

# **ECONOMIC ANALYSIS OF FISH FARMING IN KENYA**



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# Background



- Continued PD/A CRSP research with improved production technology
- Limited expansion in fish production
- Expansions limited by financial resources
- Need for better understanding of farm economic & financial performance
- Need for farm data & information to estimate economic and financial indicators



# Importance

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- Assessment of farm profitability
- Provision of economic data useful to lending agencies
- Business plans & enterprise budget needed for financial assistance





# Objective

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**To collect and organize economic information necessary for preparing enterprise budgets and business plans for fish farms**



# Pond Records: Production & Yield

- ❖ Stocking
  - Date
  - Size
  - Weight
  - Fingerling quantity
  - Fingerling sources



# Pond Records: Production & Yield

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- ❖ Harvest
  - Date
  - Size
  - Weight
  - Number of fingerlings
- ❖ Mortality
- ❖ Growth
- ❖ Yield

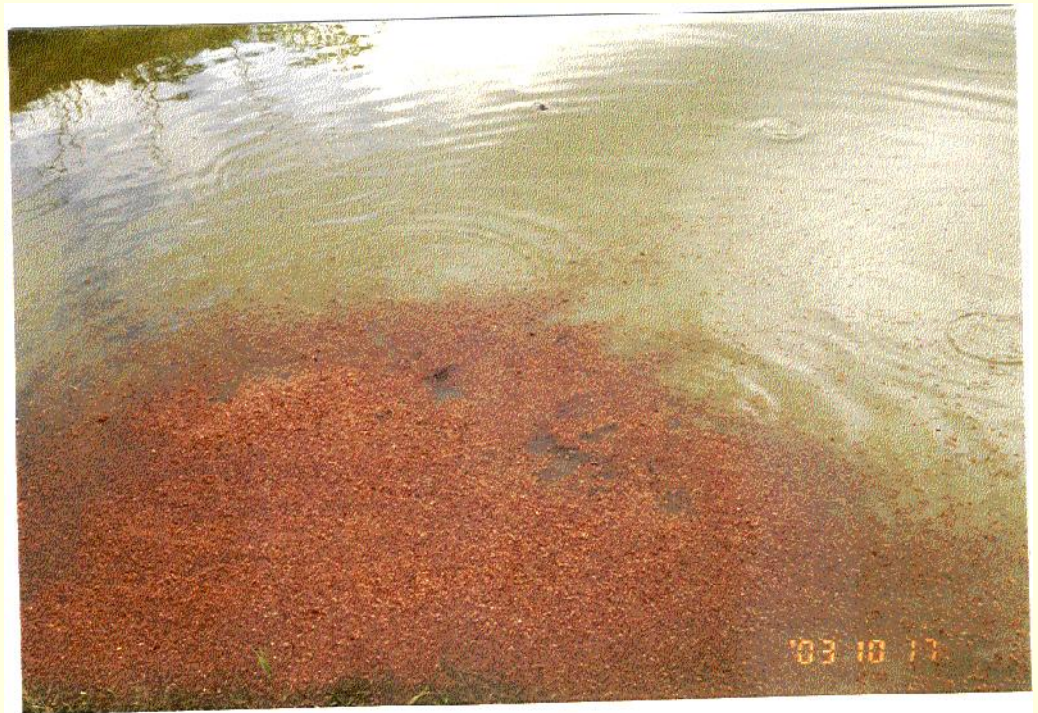




# Pond Records: Feeding, Other Supplies

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- ❖ Type of feed
  - Daily feeding
  - Total feeding
- ❖ Type of fertilizer
  - Date, quantity, type



# Pond Records: Unit Cost

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<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Cost/unit</u>
Fingerling			
Feed			
Fertilizer			
Labour			
Energy			
etc			



# Pond Records: Sale Prices

Date

Price received



# Pond Records: Rate Of Use Of The Supplies

<u>Indicator</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year</u>
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## ❖ STOCKING

- Averaged stocking density per m<sup>2</sup>
- Total stocking of the farm.

## ❖ HARVEST

- No. of harvested life tilapia /ha
- kg of harvest whole tilapia/ha
- kg of harvest whole tilapia /farm

# Pond Records: Rate of Use of the Supplies

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<u>Indicator</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>
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❖ FERTILIZER:

- kg fertilizer/ha
- kg fertilizer/pond
- kg fertilizer/farm

❖ FEED

- kg feed/ha
- kg feed/pond
- kg feed/farm



# Pond Records: Rate of Use of the Supplies

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Indicator

Year 1

Year 2

Year 3

❖ Management/labor

- Labor hrs /ha
- Labor hrs /farm
- Labor hrs/kg
- Management cost/ha
- Management cost /farm
- Management cost /kg

# Summary

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- Manual on Tilapia Farm Business Management and Economics
- Training Workshops in 2004

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