

AQUATIC ANIMAL DISEASE REPORT - 2021

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Country/territory:	Malaysia															
Item	Disease status/occurrence code a/b/ Month												Level of diagnosis	Epidemiologi- cal comment numbers		
DISEASES PREVALENT IN THE REGION																
FINFISH DISEASES	January	February	March	April	May	June	July	August	September	October	November	December				
OIE-listed diseases																
1. Infection with epizootic haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	I,II,III	1		
2. Infection with infectious haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
3. Infection with spring viremia of carp virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
4. Infection with viral haemorrhagic septicæmia virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
5. Infection with <i>Aphanomyces invadans</i> (EUS)	-	-	-	-	-	-	-	-	-	-	-	-				
6. Infection with red sea bream iridovirus	-	-	-	-	-	-	-	-	-	-	-	-				
7. Infection with koi herpesvirus	-	-	-	-	-	-	-	-	-	-	-	-				
Non OIE-listed diseases																
8. Grouper iridoviral disease	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	III	2		
9. Viral encephalopathy and retinopathy	-	-	-	-	-	-	-	-	-	-	-	-				
10. Enteric septicæmia of catfish	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
11. Carp Edema Virus Disease	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
12. Tilapia lake virus (TiLV)	-	-	-	-	-	-	-	-	-	-	-	-				
MOLLUSC DISEASES																
OIE-listed diseases																
1. Infection with <i>Bonamia exitiosa</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	4	3		
2. Infection with <i>Perkinsus olseni</i>	-	-	-	-	-	-	-	-	-	-	-	-				
3. Infection with abalone herpesvirus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
4. Infection with <i>Xenohaliotis californiensis</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
5. Infection with <i>Bonamia ostreae</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
Non OIE-listed diseases																
6. Infection with <i>Marteiloides chungmuensis</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	III	2		
7. Acute viral necrosis (in scallops)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
CRUSTACEAN DISEASES																
OIE-listed diseases																
1. Infection with Taura syndrome virus	-	-	-	-	-	-	-	-	-	-	-	-	I,III	6		
2. Infection with white spot syndrome virus	-	-	-	-	-	-	-	-	-	-	-	-				
3. Infection with yellow head virus genotype 1	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
4. Infection with infectious hypodermal and haematopoietic necrosis virus	+?()	+?()	+?()	+?()	+?()	+?()	+?()	+?()	+?()	+?()	+?()	+?()				
5. Infection with infectious myonecrosis virus	-	-	-	-	-	-	-	-	-	-	-	-				
6. Infection with <i>Macrobrachium rosenbergii</i> nodavirus (White Tail disease)	-	-	-	-	-	-	-	-	-	-	-	-				
7. Infection with <i>Hepatobacter penaei</i> (Necrotising hepatopancreatitis)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	III	7		
8. Acute hepatopancreatic necrosis disease (AHPND)	+()	+()	+()	+()	+()	+()	+()	+()	+()	+()	+()	+()				
9. Infection with <i>Aphanomyces astaci</i> (Crayfish plague)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
Non OIE-listed diseases																
10. Hepatopancreatic Microsporidiosis caused by <i>Enterocytozoon hepatopenaei</i> (HPM-EHP)	+()	+()	+()	+()	+()	+()	+()	+()	+()	+()	+()	+()				
11. Viral covert mortality disease (VCMD) of shrimps	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
12. <i>Spiroplasma eriocheiridis</i> infection	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
13. Decapod iridescent virus 1 (DIV-1)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
AMPHIBIAN DISEASES																
OIE-listed diseases																
1. Infection with <i>Ranavirus</i> species	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	III	8		
2. Infection with <i>Batrachochytrium dendrobatidis</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
3. Infection with <i>Batrachochytrium salamandrivorans</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				

Prepared by:

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ANY OTHER DISEASES OF IMPORTANCE

1

2

DISEASES PRESUMED EXOTIC TO THE REGION^b

Finfish: Infection with HPR-deleted or HPRO salmon anaemia virus
Infection with *Gyrodactylus salaris*.

NOT LISTED BY THE QIE

NOT LISTED BY THE OIE

a/ Please use the following occurrence code:

Please use the following citation code:

Occurrence code and symbol

<u>Occurrence code and symbol</u>	<u>Definition</u>	<u>Occurrence code and symbol</u>	<u>Definition</u>
Disease present + Disease limited to one or more zones +(Infection/infestation +? Infection/infestation limited to one or more zones +?() Disease suspected ? Disease suspected but not confirmed and limited to one or more zones ?(The presence of the disease was suspected but not confirmed (in domestic species or wildlife) The presence of the disease was suspected but not confirmed and limited to one or more zones/compartments (in domestic species or wildlife)	The disease is present with clinical signs in the whole country (in domestic species or wildlife) The disease is present with clinical signs, and limited to one or more zones/compartments (in domestic species or wildlife) Confirmed infestation or infection using diagnostic tests, but no clinical signs observed (in domestic species or wildlife) Confirmed infestation or infection using diagnostic tests, but no clinical signs observed and limited to one or more zones/compartments (in domestic species or wildlife) The presence of the disease was suspected but not confirmed (in domestic species or wildlife) The presence of the disease was suspected but not confirmed and limited to one or more zones/compartments (in domestic species or wildlife)	Disease absent - Never reported 0000 No information ***	The disease was absent in the country during the reporting period (in domestic species or wildlife). The disease has "never been reported" (historically absent) for the whole country in domestic species and wildlife. No information is available regarding the presence or the absence of this disease during the reporting period (in domestic species or wildlife).

b/ If there is any changes on historical data, please highlight in RED

1. Epidemiological comments: (Comments should include: 1) Origin of the disease or pathogen (history of the disease); 2) Species affected; 3) Disease characteristics (unusual clinical signs or lesions); 4) Pathogen (isolated/sero-typed); 5) Mortality rate (high/low; decreasing/increasing); 6) Death toll (economic loss, etc); 7) Size of infected areas or names of infected areas; 8) Preventive/control measures taken; 9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories); 10) Published paper (articles in journals/website, etc). and 11) Unknown diseases: describe details as much as possible.)	
Comment No.	
1	<p>Koi herpesvirus disease (KHV) Known to occur previously in the state of Selangor (2017). Last occurrence was in state of Perak (April and June 2019)</p>
2	<p>Viral encephalopathy and retinopathy (VER)/ (VNN) No positive case was detected (PCR) during DoF active surveillance programme. The disease is known to occur previously in the state of Perak (2015) and Kelantan (May 2015).</p>
3	<p>Tilapia lake virus (TiLV) No positive case was detected (PCR) during DoF active surveillance programme The disease is known to have occurred previously in Kedah (June 2017), Perlis (July 2017), Sarawak (July 2017), Negeri Sembilan (October 2017), Kedah and Sarawak (March 2018), and Terengganu (July 2018).</p>
4	<p>Infection with Perkinsus olseni No positive case was detected (PCR) during DoF active surveillance programme. Infection with Perkinsus olseni was suspected to occur in 2016, but not confirmed in a zone.</p>
5	<p>Infection with infectious hypodermal and haematopoietic necrosis virus (IHHNV) 1) Reported from DOF Active Surveillance. 2) Species affected: <i>Penaeus vannamei</i> and <i>Penaeus monodon</i> 3) Disease signs: No signs 4) Pathogen: infectious hypodermal and haematopoietic necrosis virus 5) Mortality rate: Unknown 6) Economic loss: Unknown 7) Names of infected areas: Selangor (8 April) and Pahang (20 May). 8) Preventive/control measures taken: Early harvest, drying of ponds, cleaning and disinfection of infected ponds and farming tools, farmer was advised to implement biosecurity measures and stocking with IHHNV negative seeds in the next cycle. 9) Laboratory confirmation: Johor Fisheries Biosecurity Centre and Selangor Fisheries Biosecurity Centre. 10) Publications: None IHHNV was known to occur previously in several states (last reported 2016).</p>
6	<p>Infection with Infectious myonecrosis virus (IMNV) No positive case was detected (PCR) during DoF active surveillance programme. IMNV is known to occur previously in the state of Sabah (2014) and Malacca (June 2018)</p>

	<p>Acute hepatopancreatic necrosis disease (AHPND)</p> <p>1) Reported from DOF active surveillance. 2) Species affected: <i>Penaeus vannamei</i> 3) Disease signs: - Empty digestive tract, loss of tissue pigmentation. Hepatopancreas are atrophied and pale to whitish. 4) Pathogen: <i>Vibrio parahaemolyticus</i> (Plasmid) 5) Mortality rate: Unreported 6) Economic loss: Unreported 7) Names of infected areas: Pahang (20 May) and Johor (29 December) 8) Preventive/control measures taken: Early harvest, drying of ponds, cleaning and disinfection of infected ponds and farming tools, farmer was advised to implement biosecurity measures and stocking with AHPND negative seeds in the next cycle. 9) Laboratory confirmation: Johor Fisheries Biosecurity Center; 10) Publications: None</p> <p>AHPND was known to occur previously in several states (last reported 2020).</p>
7	<p>Hepatopancreatic microsporidiosis caused by Enterocytozoon hepatopenaei (HPM-EHP)</p> <p>1) Reported from DOF active surveillance 2) Species affected: <i>Penaeus vannamei</i> 3) Disease signs: - Different sizes and retarded growth in same batch of culture 4) Pathogen: <i>Enterocytozoon hepatopenaei</i> 5) Mortality rate: Unreported 6) Economic loss: Unreported 7) Names of infected areas: Selangor (8 April), Sarawak (20 May), Kedah (12 October), Pahang (22 November) and Johor (29 December). 8) Preventive/control measures taken: Partially harvest, farmer was advised to implement biosecurity measures and stocking with EHP negative seeds in the next cycle. 9) Laboratory confirmation: Kedah Fisheries Biosecurity Center, Sarawak Fisheries Biosecurity Centre, Johor Fisheries Biosecurity Centre and Selangor Fisheries Biosecurity Centre; 10) Publications: None</p> <p>HPM-EHP is known to occur previously in the states of Malacca and Pahang (last reported 2020).</p>
8	<p>2. New aquatic animal health regulations introduced within past six months (with effective date):</p> <p> </p>