MINISTRY OF RURAL AND AGRICULTURE DEVELOPMENT

DEPARTMENT OF ANIMAL HEALTH

REPORT

Prevention and control of diseases in farmed shrimp and management of medicine in aquaculture.

Ho Chi Minh city, August 2015

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A. RESULTS OF PREVETION AND CONTROL OF SHRIMP DISEASES

I. DISEASE SITUATION OF THE FIRST 7 MONTHS OF 2015

- "In the first 7 months of 2015 (from 01/01 – 31/7/2015), the total damaged farming area of brackish shrimps is 22.338,29 ha (equivalent to *61,57% damaged area in the same period of 2014 with the total affected area of 36.280 ha*), accounting for 3,6% of total shrimp farming area in the whole country (the data on farming area updated and provided by D-fish until 20/7/2015 was 622.394 ha). Of which, the affected intensive and semi-intensive farming area was 15.703,67 ha; the affected extensive and improved extensive farming area was 6.634,62 ha.
- Of which total diseased area is 11.195,12 ha (accounting for 50,12% of the total damaged area, equivalent to *45,78% diseased area of the same period in 2014 with the total diseased area of 24.454,36 ha), the area damaged by unknow factors was* 1.297,88 ha, the remaining area (10.800,29ha) was impacted by climate and enviromental change.

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I. DISEASE SITUATION OF THE FIRST 7 MONTHS OF 2015

- **1. White spot disease status in shrimp (WSD)**
- In the fist 7 months of 2015, the disease occured in 224 communes, 72 districts, townships of 23 provinces, cities, including: Hai Phong, Thai Binh, Nghe An, Ha Tinh, Quang Binh, Quang Tri, Thua Thien Hue, Quang Nam, Quang Ngai, Binh Dinh, Phu Yen, Khanh Hoa, Ninh Thuan, Ho Chi Minh city, Ba Ria – Vung Tau, Long An, Tien Giang, Ben Tre, Kien Giang, Tra Vinh, Soc Trang, Bac Lieu và Ca Mau.

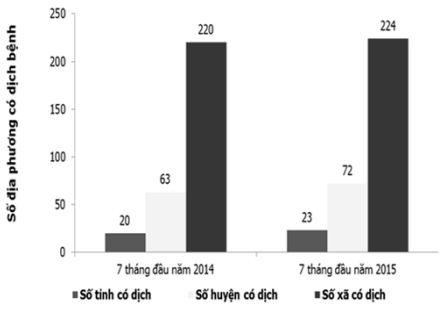
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Summary on WSD situation in the fist 7 months of 2015

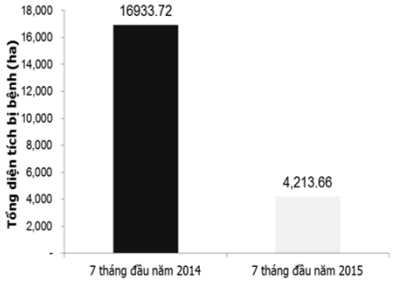
Criteria	Time	
	7 months in 2014	7 months in 2015
Number of infected provinces	20	23
Number of infected districts	63	72
Number of infected communes	220	224
Total infected area (ha)	16.933,72	4.213,66

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Summary on WSD situation in the fist 7 months of 2015



Comparison on number of diseased provinces, districts and communes in the fist 7months of 2014 and 2015.



Comparison on diseased area in the fist 7months of 2014 and 2015.

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2. Acute hepatopancreatic necrosis disease (AHPND)

In the first 07 months of 2015, the disease occurred in 257 communes, 65 districts and townships in 22 provinces including Hai Phong, Nam Dinh, Quang Ninh, Nghe An, Ha Tinh, Quang Binh, Quang Tri, Quang Nam, Quang Ngai, Phu Yen , Khanh Hoa, Ninh Thuan, Ho Chi Minh City , Ba Ria - Vung Tau, Long An, Tien Giang, Ben Tre and Kien Giang, Tra Vinh, Soc Trang, Bac Lieu and Ca Mau. The total diseased area is 6043.89 ha

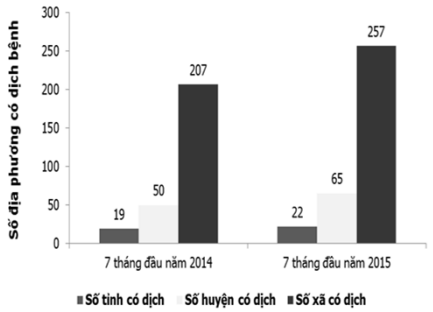
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Summary on AHPND situation in the fist 7 months of 2015

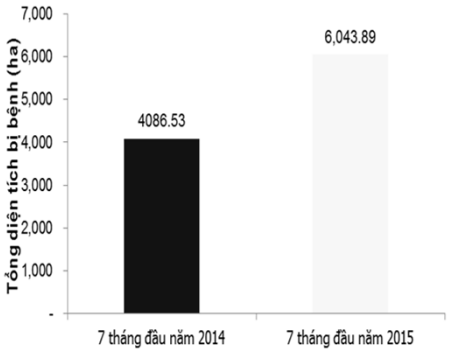
Criteria	Time	
	7 months in 2014	7 months in 2015
Number of infected provinces	19	22
Number of infected districts	50	65
Number of infected communes	207	257
Total infected area (ha)	4.086,53	6.043,89

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Summary on AHPND situation in the fist 7 months of 2015



Comparison on number of diseased provinces, districts and communes in the fist 7months of 2014 and 2015.



Comparison on diseased area in the fist 7months of 2014 and 2015.

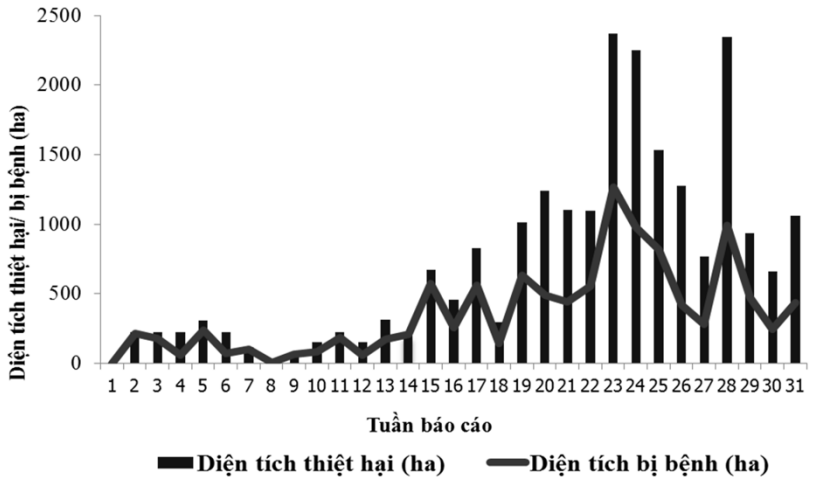
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3. Other factors

- ***Enviroment, climate***: 10.800,29 ha has impacted by enviromental and climate changes, as detailed : Nam Dinh (8,76 ha), Ha Tinh (7,85 ha), Quang Ngai (5,57 ha), Binh Dinh (37.53 ha) , Phu Yen (11 ha) , Khanh Hoa (47.7 ha), Long An (414.49 ha), Tien Giang (1.15 ha), Tra Vinh (147 , 1 ha) , Soc Trang (3449.67 ha), Bac Lieu (826.8 ha), Kien Giang (37.8 ha) and Ca Mau (5804.87 ha, contain 5.796,82 ha of extensive and improved extensive area).
- ***Other diseases/unknown*** : 1.592,57 ha farming area in Thai Binh Province (0,446 ha), Nghe An(145,78 ha), Ha Tinh (2,2 ha), Quang Tri (5 ha), Thua Thien Hue (19,87 ha), Soc Trang (904,95 ha) and Ca Mau (514,32 ha including 402,75 ha of extensive and improved extensive area) infected by unknown factors.

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Changes in diseased area of the first 7 months of 2015 by reporting week



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II. SUMMARY ON RESULTS OF THE IMPLEMENTATION OF DISESE PREVENTION AND CONTROL

1. Build up legislation documents

- Draft "Circular regulates management of free of shrimp fry production" under the direction of leaders of the Ministry of Agriculture and Rural Development. (MARD)

- Submit MARD draft of circular regulates establishments free from aquatic animal disease

2. Implement disease prevention and control activities

- Transit responsibility for aquatic animal health management to provincial sub DAH (Ha Noi, Khanh Hoa, Tra Vinh not applied)
- Annual plan for disease prevention and control: by now, 45 provinces approved annual plan for aquatic animal disease prevention and control of 2015. 32/45 provinces and cities provide funds with the total of over 50,5 billion dong;

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II. SUMMARY ON RESULTS OF THE IMPLEMENTATION OF DISESE PREVENTION AND CONTROL

3. Active surveillance

- Implement actitivites regulated in official letter No 1846/TY-TS issued by DAH dated October 17, 2014 and 381/TY-TS dated March 06, 2015. The initiative results show broadstocks may infected with *Virio parahaemolyticus* and are transmiting resource of caustive agents in many localities.
- Took 2.805 samples of shrimp, muds and water in 143 farming establishments detected 179 samples positive for AHPND and 11 samples positive for WSD (in Quang Ninh, Nam Dinh, Ha Tinh, Ben Tre and Soc Trang)
- 7/41 samples positive for Enterocytozoon hepatopenaei (collected in Ninh Thuan, Binh Thuan and Ben Tre)

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II. SUMMARY ON RESULTS OF THE IMPLEMENTATION OF DISESE PREVENTION AND CONTROL

4. Information and propagation

- Continue to develop and distribute the leaflets on the prevention of white spot disease , AHPND to localities;
- Is coordinating with Vietnam Television to build and deploy information and communication program on the prevention of disease in brackish water shrimp

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II. SUMMARY ON RESULTS OF THE IMPLEMENTATION OF DISESE PREVENTION AND CONTROL

5. National reserve of chemicals in aquatic animal disease prevention and control

- In the first 6 months of 2015, DAH sent report to MARD for submission to Goverment to delivery 210 ton chemicals used in aquatic animal disease prevention and control in: Thai Binh, Thua Thien Hue, Quang Nam, Binh Dinh, Phu Yen, Ben Tre, Tra Vinh.

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II. SUMMARY ON RESULTS OF THE IMPLEMENTATION OF DISESE PREVENTION AND CONTROL

6. International corporation

- Organize the third OIE Global Conference for aquatic animal health in Ho Chi Minh City; participated in the 83rd Annual Meeting of OIE in France to promote cooperation in the field of disease prevention, calling for help on improving the capacity for aquatic animal health system;
- Participate in implementing trade promotion activities; effective use of regulations and support of OIE to convince the importer to comply with the international provisions. **7**

7. Implementation of aquatic disease prevention and control in Soc Trang

- From 01/10/2015 to 07/30/2015 DAH collaborated with Soc Trang DARD to hold a program assistance in prevention and control of shrimp diseases
- Widen prevention and control of shrimp diseases model in other province

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B. MANAGEMENT OF QUALITY OF MEDICINE USED FOR AQUATIC ANIMAL HEALTH

1. Management of production and import

- In 2014, total of 104 business veterinary establishments, including establishments clasified as Class A: 68 establishments, account for 65.4%; 36 establishments: class B, account for 34.6% and no establishments for Class C;
- In the first 6 months of 2015, total business establishments of veterinary establishments: 82, including Class A establishments: 58, accounting: 70.7%; Category B: 24 establishments, making up 29.3%.

* In order to ensure the quality of veterinary drugs produced in the country, meeting 03 criteria of quality, safety and efficacy. MARD has issued Circular No. 07/2012 / TT-BNN dated 13/02/2012, prescribed route in applying GMP production of veterinary drugs. Far across the country there have been 52 production meeting GMP requirements; 100% of veterinary medicines on the market are produced from the base of GMP.

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B. MANAGEMENT OF QUALITY OF MEDICINE USED FOR AQUATIC ANIMAL HEALTH

2. Management of registration

- Veterinary drugs permitted for production, import and circulation in Vietnam must been registered for circulation under the provisions of Circular No. 20/2011/ TT - BNN dated 06/4/2011 of MARD. The veterinary medicines certificated for circulation in the list of veterinary drugs permitted for circulation issued by MARD are assessed quality through experiments by Veterinary management agencies or specialized scientific Council of veterinary drugs meeting requirements for quality, safety and efficiency .
- There are 2 types of vaccines to prevent diseases in pangasuis, 1 vaccine for red tilapia and 1 vaccine for Lates calcarifer permitted for circulation in Vietnam

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B. MANAGEMENT OF MEDICINE QUALITY FOR AQUATIC ANIMAL HEALTH

3. Management of quality

- In 2014 , the total number of veterinary medicine sample for quality inspection was 450 samples , including 415 samples met requirements (account for 92.2 % occupancy rate) and the unqualified samples was 35 (accounting rate 7.8%)
- In conclusion, unqualified drug rate in 2013, 2014 decreased by 50% comparison to 2012
- During the first 6 months of 2015, the total number of collected veterinary drug samples were 245 samples , has being analysed and tested
- Unqualified veterinary medicines have been recorved and treated as regulations in Decree 119/2013/NĐ-CP dated on Octorber 09 2013 issued by Goverment; Circular 02/2009/TT-BNNPTNT on 14/01/2009

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B. MANAGEMENT OF MEDICINE QUALITY FOR AQUATIC ANIMAL HEALTH

4. Export veterinary medicines

- In 2014, there were 9 establishments exporting veterinary medicines with the total value of 19 million USD**.**
- In the first 6 months of 2015, there were 9 establishments exporting veterinary medicines with the total value of 9 million USD**.**

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C. ACTIVITIES IN THE LAST MONTHS OF 2015

1. To timely guidance Veterinary Law was enacted by Congress , DAH will promptly complete decree guidline for the implementation of laws and the Circular of MARD guidelines detailing a number of articles of Veterinary Law

2. Continue to control aquatic animal disease epidemics, specially in brackish water shrimp . Summarizing the model in Soc Trang and replicated in other regions.

3. Submit MARD for approval of circular regulates free establishments and deployment guidance for construction of disease free establishments .

4. Research the requirements for the prevention of diseases of the aquatic animal import market to propose, guide, and direct the implementation to meet the demands of the market .

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C. ACTIVITIES IN THE LAST MONTHS OF 2015

5. Strengthen the training and propagation on disease prevention and control .

6. Coordinate with D-fish and the local authorities to strict inspection and reorganize the management of material inputs (seed quality , agricultural materials , bio-products and chemicals physical and environmental renovation under their management) .

7. Instruct provincial sub DAH

8. Enhanced international cooperation in the field of aquatic animal health , urged the support of international organizations in capacity building epidemiology , laboratory diagnosis of aquatic diseases

9. Strengthen trade promotion activities , support exporting aquatic animals , aquatic animal products from Vietnam

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Thanks for your listening!

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