



The Regional Training Workshop
Economic Valuation of the Goods and Services of Coastal Habitats
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GROUP 4

CASE STUDY RESULTS

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SOCIO-ECONOMIC IMPACTS

- Not much effect on profit
- Cost of consumption goods such as rice, aquatic animals, electric bill, transportation fare, will increase (Cost of standard of living will increase)

GOODS AND SERVICES TO BE ANALYZED

- Outputs from Livelihood Activities
 - tourists
 - charcoal
 - aquatic animals
- Inputs
 - labor supply
 - fuel cost

VALUATION TECHNIQUE TO BE USED

- Cost and Benefit Analysis
 - applied in impact assessment studies

DATA REQUIREMENTS FOR THE STUDY

Charcoal Production Costs

Direct Cost

- Investment Cost
 - Land preparation and weed clearing
 - Weed collection and burn
 - Root eradication
 - Mangrove seedling
 - Labor cost for cultivation

Operating and Maintenance Cost

- Land tax
- Replanting in year 2
- Maintenance cost in year 3
- Wood cutting and peeling
- Transportation cost
- Labor cost of wood loading and taking in stove
- Depreciation of building and stoves
- Stove rent cost
- Hired labor for burning
- Labor cost of taking charcoal out from stove and packaging
- Transportation of charcoal to shop

Total Operating and Maintenance Cost

- Wood sale
- Stove Rent
- Own Stove
- Stove Rent and transport to the shop
- Own Stove and transport to the shop

Direct Benefit

- Wood Sale
- Charcoal Sale at home
- Charcoal Sale at shop
- Subsidy received

Costs and Revenue of Blood Cockle Harvesting

Items
Fixed costs
Fishing licence fee
Fishing gears depreciation
building depreciation
Variable costs
seed
Fuel
Maintenance cost
Labor for seedling
Labor for taking care
Red net (1 cm.)
Rope
Bamboo and other materials
Total costs
Yield (kg/HH/y)
Price (Baht/kg)
Total revenues

Costs and Revenue of Oyster Culture

Items
Fixed costs
Fishing license fee
Zemen for construction
Pole for construction
Variable costs
Labor
Fuel
Seed
Bamboo and others
Total costs
Yield (piece/hh/year)
Price (baht/piece))
Total revenue

Costs and Revenues of Green Mussel Culture

Items
Fixed costs
Fishing lincense fee
Fishing gears depreciation
Building depreciation
Variable costs
Pole
Seed
Maintenance
Fuel
Labor for seedling
Labor for others
other materials
Total costs
Yield (kg/hh/year)
Price (baht/kg)
Total revenues
Profit

Costs and Returns of Acetes Harvesting

Items
Fixed costs
equipments
net
Variables
Boat fuel
other materials
Battery
Total costs
yield (kg/household)
price (baht/kg)
Total revenue
Profit

Costs and Revenue of Tourism to Participated Households

Items
Variable costs
Fuel
Maintenance
Total variable costs
Revenues from plantation activities
Revenues from boat rent
Total revenues

POLICY RECOMMENDATIONS

- Coordination between relevant agencies (forestry and fisheries) to manage the activities in the coastal areas.
- Intensify mangrove protection program, e.g. area expansion.
- Provide alternative livelihood (e.g. handicraft from shells, ecotourism, homestay activities) to the fishermen for additional income.
- Capacity-building on livelihood improvement.