





Activies in 2004

· Carrying on WP3 to assess livelihoods and aquatic

1. Questionnaires survey: Baseline + Monitoring 1, 2, 3 regular over a year.



Progress in 2004			
Design Questionnaires in Bangkok	8 th -14 th Feb		
Baseline & Monitoring 1 surveyed	14 th Apr to 18 th Jun		
Monitoring 2 surveyed	15 th Aug. to 30 th Sep.		
Access database training	11 th -15 th Oct.		
Data entry	11 th Oct -20 th Nov.		
Water sampling	28 th Oct4 th Nov.		
Primary analysis/make presentation	20 th Nov. – 29 th Nov.		





Numbers of Household surveyed and aquatic production systems			
Commune	No. HHs	Aquatic production systems	
Tran Phu	53	- Fish polyculture in wastewater	
		- Water morning glory/dropwort	
Hoang Liet	30	- Water mimosa/dropwort,	
		- Water morning glory/ dropwort/cress	
		- Water morning glory/dropwort,	
Dong My	66	Fish seed in wastewater	
		Fish polyculture in wastewater	
Duc Tu	60	-Fish polyculture in non ww in VAC	
Total 209 Hou	seholds	system (garden, pond, livestock), - Rice/fish	











	Institution mer	nbership
No.	Name of some Institutions	Count No. of member involved
1	Joint Co-operative Organization	385
2	Farmer Union	385
3	Women Union	222 Total 1430
4	Youth Union	213 involved
5	Elderly Union	76
6	Trade Union	47
7	Party committee	28
8	Veterans Organization	19
9	Coeval Union	17 1389 50
10	Fish Farmers Organization	15 ordinary executive
11	Gardener Union	5 members positions
12	Civil defence	5
13	Bird culture Union	1





ate (%) of some assets in 4 communes				
Duc Tu*	Dong My*	Tran Phu*	Hoang Liet*	Analysis in 4 communes
98.3	100	100	96.6	99
95	98.5	98.1	83.3	95.2
86.7	68.2	83	70	77.5
	DME a Duc Tu* 98.3 95 86.7	Duc Tu* Dong My* 98.3 100 95 98.5 86.7 68.2	Duc Tu* Dong My* Tran Phu* 98.3 100 100 95 98.5 98.1 86.7 68.2 83	Duc Tu* Dong My* Tran Phu* Hoang Liet* 98.3 100 100 96.6 95 98.5 98.1 83.3 86.7 68.2 83 70



(*) Analysis rate (%) of HHs have asset/total number of HHs surveyed in one commune.





Systems	No. HH involved	Average size of system (m ²)	Average Productivity (Ton/ha/year)	No. crop
Fish nursing ww	58	2,028	For grow-out	2
Fish nursing Non ww	13	3,996	for grow-out	2
Non ww fish polyculture	45	<u>4,568</u>	4.54	1
WW Fish polyculture	67	7,910	<u>5.4</u>	2
WW fed Fish in swamp	20	<u>53,389</u>	<u>5.49</u>	4
Rice/fish	11	<u>67,872</u>	<u>1.46</u>	1
Prawn	6	12,656	0.35-1.08	1

Main systems: Aquatic vegetables				
Systems	No. HH involved	Average size of system (m ²)	Average Productivity (Ton/ha/year)	No. crop
Morning glory WW	64	589.06	87	1
Morning glory for fish livestock, HH consume	49	767.15	-	1
Mimosa/dropwort	18	864.94	153	2
Morning glory/ Dropwort/Cress	12	387.83	197	3
Morning glory/Dropwort	8	232.50	275	2
Mimosa/dropwort/cress	6	888.50	179	3
Morning glory/cress	3	156.00	230	2
Mimosa/cress	3	401.00	204	2



Year 3- Intervention in Duc Tu commune

- Training aquaculture techniques
- Formal training
- Visit Dong My commune
- Test HH's techniques by questionnaire before training and after 6 months (let's HHs do themselves)
- → Comparison techniques/production year 2005 and 2004

Trial	New seed	Polyculture	Nutrition	Fish Health management
х	x	x	Grass, Pig manure	x
x	x	x	Chicken manure	x
x	x	х	Dug manure	X
Control		х	Grass, Pig manure	x
		х	Chicken manure	x
		х	Dug manure	X
		х	Grass, Pig manure	
		x	Chicken manure	
		x	Dug manure	

Religion	
Difficult	Rank
Lack water for production	1
Lack of capital	2
Low quality of fish seed	3
Fish Disease	4
Lack access to market	5

Year 3- Intervention in Duc Tu commune



Intervention for ww fish pond Dong My commune

- Trial 2. Fish health management
- Apply suitable fish species /resistant with low quality of water environment
- Increasing nutrition for fish/effect
- → Questionnaire from: before and after apply management

Difficulties/problems in Tran Phu

Lack water for production	4
High input cost	112
Fall market price	3
Low quality of fish seed	4
Short time auction	5



Intervention for ww fed fish Tran Phu commune

Trial 2. Fish seed

- Increasing production by apply high quality fish seed: Tilapia, Common carp
- → Monitoring production/income by questionnaire and notebook

Difficulties/groblems	s in Hoang Liet
Difficult was	ite itew Rank
Lack water for production	The second second
Aquatic plants disease	2
Low quality of water	3
High input cost	4

Intervention for aquatic plants Hoang Liet commune

- Summary technique from HHs experience
- Reference technique from HCM, Phnompenh, BKK
- Make the Initial AP's booklet

Trial 1. Produc

- Let Agriculture cooperative as a deliver and keep name of HHs involved
- After a month come back with Questionnaire
- To give supplementary information from HHs
- → Complete Aquatic plant technique's booklet after 6 months

Intervention for aquatic plants Hoang Liet commune

- Trial 2. Apply IPM technique in aquatic plants/prevent AP disease
- To learn IPM knowledge from Institutions
- Apply suitable IPM land vegetables to aquatic plant
- → Monitoring/questionnaire and compare with last years



Problems and difficulties during year 2004

Database late: training, entry, analysis

PUSSA

- No plan water sampling for RIA1 from last P&P and meetings before – to remain passive
- Not enough time and capacity analysis data from new Access database for P&P meeting, only Baseline/<u>Not enough</u> evidence prepare for next intervention.
- Affect to progress next year: survey monitoring 3 + water sampling + intervention progress.

Planning in year 2005

15 Dec. to 30 Jan.
15 Dec. to 30 Jan.
Feb.
Feb. and Jun
Feb. to Sep.
Feb. to Sep.
SepDec.



