

BIOSECURITY FOR THE TILAPIA INDUSTRY

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BIOSECURITY FOR THE TILAPIA INDUSTRY

- **SO WHAT IS BIOSECURITY ?**
- **WHY DO I NEED BIOSECURITY ?**
- **PREVENTION IS BETTER THAN THE CURE!!**
- **HOW WILL DISEASES ENTER MY SITE?**

SO WHAT IS BIOSECURITY?

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MORE THAN JUST FOOT DIPS!!

SO WHAT IS BIOSECURITY?

BIOSECURITY

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RISK ANALYSIS

COMBINED WITH

PRACTICAL, PROCEDURAL AND

PHYSICAL MEASURES

WHY DO I NEED BIOSECURITY ?

Financial impacts

- Direct impacts
 - Loss of stock
 - Loss of 'work-hours'
 - Treatment costs
 - Replacement stock
- Indirect impacts
 - Reduced productivity = increased production costs
 - Protracted production cycles

WHY DO I NEED BIOSECURITY ?

Gaps in production

- Honouring orders/contracts
 - Customer relations
 - Sourcing alternative stock
- Husbandry complications
 - Holding 'back' batches
 - Treatment withdrawal periods
 - Disease spreading to healthy stock

WHY DO I NEED BIOSECURITY ?

Welfare

Distress

WHY DO I NEED BIOSECURITY ?

- **Financial impacts**
- **Gaps in production**
- **Welfare**
- **Distress**

PREVENTION IS BETTER THAN THE CURE!!

- Often no cure for the most serious diseases e.g. viral diseases such as KHV in carp production!
- Treatable diseases are often too difficult or impractical to treat!
- Can treatments be used?
- Control of spread of disease in a recirculation system?
- Irradication of disease in a recirculation system?

HOW WILL DISEASES ENTER MY SITE?

- **Water**
- **Staff**
- **Visitors**
- **Other**
- **Introductions**

HOW WILL DISEASES ENTER MY SITE?

Water

- Is your supply clean/been in contact with possible contamination?
- Is it adequate?
- Can you do anything?
- Know your supply

HOW WILL DISEASES ENTER MY SITE?

Staff

- Do your staff work with any other fish sp?
- Do you have disinfection procedures?
- Are they used?
- Are your staff adequately trained?

HOW WILL DISEASES ENTER MY SITE?

Visitors

- Can they gain direct access to your site?
- Do you restrict access?
- Do you have any signs or notices?
- Do they sign in?
- Where have they been?
- Do you have disinfection procedures?

HOW WILL DISEASES ENTER MY SITE?

Other

- Rodents/vermin?
- Shared/second-hand equipment?

HOW WILL DISEASES ENTER MY SITE?

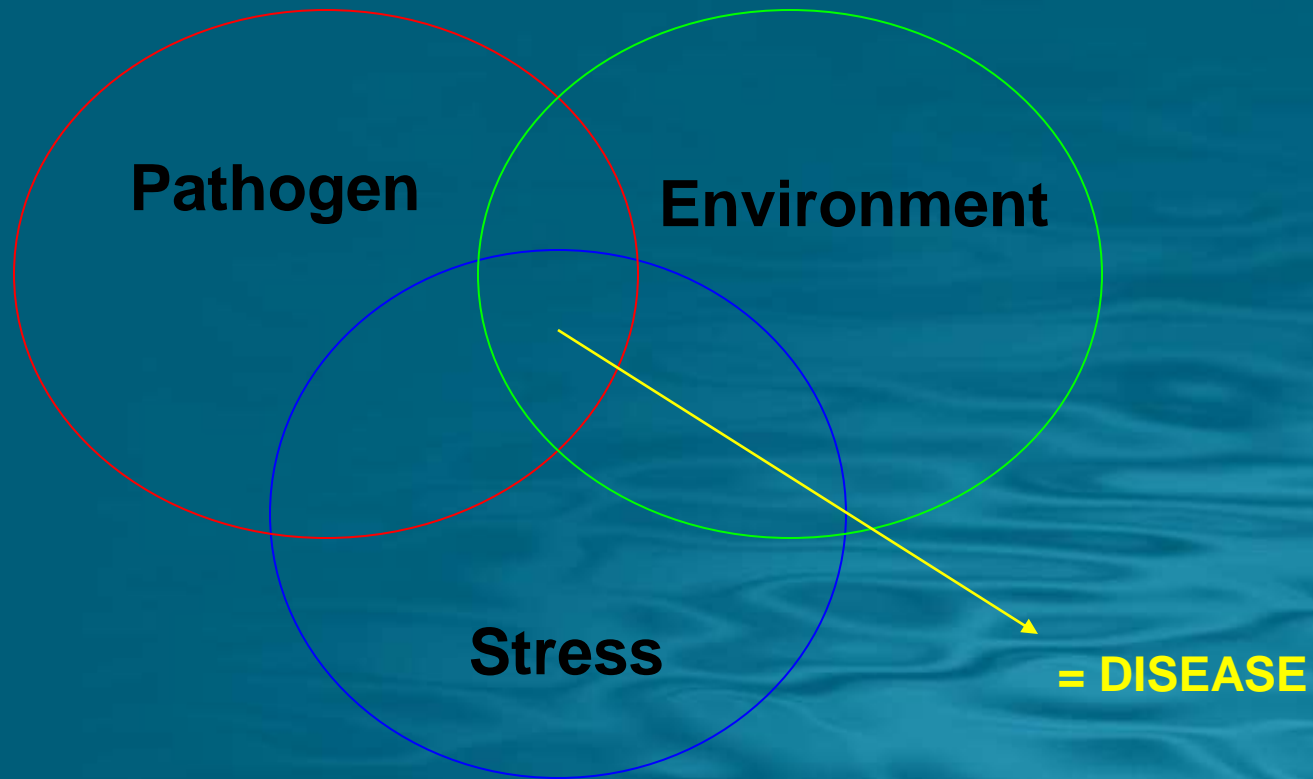
Stock

- Any movement is a risk!
- Be cautious of cheap deals
- Can/is it possible to preview your potential stock?
- Purchase stock from a trusted supplier
- Limit the number of suppliers
- Quarantine before placed onto a common recirculation system?

BIOSECURITY

- **Risk assessment**
 - Identify risks
 - Quantify risks
- **Biosecurity measures**
 - Put in place measures to reduce/remove risks
 - Document your measures
- **Ensure staff are trained**
 - Enforce

MORE THAN JUST DISEASE



MORE THAN JUST DISEASE

- **PATHOGEN**
 - Keep out
 - Manage any present pathogens
- **ENVIRONMENT**
 - Good water quality
 - Appropriate habitat
 - Sufficient food
- **STRESS**
 - Appropriate mix of species
 - Not over stocked
 - Handling
 - Not held in keepnets too long or too many