

FAO TCP/INT/3501: Strengthening biosecurity governance and capacities for dealing with the serious shrimp infectious myonecrosis virus (IMNV) disease

FAO/NFTEC/YSFRI

“Final Interregional Workshop of FAO TCP/INT/3501: IMNV”

2-5 November 2017

Qingdao, China (Intercontinental Hotel)

Conclusions and the Way Forward

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Outline

- ▶ Project Implementation
- ▶ Achievement of objectives and outputs
- ▶ The Way Forward

Project Implementation

▶ Interregional Workshops

- ▶ Bangkok (June 2016): preliminary meeting
- ▶ Beijing (November 2016): first workshop
- ▶ Natal (May 2017): second workshop
- ▶ Qingdao (November 2017): final workshop













▶ Surveys

- ▶ EPRS
- ▶ Self-assessment on AAH performance and capacity
- ▶ IMNV Surveillance

▶ **Cooperative learning activities:** exchange of knowledge/experience between experts and delegates; stakeholder seminar (Natal); field (Natal, Qingdao) and laboratory (Qingdao)

▶ Documentation outputs

Achievement of project objectives/outputs

Outputs	Achieved	Partially achieved	Continuing
Output 1: Regional response strategy for IMNv outbreaks in Asia developed			
Output 2: National emergency and contingency plan for IMNv developed for Asian countries			
Output 3: Regional aquatic animal biosecurity framework for LAC region developed			
Output 4: National aquatic animal health strategy formulated/updated and surveillance for IMNv established			
Output 5: Capacity of participating countries enhanced on various aspects of biosecurity governance and aquatic animal health management			
Output 6: Inter-regional expert networks for exchange of information and experience			

The Way Forward

From November 2017 onwards

- A. Completion of documentation outputs
- B. Future follow-up work
- C. Tilapia Lake Virus (TiLV)
- D. Antimicrobial Resistance (AMR)
- E. Global Progressive Aquaculture Biosecurity Management Framework
- F. Socio-economic assessment of the impacts of aquatic animal diseases

From November 2017 onwards

Activity	Responsibility	Timeline	Remarks
A. Completing the project documentation output			
1. Project Report: combined 3 workshop reports	FAO/Ramesh Delegates/Resource Experts: 2 page (1000 words with 1-2 figures) extended summaries of presentations	15 November	FAO Circular
2. Emergency Preparedness Response System (EPRS) Audit	FAO/Ramesh Delegates:	15 November	FAO Circular with 3
3. FAO self-assessment survey returns	FAO: final discussion with delegates Delegates: to send missing/inaccurate information	15 November	FAO Circular with 2

From November 2017 onwards

Activity	Responsibility	Timeline	Remarks
A. Completing the project documentation output			
4. IMNV Surveillance	FAO/Fernando: follow-up with countries	This workshop	FAO/Fernando: draft a paper for submission to a journal re: status of IMNV based on activities carried under this surveillance under this TCP <ul style="list-style-type: none"> • 12 point checklist • Case definition • Various types of surveillance: passive, enhanced passive, active/targeted (?) Conclusions and recommendations
	Delegates: Brasil: China: Ecuador: Indonesia: Mexico: Thailand:	30 November	
	Brasil survey on IMNV management	30 November	

From November 2017 onwards

Activity	Responsibility	Timeline	Remarks
A. Completing the project documentation output			
5. IMNV Disease Strategy manual	FAO/Kathy/Marcelo/Bam bang	30 November	FAO non-serial publication (2018)
Translation (??)			

From November 2017 onwards

Activity	Responsibility	Timeline	Remarks
A. Completing the project documentation output			
6.IMNV Disease management best practice guidance for small-scale farmers and extension officers (using template and additional information from Brasil/Indonesia	FAO/Kathy/Bambang/Marcelo	30 November	FAO non-serial publication (2018)
Translation: Chinese/Spanish (official) Other languages	FAO/Camilla/Yan Delegates		
Formatting and layout (comic-like illustration) and printing	FAO	15.December	

B. Future follow-up work

- ▶ If there is anything specific that you wish to request from FAO
 - ▶ Thailand: inquiry in updating the National Strategy on AAH
 - ▶ Database integration
 - ▶ Capacity building
- ▶ Continue networking, exchange of information, cooperative learning activities
 - ▶ APEC, ASEAN, FAO, NACA, OIE, OIRSA, RAA (LAC), SEAFDEC, bilateral
- ▶ Keep us informed of ongoing/pipeline activities
- ▶ Others

C. Tilapia Lake Virus (TiLV)

- ▶ Relevant to 6 countries: Brasil (?), China (?), Ecuador (+: scientific literature), Indonesia (?), Mexico (?), Thailand (+ scientific literature, OIE notification)
- ▶ African Solidarity Trust Fund (ASTF): for African countries: approved (early 2018)
- ▶ FAO/China: for selected countries; venue: China: approved
- ▶ FAO/Israel Mashav: for selected countries: Israel (March 2018): approved
- ▶ FAO/World Bank: pipeline
- ▶ FAO Interregional TCP: pipeline

C. Tilapia Lake Virus (TiLV)

- ▶ Scope of assistance:
 - ▶ Two week intensive training course on TiLV
 - ▶ Country level implementation of TiLV NAPs
 - ▶ Funds permitting: reconvene after 8 months and international technical seminar on TiLV
 - ▶ Support to development of vaccine
 - ▶ Socio-economic assessment of TiLV impacts

C. Tilapia Lake Virus (TiLV)

- ▶ Two week intensive training course on TiLV
 - ▶ Tilapia aquaculture/GAP
 - ▶ Current state of knowledge on TiLV pathology and diagnostics (principles and field and laboratory: collection of field samples for water quality, histopathology and PCR; Koch's postulate; farm-level biosecurity)
 - ▶ Development of TiLV active surveillance (principles and field work): Principles of epidemiology, surveillance and application to aquaculture; Design of an active TiLV surveillance; Data analysis
 - ▶ Emergency preparedness and contingency plan: Principles of emergency preparedness and contingency plans; farm-level biosecurity (TiLV prevention and management); TiLV disease strategy manual (part of contingency plan); TiLV disease outbreak investigation and simulation exercise
 - ▶ Development of country action plan on TiLV (application of what has been learned during the training course): diagnostics, surveillance, emergency preparedness, farm level biosecurity for producers, reporting and feedback

D. Antimicrobial Resistance (AMR)

- ▶ Ongoing FAO project (December 2017): China; Indonesia and Thailand (with NACA)
 - ▶ Asia Workshop: Shenzhen, China (12-14 December)
- ▶ Asia Regional Workshop: 2018 (c/o FAO Bangkok)
- ▶ LAC Workshop: Lima, Peru (22-24 November 2017)
- ▶ FAO with EU and WB

E. Global Progressive Aquaculture Biosecurity Management Framework (with USA and World Bank)

- ▶ Tripartite (government, producers, academe, donors) consultation in March 2018, Washington DC (first consultation)
 - ▶ Stock taking: why is disease situation in aquaculture is as such
 - ▶ Presentation of Concept Note using a Progressive Management Pathway (PMP) – risk-based and progressive
 - ▶ Build consensus – whichever direction aquaculture is going – PMP Concept Note is the way forward
 - ▶ Generate political commitment and support for further development of CN and implementation
- ▶ China (this workshop), Brasil (Fenacam 2017 – private sector)
- ▶ Follow-up consultations (funds permitting and expression of interest from country host)

F. Socio-economic assessment of impacts of aquatic animal diseases

- ▶ Impacts
- ▶ Cost benefit analysis
- ▶ Investments