agreement*, *Code aquatique* et *Manual aquatique*

Séminaire régional de l'OIE pour les points focaux animaux aquatiques  
Dar es Salaam, Tanzanie, 2-4 décembre 2018



**ORGANISATION MONDIALE DE LA SANTÉ ANIMALE**  
*Protéger les animaux, préserver notre avenir*

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Chargée de Mission, Services des Normes de l'OIE

# Objectives

- Testez vos connaissances
- Accord SPS de l'OMC sur l'application des mesures sanitaires et phytosanitaires
- Nouveautés dans le *Code Aquatique* et le *Manuel aquatique* depuis 2015

- Testez vos connaissances

En groups de 2 ou 3 personnes, répondez aux 8 questions::

Afin de vous aider, vous pouvez consulter le *Code* et le *Manuel aquatique*.

Vous avez 15 minutes !

# Réponses et explications

Accord de l'OMC sur les mesures  
sanitaires et phytosanitaires  
(Accord SPS de l'OMC)

# Contexte : Quel est l'objective de l'Accord SPS?

Reconnaissant le droit de chaque pays à la protection de la santé et de la vie des personnes et des animaux ou à la préservation des végétaux



Eviter toute entrave inutile au commerce

Entrée en vigueur avec la création de l'OMC le 1 janvier 1995



## Justification scientifique *Article 2.2.*



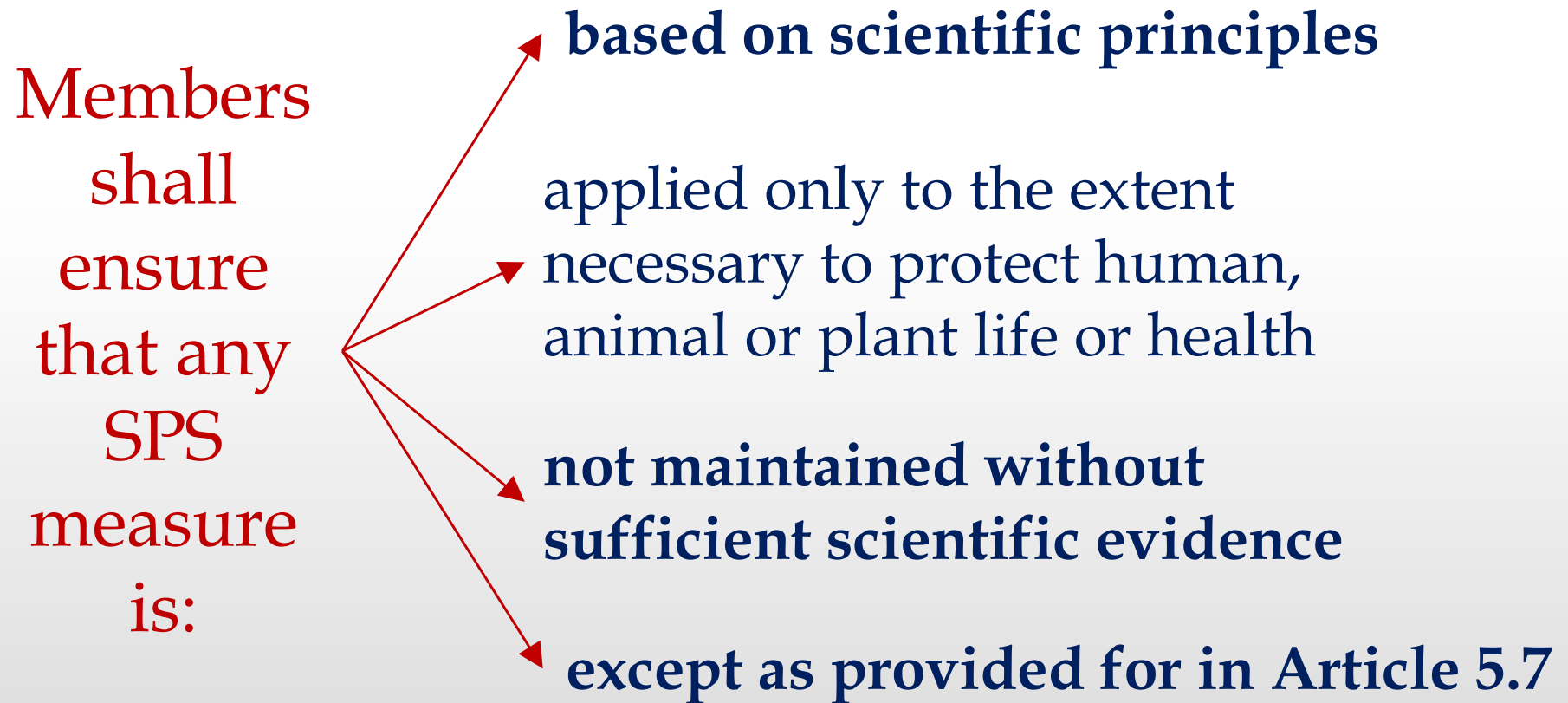
**1A** Les gouvernements feront en sorte que les mesures sanitaires soit fondées sur des principes scientifiques.



**1B** Les gouvernements doivent baser ses mesures SPS sur les principes économiques.

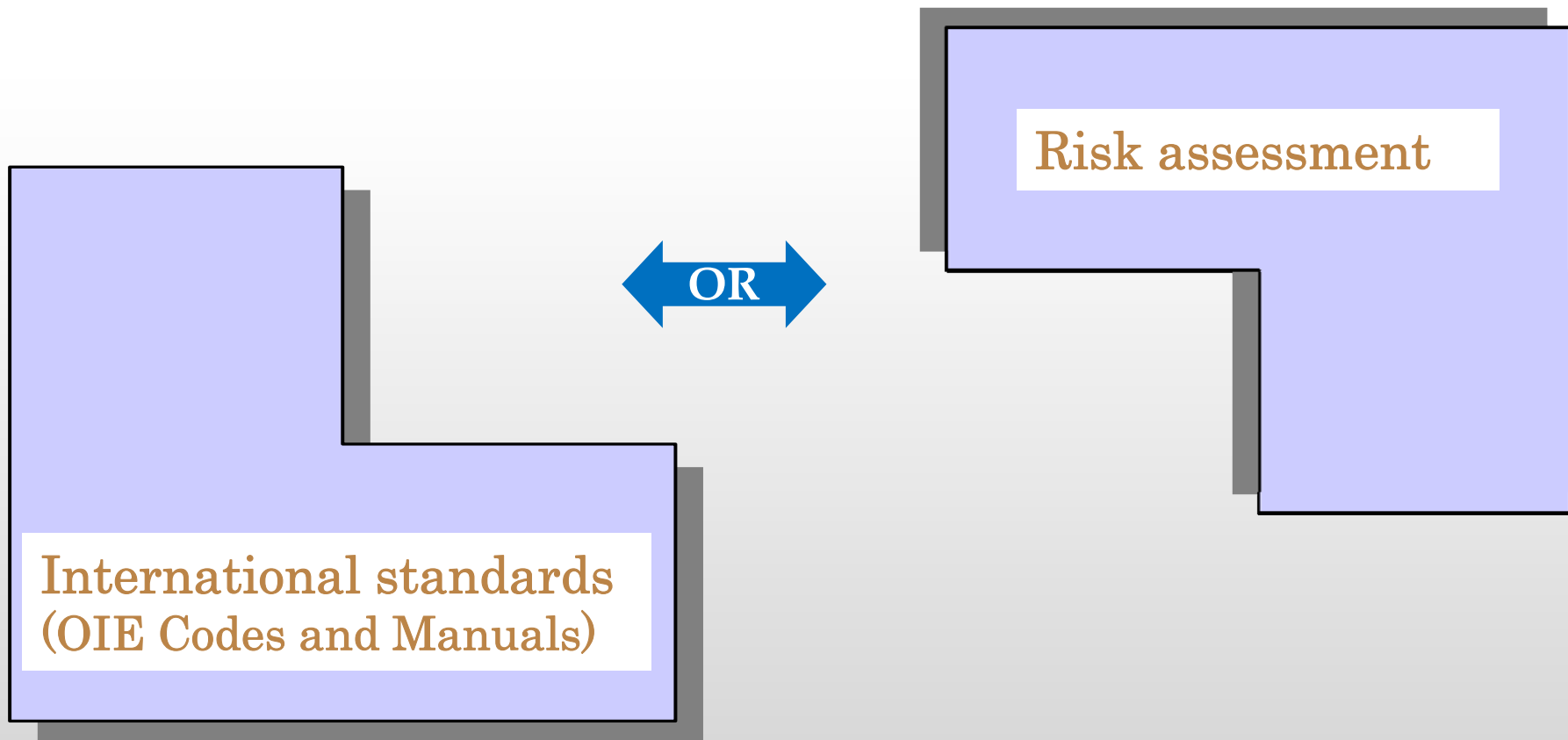
# SPS Agreement

## Scientific Justification *Article 2.2.*



# SPS Agreement: Scientific Justification

Measures must be based on:





## International Standard-Setting Organisations (the '3 sisters')



**'Harmonisation' - WTO Members shall base their SPS measures on international standards, where they exist**



# SPS Agreement Non-discrimination



**2A** SPS measures shall not differentiate between different foreign sources of supply.



**2B** Under certain conditions, SPS measures may differentiate between different foreign sources of supply.



# SPS Agreement

## Non-discrimination *Article 2.3.*

No **unjustifiable** discrimination  
between Members with similar  
conditions

e.g. you cannot put in place sanitary measures for  
a disease present in your country unless it is  
under official control



# SPS Agreement

## Scientific Justification



**3A** SPS measures which conform to an international standard are presumed to be consistent with the SPS Agreement.



**3B** SPS measures which conform to an international standard must be proven to be consistent with the SPS Agreement.

# SPS Agreement

## Scientific Justification *Article 3.2*

'Measures that conform to international standards shall be deemed to be necessary to protect human, animal or plant life or health, and presumed to be consistent with the relevant provisions of this Agreement....'

i.e. complying with OIE standards means you comply with WTO SPS Agreement obligations.

# What is new in the *Aquatic Code* and *Aquatic Manual* since 2015?

# Aquatic Animal Health Code



**2018**  
21st  
Edition

# Manual of Diagnostic Tests for Aquatic Animals



Seventh Edition  
**2016**



## Q4: OIE listed diseases



**4A** Since 2015, the following diseases have been added to the Ch 1.3. *Diseases listed by the OIE:* Acute hepatopancreatic necrosis disease, Infection with *Batrachochytrium salamandrivorans* and Tilapia lake virus.



**4B** Since 2015, the following diseases have been added to the Ch 1.3. *Diseases listed by the OIE:* Acute hepatopancreatic necrosis disease and Infection with *Batrachochytrium salamandrivorans*.



## CHAPTER 1.3.

### DISEASES LISTED BY THE OIE

**Preamble:** The following *diseases* are listed by the OIE in accordance with the criteria for listing an *aquatic animal disease* (see Article 1.2.2.).

In case of modifications of this list of *aquatic animal diseases* adopted by the World Assembly of Delegates, the new list comes into force on 1 January of the following year.

#### Article 1.3.1.

The following *diseases* of fish are listed by the OIE:

- + Epizootic haematopoietic necrosis disease
- + Infection with *Aphanomyces invadans* (epizootic ulcerative syndrome)
- + Infection with *Gyrodactylus salaris*
- + Infection with HPR-deleted or HPR0 infectious salmon anaemia virus
- + Infection with salmonid alphavirus
- + Infectious haematopoietic necrosis
- + Koi herpesvirus disease
- + Red sea bream iridoviral disease
- + Spring viraemia of carp
- + Viral haemorrhagic septicaemia.

#### Article 1.3.3.

The following *diseases* of crustaceans are listed by the OIE:

- + Acute hepatopancreatic necrosis disease
- + Infection with *Aphanomyces astaci* (crayfish plague)
- + Infection with *Hepatobacter penaei* (necrotising hepatopancreatitis)
- + Infection with infectious hypodermal and haematopoietic necrosis virus
- + Infection with infectious myonecrosis virus
- + Infection with *Macrobrachium rosenbergii* nodavirus (white tail disease)
- + Infection with Taura syndrome virus
- + Infection with white spot syndrome virus
- + Infection with yellow head virus genotype 1.

#### Article 1.3.4.

The following *diseases* of amphibians are listed by the OIE:

- + Infection with *Batrachochytrium dendrobatidis*
- + Infection with *Batrachochytrium salamandrivorans*
- + Infection with *Ranavirus* species

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- + Infection with yellow head virus genotype 1.

#### **AHPND**

- listed in 2015;
- new *Aquatic Code* Ch 9.1. adopted in 2017;
- new *Aquatic Manual* Ch 2.2.1. adopted in 2017.

#### Article 1.3.4.

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- + Infection with *Batrachochytrium dendrobatidis*
- + Infection with *Batrachochytrium salamandrivorans*
- + Infection with *Ranavirus* species

#### **Bsal**

- listed in 2017;
- new draft *Aquatic Code* Ch 8.X. circulated for comment in Commission's Sept 2017 report;
- new draft *Aquatic Manual* chapter awaiting application of Ref Lab expert.

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### Tilapia lake virus (TiLV)

- not a listed disease
- assessed against listing criteria in Ch 1.2. in 2016/2017 but does not meet criterion 3 because of 'insufficient information concerning analytical and diagnostic specificity and sensitivity of the assay'
- ongoing assessment by Commission.

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## NOTE:

### ‘Infection with pathogenic agent X’

- new accepted convention
- gradually being applied to all disease names
- Consistent with approach in *Terrestrial Code*
- AHPND the exception because scientific information on the disease aetiology continues to evolve.

# NOTE

- revised criteria in Chapter 1.2. adopted in 2017
- to align with criteria in *Terrestrial Code*

## CHAPTER 1.2.

### CRITERIA FOR LISTING AQUATIC ANIMAL DISEASES

#### Article 1.2.1.

##### Introduction

This chapter describes the criteria for the inclusion of *diseases* in Chapter 1.3.

The objective of listing *diseases* is to support Member Countries by providing information needed to take appropriate action to prevent the transboundary spread of important *diseases* of *aquatic animals*. This is achieved by transparent, timely and consistent *notifications*.

Each *listed disease* usually has a corresponding chapter that assists Member Countries in the harmonisation of *disease* detection, prevention and control, and provides standards for safe *international trade* in *aquatic animals* and *aquatic animal products*.

The requirements for *notifications* are detailed in Chapter 1.1.

Principles and methods of validation of diagnostic tests are described in Chapter 1.1.2. of the *Aquatic Manual*.

#### Article 1.2.2.

The criteria for the inclusion of a *disease* in the OIE list are as follows:

1. International spread of the *pathogenic agent* (via *aquatic animals*, *aquatic animal products*, *vectors* or fomites) is likely.

AND

2. At least one country may demonstrate country or *zone* freedom from the *disease* in susceptible *aquatic animals*, based on provisions of Chapter 1.4.

AND

3. A precise *case definition* is available and a reliable means of detection and *diagnosis* exists.

AND

## 5A. What chapter(s) in Section 4 of the *Aquatic Code* have been amended since January 2015?

### SECTION 4.

Chapter 4.1.

Chapter 4.2.

Chapter 4.3.

Chapter 4.4.

Chapter 4.5.

Chapter 4.6.

Chapter 4.7.

Chapter 4.8.

### DISEASE PREVENTION AND CONTROL

Zoning and compartmentalisation

Application of compartmentalisation

Disinfection of aquaculture establishments and equipment

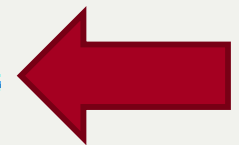
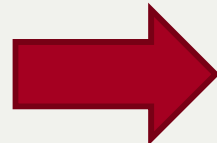
Recommendations for surface disinfection of salmonid eggs

Contingency planning

Fallowing in aquaculture

Handling, disposal and treatment of aquatic animal waste

Control of pathogenic agents in aquatic animal feed



# 5A. What chapter(s) in Section 4 of the *Aquatic Code* have been amended since January 2015?

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Major revision  
2017

Major revision  
2015

New Ch  
2015

## 5B. How do you know what chapters are new or recently amended?

- Look at the end of each chapter;
- It notes the year the chapter was first adopted; and the year of last revision.

### Article 4.4.2.

#### Disinfection protocol for salmonid eggs

This *disinfection* protocol may be applied to newly fertilised or eyed salmonid *eggs*. However newly fertilised *eggs* should be allowed to commence hardening prior to undergoing the *disinfection* protocol. Although there is a considerable margin of safety for hardened *eggs*, the *disinfection* protocol is not recommended for unfertilised ova or during fertilisation. It is essential that the pH of the iodophore solution is maintained between 6 and 8.

To disinfect salmonid *eggs* the following protocol should be applied:

1. rinse in pathogen-free 0.9% to 1.1.% saline (30-60 seconds) to remove organic matter; then
2. immerse in an iodophore solution containing 100 ppm available iodine for a minimum of 10 minutes. The iodophore concentration should be monitored to ensure effective levels are maintained. The ratio of *eggs* to iodophore solution should be a maximum of 1:4; then
3. rinse again in pathogen-free 0.9% to 1.1.% saline for 30-60 seconds; then
4. hold in pathogen-free water.

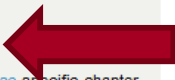
All rinsing and *disinfection* solutions should be prepared using pathogen free water. Iodophore solutions may be buffered using sodium bicarbonate ( $\text{NaHCO}_3$ ) if the pH is low.

NB: FIRST ADOPTED IN 2015; MOST RECENT UPDATE ADOPTED IN 2017.




# 6. What chapter in the *Aquatic Code* describes the criteria for listing species as susceptible? When was this chapter first adopted?

CHAPTER 1.5.  
**CRITERIA FOR LISTING SPECIES AS SUSCEPTIBLE TO INFECTION WITH A SPECIFIC PATHOGEN**

Article 1.5.1. 

The purpose of this chapter is to provide criteria for determining which species are listed as susceptible in Article 1.5.2 of each *disease-specific* chapter in the *Aquatic Code*.

Article 1.5.2. 

**Scope**

Susceptibility may include clinical or non-clinical *infection* but does not include species that may carry the *pathogenic agent* without replication.

The decision to list a species as susceptible should be based on a finding that the evidence is definite. However, possible susceptibility of a species is also important information and this should also be included in Section 2.2.1. entitled «Susceptible host species» of the relevant *disease-specific* chapter of the *Aquatic Manual*.

Article 1.5.3.

**Approach**

A three-stage approach is outlined in this chapter to assess susceptibility of a species to *infection* with a specified *pathogenic agent* and is based on:

1. criteria to determine whether the route of transmission is consistent with natural pathways for the *infection* (as described in Article 1.5.4.);
2. criteria to determine whether the *pathogenic agent* has been adequately identified (as described in Article 1.5.5.);
3. criteria to determine whether the evidence indicates that presence of the *pathogenic agent* constitutes an *infection* (as described in Article 1.5.6.).


Article 1.5.8.

**Species for which there is incomplete evidence for susceptibility**

The decision to list a species as susceptible in Article 1.5.2. of each *disease-specific* chapter should be based on a finding that the evidence is definite.

However, where there is insufficient evidence to demonstrate susceptibility through the approach described in Article 1.5.3. because transmission does not mimic natural pathways of *infection*, or the identity of the *pathogenic agent* has not been confirmed, or *infection* is only partially supported, information will be included in the relevant *disease-specific* chapter in the *Aquatic Manual*.

If there is insufficient evidence to demonstrate susceptibility of a species, the *Competent Authority* should assess the risk of spread of the pathogen under consideration, in accordance with the recommendations in Chapter 2.1., prior to the implementation of import health measures.

NB: FIRST ADOPTED IN 2014; MOST RECENT UPDATE ADOPTED IN 2016. 

## Chapter 1.5. Article 1.5.1.

*“The purpose of this chapter is to provide criteria for determining which species are listed as susceptible in Article X.X.1. of each disease-specific chapter in the Aquatic Code.”*

*“first adopted in 2014; most recent update adopted in 2016”*

## 7. What crustacean disease-specific chapters in the *Aquatic Code* have had the list of susceptible species assessed against the criteria in Ch 1.5.?

Ch 9.1. Acute hepatopancreatic necrosis disease

~~Ch 9.2. Infection with *Aphanomyces astaci* (crayfish plague)~~

Ch 9.3. Infection with *Hepatobacter penaei* (necrotising hepatopancreatitis)

Ch 9.4. Infection with infectious hypodermal and haematopoietic necrosis virus

Ch 9.5. Infection with infectious myonecrosis virus

Ch 9.6. Infection with *Macrobrachium rosenbergii* nodavirus (white tail disease)

Ch 9.7. Infection with Taura syndrome virus

~~Ch 9.8. Infection with white spot syndrome virus~~

Ch 9.9. Infection with yellow head virus genotype 1

- *Changes to Articles 9.X.1. adopted in 2017 EXCEPT Ch 9.2. and 9.8.*
- *Assessments were undertaken by the ad hoc Group on 'Susceptibility of crustacean species to infection with OIE listed diseases'*
- *All ad hoc Group reports are available on the OIE website at:  
<http://www.oie.int/en/standard-setting/specialists-commissions-working-groups/scientific-commission-reports/ad-hoc-groups-reports/>*

## 7. What crustacean disease-specific chapters in the *Aquatic Code* have had the list of susceptible species assessed against the criteria in Ch 1.5.?

### Why not:

~~Ch 9.2. Infection with *Aphanomyces astaci* (crayfish plague) and  
Ch 9.8. Infection with white spot syndrome virus?~~

- *Susceptible species listed in Ch 9.2. and Ch 9.8. have not been amended because application of the current criteria to these diseases may result in substantial reductions in the list of susceptible species, which may have implications for international trade.*
- *A new Article 1.5.9. has been proposed and circulated for comment for Chapter 1.5. 'Criteria for listing species as susceptible', to address their application to diseases with a broad host range.*
- *Follow Commission reports for next steps.*

## What about reviewing list of susceptible species other OIE listed diseases?

- *Work is now underway to assess lists of susceptible species for OIE listed **fish** diseases*
- *Assessments are being undertaken by the ad hoc Group on ‘Susceptibility of fish species to infection with OIE listed diseases’*
- *Proposed amendments were circulated for comment in the Commission’s Sept. 2017 report for:*
  - *Ch 10.1. Epizootic haematopoietic necrosis*
  - *Ch 10.3. Infection with Gyrodactylus salaris and*
  - *Ch 10.4. Infection with infectious salmon anaemia virus*
- *Assessments will progressively be undertaken for mollusc and amphibian listed disease.*

## 8. What crustacean disease-specific chapters in the *Aquatic Manual* have had Section 2.2. Host factors amended regarding susceptible species?

Ch 2.2.1. Acute hepatopancreatic necrosis disease

~~Ch 2.2.2. Infection with *Aphanomyces astaci*~~

Ch 2.2.3. Infection with *Hepatobacter penaei*

Ch 2.2.4. Infection with infectious hypodermal and haematopoietic necrosis virus

Ch 2.2.5. Infection with infectious myonecrosis virus

Ch 2.2.6. Infection with *Macrobrachium rosenbergii nodavirus*

Ch 2.2.7. Infection with Taura syndrome virus

~~Ch 2.2.8. White spot disease~~

Ch 2.2.9. Infection with yellow head virus genotype 1

- *Changes to Section 2.2. adopted in 2017 EXCEPT Chapters 2.2.2. and 2.2.8. - awaiting outcomes of proposed amendments to Chapter 1.5.*
- *Assessments were undertaken by the ad hoc Group on ‘Susceptibility of crustacean species to infection with OIE listed diseases’*
- *Ad hoc Group reports are available on the OIE website at:*  
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## What is the impact on application of criteria in Ch 1.5. on susceptible species listed in the *Aquatic Manual* chapters?

- *After assessments Section 2.2. 'Host factors' in disease-specific chapters in the Manual will only include 'Species with incomplete evidence for susceptibility'*  
***i.e. susceptible species will only be listed in Article X.X.1. of disease-specific Aquatic Code chapters***
- *Objective is to provide clear guidance on susceptible species, based on a robust criteria and scientifically based assessments*

## How to you find more information about amendments in the *Aquatic Code and Manual* and the rationale for changes?

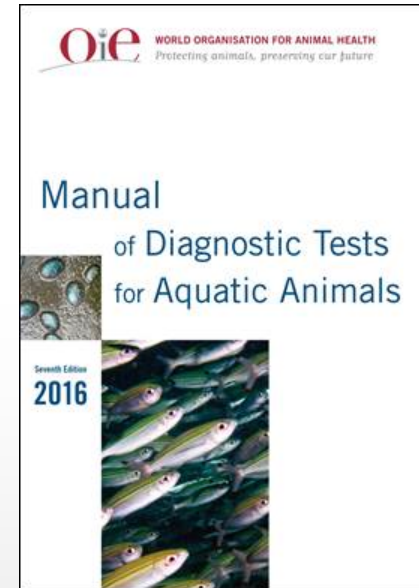
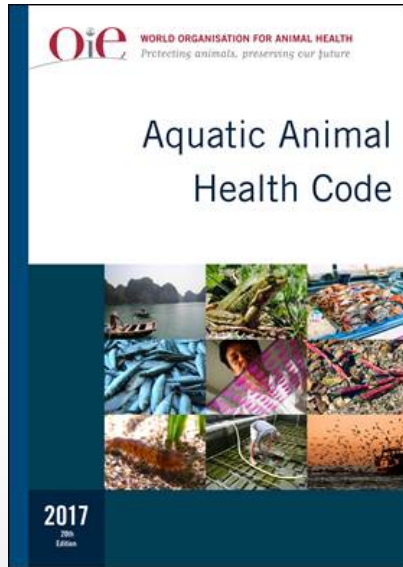
- *Read Aquatic Animal Commission reports – more later in this*

*<http://www.oie.int/international-standard-setting/specialists-commissions-groups/aquatic-animal-commission-reports/meeting-reports/>*

- *Ad hoc Group reports – easier access on new webpage:*

*<http://www.oie.int/standard-setting/specialists-commissions-working-groups/scientific-commission-reports/ad-hoc-groups-reports/>*

# If the Code and Manual are new to you?



- Read the **User's Guide** of the *Aquatic Code*
- Read the **Introduction** of the *Aquatic Manual*
- *these sections provide an overview / context.*



Thank you  
Questions?

