

Vietnam Fisheries.

Overview, Priorities & Cooperation



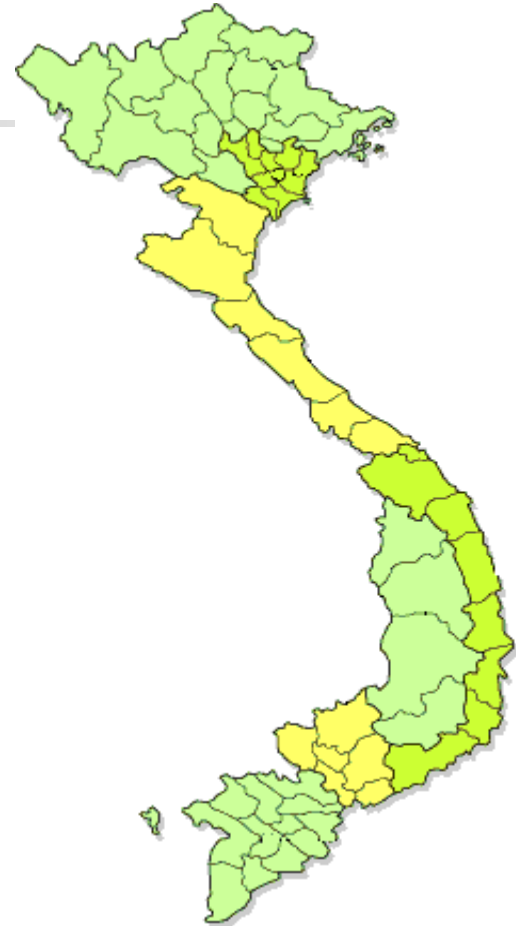
Directorate of Fisheries (D-FISH)
MARD, VietNam





Vietnam: A brief

- 330,000 Km²
- Population: 85 million
- 3,200 Km coastlines
- 3 RIAs, RIMF, UoF
- 2 typical climates

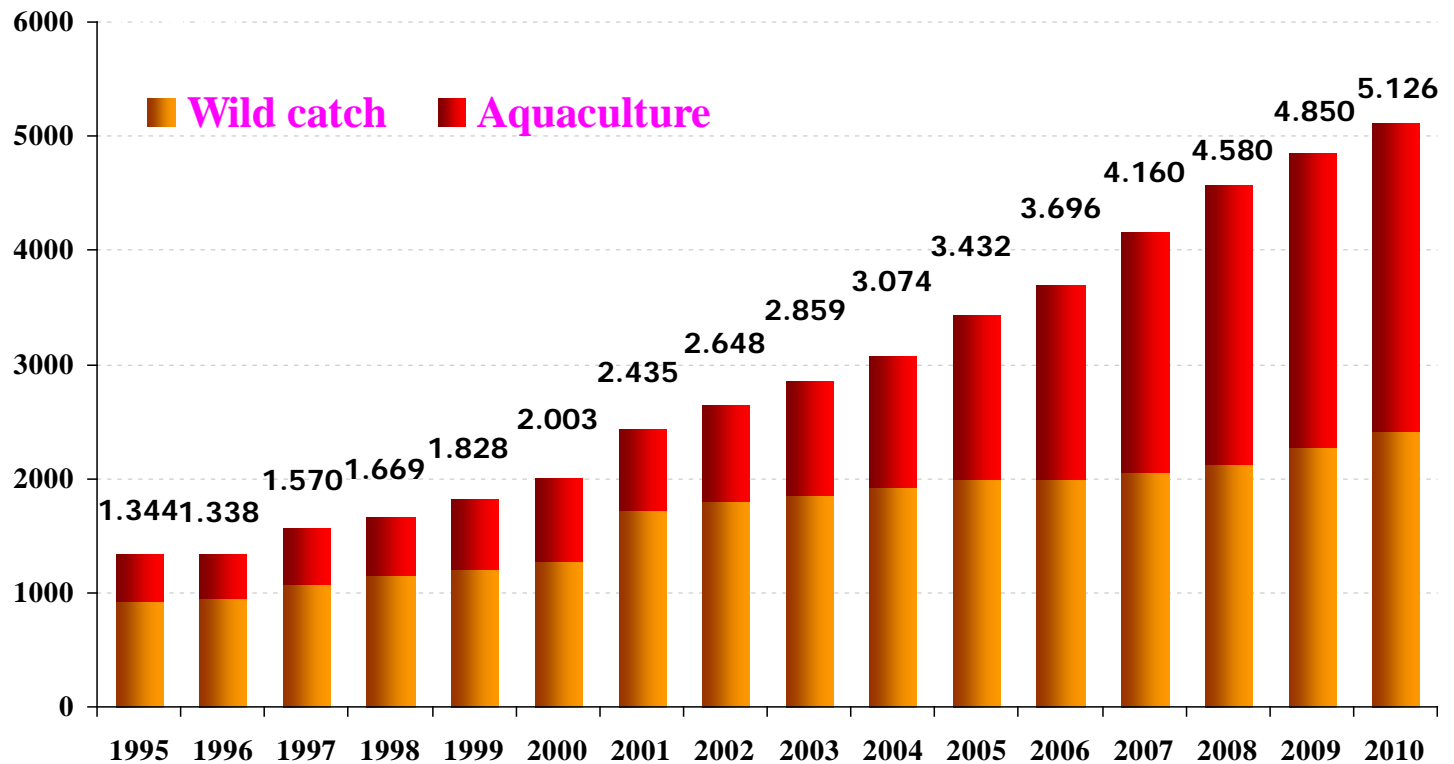




Vietnam Fisheries: 2010

- Total fisheries production: 5,200,000 T
- 4 % GDP
- 2,800,000 from aquaculture (9.2% increased) & 2,400,000 from fishing (5% increased)
- 5,034,000,000 USD from export (23.1% increased)
- Supplies 40% of animal protein
- Creates approximately 4 million jobs

Vietnam Fisheries 1995-2010

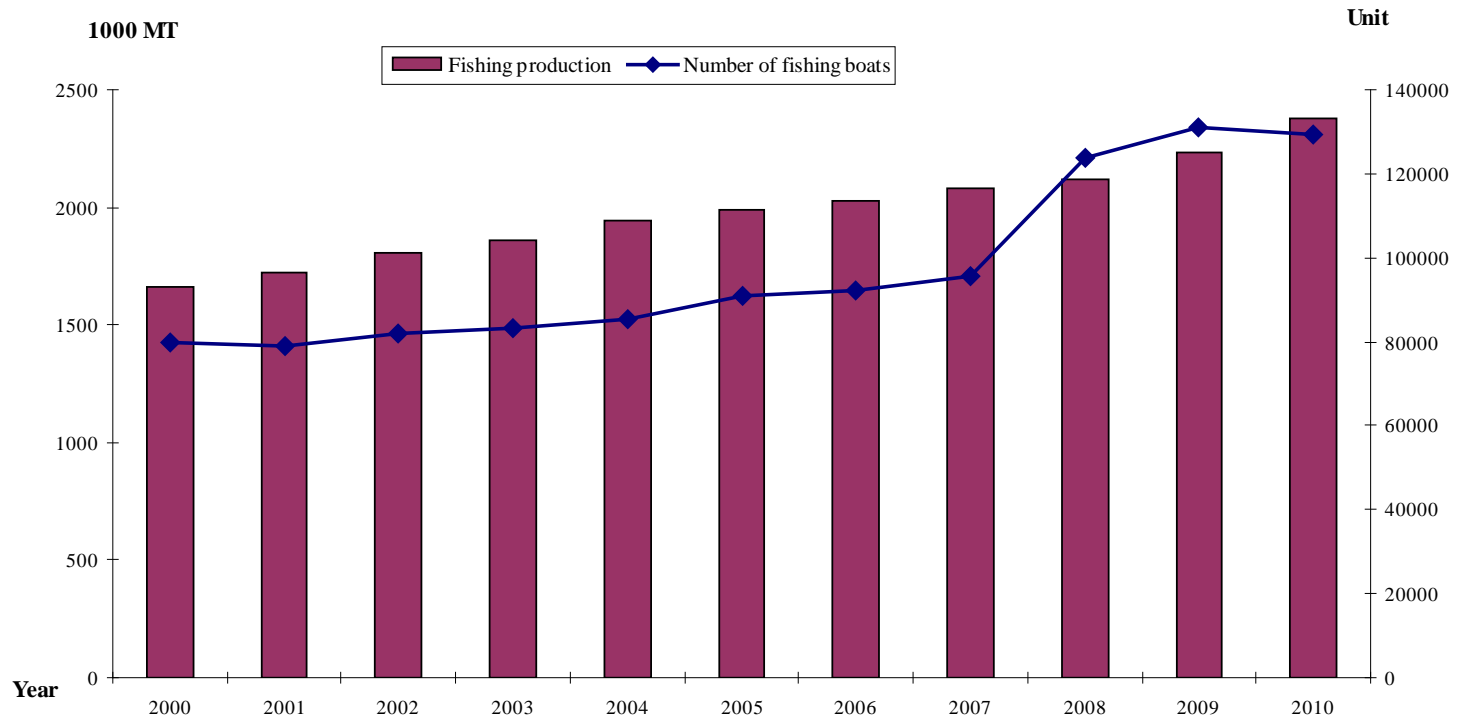


Vietnam: capture fisheries

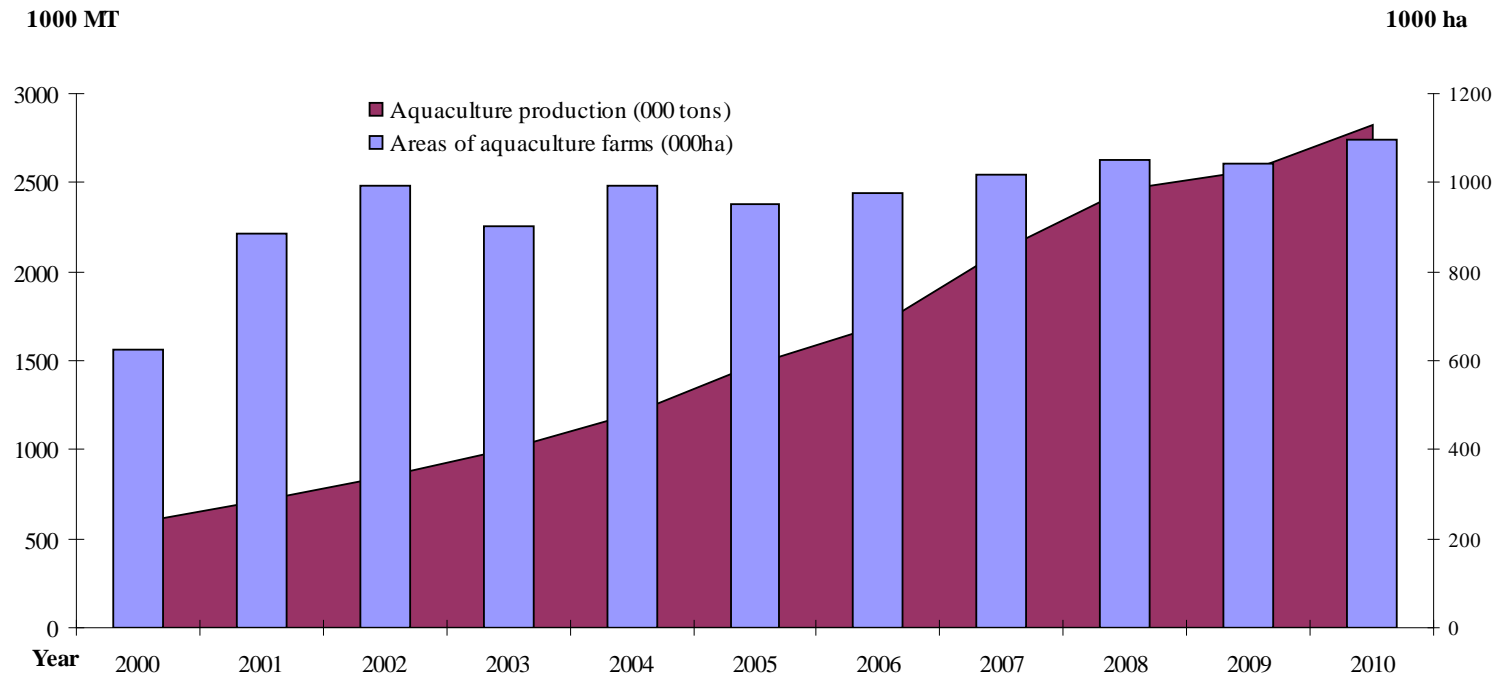
- Total fishing vessel in 2010: 129,376
- - Vessel >90CV: 19,629
- - Vessel 20 - 90CV: 45,160
- - Vessel <20 CV: 64,715



Marine capture fisheries



Vietnam: Aquaculture trends



Vietnam: Aquaculture species



Aquaculture Major Species

- Freshwater:

- Chinese & India Carps: 200,000 T
- Tilapia: 100,000 T
- Catfish: 1,250,000 T
- Giant prawn: 10,000 T

- Brackish and Marine:

- Shrimp: 490,000 T
- Lobster, Grouper, Cobia: 50,000 T
- Clam, Oyster: 400,000 T



Induced breeding:

- Major FW & Shrimp seed produced from hatcheries
- Success in induced breeding of marine species: Grouper, Cobia, Red drum, Oyster...
- Less dependence of marine wild seed
- Success in mollusk hatcheries
- High value, indigenous, endangered



Quality improvement of seed:

- Significance of quality seed
- Breeding on:
 - Growth improvement of Common Carp and Tilapia
 - Growth & Fillete improvement of Mekong catfish
 - Domestication of black tiger & White shrimp





Health management:

- Bacteria, virus diseases in shrimp, Cobia, grouper & claim
- PCR, RT-PCR for WSSV, YHV detection
- Vaccine for grouper & grass carp
- Herb and alternatives for antibiotics



VietNam: Aquaculture systems

- Several systems of aquaculture applied
- Common practice of Intensive shrimp, catfish, tilapia aquaculture
- Recent interest in open sea cage aquaculture
- Integrated coastal aquaculture: shrimp/clam

VietNam: Aquaculture systems

- GAP in aquaculture:
 - Global GAP, SQF 1000, BAP, ASC
 - VietGAP
 - Encourage GAP practice:
training, technical support, certification





Vietnam Fisheries Plan Toward 2020:

- Development Goal:
 - Food security
 - Exportation for hard currencies
- Target objectives:
 - 7,000,000 MT of fisheries
 - 4,500,000 MT from aquaculture
 - 5,5 billion USD from exporting of aquaculture
 - 2,5 million of jobs in aquaculture

Vietnam capture fisheries:

- Balance between resources and fishing
- Encourage off shore fishing
- Quality improvement on post-capture fisheries
- IUU application





Vietnam Aquaculture:

- Diversification in aquaculture
- Major species:
Shrimp, Pangasius, clam/oyster, tilapia
- Marine aquaculture
- Focus on intensive aquaculture, not area expanding
- Encourage GAP practice



Aquaculture development: challenges

- Poor seed quality & insufficient quantity
- High disease prevalence
- Environment & disease monitoring
- Production of quality fisheries products
- High production cost



Development priorities:

- Induced breeding:
 - SPF of shrimp & catfish
 - Mass/large scale of mollusk , marine fish & prawn
 - Indigenous, endangered species
 - Aquaculture candidate species (trout, sturgeon)
- Genetic improvement of seed:
 - Tilapia: growth, saline, cold/cool environment
 - Shrimp (black & white): domestication and genetic improvement
 - Growth improvement of Mekong catfish
 - Mono-sex of Tilapia, prawn, trout



Development priorities:

- Low cost feed for tilapia, catfish & marine fish
 - Additive, pro/pre-biotics
 - Feeding management
 - Biofloc Technology
- Environment & Fish diseases outbreak
 - WSSV, YHV, GAV in shrimp
 - WSD in Mekong catfish
 - Pond Environment improvement
 - Vaccination
 - Pond waste treatment



Development priorities:

- Post-harvest technology:
 - By-products from catfish & shrimp
 - Improvement of catching
- Fisheries for others:
 - Medical/cosmetic purposes
 - Industry materials



Development priorities:

- Fishery equipments:
Catching, aquaculture systems
- Fishery development policy
 - Description/status
 - Policy recommendation
 - Production chains

Thank you !

