

ABOUT THE PRODUCER AND BACKGROUND OF THIS SIMPLE RECORD KEEPING BOOK

In recent years, the coastal and Tam Giang lagoon fisheries resources in Hue have been decreasing rapidly. Illegal, unregulated and unreported fishing and aquaculture practices are widespread, causing coastal degradation, decline in wild fish stocks, and poverty within coastal fishing communes. Fishing communes that are already vulnerable to natural disasters and other shocks recognize the need for better management plan and for adopting wise practices that are more appropriate for the ecosystem and the people.

In 1998, the Government of Vietnam and the Provincial People's Committee of the Thua Thien Hue Province, located in central Vietnam, requested technical assistance from the Food and Agriculture Organization of the United Nations (FAO) in the sustainable management of the aquatic resources of the Tam Giang lagoon. In 2005, with financial support from the Italian Government, FAO started implementation of a project aiming at improving the livelihoods of the people dependent on the Tam Giang Lagoon by promoting a participatory sustainable management of the hydro-biological resources. Based on the existing socio-economic and production systems, and with particular emphasis on the gender roles, the project aims at enhancing people's food security and the reduction of poverty in the lagoon area. The project is entitled "Integrated Management of Lagoon Activities in Thua Thien Hue Province" or the IMOLA Hue project (GCP/VIE/029/ITA).

This field tested Simple Record Keeping Book is prepared as a part of the activities by the IMOLA Hue project to assist local fish farmers to record and monitor environmental and economic conditions of their aquaculture activities more efficiently and accurately.

WHY KEEPING RECORD?

A small-scale fresh water fish farm should be managed efficiently to maintain and increase productivity and profitability. Fish farmers should keep track of all their inputs and outputs so that production costs, sales, and net income can be easily calculated to evaluate the overall economic performance of the fish farms. Also to sustain productivity, the environmental conditions need to be monitored closely to avoid pollution and fish diseases.

It is a good hands-on practice to maintain farm management records. Records are needful to identify problems in the pond environment and fish health and to minimize these constraints at the earliest during the production cycle. Record keeping also helps the fish farmers to learn from past mistakes, thus reducing risk, hazards and costs of production in subsequent crops. Records are useful to plan the entire crop cycle including stocking densities for each pond, well ahead of its start. Farm records ideally should contain details on pond preparation, fingerlings and its stocking, feed management, water quality parameters and its management, pond bottom management, fish health and harvest.

By reviewing the data in the record keeping book, fish farmers can determine the ways of increasing productivity of their fish ponds for the next crop cycle, based on the lesson learned from the previous cycles. At the same time, the farmers can assess the causes of environmental pollution and their relationship with their production activities. This simple record keeping book can assist the farmers to monitor the environmental and economic conditions of their production in ponds in a simple and easy way.

This record keeping book would be most useful for the farmers with a few small fresh water fish ponds (1-3).

THE MAIN PURPOSE OF THE RECORD KEEPING IS TO:

- Enable farmers to develop their production in an environmentally sustainable way (by monitoring water environment and water quality of fish ponds as daily/weekly/yearly basis), i.e., what kinds of environmental changes are occurring in the production area and what would be the potential reasons?
- Assist farmers to understand the economic conditions of their culture facility (fresh water fish ponds) better and accurately, i.e., how much cost (drying pond, removing fish eaters, bush clearance, repairing inlet/outlet, dyke compaction, fingerings, feed, fertilizers, lime, medicines, etc.), sales, net profit, etc. the production requires/makes?
- Help farmers manage their pond farms better by keeping a daily/monthly/yearly record of culture activities and transactions over a culture period, which enable farmers to evaluate performance of their activities and determine ways and means of further improvement economically and environmentally.
- Enable farmers to increase the quality and efficiency of their production and income while maintaining environmental conditions.
- Use the record keeping book for monitoring of pond farming activities and support for fish farmers by the government extensionists.
- Maintain production records for accessing credit, micro-finance, or insurance services from financial institutions (as these institutions often ask for the records of production, which cannot be prepared overnight).
- Ensure the traceability of the products although most of the products are currently for local market, processors and exporters these days request the information on production, especially for foreign market.

Note: This Simple Record Keeping Book is developed principally for the use by local fish farmers. However, the provision of clear guidance to local fish farmers through regular monitoring visits by government extensionists is essential to maintain the effectiveness and accuracy of record keeping. Government extensionists need to assist the fish farmers to check their record keeping book and provide further suggestions for improvement based on the finding and discussion with local fish farmers.

WHAT IS INCLUDED IN THIS RECORD KEEPING BOOK?

This record keeping book has three main components:

(1) General Information of the Fish Farmer

You will register your personal and household profiles here. Please make sure you fill this sheet before start using the record keeping book.

(2) Monitoring Water Quality

In this part, you will record the result of your periodic water quality monitoring. This part contains the following three sheets to assist you:

- Water quality monitoring sheet (daily/weekly)
- Water quality monitoring sheet (monthly)
- Water quality monitoring sheet (yearly)

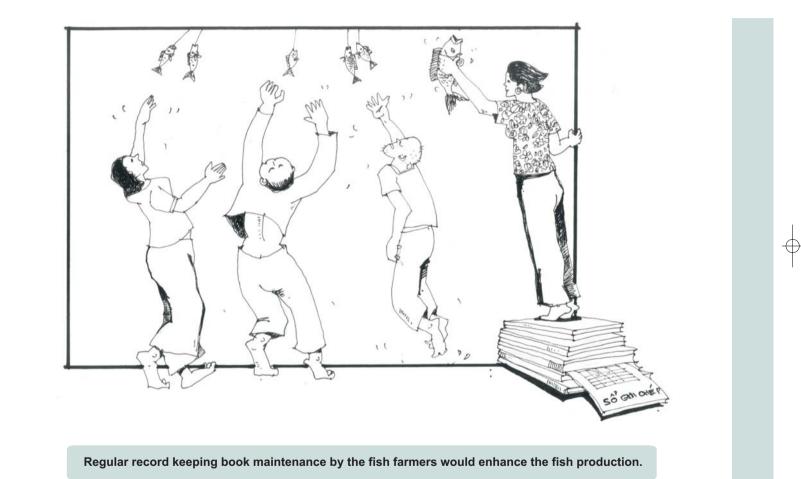
(3) Basic Accounting and Economic Record Keeping

In this part, you will record the economic information about your culture activities. This part contains the following three sheets to assist you:

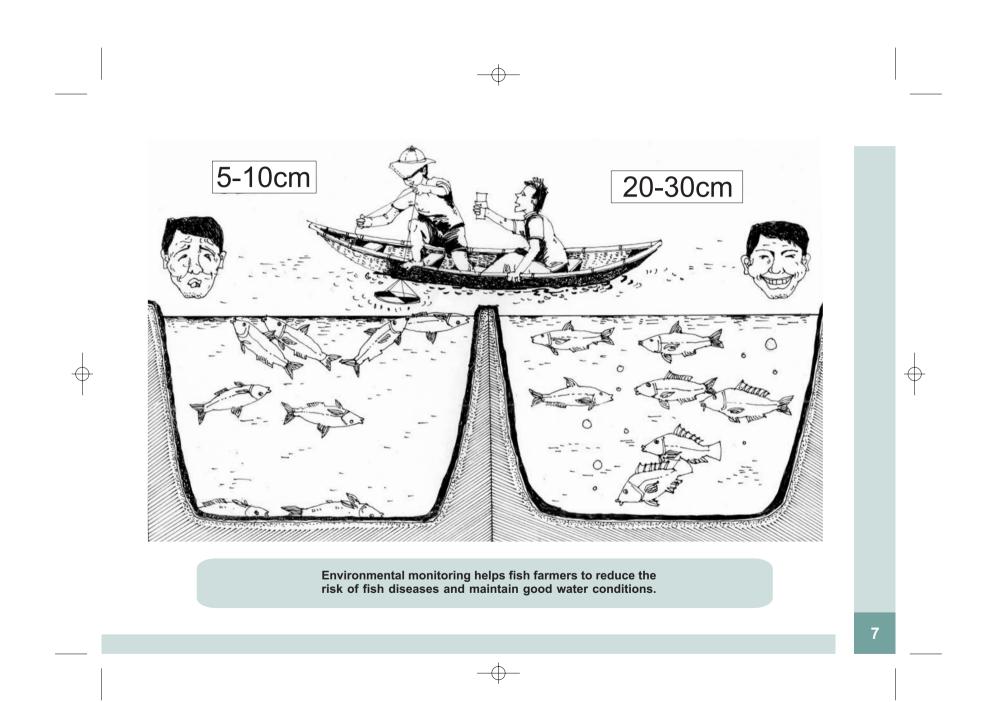
- Fish stocking record sheet
- Pond (Grow-out/Nursery/Cemented) farming record sheet (monthly)
- Pond (Grow-out/Nursery/Cemented) farming record sheet (yearly)

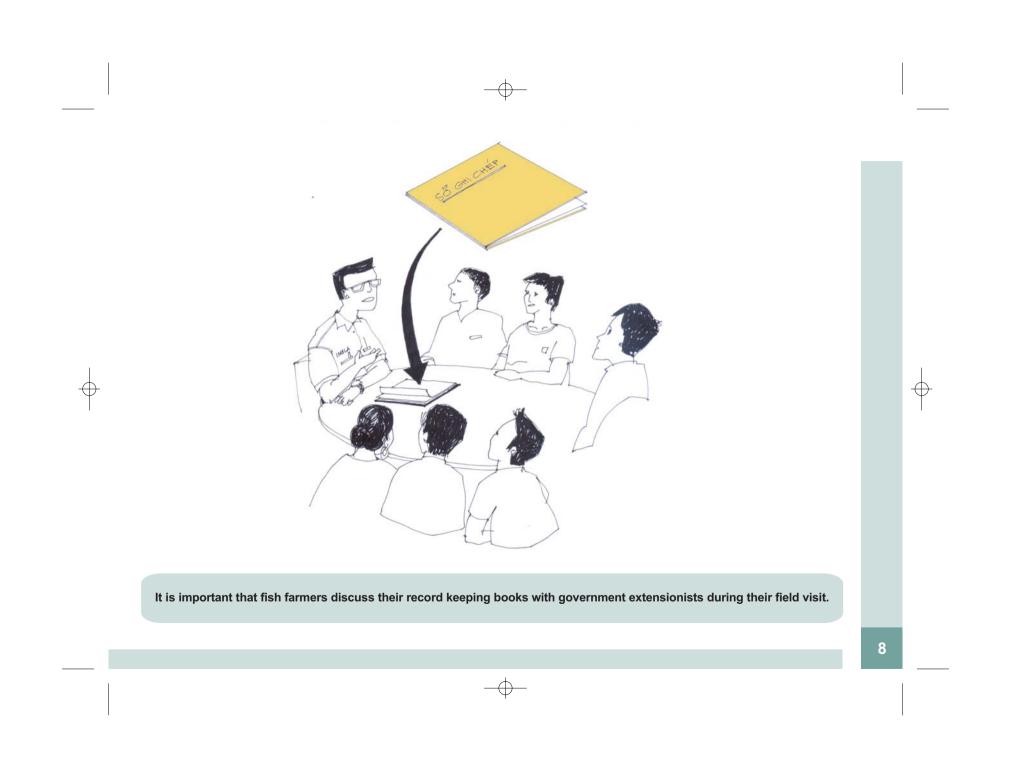
It is very important that you keep record of all required items carefully. Good record keeping will give you good advice and suggestions for further improvement!!

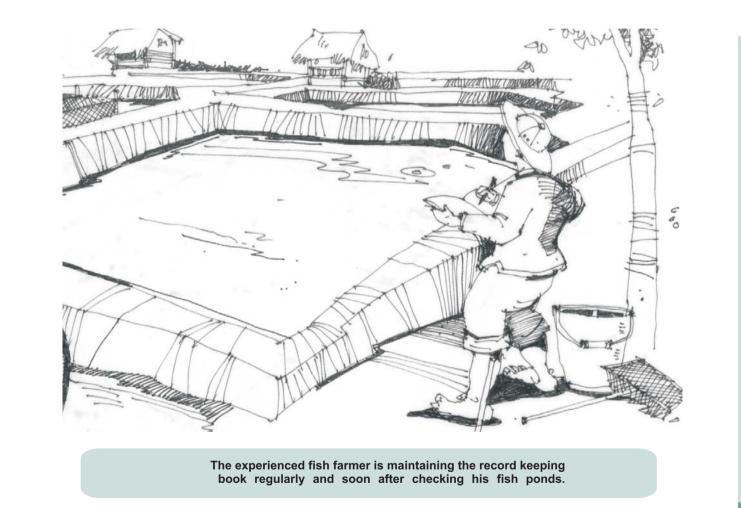
The next six slides provide you with some instruction about how to use this record keeping book.



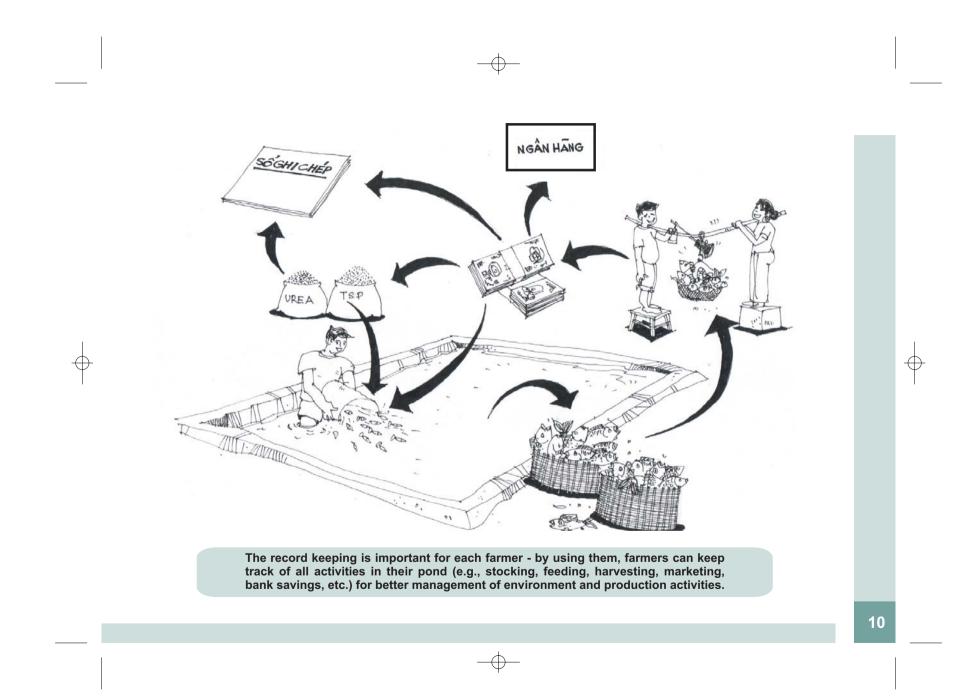
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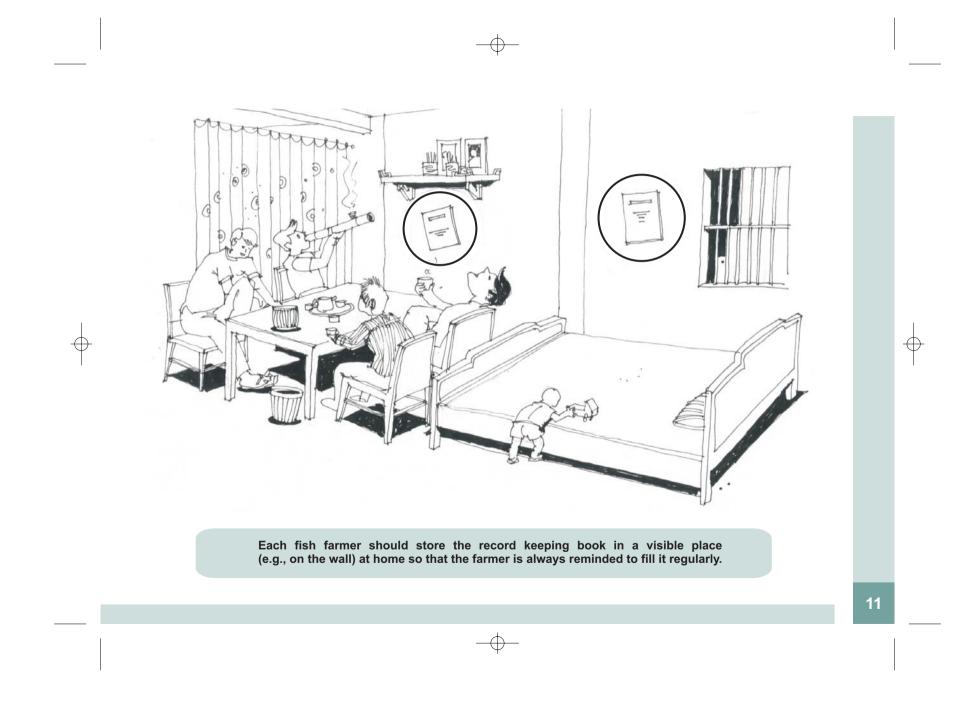






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GENERAL INFORMATION ON THE FISH FARMER

N	Name:
S.	Address:
S.	Age:
N	Sex (Male/Female):
S.	Education:
12	Number of Family Members:
ST.	Number of Workers:
	Number of Ponds:
	Size of Each Pond:

Note: Name, age, sex, and education are only required for household head. The number of workers is the number of people working in/for the culture facilities. This may include non-family members.

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WATER QUALITY MONITORING SHEET (DAILY/WEEKLY)

A Week from 12/01/2008 (Mon) through 18/01/2008 (Sun) (Use Lunar Calendar)

		P	ond Number	:		
Day/Date (dd/mm/yyyy)		Feeding Time (Write feeding time)				
	Observation/Remedial Measures Taken [Example: use of medicine (KMnO4, Salt water (Nacl), Bronze sulphate, Sulphate (CuSO4), Formalin, Vitamin C, KN-04-12, Vaccine Reovirus, Chinese herbal medicine: berry leaves (lá xoan), Garlic and milk grass, lime, etc.]	Morning	Noon	Afternoon		
MONDAY						
TUESDAY						
WEDNESDAY						
THURSDAY 15/01/2008	[Example] Duckweed 50kg (locally harvested) x 3times Water color looks dark brown, water smell rotten, water temp. is low so that fish growth turns slow	07:00	13:00	17:00		
FRIDAY						
SATURDAY						
SUNDAY						

• Whenever you feed your fish, please record feed type, quantity, and source as well as feeding time.

• Please take note of any observation (e.g., smell or color change), event that may affect water quality (e.g., natural hazards), or remedial action you took in fish ponds.

MONTH & Y	/EAR: <u>Jan 200</u>	<u>8 (</u> Use Lunai	r Calendar)		Pond Num	nber:
			Water quality pa	arameters		
Week	рН	Alkalinity (ppm)	Temperature (°C)	Water level (m)	Water color	Transparency (cm)
(Example) 1	6	19 ppm	17 °C	1.0 m	Dark brown	47 cm
2	6.5	22 ppm	19 °C	1.0 m	Dark brown	42 cm
3	7.5	20 ppm	15 ℃	1.0 m	Dark brown	40 cm
4	7.0	21 ppm	15 °C	1.0 m	Greenish	41 cm
5						
Ave.	6.75	20.5 ppm	16.5 °C	1.0 m	Constant / Change	42.5 cm

1. Water quality monitoring is necessary once a week, desirably on the same day of the week (e.g., every Thursday).

- 2. At the end of the final week of a month, calculate the average for the month.
- 3. For the last column for water color, state if there is any change in color during the month.

WATER QUALITY MONITORING SHEET (YEARLY)

YEAR:	<u>Jan 2008 (</u> U	se Lunar Calenc	lar)		Pond Nun	nber:
Month			Water quality pa	arameters		
WOITT	рН	Alkalinity (ppm)	Temperature (°C)	Water level (m)	Water color	Transparency (cm)
Jan.	(Example) 6.75	20.5 ppm	16.5°C	1.1 m	Change	42.5 cm
Feb.						
Mar.						
Apr.						
May						
Jun.						
Jul.						
Aug.						
Sep.						
Oct.						
Nov.						
Dec.						
Ave.					Constant / Change	

1. Copy monthly average data from monthly monitoring sheet (previous page).

2. At the end of a year, calculate the average for the year.

3. For the last column for water color, state if there is any change in color during the year.

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Pond #	Date of Stocking	Source of Fingerling	Species Stocked	Status of Fingerling Stocked	Standard Fingerling Size (cm)	Number of Fingerlings Stocked
(Example) 1	10 April 2008	(1)Hue Fish station (2)District hatchery	(1) Silver carp (2) Tilapia	(1) Bright color, fast movement(2) Pale color, sluggish movement	(1) 12 - 15cm (2) 4 - 6cm	 (1) 2-3 fingerlings/m² (2) 2 fingerlings/m²

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* For species stocked, see also the illustrations of fish species on the following pages.

COMMONLY CULTURED FISH SPECIES IN FRESH WATER FISH PONDS

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ish Species (English/Vernacular/Latin Names)	Fish Illustration
Hybrid catfish / Cá trê lai <i>(Clarias spp.)</i>	And and an and and
Climbing perch / Cá rô đồng (Anabas testudineus)	
Snakehead / Cá lóc (Channa striata)	

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COMMONLY CULTURED FISH SPECIES IN FRESH WATER FISH PONDS (Cont'd)

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Fish Species (English/Vernacular/Latin Names)	Fish Illustration
Grass carp / Cá trắm cỏ (Ctenopharyngodon idella)	
Common carp / Cá chép (Cyprinus carpio)	
Silver carp / Cá mè trắng (Hypophthalmichthys molitrix)	
Rohu / Cá trôi Ấn Độ (Labeo rohita)	

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COMMONLY CULTURED FISH SPECIES IN FRESH WATER FISH PONDS (Cont'd)

Fish Species (English/Vernacular/Latin Names)	Fish Illustration
Bighead carp / Cá mè hoa (Aristichthys nobilis)	
Pacu / Cá chim trắng (Piaractus brachypomum)	
Nile tilapia / Cá rô phi vằn (Oreochromis niloticus)	

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POND (Grow-out/Nursery/Cemented) FARMING RECORD SHEET (MONTHLY)

MONTH & YEAR: Jan 2008 (Use Lunar Calendar)

Date	Activities/Actions Taken	Money Spent		Fish Ha	rvest / Loss	Remain	Remaining Fish Balanc		
Date	Activities/Actions Taken	(Variable Costs)	Sa	es	Non-Sales	- Kemain	ing i isii i	Dalance	
		Total Cost (VND)	Quantity (# & kg)	Income (VND)	(e.g., family use, given free, loss) (#	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)	
(Example) 1	Stocked fingerling in pond #1	200,000				350			
20	Applied fertilizers pond #1	50,000							
25	Family consumption				10	340			
31	Sold to the market		100 20kg	600,000		240			
Total		250,000	100 20kg	600,000	10	240			
Fingerlings	ral, supplementary, and factory-r or fish		or hiring worke tation of finge neous		for sale	lf you have mo extra column(s			

1. Enter data when any activity/action is taken (if you are stocking several species in one pond, divide the columns or assign ID for each species as you like so that you can record data for each species separately).

2. At the end of every month, calculate the total for each item.

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POND (Grow-out/Nu	rsery/Cemen	ted) FARMIN	G REC	ORD S	HEET (YEAR	LY)	
200	<u>8</u> (U	se Lunar Cale	endar)						
Money Spent (A)					Remaining Fish Balance in Ponds			Net Profit (B-A) Total	
Total Cost (VND)	Quantity (# & kg)	Income (VND)	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)	Total (#)	Total (VND)	
(Example) 250,000	100 20kg	600,000	10	240				350,000	
	200 Money Spent (A) Total Cost (VND) (Example) 250,000	2008 (U Money Spent (A) Fi Total Cost (VND) Quantity (# & kg) (Example) 100 250,000 20kg 100 20kg 250,000 20kg 100 20kg 100 20kg 100 20kg 100 20kg 100 100 100 20kg 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	2008 (Use Lunar Cale Money Spent (A) Fish Harvest / Lo Total Cost (VND) Quantity (# & kg) Income (VND) (Example) 100 000.000	Use Lunar Calendar) Money Spent (A) Fish Harvest / Loss Total Cost (VND) Quantity (# & kg) Income (VND) (e.g., family use, given free, loss) (#) (Example) 100 600,000 10 250,000 20kg 600,000 10 (Image: Control of the cont	Use Lunar Calendar) Money Spent (A) Fish Harvest / Loss Remaining Total Cost (VND) Quantity (# & kg) Income (VND) (e.g., family use, given free, loss) (#) Pond 1 (Example) 100 600,000 10 240 250,000 20kg 600,000 10 240 Image: Space of the system free, loss) 10 240 10 240 Image: Space of the system free, loss) 10 240 10 240 Image: Space of the system free, loss) 10 240 10 240 Image: Space of the system free, loss) 10 240 10 240 Image: Space of the system free, loss) 10 240 10 10 240 Image: Space of the system free, loss) 10 10 240 10	Use Lunar Calendar) Money Spent (A) Fish Harvest / Loss Remaining Fish B Total Cost (VND) Quantity (# & kg) Income (VND) (e.g., family use, given free, loss) (#) Pond 1 Pond 2 (#) (Example) 250,000 100 20kg 600,000 10 240 Income (VND) Image: Comparison of the state of t	$\begin{array}{ c $	Money Spent (A) Fish Harvest / Loss Sales (B) Non-Sales Remaining Fish Balance in Ponds Total Cost (VND) Quantity (# & kg) Income (VND) (e.g., family use, given free, loss) (#) Pond 1 Pond 2 Pond 3 Total (#) Total (#) (Example) 250,000 100 20kg 600,000 10 240 (Income (VND) 250,000 100 20kg 600,000 10 240 (Income (VND) 250,000 100 240 <td< td=""></td<>	

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Net Profit = Sales (B) - Money Spent (A)

Copy monthly average data from monthly record sheet (previous page).
 Calculate net profit using the sales and cost (=money spent) data.
 At the end of a year, calculate total for the year.

DISCUSS AND SHARE YOUR RECORDS WITH OTHERS

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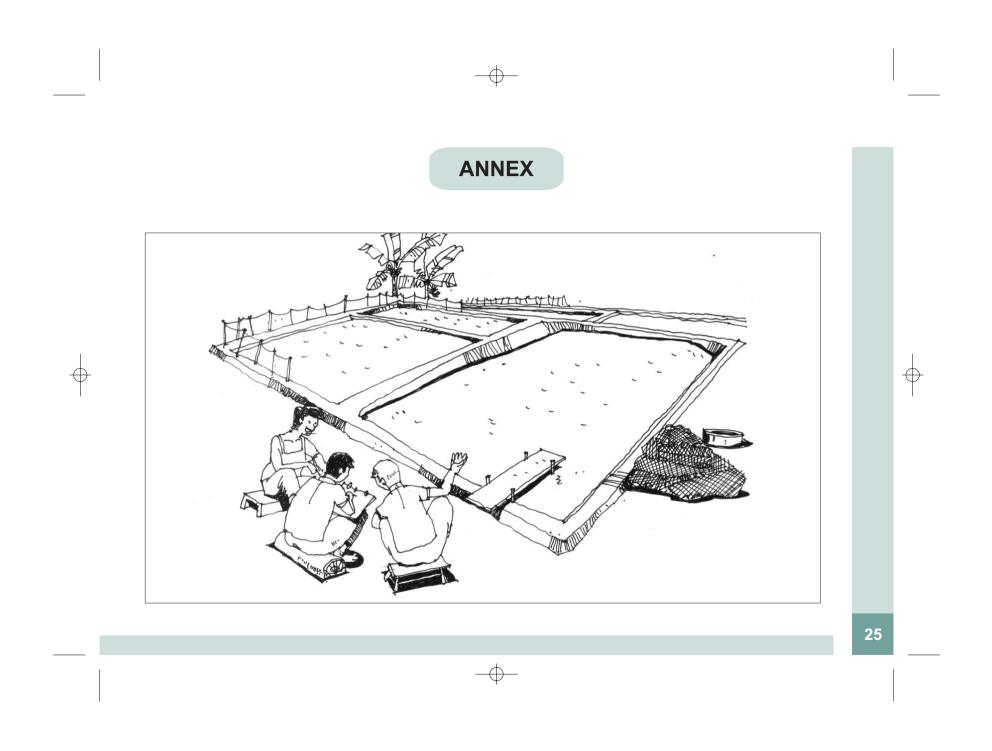
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During and at the end of the record keeping for a year (or even at the beginning of the next production cycle), have a discussion and share findings with others including your family members, other fish farmers, government extensionists, and others. For instance, you can talk of: Is the net profit increased compared to the last season/year? Is the environmental conditions improved • compared to the last season/year? Is there any identifiable problems environmentally or economically? What would be the reason(s)? Can the cost be reduced in the next production • cycle? Is there any other way to enhance net profit? • Is there any significant change in environmental conditions? If yes, what would be the potential reason(s) for the change? Is there any issue that farmers can solve jointly? What is your/group strategy for the next production cycle? Good discussion ensures good strategy and improvement for 15 kg the future!!



WATER QUALITY MONITORING SHEET (DAILY/WEEKLY)								
	A Week fromthrough(Use Lunar C	alendar)					
		P	ond Number	·				
Day/Date	Feeding Record (Type, Quantity, and Source) Observation/Remedial Measures Taken	Feeding Tir	ne (Write fe	eding time)				
(dd/mm/yyyy)	[Example: use of medicine (KMnO4, Salt water (Nacl), Bronze sulphate, Sulphate (CuSO4), Formalin, Vitamin C, KN-04-12, Vaccine Reovirus, Chinese herbal medicine: berry leaves (lá xoan), Garlic and milk grass, lime, etc.]	Morning	Noon	Afternoon				
MONDAY								
TUESDAY								
WEDNESDAY								
THURSDAY								
FRIDAY								
SATURDAY								
SUNDAY								

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WATER QUALITY MONITORING SHEET (DAILY/WEEKLY)								
	A Week fromthrough(Use Lunar C	alendar)					
Pond Number:								
Day/Date	Feeding Record (Type, Quantity, and Source) Observation/Remedial Measures Taken	Feeding Ti	me (Write fe	eding time)				
(dd/mm/yyyy)	[Example: use of medicine (KMnO4, Salt water (Nacl), Bronze sulphate, Sulphate (CuSO4), Formalin, Vitamin C, KN-04-12, Vaccine Reovirus, Chinese herbal medicine: berry leaves (lá xoan), Garlic and milk grass, lime, etc.]	Morning	Noon	Afternoon				
MONDAY								
TUESDAY								
WEDNESDAY								
THURSDAY								
FRIDAY								
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SUNDAY								

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WATER QUALITY MONITORING SHEET (DAILY/WEEKLY)							
,	A Week fromthrough(Use Lunar C	alendar)				
		Р	ond Number	·			
Day/Date	Feeding Record (Type, Quantity, and Source) Observation/Remedial Measures Taken	Feeding Ti	me (Write fe	eding time)			
(dd/mm/yyyy)	[Example: use of medicine (KMnO4, Salt water (Nacl), Bronze sulphate, Sulphate (CuSO4), Formalin, Vitamin C, KN-04-12, Vaccine Reovirus, Chinese herbal medicine: berry leaves (lá xoan), Garlic and milk grass, lime, etc.]	Morning	Noon	Afternoon			
MONDAY							
TUESDAY							
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THURSDAY							
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SUNDAY							

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WATER QUALITY MONITORING SHEET (DAILY/WEEKLY)							
	A Week fromthrough(Use Lunar C	alendar)				
		Р	ond Number	·			
Day/Date	Feeding Record (Type, Quantity, and Source) Observation/Remedial Measures Taken	Feeding Ti	me (Write fe	eding time)			
(dd/mm/yyyy)	[Example: use of medicine (KMnO4, Salt water (Nacl), Bronze sulphate, Sulphate (CuSO4), Formalin, Vitamin C, KN-04-12, Vaccine Reovirus, Chinese herbal medicine: berry leaves (lá xoan), Garlic and milk grass, lime, etc.]	Morning	Noon	Afternoon			
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TUESDAY							
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WATER QUALITY MONITORING SHEET (DAILY/WEEKLY)							
	A Week fromthrough(Use Lunar C	alendar)				
		P	ond Number	·			
Day/Date	Feeding Record (Type, Quantity, and Source) Observation/Remedial Measures Taken	Feeding Ti	ne (Write fe	eding time)			
(dd/mm/yyyy)	[Example: use of medicine (KMnO4, Salt water (Nad), Bronze sulphate, Sulphate (CuSO4), Formalin, Vitamin C, KN-04-12, Vaccine Reovirus, Chinese herbal medicine: berry leaves (lá xoan), Garlic and milk grass, lime, etc.]	Morning	Noon	Afternoon			
MONDAY							
TUESDAY							
WEDNESDAY							
THURSDAY							
FRIDAY							
SATURDAY							
SUNDAY							

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IONTH & YEAR:		(Use Lunar Calendar)			Pond Number:		
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)	
1							
2							
3							
4							
5							
Ave.					Constant / Change		

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MONTH & YEAR:		(Use Lunar Calendar)			Pond Number:		
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)	
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3							
4							
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Ave.					Constant / Change		

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IONTH & YEAR:		(Use Lunar Calendar)			Pond Number:		
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)	
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Ave.					Constant / Change		

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IONTH & YEAR:		(Use Lunar Calendar)			Pond Number:		
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)	
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2							
3							
4							
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Ave.					Constant / Change		

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IONTH & YEAR:		(Use Lunar Calendar)			Pond Number:		
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)	
1							
2							
3							
4							
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Ave.					Constant / Change		

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IONTH & YEAR:		(Use Lunar Calendar)			Pond Number:		
			Water quality pa	arameters			
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)	
1							
2							
3							
4							
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Ave.					Constant / Change		

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IONTH & Y	'EAR:	(Use L	unar Calendar)		Pond Nun	nber:
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)
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IONTH & Y	'EAR:	(Use L	unar Calendar)		Pond Nun	nber:
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)
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Ave.					Constant / Change	

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MONTH & Y	'EAR:	(Use L	unar Calendar)		Pond Nun	nber:
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)
1						
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3						
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Ave.					Constant / Change	

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IONTH & YE	EAR:	(Use L	unar Calendar)		Pond Nun	nber:
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)
1						
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3						
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Ave.					Constant / Change	

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IONTH & Y	'EAR:	(Use L	unar Calendar)		Pond Nun	nber:
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)
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IONTH & Y	'EAR:	(Use L	unar Calendar)		Pond Nun	nber:
Week	рН	Alkalinity (ppm)	Temperature (^o C)	Water level (m)	Water color	Transparency (cm)
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WATER QUALITY MONITORING SHEET (YEARLY)

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YEAR:	(Use Lunar Calend	ar)		Pond Nun	nber:
Month			Water quality p	arameters		
	рН	Alkalinity (ppm)	Temperature (°C)	Water level (m)	Water color	Transparency (cm)
Jan.						
Feb.						
Mar.						
Apr.						
May						
Jun.						
Jul.						
Aug.						
Sep.						
Oct.						
Nov.						
Dec.						
Ave.					Constant / Change	

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Pond #	Date of Stocking	Source of Fingerling	Species Stocked	Status of Fingerling Stocked	Standard Fingerling Size (cm)	Number of Fingerlings Stocked
		TRAIGONG			.1.1.1.1.1.1.	

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Date	Activities/Actions Taken	Money Spent			rvest / Loss	Remaining Fish Balance		
		(Variable Costs)	Sales		Non-Sales			
		Total Cost (VND)	Quantity (# & kg)	Income (VND)	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)

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Date	Activities/Actions Taken	Money Spent			rvest / Loss	Remaining Fish Balance			
		(Variable Costs)	Sales		Non-Sales				
		Total Cost (VND)	Quantity (# & kg)	Income (VND)	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)	

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Date	Activities/Actions Taken	Money Spent			rvest / Loss	Remaining Fish Balance		
		(Variable Costs)	Sales		Non-Sales			
		Total Cost (VND)	Quantity (# & kg)	Income (VND)	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)

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Date	Activities/Actions Taken	Money Spent (Variable Costs)	Sal	Fish Ha	Remaining Fish Balance			
		Total Cost		Income (VND)	Non-Sales (e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)
Total								

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Date	Activities/Actions Taken	Money Spent			rvest / Loss	Remain	ing Fish I	Balance
			(variable Costs) Sales Non-Sales					
		Total Cost (VND)	Quantity (# & kg)	Income (VND)	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)

 $- \oplus -$

Date	Activities/Actions Taken	Money Spent (Variable Costs)	Sal		rvest / Loss Non-Sales	Remain	ing Fish	Balance
		Total Cost (VND)		Income (VND)		Pond 1 (#)	Pond 2 (#)	Pond 3 (#)
Total								

 $- \oplus -$

Date	Activities/Actions Taken	Money Spent			rvest / Loss	Remain	ing Fish I	Balance
		(Variable Costs)	Sa		Non-Sales			
		Total Cost (VND) Quantity (# & kg) Income (VND) (e.g., family u given free, loss	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)		

 $-\oplus$

Date	Activities/Actions Taken	Money Spent			rvest / Loss	Remain	ing Fish I	Balance
		(Variable Costs)	Sa		Non-Sales			
		Total Cost (VND) Quantity (# & kg) Income (VND) (e.g., family u given free, loss	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)		

 $-\oplus$

52

Date	Activities/Actions Taken	Money Spent		Fish Ha	rvest / Loss	Remain	ing Fish	Balance
Dutt	Activities/Actions Taken	(Variable Costs)	Sa		Non-Sales			
		Total Cost (VND)	Quantity (# & kg)	Income (VND)	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)

 $-\oplus$

Date	Activities/Actions Taken	Money Spent			rvest / Loss	Remain	ing Fish I	Balance
		(Variable Costs)	Sa		Non-Sales			
		Total Cost (VND) Quantity (# & kg) Income (VND) (e.g., family u given free, loss	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)		

 $-\oplus$

54

Date	Activities/Actions Taken	Money Spent			rvest / Loss	Remain	ing Fish I	Balance
		(Variable Costs)	Sa		Non-Sales			
		Total Cost (VND) Quantity (# & kg) Income (VND) (e.g., family u given free, loss	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)		

 $-\oplus$

Date	Activities/Actions Taken	Money Spent		Fish Ha	rvest / Loss	Remain	ing Fish	Ralance
Dute		(Variable Costs)	Sa		Non-Sales			
		Total Cost (VND)	Quantity (# & kg)	Income (VND)	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)
Total								

 $- \oplus -$

EAR:		(l	Jse Lunar Cal	endar)					
Month	Money Spent (A)	Final Sale	ish Harvest / Lo s (B)	oss Non-Sales	Remain	ing Fish I	Balance i	n Ponds	Net Profit (B-A)
	Total Cost (VND)	Quantity (# & kg)	Income (VND)	(e.g., family use, given free, loss) (#)	Pond 1 (#)	Pond 2 (#)	Pond 3 (#)	Total (#)	Total (VND)
Jan.									
Feb.									
Mar.									
Apr.									
May.									
Jun.									
Jul.									
Aug.									
Sep.									
Oct.									
Nov.									
Dec.									
Grand Total									

- - -

POND (Grow-out/Nursery/Cemented) FARMING RECORD SHEET (YEARLY)

Net Profit = Sales (B) - Money Spent (A)

SIMPLE RECORD KEEPING FOR FISH FARMERS (Fresh Water Fish Pond Culture Techniques)

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Cover photo courtesy of Kibria and Hai: "A view of fresh water fish ponds operating in the Vinh Giang commune"

Preparation of This Simple Record Keeping

The preparation of this Simple Record Keeping Book has mobilized the IMOLA project team as well as several experts from governmental, non-governmental, and academic institutions. The preparation was initially coordinated by Arie Pieter van Dujin and later by Baku Takahashi under the overall supervision by Massimo Sarti. The drafts were prepared by Md. Ghulam Kibria, Nguyen Quang Linh, and Vo Thi Tuyet Hong. Translation was undertaken by Ho Bich Huong Giang and Le Xuan Hoang, and drawings and layout design were prepared by Tran Vu Hai. Special thanks also go to Flavio Corsin, Nguyen Thi Phuoc Lai, Nguyen Nhu Tiep, and Raymon van Anrooy who provided useful comments on this Simple Record Keeping Book.

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