

Appendix 3.3. RIA1 PAFPS presentation

Peri-urban aquatic production around Hanoi

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Initial work: 24 Feb. – 24 Mar. 03

Key informant interview & discussion:

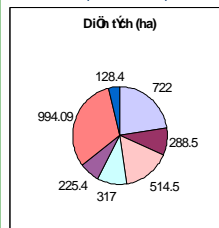
- Department of science & technology
- Department of agriculture & rural development (DARD)
- Department of transportation & public services
- DARDs of Thanhtri, Gialam, Tuliem, Donganh
- Hathuy Co., Hotay Investment Co.
- Fish farmers & traders in Hanoi

Water area & aquaculture:

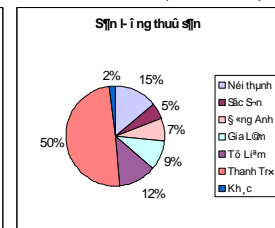
- Total area of Hanoi: 91,846 ha
- Peri-urban area: 83,400 ha (90.8%)
- Agriculture land: 43,600 ha
- Water area: 5,100 ha
- Low land field: 3,000 ha
- Sewage: 300,000 m3/day; of which 200,000 m3 from households.

2002 Aquaculture:

Area (3,190 ha):

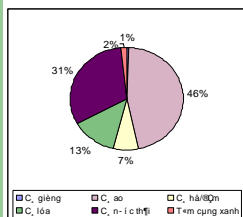


Production (9,200 tons)

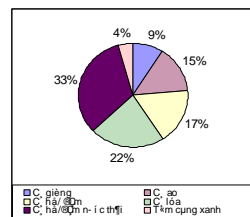


2002 Aquaculture: Area of systems

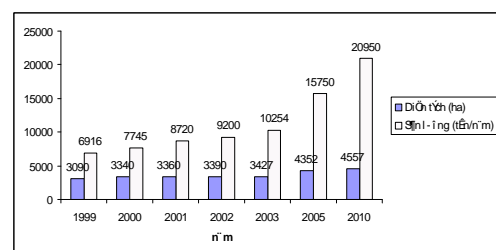
Hanoi



Thanhtri



Aquaculture: 1999-2002



Hanoi: recent trends in aquaculture

- Function of lakes changed: Aquaculture- flood control-sport/tourism
- Less pond in areas close to city (housing...)
- More ponds/fish-rice filed built in rural areas
- More village ponds polluted
- High value species
- Intensification & feeding

Cultured species:

- | | |
|-------------------------|--------------------|
| Traditional: | Newly introduced: |
| - Rohu & Mrigal: 40-50% | - Hybrid catfish |
| - Common carp: 5-10% | - Tilapia |
| - Grass carp: 2-3% | - Giant prawn |
| - Silver carp: 20-25% | - <i>Clossomma</i> |
| | - Mekong catfish |

Seed & Feed:

- | | |
|---------------------------------------|-----------------------------------|
| <u>Seed</u> | <u>Feed:</u> |
| - 1 seed centre | - Semi-intensive |
| - 200 –250 fry /year | - Fertilization |
| - Common carp, Chinese & Indian carps | - Supplementary feeding |
| - Shortage of tilapia, prawn | - Pellet feed become commonly use |

Fish quality & market:

- Demand large and quality fish
- Small and fish from sewage fed ponds (40-60%) for mountainous provinces.
- Very high concentration of Cu^{2+} , As^{2+} , Cd^{2+} , Cr^{6+} , Pb^{2+} , Hg^{2+} , Ni^{2+} , Fe^{2+} in fish from sewage fed ponds (both fresh & cooked)
- Increasing fish consumption: 21,000 t fresh fish (2001), 28,000 t (2005) & 37,000 t (2010)

THANK YOU!

