

# AQUATIC ANIMAL DISEASE REPORT - 2023

Country/territory: Bangladesh

Item	Disease status/occurrence code a/c/												Level of diagnosis	Epidemiological comment numbers
DISEASES PREVALENT IN THE REGION	Month													
FINFISH DISEASES	January	February	March	April	May	June	July	August	September	October	November	December		
WOAH-listed diseases														
1. Infection with epizootic haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000								
2. Infection with infectious haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000								
3. Infection with spring viremia of carp virus	0000	0000	0000	0000	0000	0000								
4. Infection with viral haemorrhagic septicaemia virus	0000	0000	0000	0000	0000	0000								
5. Infection with <i>Aphanomyces invadans</i> (EUS)	-	+( )	+( )	+( )	+( )	+( )							PCR	1
6. Infection with red sea bream iridovirus	0000	0000	0000	0000	0000	0000								
7. Infection with koi herpesvirus	0000	0000	0000	0000	0000	0000								
8. Infection with tilapia lake virus	0000	0000	0000	0000	0000	0000								
Non WOAH-listed diseases														
9. Grouper iridoviral disease	0000	0000	0000	0000	0000	0000								
10. Viral encephalopathy and retinopathy	0000	0000	0000	0000	0000	0000								
11. Enteric septicaemia of catfish	0000	0000	0000	0000	0000	0000								
12. Carp Edema Virus Disease	0000	0000	0000	0000	0000	0000								
MOLLUSC DISEASES														
WOAH-listed diseases														
1. Infection with <i>Bonamia exitiosa</i>	0000	0000	0000	0000	0000	0000								
2. Infection with <i>Perkinsus olseni</i>	0000	0000	0000	0000	0000	0000								
3. Infection with abalone herpesvirus	0000	0000	0000	0000	0000	0000								
4. Infection with <i>Xenohalotis californiensis</i>	0000	0000	0000	0000	0000	0000								
5. Infection with <i>Bonamia ostreae</i>	0000	0000	0000	0000	0000	0000								
Non WOAH-listed diseases														
6. Infection with <i>Marteilioides chungmuensis</i>	0000	0000	0000	0000	0000	0000								
7. Acute viral necrosis (in scallops)	0000	0000	0000	0000	0000	0000								
CRUSTACEAN DISEASES														
WOAH-listed diseases														
1. Infection with Taura syndrome virus	0000	0000	0000	0000	0000	0000								
2. Infection with white spot syndrome virus	+( )	+( )	+( )	+( )	-	-							PCR	2
3. Infection with yellow head virus genotype 1	0000	0000	0000	0000	0000	0000								
4. Infection with infectious hypodermal and haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000								
5. Infection with infectious myonecrosis virus	0000	0000	0000	0000	0000	0000								
6. Infection with <i>Macrobrachium rosenbergii</i> nodavirus (White Tail disease)	0000	0000	0000	0000	0000	0000								
7. Infection with <i>Hepatobacter penaei</i> (Necrotising hepatopancreatitis)	0000	0000	0000	0000	0000	0000								
8. Acute hepatopancreatic necrosis disease (AHPND)	-	-	-	-	+( )	-								
9. Infection with <i>Aphanomyces astaci</i> (Crayfish plague)	0000	0000	0000	0000	0000	0000							PCR	3
10. Infection with decapod iridescent virus 1 (DIV1)	0000	0000	0000	0000	0000	0000								
Non WOAH-listed diseases														
11. Hepatopancreatic Microsporidiosis caused by <i>Enterocytozoon hepatopenaei</i> (HPM-EHP)	0000	0000	0000	0000	0000	0000								
12. Viral covert mortality disease (VCMD) of shrimps	0000	0000	0000	0000	0000	0000								
13. <i>Spiroplasma eriocheiris</i> infection	0000	0000	0000	0000	0000	0000								
AMPHIBIAN DISEASES														
WOAH-listed diseases														
1. Infection with <i>Ranavirus</i> species	0000	0000	0000	0000	0000	0000								
2. Infection with <i>Batrachochytrium dendrobatidis</i>	0000	0000	0000	0000	0000	0000								
3. Infection with <i>Batrachochytrium salamandrivorans</i>	0000	0000	0000	0000	0000	0000								

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<b>ANY OTHER DISEASES OF IMPORTANCE</b>																									
1 Infection with Streptococcus of Tilapia ( <i>Oreochromis sp</i> )														-	-	+( )	+( )	+( )	-					PCR	4
2 Infection with Aeromonas of Shing ( <i>Heteropneustes fossilis</i> ), Gulsha ( <i>Mystus cavasius</i> ) and Pangus ( <i>P. hypophthalmus</i> )														+( )	+( )	-	+( )	+( )	+( )					PCR	5
<b>DISEASES PRESUMED EXOTIC TO THE REGION<sup>b</sup></b>																									
<b>LISTED BY THE WOAHP</b>																									
<b>Finfish:</b> Infection with HPR-deleted or HPR0 salmon anaemia virus; Infection with salmon pancreas disease virus; Infection with <i>Gyrodactylus salaris</i> . <b>Molluscs:</b> Infection with <i>Marteilia refringens</i> ; <i>Perkinsus marinus</i> .																									
<b>NOT LISTED BY THE WOAHP</b>																									
<b>Finfish:</b> Channel catfish virus disease																									
a/ Please use the following occurrence code:																									
<b><u>Occurrence code and symbol</u></b>		<b><u>Definition</u></b>		<b><u>Occurrence code and symbol</u></b>		<b><u>Definition</u></b>																			
Disease present +		The disease is present with clinical signs in the whole country (in domestic species or wildlife)		Disease absent -		The disease was absent in the country during the reporting period (in domestic species or wildlife).																			
Disease limited to one or more zones + ( )		The disease is present with clinical signs, and limited to one or more zones/compartments (in domestic species or wildlife)		Never reported 0000		The disease has "never been reported" (historically absent) for the whole country in domestic species and wildlife.																			
Infection/infestation + ?		Confirmed infestation or infection using diagnostic tests, but no clinical signs observed (in domestic species or wildlife)		No information ***		No information is available regarding the presence or the absence of this disease during the reporting period (in domestic species or wildlife).																			
Infection/infestation limited to one or more zones + ? ( )		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)																							
Disease suspected ?		The presence of the disease was suspected but not confirmed (in domestic species or wildlife)																							
Disease suspected but not confirmed and limited to one or more zones ? ( )		The presence of the disease was suspected but not confirmed and limited to one or more zones/compartments (in domestic species or wildlife)																							
b/ If there is any changes on historical data, please highlight in RED																									
<b>1. Epidemiological comments:</b>																									
(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		Infected species are Catla ( <i>Catla catla</i> ), Mrigal ( <i>Cirrhinus cirrhosis</i> ) with 0–15% mortality in February and March 2023 and 5–20% for the same species in April, May, June 2023 and Infection with EUS occurs in Mymensingh, Jamalpur, Netrokona districts. <i>Aphanomyces invadans</i> with symptoms of red spots or small to large ulcerative lesions on the fish body and detected through PCR in BFRI Laboratory from February to June 2023. Control measures are taken. Surveillance activities strengthened.																							
2		Live Crab ( <i>Scylla serrata</i> ) in 3 Crab Farms (Reg N0–144–Bagerhat, 232–Khulna and 352–Satkhira) are tested WSSV positive in Quality Control Laboratory, Khulna in January, February and March 2023. White Spot Syndrome Virus (WSSV) having No clearly visible white spot signs with 0% mortality. Preventive/control measures taken as i) infected crabs destroyed for disposed of ii) awareness training has been given iii) Surveillance activities enhanced. On the other hand, in April 2023, Black tiger shrimp ( <i>Penaeus monodon</i> ) in 3 ponds of shrimp farms covering area with 2.60 acre get infected with WSSV in April 2023 occurring mortality 20–30% decreasing having symptoms white spot signs with a diameter 0.5–2.0 mm in carapace. Lethargy and decreased appetite, loose cuticle, reddish coloration for shrimp. PCR test shows WSSV infection in FIQC laboratory, Khulna. Infected shrimp destroyed / disposed of and pond is properly disinfected and dried ii) awareness training has been given iii) Surveillance activities enhanced. Iv) farm is followed.																							
3		Black tiger shrimp ( <i>Penaeus monodon</i> ) in 1 ponds of shrimp farms covering area with 1.25 acre gets infected with AHPND occurring mortality 20% decreasing. PCR test shows AHPND infection by <i>V. parahaemolyticus</i> in May 2023 in FIQC laboratory, Khulna. Infected shrimp destroyed / disposed of and pond is properly disinfected and dried ii) awareness training has been given iii) Surveillance activities enhanced. Iv) farm is followed.																							

4	Infection of Tilapia ( <i>Oreochromis sp.</i> ) with <i>Streptococcus agalactiae</i> having symptoms of loss of balance, pop eye, enlargement of liver, kidney and spleen occurred in some aquaculture establishments in Mymensingh and Dhaka Division with 5–20% mortality. Control measures are taken. Pathogen is detected in March, April, May 2023 in BFRI laboratory Mymensingh.
5	Infection of Stinging catfish ( <i>Heteropneustes fossilis</i> ), Pangus ( <i>Pangasianodon hypophthalmus</i> ) and Gulsha ( <i>Mystus caavsius</i> ) with <i>Aeromonas sp.</i> having symptoms of Red pop eye, red spot and lesion on body occurred in some ponds of Dhaka and Mymensingh Division with 10–25% mortality. Control measures are taken. Pathogen is detected in January, February 2023 for catfish and April, May, June 2023 for ( <i>Mystus cavausius</i> ) in BFRI laboratory.
6	
2. New aquatic animal health regulations introduced within past six months (with effective date):	