

## 11.2 Participatory Approach in the Pilot Project

### **11.2.1 Baseline Survey for the Pilot Projects**

**December 2003**

**Japan International Cooperation Agency (JICA)**

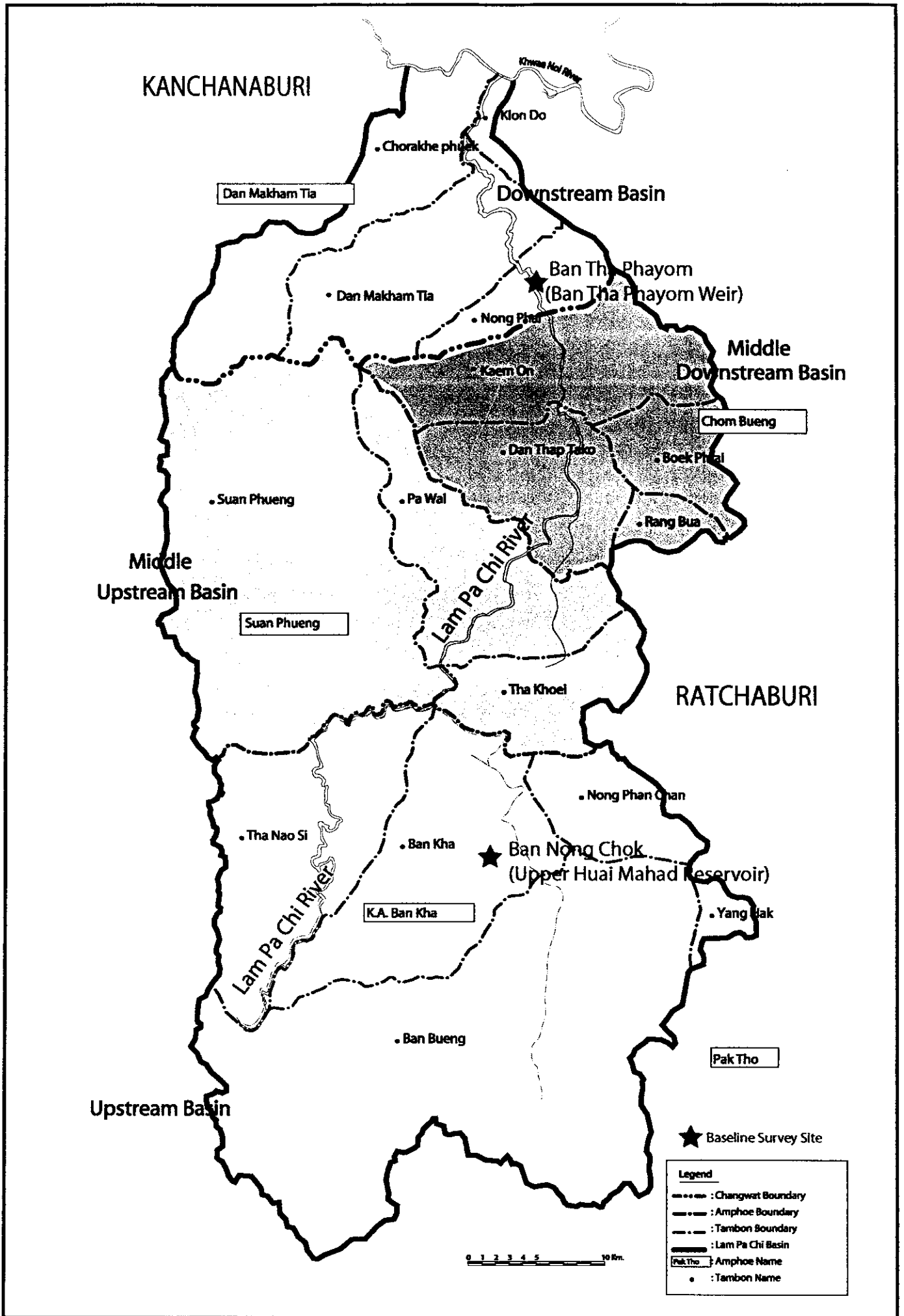
**Royal Irrigation Department (RID)**

**Study on Application of Participatory Planning  
in Rural and Agriculture Development Project  
in the Lam Pa Chi River Basin**

**Baseline Survey  
for the Pilot Projects**

**December 2003**

**Sanyu Consultants Inc.**



Location of Baseline Survey Site for Pilot Projects

## **OBJECTIVES**

Objectives of the baseline survey for the pilot projects are determined into two overall purposes as followings.

1. To seize the basic condition in the Pilot Project area, on quantitative aspect, to gathering the course of the participatory surveys.
2. To know particular condition of the Pilot Project area aiming to clarify the result to illustrate the current condition (Pre-condition) as to be one of the key indexes, which would be compared after the Pilot Project completion (Post-condition).

## OUTCOMES OF THE BASELINE HOUSEHOLD SURVEYS

### 1. Survey Area

Field survey is carried on in two villages of two Tambons (Sub-Districts) of Ratchaburi and Kanchanaburi Provinces. Those areas are:

- Ban Nong Chok (village no.4), Tambon Nong Phan Chan, Ban Kha Minor District of Ratchaburi Province, and
- Ban Tha Phayom (village No.4), Tambon Nong Phai, Dan Ma Kham Tia District of Kanchanaburi Province.

### 2. Target Group and Number of Samples

Field survey activities are based on questionnaires as shown in Appendix A, covering two different target groups, comprising of direct beneficiary households of the pilot project and possible future beneficiary households (or nearby households) in the same village. The total number of sample is 80, more details are in Table 2-1 whereas the name list of respondents is given in Appendix B.

**Table 2-1**  
**Number of Samples Based on Each Selected Province**

Province	Village's Name	Number of Samples		
		Direct Beneficiaries	Nearby Households	Total
Ratchaburi	Ban Nong Chok	24	26	50
Kanchanaburi	Ban Tha Phayom	20	10	30
<b>Total</b>		<b>44</b>	<b>36</b>	<b>80</b>

### 3. Survey Period

The survey was conducted during 17 – 25 November 2003.

### 4. Results of Field Survey

#### 4.1 Ban Nong Chok

##### (1) General Characteristic of respondents

Among 50 respondents, 68.00 percentage of them are married and the remaining are widow/divorce and single (18.00 and 14.00 percentage respectively). The sex ratio of the respondents 64.00 to 36.00 (female to male).

About 36.00 percent of the respondents are between 41-50 years old whereas approximately 24.00 and 20.00 percentage are between 51- 60 and over 60 years old respectively; and the rest of them are under 40 years of age (20.00%). The average age of them is 48.78 years old. For educational acquirement, most of them (84.00%) attained primary school, follow by upper grade of secondary school (M4-M6) and bachelor degree. It should be noted that about 10.00% are illiterate. The main occupation

of the respondents is agriculturist (98.00%), an average of 1 person (2.00%) works an industrial wage labor (Please see Appendix C and Table 1).

## **(2) Family Structure of Respondents**

Majority of household size in Ban Nong Chok sample villages lie between 3-4 persons per household (HH.); the average household size of them is about 3.24 persons per HH. The family size has a little variation among each group, that is the household size falls on direct beneficiary group is 3.25 persons per HH. while the nearby household group household size is 3.23 persons per HH. Male members are equal the female members with the ratio of 1 : 1 (male : female). Majority of family members are between 41-60 years old (35.19%). For educational level of family member, more than half of the family members (59.26%) accomplished their primary school and about 21.60 percent of the family members are student holding. About two-third of the family members (66.05%) are agriculturist, followed by trader, Industrial wage labor, government officer and private employees 6.17%, 1.85%, 1.85% and 1.23 respectively (more details are shown in Appendix C and Table 2).

## **(3) Family Assets**

When being asked about kinds of family assets, results of the survey reveal that

- Sedan car : Only one household (2.04%) has a car.
- Pickup truck : About 48.00% has a pickup truck.
- Motorcycle: Majority of them own motorcycles (82.00%), and 19.51 of this group have more than one.
- House : Most of them have their own house (94.00%), the rest live with their parents but in separated areas for plantation.
- Land holding : An average land is 32.44 rai per household with the multiple right owner. Majority of them (88.00%) have right owner with Por-Bor-Tor 5, the remains are Sor-Por-Kor 4-01 (45.00%), land rent (38.00%), free use 6.00%, and land leasing from other 4.00%.

For other family assets e.g. TV, electric fan, CD/stereo, refrigerator and agricultural machine and equipment, please see Appendix C and Table 3.

## **(4) Land Holding**

Land holding size of most households being interviewed is rather big area, which is accounted for an average land holding of 32.44 rai/HH. About 28.00% of total household is holding the size of 21-30 rai/HH. then followed between the size of 11-20 and up to 10 rai/HH (20.00 and 18.00 percentage respectively), When a consideration is made on land use characteristics, it is found that most of land use are for agriculture (27.61 rai/HH) then orderly followed by residential area, animal husbandry land, and lease out to the others with average sizes of 1.37, 1.20 and 0.67 rai/HH respectively.

Remarks : An average figure calculation is divided by the number of households of each group (as presented in Appendix C and Table 4).

## **(5) Agricultural Data/Information**

Regarding to the agricultural areas presented in the above article/item average 27.61 per/household, agriculturists cultivate rather diversified crops. The main/principal crops are sugarcane and pineapple whereas other plants, cultivated by a

few numbers of farmer, include animal feeding, corn, vegetable plant (such as asparagus, galingale, lemon grass, cucumber, and pumpkin) and orchards/perennial (for examples, mango, Logan, olive/elaecapas and bamboo). Date of the main crop cultivation are summarized as follows:

**Sugarcane:** More than a half of the interviewees (64.00 percentage) who plant sugarcane hold an average cultivated area of 22.78 rai/household with an average productivity of 11.02 ton/rai/year. Based on the two interviewing groups, their household produces are not much different, that is, the average sugarcane productivity lies between 11.53-10.44 ton/rai. Most of the sugarcane plantation rely on the rain-fed (93.75 percentage). The most popular sugarcane varieties being planted are K-92 (78.13 percentage) then orderly followed by K-200, 377 and macos respectively.

**Pineapple:** Approximately 90.00 percentages of all households who cultivate pineapple, acquire an average cultivated area of 15.10 rai/household (Remarks : average area of household who have already harvested) with an average production of 4.12 ton/tai/year; and almost of their pineapple plantation rely on rain-fed (97.78 percentage). The most popular cultivated variety is Black eyes/Ta Dam variety (95.56 percentage) and the remains are Pattawia variety.

Overall agricultural activities of households, the interviewees would cultivated approximately 2-4 varieties per household whereas most of the agriculture are based on rain-fed (Appendix C and Table 5).

#### **(6) Serious Agricultural Problems Required Agricultural Extension**

Serious agricultural problems being encountered by the interviewers based on this importance are prioritized only the first three priorities. The survey reveals that there is no much different the three top priority problems among the interviewees. The main problems found are insufficient water supply for agriculture, low price of agricultural products / low income and high price of agricultural inputs etc. Those occupys different proportions as follows:

- The first / most serious problem
  - Insufficient water for cultivation 40.50 %
  - Low price of production/low income 34.00 %
  - High price of inputs (e.g., seedling) 14.00 %
  - Lack of investment cost 4.00 %
- The second serious problem
  - High price of inputs (e.g., seedling) 36.00 %
  - Low price of production/low income 24.00 %
  - Insufficient water for cultivation 16.00 %
  - Pest problem 6.00 %
  - Low yield problem 4.75 %
- The third serious problem
  - High price of inputs (e.g., seedling) 28.00 %
  - Low price of production/low income 20.00 %

- Insufficient water for cultivation	16.00 %
- Lack of agricultural extension	6.00 %
- Pest problem	4.00 %

However, when being asked about agricultural extension needs it reveals that there are diversity needs. The first three priorities have rather high proportion as follows:

- The first priority need
  - Crop zoning 22.00 %
  - Provide seedling to the farmer 16.00%
  - Recommendation on cattle feeding animal husbandry/fish culture 14.00 %
  - Provide recommendation mushroom growing 12.00 %
  - Breed stock lending 8.00 %
- The second priority need
  - Provide recommendation for animal husbandry / fish culture 32.00 %
  - To sell agriculture inputs with low price to the farmer 12.00 %
  - Market system improvement (product / price guarantee / establishment of agricultural group for raise bargaining power) 8.00 %
  - Support the village fund 8.00 %
  - Orchard and vegetable planting promotion / extension 8.00 %
- The third priority need
  - Market system improvement (product / price guarantee / establishment of agricultural group for raise bargaining power) 14.00 %
  - To sell agriculture inputs with low price to the farmer 10.00 %
  - Recommendations for cattle / animal husbandry / fish culture 8.00 %
  - Support the village fund 8.00 %
  - To solve problem on insufficient water/ to increase water sources/ irrigation system/ canal dredging 8.00 %

For more details please see Appendix C and Table 6.

**(7) Diversified Crop Incase of Increasing More water Supply for Cultivation**

In response to the question, incase of agriculturists being supplied with much more agricultural water, whether they would cultivated other diversified crops and



how many cultivated areas (in rais) have to be transformed or diversified. Based on the field survey, most of the respondents (60.00 percentage) expected to transform/diversify some parts of their agricultural areas to plant other crops/plants while the remains (40.00 percentage) still insisted to cultivate the current plant varieties. All of the agricultural areas being expected to be transformed/diversified to other varieties would be 9.54 rais/household by average. Details of the transformed areas classified by diversified crops are presented in Appendix C and Table 7.

#### **(8) Income and Expenditure of Household**

In consideration on households/incomes include income from agricultural sector, business/trading related to agricultural sector (such as ploughing labour/land preparation for cultivation, middle man and lending land for agriculture etc.), and income from non-agricultural sector (such as general wage, industrial wage, trading, civil officials and others). It was found that an average household's income was approximately 323,560.20 Baht/year. Most of the households (32.00 percentage) have their incomes between 100,001-200,000 Baht/year then orderly followed between 200,001-300,000 less than 100,000 and more than 500,000 Baht/year (22.00, 16.00 and 16.00 percentages, respectively) as given in Appendix C and Table 8.

For households' expenditures, the household interviewees/respondents revealed an average expenditure of approximately 202,253.64 Baht which are classified into expenditure for agricultural sector about 113,691.22 Baht/year ; other expenditure related with agricultural activity about 3,025.40 Baht/year; and non-agricultural sector (including routine spending money or expenditure for oneself and family such as food, cloth and travelling costs as well as education cost for their children and health care cost, etc.) of approximately 85,536.90 Baht/year.

Regarding to households' debt, it was found that almost of the households (100.00 percentage) have an average debt of 76,850.00 Baht/household. Most of them (68.00 percentage) carried their debts less than 100,000 Baht/household.

On part of household saving, it was found that households of 68.00 percentage have an average household saving 20681.06 Baht/household/year as details given in Appendix C and table 9.

#### **(9) Provision/Buying of Production Inputs for Household**

**(a) Breeding Stock/Seeding** - All households buy production inputs themselves (not through grouping), whose provisions for main important plant/crop varieties are as follows:

**Sugarcane:** Most of them (75.00 percentage) buy from their neighbours, the second and third sources are middleman and quota head (18.75 and 6.25 percentages, respectively). For sugarcane stock, there are two ways/approaches including buying as trunk stocks and as wholesale of 1 rai (then making breeding stocks) with an average of 0.60 Baht/1 single stock and 8,564.52 Baht/rai respectively. For the wholesale of 1 rai, agriculturists could plant within an approximately 5-8 rais depending on density/fertility of the buying plots.

**Pineapple** - This kind of orchards has a similar buying sugarcane stock this is as both spout stocks and wholesale of 1 rai. Half of them would be brought from their neighbors (50.00 percentage), then free of charge from neighbours and the middleman (with an average of 0.72 Baht/1 stock and 3525.00 Baht/rai. (Appendix C Table 9)

For other plant varieties which have to deepen on breeding stock such as cucumber, maize and white lettuce mostly being bought from general groceries/stores.

(b) **Fertilizer** - All of the households would manage to by themselves (not through grouping) where most of them (94.00 percentage) are bought from a quotahead, the remaining from a middleman.

(c) **Pesticide/Herbicide** - All households would make their own provision (not through grouping) where most of them would buy from any groceries/stores.

(d) **For lending agricultural machinery** : such as plough tractor, approximately 86.00 percentage of the respondents/ interviewees would lend from their neighbours and orderly followed by a quotahead and middleman (6.00 and 4.00 percentages, respectively) with the average lending prices of 585.96 Baht/rai.

Details of what have been described are given in Appendix C and Table 10.

(e) **Agricultural Productivity Management**

After agricultural productivity harvestment, most of the responding households/interviewees (84.00 percentage) release/distribute/sell their agricultural production to a middleman. The orderly followed sources of distribution are industrial plants/factory, markets, traders and quotahead (44.00, 24.00, 6.00 and 4.00 percentages, respectively). Each respondent/interviewee has several sources of agricultural distribution as presented in appendix c and tables 11, 12.

## 4.2 Ban Tha Phayom

### (1) General Characteristic of respondents

Among 30 respondents, 83.33 percentage of them are married and the remaining are widow/divorce and single (13.33 and 3.33 percentage respectively). The sex ratio of the respondents is 36.67 to 63.33 (female to male).

Most of the respondents are between 41-50 and 51 - 60 years old (30.00 % for each group interval) whereas approximately 26.67 and 10.00 percentage are between 31-40 and over 60 years old respectively; and the rest of them are under 30 years of age (3.33%). The average age of them is 46.77 years old. For educational acquirement, most of them (80.00%) attained primary school; follow by primary school and upper grade of secondary school, and there is about 13.33% are illiterate. All of the respondents (100.00%) are agriculturist (Please see Appendix C and Table 1).

### (2) Family Structure of Respondents

Majority of household size in the sample villages is similar to Ban Nong Chok, that is family size is between 3-4 persons per household (HH.); the average household size of them is about 3.93 persons per HH. The family size has a variation among each group, that is the direct beneficiary group is 4.10 persons per HH. while the nearby household group is 3.60 persons per HH. Male members are more than the female members with the ratio of 1 : 0.97 (male : female). Majority of family members are between 21-40 years old (29.77%). For educational level of family member, more than half of the family members (54.20%) accomplished their primary school and about 25.45 percent of the family members are student holding. Half of the family members (57.76%) are agriculturist, followed by trader, Industrial wage labor and general wage labor

26.21%, 1.78% and 1.78% respectively (more details are shown in Appendix C and Table 2).

### **(3) Family Assets**

When being asked about kinds of family assets, results of the survey reveal that

- Sedan car : No household has a car.
- Pickup truck : About 70.00% has a pickup truck.
- Motorcycle: Majority of them own motorcycles (93.33%), and 31.43 of this group have more than one.
- House : All of them have their own house (100.00%).
- Land holding : An average land is 19.39 rai per household that is smaller than the respondents at Ban Nong Chok (approximately 32.44 rai/HH.). As for land right owner, total of them (100.00%) have right owner with title deed, the remains are land rent (33.33%), Sor-Por-Kor 4-01 (10.00%) and free use 10.00%.

For other family assets e.g. TV, electric fan, CD/stereo, refrigerator and agricultural machine and equipment, please see Appendix C and Table 3.

### **(4) Land Holding**

Land holding size of most households being interviewed is lower or equal to 10 rai/HH (46.67%) then followed between the size of 11-20 and 21-30 rai/HH (26.67 and 10.00 percentage respectively), which is accounted for an average land holding of 13.39 rai/HH. The maximum / biggest land holding size falls on the direct beneficiary group (22.77 rai/HH) and the minimum / smallest size belongs to the nearby household group (12.64 rai/HH). When consideration on land use characteristics, it is found that most of land use are for agriculture (12.87 rai/HH) then orderly followed by planted area in other village, lease out to the other and animal husbandry land with average sizes of 5.00, 1.33 and 1.27 rai/HH respectively.

Remarks : An average figure calculation is divided by the total number of households of each group (as presented in Appendix C and Table 4).

### **(5) Agricultural Data/Information**

Agriculturists cultivate in Ban Tha Phayom is rather diversified crops. The main/principal crops are sugarcane, sweet corn, baby corn and vegetable (such as asparagus, eggplant, long bean, and chili). Date of the main crop cultivation are summarized as follows:

Sugarcane: About 38.46 percentage of the interviewees who plant sugarcane hold an average cultivated area of 19.00 rai/household with an average productivity of 11.25 ton/rai/year. Based on the two interviewing groups, their household produces are not much different, that is, the average sugarcane productivity lies between 10.81-13.00 ton/rai. Most of the sugarcane plantation rely on the rain-fed (40.00 percentage) and the remains depend on irrigation water supply by pumping water from each household's underground well. The most popular sugarcane water supply by pumping water from each household's underground well. The most popular sugarcane varieties being planted are K-200 (46.67 percentage) then orderly followed by K-92, and 377, respectively.

Sweet corn: Approximately 43.33 percentage of the cultivated sweet corn, occupy an average planting area of 3.90 rai/household with an average productivity of 4.57 ton/rai/year. Most of the cultivation depend on irrigation water supply (84.62 percentage). The most popular sweet corn variety being planted is Hybrix-10 (76.92 percentage).

Baby corn : Approximately 60.00 percentage of the cultivated sweet corn, occupy an average planting field of 4.96 rai/household with an average productivity of 4.89 ton/tai/year. Most of the cultivation rely on irrigation system (83.33 percentage). The most cultivation rely on irrigation system (82.83 percentage). The most planted sweet corn varieties are G-5414, SG-48 and G-17 (33.33, 22.22 and 16.67 percentage, respectively).

Eggplant: approximately 20.00 percentage of this vegetable plant, acquire an average planting area of 1.71 rai/household with an average produce of 6.00 ton/rai/year. The cultivation depends entirely on irrigation system (100 percentage). The cultivated eggplant variety is water dropping/Nam Yod (100 percentage).

As for other crops, please see more details in Appendix C and Table 5.

#### **(6) Serious Agricultural Problems Required Agricultural Extension**

The main problems of the respondents of Ban Tha Phayom are not much variation from the results at Ban Nong Chok. Those occupies different proportions as follows:

- The first / most serious problem
  - Low price of production/low income 36.67 %
  - Flood problem 26.67 %
  - Problem on pH value of soil/ poor soil quality 16.67 %
  - Insufficient water for cultivation 6.67 %
  - High price of inputs (e.g., seedling) 6.67 %
- The second serious problem
  - High price of inputs (e.g., seedling) 30.00 %
  - Unclean water contaminated with iron/ poor water quality 23.33 %
  - Low price of production/low income 20.00 %
  - Pest problem 13.33 %
  - Flood problem 6.67 %
- The third serious problem
  - Low price of production/low income 26.67 %
  - Insufficient water for cultivation 20.00 %
  - High price of inputs (e.g., seedling) 20.00 %
  - Problem on pH value of soil/ poor soil quality 16.67 %

However, when being asked about agricultural extension needs it reveals that there are diversity needs. The first three priorities have rather high proportion as follows:

- The first priority need
  - Advise pest control on bio-technology 20.00 %
  - Recommendation on cattle feeding /fish culture 20.00 %
  - Breed stock lending 13.33 %
  - Provide seedling to the farmer 10.00 %
  - Sell inputs with low price to the farmer 6.67 %
  - Solve problem on water contaminated with ion 6.67 %
  - Extension for mushroom growing 6.67 %
- The second priority need
  - Provide recommendation on cattle feeding/ fish culture 16.67 %
  - Suggestion on soil improvement 16.67 %
  - Market system improvement (product / price guarantee / establishment of agricultural group for raise bargaining power) 13.33 %
  - Advise on crop processing 10.00 %
  - Distribute low price inputs for agriculturists 6.67 %
- The third priority need
  - Suggestion on soil improvement 10.00 %
  - Market system improvement (product / price guarantee / establishment of agricultural group for raise bargaining power) 6.67 %
  - Distribute low price inputs for agriculturists 6.67 %
  - Advise on crop production processing 6.67 %
  - To give knowledge on pest control 6.67%

For more details please see Appendix C and Table 6.

#### **(7) Diversified Crop Incase of Increasing More Water Supply for Cultivation**

Incase of agriculturists being supplied with much more agricultural water, whether they would cultivated other diversified crops and how many cultivated areas (in rais) have to be transformed or diversified. The results found that most of the respondents (60.00 percentage) excepted to transform diversify some parts of their agricultural areas to plant other crops/plants while the remains (40.00 percentage) still insisted to cultivate the current plant varieties. All of the agricultural areas being expected to be

transformed/diversified to other varieties would be 5.87 rais/household by average. Details of the transformed areas classified by diversified crops are presented in Appendix C and Table 7.

#### **(8) Income and Expenditure of Household**

In consideration on households/incomes include income from agricultural sector, business/trading related to agricultural sector (such as ploughing labour/land preparation for cultivation, middle man and lending land for agriculture etc.), and income from non-agricultural sector (such as general wage, industrial wage, trading, civil officials and others). It was found that an average household's income was approximately 321,905.85 Baht/year. Most of the households (23.33 percentage) have their incomes between 100,001-200,000 Baht/year then orderly followed between 200,001-300,000 less than 100,000 and 300,001 - 400,000 Baht/year (20.00, 16.67 and 16.67 percentages, respectively) as given in Appendix C and Table 8.

For households' expenditures, the household interviewees/respondents revealed an average expenditure of approximately 251,650.36 Baht which are classified into expenditure for agricultural sector about 96,702.03 Baht/year ; other expenditure related with agricultural activity about 52,065.00 Baht/year; and non-agricultural sector (including routine spending money or expenditure for oneself and family such as food, cloth and travelling costs as well as education cost for their children and health care cost, etc.) of approximately 102,893.33 Baht/year.

Regarding to households' debt, it was found that almost of the households (99.67 percentage) have an average debt of 102,133.33 Baht/household. Most of them (70.00 percentage) carried their debts less than 100,000 Baht/household.

On part of household saving, it was found that households of 60.00 percentage have an average household saving 13,822.22 Baht/household/year. The most maximum saving group is the direct beneficiary group (average 15,953.33 Baht/year) and the minimum saving group is the nearby household (average 3,166.67 Baht/year) as details given in Appendix C and table 9.

#### **(9) Provision/Buying of Production Inputs for Household**

**(a) Breeding Stock/Seeding** - All households buy production inputs themselves (not through grouping), whose provisions for main important plant/crop varieties are as follows:

**Sugarcane:** Most of them (80.00 percentage) buy from their neighbours and the rest buy from middleman with an average of 7,880.00 Baht/rai.

For other plant varieties such as sweet corn, baby corn, long bean eggplant, and lettuce mostly being bought from general groceries/stores. (Appendix C Table 10)

**(b) Fertilizer** - All of the households would manage to by themselves (not through grouping) where most of them (53.33 percentage) are bought from a grocery or store then followed by a quotahead and a middleman.

**(c) Pesticide/Herbicide** - All households would make their own provision (not through grouping), where most of them would buy from any groceries/stores.

**(d) For lending agricultural machinery :** such as plough tractor and sugarcane - Cutting tractor, approximately 66.67 percentage of the respondents/interviewees would lend from their neighbours with the average lending prices of 438.75 Baht/rai and 20 Baht/ton (about 300 Baht/rai) for plough tractor and cutting tractor, respectively.

Details of what have been described are given in Appendix C and Table 10.

**(e) Agricultural Productivity Management**

After agricultural productivity harvestment, most of the responding households/interviewees release/distribute/sell their agricultural production to a middleman. The orderly followed sources of distribution are quotahead, general trader, and factory. Each respondent/interviewee has several sources of agricultural distribution as presented in appendix C and tables 11, 13.

# **APPENDIX A**

## **QUESTIONNAIRE**



## Questionnaire for Baseline Survey for the Pilot Project <household>

No. .

Date of Survey: \_\_\_ / \_\_\_ /2003, Time: from \_\_\_ : \_\_\_ to \_\_\_ : \_\_\_.

Name of Surveyor:

Name of Muban: \_\_\_\_\_

### 1. Personal Data:

1.1 Name:		1.2 Marital status: Married / Single / Widow	
1.3 Age:	1.4 Sex: M / F	1.5 Occupation	
1.6 Highest degree:			
1. Illiterate, 2. Pre-primary, 3. Primary, 4. Lower Secondary,			
5. Secondary, 6. Higher Secondary, 7. Diploma, 8. Others ( )			

\* "Illiterate" means those who cannot read and write.

### 2. Family Members

2.1 Please list up all the family members staying with you at the same house.

No.	Relation with you	Sex (M/F)	Age	Highest degree of education status	Occupation	Head of the family (circle)
1						
2						
3						
4						
5						
6						
7						

2.2 How many family members work away from home? ( persons)

### 3. Family Assets

3.1 What kinds of assets do you and your family members have?

No.	Items	Number
1	Vehicle	No
2	House	rai
3	Land (total) <ul style="list-style-type: none"> <li>• Title deed/NS4</li> <li>• NS3</li> <li>• SOR-POR-KOR 401</li> <li>• Other</li> </ul>	rai
4	Color TV	no
5	(Others, specify)	
6	Water Sources (Pond, Deep well, Shallow well)	No.
7		

#### 4. Land Use

4.1 How are your lands currently used (2003)?

No.	Land use	Rai
1	House	
2	Cropping	
3		
4		
5	Lease out to others	
Total		

#### 5. Agriculture

5.1 What kind of crops do you cultivate now?

Major crops	Planted area (rai)	Average yield in the past 3 months	Water for (R) or irrigation (H)	Varieties
Sugarcane			R/I	
Pineapple			R/I	
Maize			R/I	
Cassava			R/I	
Paddy			R/I	
Vegetables (list up names)			R/I	
			R/I	
Total				

5.2 If your lands can receive more water, what crops and how many rais do you want to diversify?

Current crops	Area that you want to diversify (rai)	Crops that you want to plant now	Varieties
Sugarcane			
Pineapple			
Maize			
Cassava			
Paddy			
Vegetables			
Ornamentals			
Total			

5.3 What are the most serious problems on agriculture? Please list up three major problems.

1.
2.
3.

5.4 If you can receive extension services, what do you want? Please list up (three at maximum).

1.
2.
3.

## 6. Agricultural Incomes and Expenditures

6.1 Total Agricultural Incomes (you and your family members living with you)

Source of incomes	Annual income (Batu)	Volumes Sold
a. Selling crops (list up crop names)		Total volume (tons) sold?
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
b. Selling livestock (list up livestock types)		Total nos. sold?
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
c. Selling fish		kg
d. Selling forestry products (mushroom, wood, etc.)		kg
e. Earning as farm labor		Total days worked?
f. Agriculture-related business (what business?)		
g. Loan (list up loan sources)		Interest rates?
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<b>Total</b>		

6.2 How much are average of-farm incomes of you and your family members?

Sources of incomes	Annual income (Baht)

6.3 Total Agricultural Expenditures (you and your family members living with you)

Items of Expenditures	Expenditures of each crop (Baht/year)				Remarks
	Sugarcane	Pineapple	Cassava		
<b>a. Crop production</b>					
<input type="checkbox"/> Seeds, seedlings					
<input type="checkbox"/> Fertilizers					Total weight (kg)
<input type="checkbox"/> Pesticides					Total weight (kg)
<input type="checkbox"/> Herbicides					Total weight (kg)
<input type="checkbox"/> Machine rental fees					What machines?
<input type="checkbox"/> Machine repairing cost					
<input type="checkbox"/> Fuel costs					
<input type="checkbox"/> Hiring labor					How many a year?
<input type="checkbox"/> Transportation to markets					
<input type="checkbox"/> Irrigation water fees					
<b>Total</b>					
<b>b. Loan Repayment (list up loan sources)</b>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<b>c. Other agricultural activities – agri-business, livestock, etc. (list up all activities)</b>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<b>Total</b>					

6.4 How much are average total expenditures of you and your family members including agriculture and others?

\_\_\_\_\_ Baht/year

6.5 Family Labor Estimate:

6.5.1 How many days a year you and your family work in your farm? \_\_\_\_\_ Total man days

6.6 How much remaining dept do you have now? \_\_\_\_\_ Baht/year

6.7 Information on Savings

6.7.1 Do you have saving? ( Yes / No )

6.7.2 How much can you save annually? \_\_\_\_\_ Baht/year

7. Marketing

7.1 How do you get agricultural inputs?

Inputs	Sources and Unit Costs (Baht/unit)				Remarks
	Factories	Market/Dealer	Stores	Others (specify)	
<input type="checkbox"/> Seedlings (sugarcane)	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Seedlings (pineapple)	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Seed (maize)	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Seedlings (cassava)	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Seedlings (vegetables)	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Seedlings (ornamentals)	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Fertilizers	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Pesticides	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Herbicides	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Machine rental	(I/G)	(I/G)	(I/G)	(I/G)	
<input type="checkbox"/> Others (specify)	(I/G)	(I/G)	(I/G)	(I/G)	

\* (I/G): Individually or by Group?

7.2 How do you use major crops?

Item	Home consumption	Keep as seeds	Sales							
			Factory		Wholesaler		Markets		Others (specify)	
			Volume (ton)	Price (Baht/ton)	Volume (ton)	Price (Baht/ton)	Volume (ton)	Price (Baht/ton)	Volume (ton)	Price (Baht/ton)
Sugarcane				I/G		I/G		I/G		I/G
Pineapple				I/G		I/G		I/G		I/G
Maize				I/G		I/G		I/G		I/G
Cassava				I/G		I/G		I/G		I/G
Vegetable (list up)				I/G		I/G		I/G		I/G
Ornamentals				I/G		I/G		I/G		I/G
				I/G		I/G		I/G		I/G

Thank you very much for your cooperation.

# **APPENDIX B**

## **NAME LIST OF THE RESPONDENTS**

APPENDIX B1

NAMELIST OF DIRECT BENEFICIARY HOUSEHOLD AT BAN NONG CHOK,  
RATCHABURI PROVINCE

1. Mr. Chuen Waree Udom
2. Mr. Thaongyod Srirakham
3. Mrs. Khem Prasart
4. Ms. Malaithip Shinwongkhet
5. Mr. Sophon Shinwongkhet
6. Mr. Ma Boon Khliang
7. Mr. Souy / Mrs. Wassana Buthnampeth
8. Mr. Sai Thongsri
9. Mrs. Amphan Wichianrat
10. Mr. Samrouy Boonkert
11. Mrs. Chamnian Saikaew
12. Mrs. Boonmee Saikaew
13. Ms. Boontham Boonkriang
14. Mrs. Wirat / Mrs. Juan Boonkriang
15. Mr. Boonchoo / Mr. La Saikaew
16. Mr. Lert Khrutnoi
17. Mr. Win Watpoung
18. Mrs. Chinda Roumsap
19. Mrs. Sunan Phetnoi
20. Ms. Sunee Phetnoi
21. Mrs. Thongyhu / Mr. Lob Jai-Sue
22. Mr. Aim Thong montho
23. Ms. Supab Chinwongket
24. Mrs. Wipawan Pongkert

APPENDIX B2  
NAMELIST OF POSSIBLE FUTURE BENEFICIARY HOUSEHOLD  
(NEARBY HOUSEHOLD) AT BAN NONG CHOK,  
RATCHABURI PROVINCE

1. Mr. Pean Chitsakul
2. Mr. Song Intarachit
3. Mr. Win Mornthong
4. Mrs. Nuan Phimpha
5. Mrs. Prung Waree-Udom
6. Mr. Kosol Nak-Nakha
7. Mr. Boon Suan-Pleang
8. Mrs. Soy Chumkhruie
9. Mrs. Pin Noi-In
10. Mrs. Samniang Chim-On
11. Mr. Prasert Jai-Sue
12. Mr. Sa-Nga Chinwongkhet
13. Mrs. Khannak Plynai
14. Mrs. Mak-Dip Songthongkhang
15. Mr. Prakob Pimpa
16. Mr. A-Nek Srinual
17. Mrs. Saipin Chitnarong
18. Mr. Prasith To-Noi
19. Mrs. Kaew Mingphotia
20. Mr. Sawaeng Boonkliang
21. Mrs. Champa Krinichit
22. Mrs. Wannee Boonkliang
23. Mrs. Saengdurn Pungtaeng
24. Mrs. Tong Thong-On
25. Mrs. Somporn Boonkliang
26. Mrs. Siri Cherdop Kaew



APPENDIX B3

NAMelist OF DIRECT BENEFICIARY HOUSEHOLD AT BAN THA PHAYOM,  
KANCHANABURI PROVINCE

1. Mr. Suthat Nuchnum
2. Mr. Nhoo A-nansuk
3. Mrs. Khamchad Phooban
4. Mr. Vichain Moorasri
5. Mrs. Chawee Rasri
6. Mr. Somwhang In-O-Soth
7. Mr. Somyod lam-sang
8. Mr. Prasith Wisatesirikul
9. Mr. Na-ru-cha Saengsai
10. Mr. Precha Saengsai
11. Mr. Kitti Thaweemak
12. Mr. Somwhang Horm Pong
13. Mr. Samath Thammachong
14. Mrs. Sukhanda Taeng-On
15. Mr. Sook Buth-dee
16. Mrs. Khrue In-Kra-Sem
17. Mrs. Whan-Phen Hok-On
18. Mr. Roum Kaew-Noi
19. Mrs. Suphin Kaew-Noi
20. Mr. Phayong In-O-Soth

APPENDIX B4  
NAMELIST OF FUTURE BENEFICIARY HOUSEHOLD  
(NEARBY HOUSEHOLD) AT BAN THA PHAYOM ,  
KANCHANABURI PROVINCE

1. Mrs. Choosri In-O-Soth
2. Mr. Niwat In-O-Soth
3. Mrs. Sanran In-O-Soth
4. Mrs. Bang-On Sawaddee
5. Mrs. Pranorm Khunsombat
6. Mrs. Pan In-O-Soth
7. Mr. Whan Thongchab
8. Mr. Somchai Sooksawad
9. Mr. Suchat Chabsri
10. Mr. Prasert Charoensook

# **APPENDIX C**

## **RESULT OF BASELINE SURVEY**

TABLE 1

PERSONAL DATA OF RESPONDENTS

	Directly Beneficiaries				Possible Beneficiaries (Nearby Household)				Subtotal				Indirect Beneficiaries				Possible Victims (Nearby Households)				Subtotal				Total			
	Number		%		Number		%		Number		%		Number		%		Number		%		Number		%		Number		%	
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00														
<b>1. Marital Status</b>																												
■ Married	13	54.17	21	80.77	34	68.00	17	85.00	8	80.00	25	83.33	59	73.75														
■ Single	6	25.00	1	3.85	7	14.00	1	5.00	-	-	1	3.33	8	10.00														
■ Widow / Divorced	5	20.83	4	15.38	9	18.00	2	10.00	2	20.00	4	13.33	13	16.25														
<b>2. Age (year)</b>																												
■ Lower than 20	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25														
■ 20 - 30	3	12.50	2	7.69	5	10.00	1	5.00	-	-	1	3.33	6	7.50														
■ 31 - 40	2	8.33	2	7.69	4	8.00	4	20.00	4	40.00	8	26.67	12	15.00														
■ 41 - 50	9	37.50	9	34.62	18	36.00	6	30.00	3	30.00	9	30.00	27	33.75														
■ 51 - 60	5	20.83	7	26.92	12	24.00	8	40.00	1	10.00	9	30.00	21	26.25														
■ Over 60	4	16.67	6	23.08	10	20.00	1	5.00	2	20.00	3	10.00	13	16.25														
<b>Average Age (year)</b>	47.04		50.38		48.78		46.80		46.70		46.77		48.02															
<b>3. Sex</b>																												
■ Male	8	33.33	10	38.46	18	36.00	14	70.00	5	50.00	19	63.33	37	46.25														
■ Female	16	66.67	16	61.54	32	64.00	6	30.00	5	50.00	11	36.67	43	53.75														
<b>4. Household status</b>																												
■ Head of household	14	58.33	15	57.69	29	58.00	18	90.00	8	80.00	26	86.67	55	68.75														
■ Spouse	7	29.17	10	38.46	17	34.00	2	10.00	2	20.00	4	13.33	21	26.25														
■ Son/daughter	3	12.50	1	3.85	4	8.00	1	5.00	1	10.00	3	10.00	4	5.00														

TABLE 1 (Cont'd)

	Ban Mout Chok				Ban Mout Phnom				Total					
	Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Sub-Total		Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Sub-Total		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
5. Occupation														
■ Farmer	23	95.83	26	100.00	49	98.00	20	100.00	10	100.00	30	100.00	79	98.75
■ Industrial Wage Labour	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
6. Education														
■ Illiterate	2	8.33	3	11.54	5	10.00	2	10.00	2	20.00	4	13.33	9	11.25
■ Pre-primary School	-	-	-	-	-	-	1	5.00	-	-	1	3.33	1	1.25
■ Primary School (P1 - P6)	21	87.50	21	80.77	42	84.00	16	80.00	8	80.00	24	80.00	66	82.50
■ Lower Grade of Secondary School (M1-M3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
■ Upper Grade of Secondary School (M4-M6)	-	-	2	7.69	2	4.00	1	5.00	-	-	1	3.33	3	3.75
■ Vocational School or Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	-	-
■ Bachelor Degree	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25

TABLE 2

FAMILY STRUCTURE OF RESPONDENTS

	Direct Respondents		Possible Respondents (Nearby Household)		Possible Respondents (Nearby Household)		Possible Respondents (Nearby Household)		Possible Respondents (Nearby Household)		Total			
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%		
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
<b>1. Number of Family Members (persons/house)</b>														
▪ 1-2	7	29.17	7	26.92	14	28.00	2	10.00	1	10.00	3	10.00	17	21.25
▪ 3-4	13	54.17	16	61.54	29	58.00	12	60.00	7	70.00	19	63.33	48	60.00
▪ 5-6	3	12.50	2	7.69	5	10.00	5	25.00	2	20.00	7	23.33	12	15.00
▪ 7-8	1	4.17	1	3.85	2	4.00	1	5.00	-	-	1	3.33	3	3.75
• Male	1.75	53.85	1.50	53.85	1.62	50.00	2.05	50.00	1.90	52.78	2.00	50.89	1.75	50.29
• Female	1.00	30.77	1.73	30.77	1.62	50.00	2.05	50.00	1.70	47.22	1.93	49.11	1.74	49.71
Average Family Members (Person/house)	3.25		3.23		3.24		4.10		3.60		3.93		3.50	
<b>2. Average Family Members Classified by Age Level</b>														
▪ < 6 year	0.21	6.46	0.19	5.88	0.20	6.17	0.30	7.32	0.20	5.56	0.27	6.87	0.23	6.57
▪ 6 - 12 year	0.38	11.69	0.50	15.48	0.44	13.58	0.40	9.76	0.60	16.67	0.47	11.96	0.45	12.86
▪ 13 - 20 year	0.38	11.69	0.19	5.88	0.28	8.64	0.60	14.63	0.80	22.22	0.67	17.05	0.43	12.29
▪ 21 - 40 year	0.82	25.23	0.77	23.84	0.80	24.69	1.30	31.71	0.90	25.00	1.17	29.77	0.93	26.57
▪ 41 - 60 year	1.00	30.77	1.27	39.32	1.14	35.19	1.25	30.49	0.60	16.67	1.03	26.21	1.10	31.43
▪ > 60 year	0.46	14.15	0.31	9.60	0.38	11.73	0.25	6.10	0.50	13.89	0.32	8.14	0.36	10.29
Average Family Member (Person/house)	3.25		3.23		3.24		4.10		3.60		3.93		3.50	

TABLE 2 (Cont'd)

Item	Ban Vong/Cham		Ban Thong/Phnom		Ban Thong/Phnom		Ban Thong/Phnom		Ban Thong/Phnom		Total				
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%			
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00	
<b>3. Average Family Member Classified by Education Level</b>															
▪ Illiterate	0.17	5.23	0.08	2.48	0.12	3.70	0.30	7.32	0.30	8.33	0.30	7.63	0.19	5.43	
▪ Pre-primary School	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
▪ Primary School (P1 - P6)	1.95	60.00	1.89	58.51	1.92	59.26	2.30	56.10	1.80	50.00	2.13	54.20	2.00	57.14	
▪ Lower Grade of Secondary School (M1-M3)	0.08	2.46	0.08	2.48	0.08	2.47	0.10	2.44	0.30	8.33	0.17	4.33	0.11	3.14	
▪ Upper Grade of Secondary School (M4-M6)	0.13	4.00	0.15	4.64	0.14	4.32	0.15	3.66	0.10	2.78	0.13	3.31	0.14	4.00	
▪ Vocational School or Equivalent	-	-	0.04	1.24	0.02	0.62	-	-	-	-	-	-	-	0.01	0.29
▪ Bachelor Degree	0.08	2.46	0.15	4.64	0.12	3.70	0.05	1.22	-	-	0.03	0.76	0.90	25.71	
▪ Student	0.71	21.85	0.69	21.36	0.70	21.60	1.00	24.39	1.00	27.78	1.00	25.45	0.81	23.14	
▪ Age before Schooling	0.13	4.00	0.15	4.64	0.14	4.32	0.20	4.88	0.10	2.78	0.17	4.33	0.15	4.29	
<b>Average Family Member (Person/house)</b>	3.25		3.23		3.24		4.10		3.60		3.93		3.50		
<b>4. Average Family Member Classified by Occupation</b>															
▪ Farmer	2.05	63.08	2.23	69.04	2.14	66.05	2.55	62.20	1.70	47.22	2.27	57.76	2.17	62.00	
▪ General Wage Labour	0.04	1.23	-	-	0.02	0.62	-	-	0.20	5.56	0.07	1.78	0.04	1.14	
▪ Industrial Wage Labour	0.08	2.46	0.04	1.24	0.06	1.85	0.05	1.22	0.10	2.78	0.07	1.78	0.06	1.71	
▪ Government Officer / State Enterprise Employees	0.04	1.23	0.08	2.48	0.06	1.85	-	-	-	-	-	-	0.04	1.14	
▪ Private Employees	0.04	1.23	0.04	1.24	0.04	1.23	-	-	-	-	-	-	0.03	0.86	
▪ Student	0.71	21.85	0.69	21.36	0.70	21.60	0.95	23.17	1.20	33.33	1.03	26.21	0.83	23.71	
▪ Trader	0.04	1.23	-	-	0.20	6.17	-	-	0.10	2.78	0.46	11.70	0.03	0.86	
▪ Unoccupation / Unemployed Person	0.25	7.69	0.15	4.64	0.02	0.62	0.55	13.41	0.30	8.33	0.03	0.76	0.30	8.57	
<b>Average Family Member (Person/house)</b>	3.25		3.23		3.24		4.10		3.60		3.93		3.50		
<b>5. Family Member Work Away from Home</b>															
▪ None	14	58.33	15	57.69	29	58.00	15	75.00	5	50.00	20	66.67	49	61.25	
▪ 1-2 persons	10	41.67	6	23.08	16	32.00	5	25.00	4	40.00	9	30.00	25	31.25	
▪ 3-4 persons	-	-	5	19.23	5	10.00	-	-	1	10.00	1	3.33	6	7.50	

TABLE 3

FAMILY ASSETS

	Ban Nong Chok				Ban Tha Phayom				Total			
	Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Sub-Total			
	Number	%	Number	%	Number	%	Number	%	Number	%		
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	30	100.00	80	100.00
1. Sedan Car												
▪ No	23	95.83	26	100.00	49	98.00	20	100.00	30	100.00	79	98.75
▪ Yes, Specified (number)	1	4.17	-	-	1	2.04	-	-	-	-	1	1.25
• 1	1	100.00	-	-	1	100.00	-	-	-	-	1	100.00
2. Pickup Truck												
▪ No	12	50.00	14	53.85	26	52.00	13	65.00	8	80.00	47	58.75
▪ Yes, Specified (number)	12	50.00	12	46.15	24	48.00	7	35.00	2	20.00	33	41.25
• 1	12	100.00	11	91.67	23	95.83	7	100.00	1	50.00	31	93.94
• 2	-	-	1	8.33	1	4.17	-	-	1	50.00	2	6.06
3. Motorcycle												
▪ No	5	20.83	4	15.38	9	18.00	1	5.00	1	10.00	11	13.75
▪ Yes, Specified (number)	19	79.17	22	84.62	41	82.00	19	95.00	9	90.00	69	86.25
• 1	14	73.68	19	86.36	33	80.49	15	78.95	5	55.56	53	76.81
• 2	5	26.32	3	13.64	8	19.51	3	15.79	3	33.33	14	20.29
• 3	-	-	-	-	-	-	1	5.26	1	11.11	2	2.90



TABLE 3 (Cont'd)

Items	Ban Nong Chok				Ban Tho Phayom				Total			
	Direct Beneficiaries		Possible/Future Beneficiaries (Nearby Households)		Direct Beneficiaries		Possible/Future Beneficiaries (Nearby Households)					
	Number	%	Number	%	Number	%	Number	%				
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	30	100.00	80	100.00
4. House												
▪ No	2	8.33	1	3.85	3	6.00	-	-	-	-	3	3.75
▪ Yes, Specified (number)	22	91.67	25	96.15	47	94.00	20	100.00	30	100.00	77	96.25
• 1	21	95.45	22	88.00	43	91.49	19	95.00	29	96.67	72	93.51
• 2	-	-	2	8.00	2	4.26	1	5.00	-	-	3	3.90
• 3	1	4.55	1	4.00	2	4.26	-	-	-	-	2	2.60
5. Land Holding Classified by One Own Right												
5.1 Right Owner (Multiple answers)												
▪ Title Deeds / NS 4	-	-	-	-	-	-	20	100.00	10	100.00	30	100.00
▪ Sor-Por-Kor 4-01	3	15.00	6	30.00	9	45.00	1	5.00	1	5.00	2	10.00
▪ Por-Bor-Tor 5	21	87.50	23	88.46	44	88.00	1	5.00	1	10.00	2	6.67
▪ Land Rent	11	45.83	8	30.77	19	38.00	8	40.00	2	20.00	10	33.33
▪ Land Leasing from Other	2	8.33	-	-	2	4.00	-	-	-	-	-	-
▪ Free Use	2	8.33	1	3.85	3	6.00	1	5.00	2	20.00	3	10.00
5.2. Average Area (rai/house)												
▪ Title Deed/NS4	-	-	-	-	-	-	16.22	6.14	12.86	4.82	12.86	4.82
▪ Sor-Por-Kor 4-01	1.83		5.25		3.61		2.00	3.00	2.33	3.13	3.13	
▪ Por-Bor-Tor 5	23.07		16.25		19.52		1.25	2.00	1.50	12.76	12.76	
▪ Land Rent	12.37		5.60		8.85		3.15	1.20	2.50	6.47	6.47	
▪ Land Leasing form Other	0.22		-		0.11		-	-	-	0.07	0.07	
▪ Free Use	0.32		0.38		0.35		0.15	0.30	0.20	0.30	0.30	
Total Area (rai/house)	37.81		27.48		32.44		22.77	12.64	19.39	27.55	27.55	

TABLE 3 (Cont'd)

	Ban Nong Chon				Ban Nong Phayom				Total					
	Direct Beneficiaries		Possible Future Beneficiaries		Direct Beneficiaries		Possible Future Beneficiaries							
	Number	%	Number	%	Number	%	Number	%						
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
6. TV														
▪ No	2	8.33	5	19.23	7	14.00	1	5.00	-	-	1	3.33	8	10.00
▪ Yes, Specified (number)	22	91.67	21	80.77	43	86.00	19	95.00	10	100.00	29	96.67	72	90.00
• 1	21	95.45	20	95.24	41	82.00	16	84.21	9	90.00	25	83.33	66	91.67
• 2	-	-	1	4.76	1	2.00	1	5.26	1	10.00	2	6.67	3	4.17
• 3	1	4.55	-	-	1	2.00	1	5.26	-	-	1	3.33	2	2.78
• 4	-	-	-	-	-	-	1	5.26	-	-	1	3.33	1	1.39
7. Refrigerator														
▪ No	4	16.67	6	23.08	10	20.00	1	5.00	-	-	1	3.33	11	13.75
▪ Yes, Specified (number)	20	83.33	20	76.92	40	80.00	19	95.00	10	100.00	29	96.67	69	86.25
• 1	19	95.00	20	100.00	39	78.00	18	94.74	9	90.00	27	90.00	66	95.65
• 2	1	5.00	-	-	1	2.00	1	5.26	1	10.00	2	6.67	3	4.35
8. Pest / Herbicide Sprayer														
▪ No	20	83.33	26	100.00	46	92.00	19	95.00	10	100.00	29	96.67	75	93.75
▪ Yes, Specified (number)	4	16.67	-	-	4	8.00	1	5.00	-	-	1	3.33	5	6.25
• 1	4	100.00	-	-	4	100.00	1	100.00	-	-	1	100.00	5	100.00
9. Laundry Machine														
▪ No	19	79.17	18	69.23	37	74.00	13	65.00	5	50.00	18	60.00	55	68.75
▪ Yes, Specified (number)	5	20.83	8	30.77	13	26.00	7	35.00	5	50.00	12	40.00	25	31.25
• 1	3	60.00	8	100.00	11	84.62	7	100.00	5	100.00	12	100.00	23	92.00
• 2	2	40.00	-	-	2	15.38	-	-	-	-	-	-	2	8.00

TABLE 3 (Cont'd)

	Ban Yong (No.)				Ban Nong (Yes)				Ban Nong (No)				Ban Nong (Total)			
	DTC		Sub-Total		DTC		Sub-Total		DTC		Sub-Total		DTC		Sub-Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00		
10. Electric Fan																
▪ No	19	79.17	26	100.00	45	100.00	20	100.00	9	90.00	29	96.67	74	92.50		
▪ Yes, Specified (number)	5	20.83	-	-	5	20.83	-	-	1	10.00	1	3.33	6	7.50		
• 1	3	60.00	-	-	3	60.00	-	-	1	100.00	1	100.00	4	66.67		
• 2	2	40.00	-	-	2	40.00	-	-	-	-	-	-	2	33.33		
11. Small Tractor																
▪ No	23	95.83	25	96.15	48	96.00	20	100.00	9	90.00	29	96.67	77	96.25		
▪ Yes, Specified (number)	1	4.17	1	3.85	2	4.00	-	-	1	10.00	1	3.33	3	3.75		
• 1	1	100.00	1	100.00	2	100.00	-	-	1	100.00	1	100.00	3	100.00		
12. Radio / Stereo / CD																
▪ No	13	54.17	16	61.54	29	58.00	16	80.00	9	90.00	25	83.33	54	67.50		
▪ Yes, Specified (number)	11	45.83	10	38.46	21	42.00	4	20.00	1	10.00	5	16.67	26	32.50		
• 1	11	100.00	10	100.00	21	100.00	4	100.00	1	100.00	5	100.00	26	100.00		
13. Cabinet																
▪ No	23	95.83	26	100.00	49	98.00	20	100.00	10	100.00	30	100.00	79	98.75		
▪ Yes, Specified (number)	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25		
• 1	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00		
14. Tractor																
▪ No	23	95.83	25	96.15	48	96.00	15	75.00	8	80.00	23	76.67	71	88.75		
▪ Yes, Specified (number)	1	4.17	1	3.85	2	4.00	5	25.00	2	20.00	7	23.33	9	11.25		
• 1	1	100.00	1	100.00	2	100.00	5	100.00	2	100.00	7	100.00	9	100.00		

TABLE 3 (Cont'd)

Team	Ban Nong Chok				Ban Nong Phayom				Total						
	Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)								
	Number	Value	Number	Value	Number	Value	Number	Value							
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00	
15. Heavy Truck															
▪ No	22	91.67	26	100.00	48	96.00	19	95.00	10	100.00	29	96.67	77	96.25	
▪ Yes, Specified (number)	2	8.33	-	-	2	4.00	1	5.00	-	-	1	3.33	3	3.75	
• 1	2	100.00	-	-	2	100.00	-	-	-	-	-	-	2	66.67	
• 2	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	33.33	
16. Bicycles															
▪ No	23	95.83	24	92.31	47	94.00	20	100.00	8	80.00	28	93.33	75	93.75	
▪ Yes, Specified (number)	1	4.17	2	7.69	3	6.00	-	-	2	20.00	2	6.67	5	6.25	
• 1	-	-	2	100.00	2	66.67	-	-	2	100.00	2	100.00	4	80.00	
• 2	1	100.00	-	-	1	33.33	-	-	-	-	-	-	1	20.00	
17. Grass Grinder															
▪ No	24	100.00	26	100.00	50	100.00	18	90.00	10	100.00	28	93.33	78	97.50	
▪ Yes, Specified (number)	-	-	-	-	-	-	2	10.00	-	-	2	6.67	2	2.50	
• 1	-	-	-	-	-	-	2	100.00	-	-	2	100.00	2	100.00	
18. Water Pump															
▪ No	20	83.33	26	100.00	46	92.00	18	90.00	9	90.00	27	90.00	73	91.25	
▪ Yes, Specified (number)	4	16.67	-	-	-	8.00	2	10.00	1	10.00	3	10.00	7	8.75	
• 1	4	100.00	-	-	-	8.00	2	100.00	1	100.00	3	10.00	7	100.00	

TABLE 4  
CURRENTLY LAND USE (YEAR 2003)

	Ban Wong Cho				Ban Wang Phayom				Total					
	DIRC Confidential (Nearby Cultivator)		Possible Farm (Nearby Cultivator)		DIRC Beneficiary		Possible Farm (Nearby Household)			Sub-Total	Total			
	Number	%	Number	%	Number	%	Number	%						
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
<b>1. Total Land Use (rai/HH)</b>														
■ Up to 10	3	12.50	6	23.08	9	18.00	7	35.00	7	70.00	14	46.67	23	28.75
■ 11 - 20	6	25.00	4	15.38	10	20.00	6	30.00	2	20.00	8	26.67	18	22.50
■ 21 - 30	6	25.00	8	30.77	14	28.00	3	15.00	-	-	3	10.00	17	21.25
■ 31 - 40	2	8.33	2	7.69	4	8.00	3	15.00	-	-	3	10.00	7	8.75
■ 41 - 50	2	8.33	4	15.38	6	12.00	-	-	-	-	-	-	6	7.50
■ Over 50	5	20.83	2	7.69	7	14.00	1	5.00	1	10.00	2	6.67	9	11.25
Average Land Use (rai/house)	37.81		27.48		32.44		22.77		12.64		19.39		27.55	
<b>2. Type of Land Use<sup>1/</sup></b>														
2.1 House/Residential Area														
■ No	3	12.50	3	11.54	6	12.00	1	5.00	-	-	1	3.33	7	8.75
■ Yes	21	87.50	23	88.46	44	88.00	19	95.00	10	100.00	29	96.67	73	91.25
Average Residential Area (rai/house)	1.56		1.20		1.37		1.32		0.60		1.08		1.27	
2.2 Cultivated Area														
■ No	-	-	-	-	-	-	-	-	-	-	-	-	-	-
■ Yes	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
Average Cultivated Area (rai/house)	33.81		21.9		27.61		16.39		5.83		12.97		22.08	
2.3 Pasture Area														
■ No	21	87.50	22	84.62	43	86.00	19	95.00	10	100.00	29	96.67	72	90.00
■ Yes	3	12.50	4	15.38	7	14.00	1	5.00	-	-	1	3.33	8	10.00
Average Pasture Area (rai/house)	1.37		1.00		1.20		1.90		-		1.27		1.21	

Remark: <sup>1/</sup> Average area is divided by total household of each group

TABLE 4 (Cont'd)

Items	Ban Nong Chok				Ban Tha Phuyom				Total					
	Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)							
	Number	%	Number	%	Number	%	Number	%						
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
2.4 Fish Pond Area														
▪ No	18	75.00	22	84.62	40	80.00	17	85.00	9	90.00	26	86.67	66	82.50
▪ Yes	6	25.00	4	15.38	10	20.00	3	15.00	1	10.00	4	13.33	14	17.50
Average Fish Pond Area (rai/house)	0.26		0.09		0.17		0.12		0.10		0.12		0.15	
2.5 Drying Floor Area														
▪ No	24	100.00	24	92.31	48	96.00	20	100.00	10	100.00	30	100.00	78	97.50
▪ Yes	-	-	2	7.69	2	4.00	-	-	-	-	-	-	2	2.50
Average Drying Floor Area (rai/house)	-	-	0.08		0.04		-	-	-	-	-	-	0.025	
2.6 Lease Out to Others														
▪ No	24	100.00	21	80.77	45	90.00	19	95.00	9	90.00	28	93.33	73	91.25
▪ Yes	-	-	5	19.23	5	10.00	1	5.00	1	10.00	2	6.67	7	8.75
Average Lease Out Area (rai/house)	-	-	1.30		0.67		1.60		0.80		1.33		0.92	
2.7 Land Let for Free Use														
▪ No	22	91.67	23	88.46	45	90.00	20	100.00	10	100.00	30	100.00	75	93.75
▪ Yes	2	8.33	3	11.54	5	10.00	-	-	-	-	-	-	5	6.25
Average Free Use Area (rai/house)	0.58		1.27		0.94		-	-	-	-	-	-	0.59	
2.8 Idle Land														
▪ No	22	91.67	22	84.62	44	88.00	15	75.00	8	80.00	23	76.67	67	83.75
▪ Yes	2	8.33	4	15.38	6	12.00	5	25.00	2	20.00	7	23.33	13	16.25
Average Idle Land Area (rai/house)	0.23		0.60		0.42		0.94		0.31		0.73		0.54	

TABLE 4 (Cont'd)

	Ban Mong Chik				Ban Ma Phayom				Total			
	Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Sub-Total			
	Number	%	Number	%	Number	%	Number	%	Number	%		
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	30	100.00	80	100.00
2.9 Pond												
▪ No	24	100.00	25	96.15	49	98.00	19	95.00	29	96.67	78	97.50
▪ Yes	-	-	1	3.85	1	2.00	1	5.00	1	3.33	2	2.50
Average Pond Area (rai/house)	-	-	0.02	0.02	0.01	0.01	0.10	0.10	0.07	0.07	0.03	0.03
2.10 Other Area (walkway)												
▪ No	24	100.00	25	96.15	49	98.00	20	100.00	30	100.00	79	98.75
▪ Yes	-	-	1	3.85	1	2.00	-	-	-	-	1	1.25
Average Other Area (rai/house)	-	-	0.02	0.02	0.01	0.01	-	-	-	-	0.01	0.01
2.11 Agricultural Area in Other Villages												
▪ No	24	100.00	26	100.00	50	100.00	19	95.00	28	93.33	78	97.50
▪ Yes	-	-	-	-	-	-	1	5.00	2	6.67	2	2.50
Average Area in Other Village (rai/house)	-	-	-	-	-	-	0.40	0.40	1.93	1.93	0.72	0.72





TABLE 5 (Cont'd)

	Ban (ton/ha)				Ban (ton/ha)				Ban (ton/ha)				Total	
	Direct Beneficiaries		Possible Minor Beneficiaries		Sub Total		Direct Beneficiaries		Possible Minor Beneficiaries		Sub Total		Total	
	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
<ul style="list-style-type: none"> <li>▪ Varieties (Multiple answers) <ul style="list-style-type: none"> <li>• K-92</li> <li>• K-200</li> <li>• K-96</li> <li>• Macos</li> <li>• 377</li> </ul> </li> </ul>	13	76.47	12	80.00	25	78.13	6	75.00	-	-	6	40.00	31	73.81
	4	23.53	5	33.33	9	28.13	5	62.50	2	100.00	7	46.67	16	38.10
	1	5.88	-	-	1	3.13	-	-	-	-	-	-	1	2.38
	6	35.29	1	6.67	7	21.88	-	-	-	-	-	-	7	16.67
	-	-	-	-	-	-	1	12.50	-	-	1	10.00	1	2.38
<b>2.2 Pineapple</b>														
<ul style="list-style-type: none"> <li>▪ Number of Growers <ul style="list-style-type: none"> <li>• Who have Already Harvested</li> <li>• Who have Just Started to Plant</li> </ul> </li> <li>▪ Planted Area (rai/grower)<sup>11</sup></li> <li>▪ Planted Area (rai/HH) - divided by respondent</li> <li>▪ Average Yield (ton/rai/year)</li> <li>▪ Water Usage Type <ul style="list-style-type: none"> <li>• Rain-fed</li> </ul> </li> <li>▪ Average Yield (ton/rai/year)</li> <li>▪ Irrigation</li> <li>▪ Average Yield (ton/rai/year)</li> <li>▪ Varieties <ul style="list-style-type: none"> <li>• Ta Dam</li> <li>• Pattawia</li> <li>• Unidentified</li> </ul> </li> </ul>	21	87.50	24	92.31	45	90.00	-	-	-	-	-	-	45	56.25
	14	66.67	22	91.67	36	80.00	-	-	-	-	-	-	36	45.00
	7	33.33	2	8.33	9	20.00	-	-	-	-	-	-	9	11.25
	17.78		13.39		15.10		-	-	-	-	-	-	15.10	
	11.50		11.70		11.61		-	-	-	-	-	-	7.26	
	3.76		4.35		4.12		-	-	-	-	-	-	4.12	
	21	100.00	24	100.00	45	100.00	-	-	-	-	-	-	45	100.00
	3.76		4.35		4.12		-	-	-	-	-	-	4.12	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20	95.24	23	95.83	43	95.56	-	-	-	-	-	-	43	95.56
	1	4.76	-	-	-	-	-	-	-	-	-	-	1	2.22
	-	-	1	4.17	1	2.22	-	-	-	-	-	-	1	2.22

TABLE 5 (Cont'd)

Item	Barangay Curo			Barangay Bayan			Total		
	Direct Beneficiaries (Number)	Possible Income Beneficiaries (Nearby Households) (Number)	Sub-Total (Number)	Direct Beneficiaries (Number)	Possible Income Beneficiaries (Nearby Households) (Number)	Sub-Total (Number)	Direct Beneficiaries (Number)	Possible Income Beneficiaries (Nearby Households) (Number)	Sub-Total (Number)
	%	%	%	%	%	%	%	%	%
<b>Number of Respondents</b>	24	100.00	50	20	100.00	30	80	100.00	100.00
2.3 Maize									
▪ Number of Growers	3	12.50	3	-	-	-	3	3.75	
• Who have Already Harvested	2	66.67	2	-	-	-	2	66.67	
• Who have Just Started to Plant	1	33.33	1	-	-	-	1	33.33	
▪ Planted Area (rai/grower) <sup>v</sup>	5.50		5.50	-	-	-	5.50		
▪ Planted Area (rai/HH) divided by respondent	0.25		0.25	-	-	-	0.16		
▪ Average Yield (ton/rai/year)	0.25		0.25	-	-	-	0.25		
▪ Water Used									
• Rain-fed	3	100.00	3	-	-	-	3	100.00	
▪ Average Yield (tap/rai/year)	0.25		0.25	-	-	-	0.25		
▪ Varieties									
• Hybrid	2	66.67	2	-	-	-	2	66.67	
• Local Variety	1	33.33	1	-	-	-	1	33.33	

Remark: <sup>v</sup> Planted area of household who have ready harvested

TABLE 5 (Cont'd)

Items	Ban Mong Club		Ban Tra Phayom		Total		
	Direct Beneficiaries	Sub-Total	Direct Beneficiaries	Sub-Total			
	Number	Value	Number	Value			
<b>Number of Respondents</b>	24	100.00	50	100.00	80	100.00	
2.4 Paddy							
▪ Number of Growers	-	-	-	-	1	1.25	
▪ Planted Area (rai/grower)	-	-	1	5.00	3.00	3.00	
▪ Planted Area (rai/HH) : divided by respondent	-	-	0.15	0.15	0.10	0.04	
▪ Average Yield (ton/rai/year)	-	-	0.50	0.50	0.50	0.50	
▪ Water Usage Type	-	-	-	-	-	-	
• Rain-fed	-	-	1	100.00	1	100.00	
▪ Average Yield (kg/rai/year)	-	-	100	100	100	100	
▪ Varieties	-	-	-	-	-	-	
• Pratum 1	-	-	1	100.00	1	100.00	
2.5 Corn (Sticky)							
▪ Number of Growers	-	-	1	2.00	-	1	1.25
▪ Planted Area (rai/grower) : divided by grower	-	-	2.50	2.50	-	2.50	
▪ Planted Area (rai/HH) : divided by respondent	-	-	0.10	0.10	-	0.03	
▪ Average Yield (kg/rai/year)	-	-	56.00	56.00	-	56.00	
▪ Water Usage Type	-	-	1	100.00	-	1	100.00
• Rain-fed	-	-	56.00	56.00	-	56.00	
▪ Average Yield (kg/rai/year)	-	-	1	100.00	-	1	100.00
▪ Varieties	-	-	-	-	-	-	
• Local Variety	-	-	1	100.00	-	1	100.00

TABLE 5 (Cont'd)

Items	Ban Nong Chon				Ban Thap Phayom				TOTAL			
	Direct Beneficiaries		Possible future Beneficiaries (Nearby Households)		Direct Beneficiaries		Possible future Beneficiaries (Nearby Households)					
	Number	%	Number	%	Number	%	Number	%				
<b>Number of Respondents</b>	24	100.00	26	100.00	20	100.00	10	100.00	30	100.00	80	100.00
2.6 Sweet Corn												
• Number of Growers	-	-	-	-	8	40.00	5	50.00	13	43.33	13	16.25
• Planted Area (rai/grower) : divided by grower	-	-	-	-	5.00	5.00	2.15	2.15	3.90	3.90	3.90	3.90
• Planted Area (rai/Ha) : divided by respondent	-	-	-	-	2.00	2.00	0.86	0.86	1.59	1.59	1.59	1.59
• Average Yield (ton/rai/year)	-	-	-	-	4.57	4.57	4.58	4.58	4.57	4.57	4.57	4.57
• Water Usage Type	-	-	-	-	-	-	-	-	-	-	-	-
• Rain-fed	-	-	-	-	-	-	-	-	-	-	-	-
• Average Yield (ton/rai/year)	-	-	-	-	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86
• Irrigation	-	-	-	-	7	87.50	5	100.00	12	92.31	12	92.31
• Average Yield (ton/rai/year)	-	-	-	-	4.71	4.71	4.58	4.58	4.66	4.66	4.66	4.66
• Varieties												
• Hi Brix - 10	-	-	-	-	6	75.00	4	80.00	10	76.92	10	76.92
• Whan Kleaw Thong 99	-	-	-	-	-	-	1	20.00	1	7.69	1	7.69
• Unidentified	-	-	-	-	2	25.00	-	-	2	15.38	2	15.38
2.7 Baby Corn												
• Number of Growers	-	-	-	-	9	45.00	9	90.00	18	60.00	18	22.50
• Planted Area (rai/grower) : divided by grower	-	-	-	-	5.75	5.75	4.17	4.17	4.96	4.96	4.96	4.96
• Planted Area (rai/Ha) : divided by respondent	-	-	-	-	2.59	2.59	2.59	2.59	2.98	2.98	2.98	2.98
• Average Yield (ton/rai/year)	-	-	-	-	4.76	4.76	5.03	5.03	4.89	4.89	4.89	4.89
• Number of Planting per Year	-	-	-	-	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4

TABLE 5 (Cont'd)

	Ban Nong Chok				Ban Nong Phayon				Total	
	Direct Beneficiaries (Number)	Possible Farmers (Nearby Household) (Number)	Sub-Total	%	Direct Beneficiaries (Number)	Possible Farmers (Nearby Household) (Number)	Sub-Total	%		
<b>Number of Respondents</b>	24	26	100.00		20	10	100.00		80	100.00
Water Usage Type										
• Rain-fed	-	-	-		2	1	22.22		3	16.67
<b>Average Yield (ton/rai/year)</b>										
• Irrigation	-	-	-		7	8	77.78		15	83.33
<b>Average Yield (ton/rai/year)</b>										
Varieties										
• SG-48	-	-	-		2	2	22.22		4	22.22
• G-5414	-	-	-		4	2	44.44		6	33.33
• Pacific	-	-	-		1	-	11.11		1	5.56
• G-17	-	-	-		-	3	33.33		3	16.67
• G-14	-	-	-		-	1	11.11		1	5.56
• Unidentified	-	-	-		-	3	33.33		3	16.67
<b>3. Vegetables</b>										
<b>3.1 Asparagus</b>										
Number of Growers	2	-	8.33		-	-	-		1	3.33
Planted Area (rai/grower) : divided by grower	1.50	-	1.50		2.00	-	2.00		2.00	1.67
Planted Area (rai/rai) : divided by respondent	0.75	-	0.75		0.10	-	0.10		0.07	0.06
Average Yield (ton/rai/year)	0.48	-	0.48		1.26	-	1.26		1.26	0.74
Water Usage Type										
• Rain-fed	1	-	50.00		-	-	-		-	33.33
<b>Average Yield (ton/rai/year)</b>	0.40	-	0.40		-	-	-		-	0.40

TABLE 5 (Cont'd)

Item	Palang Pong (Ch)		Palang Pong (Ch)		Palang Pong (Ch)		Palang Pong (Ch)		Palang Pong (Ch)		Palang Pong (Ch)		Total	
	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value		
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
• Irrigation	1	50.00	-	-	1	50.00	-	-	-	-	1	100.00	2	66.67
<b>Average Yield (ton/rai/year)</b>	0.55				0.56		0.26				1.26		0.91	
• Varieties (Multiple answers)														
• Boxinbood	2	100.00	-	-	2	100.00	-	-	-	-	-	-	2	66.67
• Imperial	1	50.00	-	-	1	50.00	-	-	-	-	1	100.00	2	66.67
<b>3.2 Cucumber</b>														
• Number of Growers	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
• Who have just Started to Plant	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00
• Planted Area (rai/grower) : divided by grower	4.00		-	-	4.00		-	-	-	-	-	-	4.00	
• Planted Area (rai/HH) : divided by respondent	0.17				0.08								0.05	
• Average Yield (ton/rai/year)	-		-		-		-		-		-		-	
• Water Usage Type														
• Rain-fed	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00
• Irrigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
• Varieties														
• Microsin	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00

TABLE 5 (Cont'd)

	High Camp/Chol. (Cont.)		High Camp/Chol. (Nearby Household)		Sub-town		District		Ban Phung Playom		Total			
	Number	100.00	Number	100.00	Number	100.00	Number	100.00	Number	100.00	Number	100.00		
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
3.3 Galingale														
• Number of Growers	1	4.17	-	-	1	2.00	1	5.00	-	-	1	3.33	2	2.50
• Who have or ready Harvested	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	50.00
• Who have Just Started to Plant	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	50.00
• Planted Area (rai/grower) : divided by grower	4.00		-	-	4.00		1.00		-	-	1.00		2.50	
• Planted Area (rai/HH) : divided by respondent	0.17		-	-	0.08		0.05		-	-	0.03		0.06	
• Average Yield (ton/rai/year)	0.50		-	-	0.50		-		-	-	-		0.50	
• Water Used														
• Rain-fed	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	50.00
• Average Yield (ton/rai/year)	0.50		-	-	0.50		-		-	-	-		0.50	
• Irrigation	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	50.00
• Average Yield (ton/rai/year)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
• Pong	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	50.00
• Nam Phung	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	50.00

TABLE 5 (Cont'd)

Items	Ban Nong Chok				Ban Tha Phayom				Total					
	Direct Beneficiaries		Possible Future Beneficiaries		Direct Beneficiaries		Possible Future Beneficiaries							
	Number	%	Number	%	Number	%	Number	%						
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
3.4 Lemon Grass														
• Number of Growers	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
• Planted Area (rai/grower) : divided by grower	2.00		-		2.00		-		-		-		2.00	
• Planted Area (rai/HH) : divided by respondent	0.08		-		0.08		-		-		-		0.08	
• Average Yield (ton/rai/year)	2.00		-		2.00		-		-		-		2.00	
• Water Used														
• Rain-fed	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00
• Average Yield (ton/rai/year)	2.00		-		2.00		-		-		-		2.00	
• Varieties														
• Local Variety	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00
3.5 Pumpkin														
• Number of Growers	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
• Who have Just Started to Plant	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00
• Planted Area (rai/grower) : divided by grower	4.50		-		4.50		-		-		-		4.50	
• Planted Area (rai/HH) : divided by respondent	0.04		-		0.04		-		-		-		0.04	
• Water Usage Type														
• Rain-fed	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00
• Varieties														
• Unidentified	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00



TABLE 5 (Cont'd)

	Ban Mong Club			Ban Mong Phayom			Total
	Direct Beneficiaries	Possible Income (Beneficiaries)	Sub-Total	Direct Beneficiaries	Possible Income (Beneficiaries)	Sub-Total	
	Number	Number	Number	Number	Number	Number	
<b>Number of Respondents</b>	24	100.00	50	20	100.00	30	100.00
3.6 Egg-Plant							
• Number of Growers	-	-	-	4	20.00	6	20.00
• Planted Area (rai/grower) : divided by grower	-	-	-	1.90	1.25	1.71	1.71
• Planted Area (rai/rai) : divided by respondent	-	-	-	0.38	0.25	0.40	0.35
• Average Yield (ton/rai/year)	-	-	-	6.00	6.00	6.00	6.00
• Water Usage Type (Multiple answers)	-	-	-	4	100.00	6	100.00
• Irrigation	-	-	-	6.00	6.00	6.00	6.00
• Average Yield (ton/rai/year)	-	-	-	6.00	6.00	6.00	6.00
• Varieties	-	-	-	-	-	-	-
• Nam Yod	-	-	-	4	100.00	6	100.00
3.7 Lettuce							
• Number of Growers	-	-	-	2	10.00	2	6.67
• Who have Already Harvested	-	-	-	1	50.00	1	50.00
• Who have Just Started to Plant	-	-	-	1	50.00	1	50.00
• Planted Area (rai/grower) <sup>1/</sup>	-	-	-	22.00	-	22.00	22.00
• Planted Area (rai/rai) : divided by respondent	-	-	-	1.37	-	1.37	0.84
• Average Yield (ton/rai/year)	-	-	-	13.00	-	13.00	13.00
• Number of Planting per Year	-	-	-	3	-	3	3
• Water Usage Type (Multiple answers)	-	-	-	1	25.00	1	50.00
• Irrigation	-	-	-	13.00	-	13.00	13.00
• Average Yield (ton/rai/year)	-	-	-	13.00	-	13.00	13.00

TABLE 5 (Cont'd)

	Han Nong Cui			Han Taiyuan			Total					
	Number	Dir. (Planting)	Sub-total	Number	Dir. (Planting)	Sub-total	Number	Dir. (Planting)	Sub-total			
<b>Number of Respondents</b>	24	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
<ul style="list-style-type: none"> <li>▪ Varieties</li> <li>• F1 Hybrid Chinese Cabbage</li> <li>• Unidentified</li> </ul>	-	-	-	-	1	100.00	-	-	1	50.00	1	100.00
	-	-	-	-	1	100.00	-	-	1	50.00	1	100.00
3.8 Chili												
<ul style="list-style-type: none"> <li>▪ Number of Growers</li> <li>▪ Planted Area (rai/grower) : decided by grower</li> <li>▪ Planted Area (rai/HH) : decided by respondent</li> <li>▪ Average Yield (ton/rai/year)</li> <li>▪ Water Usage Type</li> <li>• Irrigation</li> <li>▪ Average Yield (ton/rai/year)</li> </ul>	-	-	-	-	4	20.00	1	10.00	5	16.67	5	6.25
	-	-	-	-	1.31	1.31	2.50	1.55	1.55	1.55	1.55	1.55
	-	-	-	-	0.26	0.26	0.25	0.26	0.26	0.26	0.26	0.1
	-	-	-	-	2.05	2.05	1.36	1.91	1.91	1.91	1.91	1.91
	-	-	-	-	4	100.00	1	100.00	5	100.00	5	100.00
	-	-	-	-	2.05	2.05	1.36	1.91	1.91	1.91	1.91	1.91
<ul style="list-style-type: none"> <li>▪ Varieties</li> <li>• Karen</li> <li>• Pop</li> <li>• Cham Pee</li> </ul>	-	-	-	-	2	50.00	1	100.00	3	60.00	3	60.00
	-	-	-	-	1	25.00	-	-	1	20.00	1	20.00
	-	-	-	-	1	25.00	-	-	1	20.00	1	20.00

Remark: <sup>1/</sup> Planted area of household who have ready harvested.

TABLE 5 (Cont'd)

	Ban Non (City)		Ban Non (Town)		Ban Non (Village)		Ban Non (Sub-Village)		Ban Non (Sub-Village)		Ban Non (Sub-Village)		Total	
	Number	100.00	Number	100.00	Number	100.00	Number	100.00	Number	100.00	Number	100.00		
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
<b>3.9 Long Bean</b>														
• Number of Growers	-	-	-	-	-	-	1	5.00	-	-	1	3.33	1	1.25
• Planted Area (rai/grower) : divided by grower	-	-	-	-	-	-	2.00	-	-	-	2.00	-	2.00	2.00
• Planted Area (rai/HH) : divided by respondent	-	-	-	-	-	-	0.10	-	-	-	0.07	-	0.08	0.08
• Average Yield (ton/rai/year)	-	-	-	-	-	-	3.75	-	-	-	3.75	-	3.75	3.75
• Number of Panning per Year	-	-	-	-	-	-	-	-	-	-	-	-	-	-
• Irrigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
• Average Yield (ton/rai/year)	-	-	-	-	-	-	3.75	-	-	-	3.75	-	3.75	3.75
• Varieties	-	-	-	-	-	-	-	-	-	-	-	-	-	-
• Lam Nam Chi	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	100.00
<b>4. Fruit/ Parenneal Trees</b>														
<b>4.1 Jack Fruit</b>														
• Number of Growers	2	8.33	-	-	2	4.00	-	-	-	-	-	-	2	2.50
• Who have Already Harvested	1	50.00	-	-	1	50.00	-	-	-	-	-	-	1	50.00
• Who have No Production	1	50.00	-	-	1	50.00	-	-	-	-	-	-	1	50.00
• Planted Area (rai/grower) <sup>1/</sup>	1.00	-	-	-	1.00	-	-	-	-	-	-	-	1.00	1.00
• Planted Area (rai/HH) : divided by respondent	0.38	-	-	-	0.46	-	-	-	-	-	-	-	0.11	0.11
• Average Yield (kg /rai/year)	30.00	-	-	-	30.00	-	-	-	-	-	-	-	30.00	30.00
		(Home Consumption)												

Remark: <sup>1/</sup> Planted area of household who have ready harvested.

TABLE 5 (Cont'd)

Item	Planting season		Dry season		Wet season		Total					
	Number	Value	Number	Value	Number	Value	Number	Value				
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	10	100.00	30	100.00	80	100.00
<ul style="list-style-type: none"> <li>■ Water Usage Type           <ul style="list-style-type: none"> <li>• Rain-fed</li> <li>• Irrigation</li> </ul> </li> <li>■ Varieties           <ul style="list-style-type: none"> <li>• Tab Moang</li> <li>• Luang Bai Tuy</li> </ul> </li> </ul>	2	100.00	-	-	2	100.00	-	-	-	-	2	100.00
<ul style="list-style-type: none"> <li>■ Number of Growers</li> <li>■ Planted Area (rai/grower) : deviced by grower</li> </ul>	1	50.00	-	-	1	50.00	-	-	-	-	1	50.00
<ul style="list-style-type: none"> <li>■ Average Yield (ton/rai/year)</li> </ul>	1	50.00	-	-	1	50.00	-	-	-	-	1	50.00
<ul style="list-style-type: none"> <li>■ Number of Growers</li> <li>■ Planted Area (rai/grower) : deviced by grower</li> </ul>	-	-	1	3.85	1	2.00	-	-	-	-	1	1.25
<ul style="list-style-type: none"> <li>■ Average Yield (ton/rai/year)</li> </ul>	-	-	1.00	1.00	1.00	1.00	-	-	-	-	1.00	1.00
<ul style="list-style-type: none"> <li>■ Water Usage Type           <ul style="list-style-type: none"> <li>• Rain-fed</li> </ul> </li> <li>■ Average Yield (ton/rai/year)</li> </ul>	-	-	0.50	0.50	0.50	0.50	-	-	-	-	0.50	0.50
<ul style="list-style-type: none"> <li>■ Varieties           <ul style="list-style-type: none"> <li>• I-dot</li> </ul> </li> </ul>	-	-	1	100.00	1	100.00	-	-	-	-	1	100.00
<ul style="list-style-type: none"> <li>■ Average Yield (ton/rai/year)</li> </ul>	-	-	0.50	0.50	0.50	0.50	-	-	-	-	0.50	0.50
<ul style="list-style-type: none"> <li>■ Varieties           <ul style="list-style-type: none"> <li>• I-dot</li> </ul> </li> </ul>	-	-	1	100.00	1	100.00	-	-	-	-	1	100.00

TABLE 5 (Cont'd)

	Ban-Mong Chok			Ban-Tua Phayom			Total	
	Direct Beneficiaries	Possible Future Beneficiaries	Sub-Total	Direct Beneficiaries	Possible Future Beneficiaries	Sub-Total		
	Number	Number	Number	Number	Number	Number		
<b>Number of Respondents</b>	24	100.00	50	100.00	20	100.00	80	100.00
4.3 Acacia								
▪ Number of Growers	-	3.85	1	2.00	-	-	1	1.25
▪ Planted Area (rai/grower) : divided by grower	-	2.00	2.00	-	-	-	2.00	-
▪ Planted Area (rai/HH) : divided by respondent	-	0.08	0.04	-	-	-	0.08	-
▪ Average Yield (grasp/rai/year)	-	4,500.00	4,500.00	-	-	-	4,500.00	-
▪ Water Usage Type								
• Rain-fed	-	100.00	1	100.00	-	-	1	100.00
▪ Average Yield (grasp/rai/year)	-	4,500.00	4,500.00	-	-	-	4,500.00	-
▪ Varieties								
• Unidentified	-	100.00	1	100.00	-	-	1	100.00
4.4 Elaeocarpus								
▪ Number of Growers	-	3.85	1	2.00	-	-	1	1.25
▪ Planted Area (rai/grower) : divided by grower	-	2.00	2.00	-	-	-	2.00	-
▪ Planted Area (rai/HH) : divided by respondent	-	0.08	0.04	-	-	-	0.08	-
▪ Average Yield (ton/rai/year)	-	1.00	1.00	-	-	-	1.00	-
▪ Water Usage Type								
• Rain-fed	-	100.00	1	100.00	-	-	1	100.00
▪ Average Yield (ton/rai/year)	-	1.00	1.00	-	-	-	1.00	-
▪ Varieties								
• Unidentified	-	100.00	1	100.00	-	-	1	100.00

TABLE 5 (Cont'd)

	Ban Yong Chok				Ban Yong Phayom				Total					
	Direct Growers (Nearby Household)		Sub-total		Direct Growers (Nearby Household)		Sub-total							
	Number	100.00	Number	100.00	Number	100.00	Number	100.00						
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
4.5 Bamboo														
▪ Number of Growers	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
▪ Planted Area (rai/grower) : divided by grower	-	-	5.00	5.00	5.00	5.00	-	-	-	-	-	-	5.00	5.00
▪ Planted Area (rai/grower) : divided by respondent	-	-	0.19	0.19	0.19	0.19	-	-	-	-	-	-	0.19	0.19
▪ Average Yield (ton/rai/year)	-	-	0.60	0.60	0.60	0.60	-	-	-	-	-	-	0.60	0.60
▪ Water Usage Type														
• Rain-fed	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00
▪ Average Yield (ton/rai/year)	-	-	0.10	0.10	0.10	0.10	-	-	-	-	-	-	0.10	0.10
▪ Varieties														
• Tong	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00
4.6 Mango														
▪ Number of Growers	1	4.17	1	3.85	2	4.00	-	-	-	-	-	-	2	2.50
▪ Planted Area (rai/grower) : divided by grower	5.00	5.00	17.00	17.00	11.00	11.00	-	-	-	-	-	-	11.00	11.00
▪ Planted Area (rai/grower) : divided by respondent	0.25	0.25	0.96	0.96	0.45	0.45	-	-	-	-	-	-	0.28	0.28
▪ Average Yield (ton/rai/year)	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	1.00	1.00
▪ Water Usage Type														
• Rain-fed	1	100.00	1	100.00	2	100.00	-	-	-	-	-	-	2	100.00
▪ Average Yield (ton/rai/year)	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	1.00	1.00
▪ Varieties (Multiple answers)														
• Chok A-nan	-	-	1	100.00	1	50.00	-	-	-	-	-	-	1	50.00
• Nam Dok Mai	1	100.00	1	100.00	2	100.00	-	-	-	-	-	-	2	100.00
• Kaew Sawoei	1	100.00	1	100.00	2	100.00	-	-	-	-	-	-	2	100.00
• Nang Klang Wan	-	-	1	100.00	-	50.00	-	-	-	-	-	-	1	50.00
5. Ornamental (Mangold)														

TABLE 5 (Cont'd)

Items	Pan Nong Chok				Ban Thua Phayom				Total			
	Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Sub-Total			
	Number	%	Number	%	Number	%	Number	%	Number	%		
<b>Number of Respondents</b>	24	100.00	26	100.00	20	100.00	10	100.00	30	100.00	80	100.00
<ul style="list-style-type: none"> <li>▪ Number of Growers</li> <li>▪ Planted Area (rai/grower) : divided by grower</li> </ul>	-	-	-	-	1	5.00	-	-	1	3.33	1	1.25
<ul style="list-style-type: none"> <li>▪ Planted Area (rai/HH) : divided by respondent</li> </ul>	-	-	-	-	0.75	0.04	-	-	0.75	0.02	0.75	0.75
<ul style="list-style-type: none"> <li>▪ Average Yield (flower/rai/year)</li> <li>▪ Water Usage Type</li> <li>• Irrigation</li> </ul>	-	-	-	-	213,336	0.04	213,336	-	213,336	0.02	213,336	213,336
<ul style="list-style-type: none"> <li>▪ Average Yield (ton/rai/year)</li> <li>▪ Varieties</li> <li>• American Marigold Sovereign</li> </ul>	-	-	-	-	1	100.00	-	-	1	100.00	1	100.00
					213,336	213,336	213,336	213,336	213,336	213,336	213,336	213,336

TABLE 6

SERIOUS PROBLEMS ON AGRICULTURE AND FARMER'S NEED FOR EXTENSION SERVICE

	Farm Income				Farm Output				Farm Input				Farm Labor				Farm Capital				Farm Land					
	Direct Beneficiaries		Indirect Beneficiaries		Subsidiary		Main		Family		Community		Individual		Family		Community		Individual		Family		Community		Individual	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00												
1. Serious Problems on Agriculture																										
1.1 The First Order																										
■ Insufficient water for cultivation	9	37.50	11	42.31	20	40.00	2	10.00	-	-	2	6.67	22	27.50												
■ Low price of production/Low income	10	41.67	7	26.92	17	34.00	8	40.00	3	30.00	11	36.67	28	35.00												
■ High price of inputs (e.g., seedling)	3	12.50	4	15.38	7	14.00	-	-	2	20.00	2	6.67	9	11.25												
■ Pest problem	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25												
■ Low yield problem	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25												
■ Lack of investment cost	1	4.17	1	3.85	2	4.00	-	-	1	10.00	1	3.33	3	3.75												
■ Unused agricultural area due to insufficient water	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25												
■ Low quality of pesticide	-	-	1	3.85	1	2.00	1	5.00	-	-	1	3.33	2	2.50												
■ Problem on pH value of soil/ poor soil quality	-	-	-	-	-	-	2	10.00	3	30.00	5	16.67	5	6.25												
■ Flood problem	-	-	-	-	-	-	7	35.00	1	10.00	8	26.67	8	10.00												
1.2 The Second Order																										
■ Insufficient water for cultivation	3	12.50	5	19.23	8	16.00	-	-	-	-	-	-	8	10.00												
■ Low price of production/Low income	6	25.00	6	23.08	12	24.00	5	25.00	1	10.00	6	20.00	18	22.50												
■ High price of inputs (e.g., seedling)	11	45.83	7	26.92	18	36.00	7	35.00	2	20.00	9	30.00	27	33.75												
■ Pest problem	2	8.33	1	3.85	3	6.00	2	10.00	2	20.00	4	13.33	7	8.75												
■ Low yield problem	1	4.17	1	3.85	2	4.00	-	-	-	-	-	-	2	2.50												
■ Lack of investment cost	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25												
■ Lack of labor use (family and hire labor)	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25												
■ Unused agricultural area due to insufficient water	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25												
■ Marketing problem/ Over supply	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25												
■ Problem on pH value of soil/ poor soil quality	-	-	-	-	-	-	1	5.00	1	10.00	2	6.67	2	2.50												
■ Unclean water contaminated with iron/ Poor water quality	-	-	-	-	-	-	5	25.00	2	20.00	7	23.33	7	8.75												
■ Flood problem	-	-	-	-	-	-	-	-	2	20.00	-	-	2	2.50												
■ Not specified	-	-	3	11.54	3	6.00	-	-	-	-	-	-	3	3.75												



TABLE 6 (Cont'd)

Number of Respondents	Ban Nedy/Chob			Ban The Phayom			Total							
	Direct Beneficiaries		Sub-Total	Direct Beneficiaries		Sub-Total		Total						
	Number	%		Number	%									
24	100.00	24	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00	
1.3 The Third Order	5	20.83	3	11.54	8	16.00	5	25.00	1	10.00	6	20.00	14	17.50
▪ Insufficient water for cultivation	4	16.67	6	23.08	10	20.00	4	20.00	4	40.00	8	26.67	18	22.50
▪ Low price of production/Low income	6	25.00	8	30.77	14	28.00	6	30.00	-	-	6	20.00	20	25.00
▪ High price of inputs (e.g., seedling)	1	4.17	1	3.85	2	4.00	-	-	1	10.00	1	3.33	3	3.75
▪ Pest problem	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
▪ Lack of channel/knowledge for livestock activity	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
▪ Lack of labor use (family and hire labor?)	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
▪ Natural disnaste	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
▪ Unused agricultural area due to insufficient water	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
▪ Lack of agricultural extension	2	8.33	1	3.85	3	6.00	-	-	-	-	-	-	3	3.75
▪ Marketing problem/ Over supply	-	-	-	-	-	-	1	5.00	-	-	1	3.33	1	1.25
▪ Low quality of pesticide	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
▪ Problem on pH value of soil/ poor soil quality	-	-	-	-	-	-	2	10.00	3	30.00	5	16.67	5	6.25
▪ Unclean water contaminated with iron/ Poor water quality	-	-	-	-	-	-	-	-	1	10.00	1	3.33	1	1.25
▪ Not specified	3	12.50	5	19.23	8	16.00	2	10.00	-	-	2	6.67	10	12.50

TABLE 6 (Cont'd)

Items	Ban Nong (Chok)			Ban Nong (Phayom)			Total							
	Direct Beneficiaries	Possible Beneficiaries (Nearby Households)	Sub-Total	Direct Beneficiaries	Possible Beneficiaries (Nearby Households)	Sub-Total								
	Number	Number	Number	Number	Number	Number								
<b>Number of Respondents</b>	<b>24</b>	<b>100.00</b>	<b>26</b>	<b>100.00</b>	<b>50</b>	<b>100.00</b>	<b>20</b>	<b>100.00</b>	<b>10</b>	<b>100.00</b>	<b>30</b>	<b>100.00</b>	<b>80</b>	<b>100.00</b>
2. Farmer's Need for Extension Service														
2.1 The First Order														
▪ Marketing system improvement (yield, guaranteed price, farmer group setting to gain negotiation power)	4	16.67	3	11.54	7	14.00	3	15.00	3	30.00	6	20.00	13	16.25
▪ Recommendation on cattle feeding / fishery culture	5	20.83	3	11.54	8	16.00	2	10.00	1	10.00	3	10.00	11	13.75
▪ Provide seedling to the farmer	1	4.17	-	-	1	2.00	1	5.00	1	10.00	2	6.67	3	3.75
▪ Sell inputs with low price to the farmer (fertilizer and pesticide)	3	12.50	-	-	3	6.00	1	5.00	-	-	1	3.33	4	5.00
▪ Suggestion on soil improvement	1	4.17	3	11.54	4	8.00	3	15.00	1	10.00	4	13.33	8	10.00
▪ Breed stock lending	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
▪ Suggestion on crop investment/planting to meet with demand (e.g. economic crop)	-	-	1	3.85	1	2.00	1	5.00	-	-	1	3.33	2	2.50
▪ To support the village fund	-	-	1	3.85	1	2.00	-	-	1	10.00	1	3.33	2	2.50
▪ To solve problem on insufficient water/ to increase water sources/ irrigation system/ canal dredging	7	29.17	4	15.38	11	22.00	1	5.00	-	-	1	3.33	12	15.00
▪ Crop zoning	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
▪ Advise on crop production processing	-	-	2	7.69	2	4.00	-	-	-	-	-	-	2	2.50
▪ Advise on compost/ bio fertilizer making	1	4.17	1	3.85	2	4.00	3	15.00	3	30.00	6	20.00	8	10.00
▪ Advise on pest control by bio-technology	-	-	-	-	-	-	2	10.00	-	-	2	6.67	2	2.50
▪ To solve problem on water contaminated with ion	1	4.17	5	19.23	6	12.00	2	10.00	-	-	2	6.67	8	10.00
▪ Extension for mushroom growing	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
▪ To advise on how to decrease investment cost for farmer	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
▪ Not specified	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25

TABLE 6 (Cont'd)

Items	Ban Nong Chok				Ban Nong Phayom				Total					
	Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)		Direct Beneficiaries		Possible Future Beneficiaries (Nearby Households)							
	Number	%	Number	%	Number	%	Number	%						
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
2.2 The Second Order														
<ul style="list-style-type: none"> <li>▪ Marketing system improvement (yield, guaranteed price, farmer group setting to gain negotiation power)</li> <li>▪ Recommendation on cattle feeding / fishery culture</li> <li>▪ To provide seedling to the farmer</li> <li>▪ To sell agricultural inputs with low price to the farmer (fertilizer and pesticide)</li> <li>▪ Suggestion on soil improvement</li> <li>▪ Breedstock lending</li> <li>▪ Suggestion on crop investment/planting to meet with demand (e.g. economic crop)</li> <li>▪ To support the village fund</li> <li>▪ To solve problem on insufficient water/ to increase water sources/ irrigation system/ canal dredging</li> <li>▪ Crop zoning</li> <li>▪ Demonstration plot (e.g., pineapple / corn / vegetable and crop rotation planting)</li> <li>▪ To give knowledge on pest control</li> <li>▪ Advise on crop production processing</li> <li>▪ Advise on compost/ bio fertilizer making</li> <li>▪ Advise on pest control by bio-technology</li> <li>▪ Extension for orchard/crop planting</li> <li>▪ Extension for mushroom growing</li> <li>▪ To advise on how to decrease investment cost for farmer</li> <li>▪ Not specified</li> </ul>	2	8.33	2	7.69	4	8.00	4	20.00	-	-	4	13.33	8	10.00
	7	29.17	9	34.62	16	32.00	1	5.00	1	10.00	2	6.67	18	22.50
	1	4.17	1	3.85	2	4.00	-	-	-	-	-	-	2	2.50
	3	12.50	3	11.54	6	12.00	2	10.00	1	10.00	3	10.00	9	11.25
	-	-	-	-	-	-	2	10.00	3	30.00	5	16.67	5	6.25
	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
	3	12.50	1	3.85	4	8.00	1	5.00	1	10.00	2	6.67	6	7.50
	-	-	3	11.54	3	6.00	-	-	-	-	-	-	3	3.75
	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
	-	-	-	-	-	-	1	5.00	1	10.00	2	6.67	2	2.50
	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	4.17	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
	1	4.17	2	7.69	3	6.00	-	-	1	10.00	1	3.33	4	5.00
	-	-	-	-	-	-	2	10.00	-	-	2	6.67	2	2.50
	2	8.33	2	7.69	4	8.00	3	15.00	-	-	3	10.00	7	8.75
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	1	5.00	-	-	1	3.33	1	1.25
	2	8.33	1	3.85	3	6.00	3	15.00	2	20.00	5	16.67	8	10.00

TABLE 6 (Cont'd)

Number of Respondents	District		Sub-District		District		Sub-District		District		Sub-District		District		Sub-District		Total
	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00			
2.3 The Third Order																	
<ul style="list-style-type: none"> <li>▪ Marketing system improvement (yield, guaranteed price, farmer group setting to gain negotiation power)</li> <li>▪ Recommendation on cattle feeding / fishery culture</li> <li>▪ To provide seedling to the farmer</li> <li>▪ To sell agricultural inputs with low price to the farmer (fertilizer and pesticide)</li> <li>▪ Suggestion on soil improvement</li> <li>▪ Suggestion on crop investment/planting to meet with demand (e.g. economic crop)</li> <li>▪ To support the village fund</li> <li>▪ To solve problem on insufficient water/ to increase water sources/ irrigation system/ canal dredging</li> <li>▪ Demonstration plot (e.g., pineapple / corn / vegetable and crop rotation planting)</li> <li>▪ To give knowledge on pest control</li> <li>▪ Advise on crop production processing</li> <li>▪ Advise on compost/ bio-fertilizer making</li> <li>▪ Advise on pest control by bio-technology</li> <li>▪ To solve problem on water contaminated with ion</li> <li>▪ Extension for orchard/crop planting</li> <li>▪ Not specified</li> </ul>	5	20.83	2	7.69	7	14.00	2	10.00	-	-	2	6.67	9	11.25			
	1	4.17	3	11.54	4	8.00	-	-	-	-	-	-	4	5.00			
	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25			
	2	8.33	3	11.54	5	10.00	-	-	2	20.00	2	6.67	7	8.75			
	1	4.17	-	-	1	2.00	2	10.00	1	10.00	3	10.00	4	5.00			
	-	-	-	-	-	-	1	5.00	-	-	1	3.33	1	1.25			
	3	12.50	1	3.85	4	8.00	1	5.00	-	-	1	3.33	5	6.25			
	1	4.17	-	-	1	2.00	1	5.00	-	-	1	3.33	2	2.50			
	2	8.33	-	-	2	4.00	-	-	1	10.00	1	3.33	3	3.75			
	-	-	1	3.85	1	2.00	1	5.00	1	10.00	2	6.67	3	3.75			
	-	-	2	7.69	2	4.00	3	15.00	-	-	3	10.00	5	6.25			
	1	4.17	3	11.54	4	8.00	-	-	-	-	-	-	4	5.00			
	-	-	-	-	-	-	-	-	1	10.00	1	3.33	1	1.25			
	-	-	-	-	-	-	1	5.00	1	10.00	2	6.67	2	2.50			
	-	-	2	7.69	2	4.00	1	5.00	-	-	1	3.33	3	3.75			
	7	29.17	9	34.62	16	32.00	7	35.00	3	30.00	10	33.33	26	32.50			

TABLE 7  
DIVERSIFIED CROP INCREASE OF RECEIVING MORE WATER SUPPLY FOR CULTIVATION

	Ban Thong Chok				Ban Thong Phayom				Total	
	Direct Beneficiaries	Possible Future Beneficiaries (Nearby Households)	Sub-Total	%	Direct Beneficiaries	Possible Future Beneficiaries (Nearby Households)	Sub-Total	%	Number	%
	Number	Number	Number	%	Number	Number	Number	%	Number	%
<b>Number of Respondents</b>	24	26	50	100.00	20	10	30	100.00	80	100.00
1. Diversified Crop increase of receiving more water supply for cultivation										
• No	5	15	20	40.00	6	6	12	40.00	32	40.00
• Yes	19	11	30	60.00	14	4	18	60.00	48	60.00
Total Diversity Area (rai)	9.89	8.93	9.54		6.92	2.44	5.87		8.21	
2. Crop Diversified										
2.1 Sugar cane										
• No	10	17	27	54.00	15	10	25	83.33	52	65.00
• Yes	14	9	23	46.00	5	-	5	16.67	28	35.00
<b>New Crop and Variety Want to Diversify</b>										
• Pineapple	4	1	5	21.74	-	-	-	-	5	17.86
• Tadam	4	1	5	100.00	-	-	-	-	5	100.00
• Vegetable	5	2	7	30.43	2	-	2	40.00	9	32.14
• Unidentified	5	2	7	100.00	2	-	2	100.00	9	100.00
• Vegetable + Pineapple	3	-	3	42.86	-	-	-	-	3	10.71
• Unidentified + Tadam	3	-	3	100.00	-	-	-	-	3	100.00
• Pasture	2	2	4	17.39	-	-	-	-	4	14.29
• Rucy Grass	1	-	1	25.00	-	-	-	-	1	25.00
• Unidentified	1	2	3	75.00	-	-	-	-	3	75.00
• Vegetable + Maize	-	1	1	4.35	-	-	-	-	1	3.57
• Suwan 2 + Unidentified	-	1	1	100.00	-	-	-	-	1	100.00
• Baby Corn	-	1	1	4.35	-	-	-	-	1	3.57
• Unidentified	-	1	1	100.00	-	-	-	-	1	100.00

TABLE 7 (Cont'd)

	Diverse		Sug Cane		Banana		Mango		Jackfruit		Lemon/Lime		Other		Total
	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value	
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00	
■ Sweet Corn	-	-	1	11.11	1	4.35	-	-	-	-	-	-	1	3.57	
• Hi Brix - 10	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00	
■ Vegetable + Ornamental	-	-	1	11.11	1	4.35	-	-	-	-	-	-	1	3.57	
• Unidentified	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00	
■ Asparagus + Paddy	-	-	-	-	-	-	1	20.00	-	-	1	20.00	1	3.57	
• UC + Suphan 1	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	100.00	
■ Corn + Egg plant	-	-	-	-	-	-	1	20.00	-	-	1	20.00	1	3.57	
• Unidentified + Microsin	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	100.00	
■ Long Bean + Cucumber	-	-	-	-	-	-	1	20.00	-	-	1	20.00	1	3.57	
• Unidentified	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	100.00	
Diversify Area (rai/house)	10.50		8.33		9.65		10.00		-		10.00		9.71		
2.2 Pineapple	23	95.83	24	92.31	47	94.00	20	100.00	10	100.00	30	100.00	77	96.25	
■ No	1	4.17	2	7.69	3	6.00	-	-	-	-	-	-	3	3.75	
■ Yes	1	100.00	1	50.00	2	66.67	-	-	-	-	-	-	2	66.67	
<b>New Crop and Variety Want to Diversify</b>	1	100.00	1	100.00	2	100.00	-	-	-	-	-	-	2	100.00	
■ Baby Corn	-	-	1	50.00	1	33.33	-	-	-	-	-	-	1	33.33	
• Unidentified	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00	
■ Sugar cane	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00	
• K-92	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00	
Diversify Area (rai/house)	10.00		3.75		5.83		-		-		-		5.83		

TABLE 7 (Cont'd)

Item	Diversity		Sub-crop		Diversity		Sub-crop		Diversity		Sub-crop		Total	
	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
2.3 Maize	24	100.00	25	96.15	49	98.00	20	100.00	10	100.00	30	100.00	79	98.75
▪ No	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
▪ Yes	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25
<b>New Crop and Variety Want to Diversify</b>	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00
▪ Asparagus	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00
• Boxinhood	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00
Diversity Area (rai/house)	-	-	2.50	2.50	2.50	2.50	-	-	-	-	-	-	2.50	2.50
2.4 Cucumber	23	95.83	26	100.00	49	98.00	20	100.00	10	100.00	30	100.00	79	98.75
▪ No	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
▪ Yes	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25
<b>New Crop and Variety Want to Diversify</b>	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00
▪ Long Bean	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00
• Sorn Daeng	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00
Diversity Area (rai/house)	4.00	4.00	-	-	4.00	4.00	-	-	-	-	-	-	4.00	4.00
2.5 Pasture	22	91.67	26	100.00	48	96.00	20	100.00	10	100.00	30	100.00	78	97.50
▪ No	2	8.33	-	-	2	4.00	-	-	-	-	-	-	2	2.50
▪ Yes	2	8.33	-	-	2	4.00	-	-	-	-	-	-	2	2.50
<b>New Crop and Variety Want to Diversify</b>	2	100.00	-	-	2	100.00	-	-	-	-	-	-	2	100.00
▪ Pineapple	2	100.00	-	-	2	100.00	-	-	-	-	-	-	2	100.00
• Tadarn	2	100.00	-	-	2	100.00	-	-	-	-	-	-	2	100.00
Diversity Area (rai/house)	4.00	4.00	-	-	4.00	4.00	-	-	-	-	-	-	4.00	4.00

TABLE 7 (Cont'd)

	District (Hemchandr)		Sub-town (Sambalpur)		Office (Hemchandr)		Sub-town (Hemchandr)		Office (Hemchandr)		Sub-town (Hemchandr)		Office (Hemchandr)		Sub-town (Hemchandr)		Office (Hemchandr)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00				
2.6 Land Lease out to Other	24	100.00	25	96.15	49	98.00	20	100.00	10	100.00	30	100.00	79	98.75				
▪ No	-	-	1	3.85	1	2.00	-	-	-	-	-	-	1	1.25				
▪ Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
<b>New Crop and Variety Want to Diversify</b>	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00				
▪ Pineapple	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00				
• Tadam	-	-	1	100.00	1	100.00	-	-	-	-	-	-	1	100.00				
Diversify Area (rai/house)	-	-	13.25	13.25	13.25	13.25	-	-	-	-	-	-	13.25	13.25				
2.7 Gaingale	23	95.83	26	100.00	49	98.00	20	100.00	10	100.00	30	100.00	79	98.75				
▪ No	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25				
▪ Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
<b>New Crop and Variety Want to Diversify</b>	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
▪ Chilli	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
• Karen	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
Diversify Area (rai/house)	4.00	4.00	-	-	4.00	4.00	-	-	-	-	-	-	4.00	4.00				
2.8 Used Land (Free of Charge)	23	95.83	26	100.00	49	98.00	20	100.00	10	100.00	30	100.00	79	98.75				
▪ No	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25				
▪ Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
<b>New Crop and Variety Want to Diversify</b>	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
▪ Longan	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
• I-dor	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
Diversify Area (rai/house)	11.00	11.00	-	-	11.00	11.00	-	-	-	-	-	-	11.00	11.00				



TABLE 7 (Cont'd)

Crop	Diversity Area (rai/house)		Ban Yong Sub-district		Ban Heng Sub-district		Ban Heng Sub-district		Ban Heng Sub-district		Ban Heng Sub-district		Ban Heng Sub-district		Ban Heng Sub-district		Ban Heng Sub-district	
	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00				
2.9 Mango	23	95.83	26	100.00	49	98.00	20	100.00	10	100.00	30	100.00	79	98.75				
▪ No	1	4.17	-	-	1	2.00	-	-	-	-	-	-	1	1.25				
▪ Yes	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
• K-92	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
Diversity Area (rai/house)	1.00		-	-	1.00		-	-	-	-	-	-	1.00					
2.10 Pumpkin	23	95.83	26	100.00	49	98.00	19	95.00	10	100.00	29	96.67	78	97.50				
▪ No	1	4.17	-	-	1	2.00	1	5.00	-	-	1	3.33	2	2.50				
▪ Yes	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	50.00				
• K-92	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
Diversity Area (rai/house)	1.00		-	-	1.00		-	-	-	-	-	-	1.00					
2.11 Corn	23	95.83	26	100.00	49	98.00	19	95.00	10	100.00	29	96.67	78	97.50				
▪ No	1	4.17	-	-	1	2.00	1	5.00	-	-	1	3.33	2	2.50				
▪ Yes	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	50.00				
• K-92	1	100.00	-	-	1	100.00	-	-	-	-	-	-	1	100.00				
▪ Paddy	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	50.00				
• Jusmint	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	100.00				
Diversity Area (rai/house)	2.00		-	-	2.00		2.00		-	-	2.00		2.00					

TABLE 7 (Cont'd)

Item	Sub Area 1			Sub Area 2			Sub Area 3			Sub Area 4			Sub Area 5			Total	
	Number	Amount	Quantity	Number	Amount	Quantity	Number	Amount	Quantity	Number	Amount	Quantity	Number	Amount	Quantity		
<b>Number of Respondents</b>	24	100.00		26	100.00		50	100.00		20	100.00		30	100.00	80	100.00	
2.12 Sweet Corn	24	100.00		26	100.00		50	100.00		16	80.00	10	100.00	26	86.67	76	95.00
▪ No	-	-		-	-		-	-		4	20.00	-	-	4	13.33	4	5.00
▪ Yes	-	-		-	-		-	-		1	25.00	-	-	1	25.00	1	25.00
<b>New Crop and Variety Want to Diversify</b>	-	-		-	-		-	-		1	100.00	-	-	1	100.00	1	100.00
▪ Asparagus + Egg Plant	-	-		-	-		-	-		3	75.00	-	-	3	75.00	3	75.00
• UC + Nam Yod	-	-		-	-		-	-		3	100.00	-	-	3	100.00	3	100.00
▪ Vegetable	-	-		-	-		-	-		-	-	-	-	-	-	-	-
• Unidentified	-	-		-	-		-	-		-	-	-	-	-	-	-	-
Diversify Area (rai/house)	-	-		-	-		-	-		4.25	4.25	-	-	4.25	4.25	4.25	4.25
2.13 Baby Corn	24	100.00		26	100.00		50	100.00		18	90.00	6	60.00	24	80.00	74	92.50
▪ No	-	-		-	-		-	-		2	10.00	4	40.00	6	20.00	6	7.50
▪ Yes	-	-		-	-		-	-		1	50.00	-	-	1	16.67	1	16.67
<b>New Crop and Variety Want to Diversify</b>	-	-		-	-		-	-		1	100.00	-	-	1	100.00	1	100.00
▪ Paddy	-	-		-	-		-	-		1	50.00	-	-	1	16.67	1	16.67
• Patun 1	-	-		-	-		-	-		1	100.00	-	-	1	100.00	1	100.00
▪ Chili	-	-		-	-		-	-		1	50.00	-	-	1	16.67	1	16.67
• Karen	-	-		-	-		-	-		1	100.00	-	-	1	100.00	1	100.00
▪ Egg Plant + Chili	-	-		-	-		-	-		-	-	1	25.00	1	16.67	1	16.67
• Nam Yod + Cham Pee	-	-		-	-		-	-		-	-	1	100.00	1	100.00	1	100.00
▪ Egg Plant	-	-		-	-		-	-		-	-	1	25.00	1	16.67	1	16.67
• Nam Yod	-	-		-	-		-	-		-	-	1	100.00	1	100.00	1	100.00
▪ Vegetable	-	-		-	-		-	-		-	-	2	50.00	2	33.33	2	33.33
• Unidentified	-	-		-	-		-	-		-	-	2	100.00	2	100.00	2	100.00
Diversify Area (rai/house)	-	-		-	-		-	-		6.00	6.00	2.44	2.44	3.62	3.62	3.62	3.62

TABLE 7 (Cont'd)

Main	Bar, Main crop		Sub crop		Diverse		Diverse		Diverse		Diverse		Diverse	
	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
<b>Number of Respondents</b>	24	100.00	26	100.00	50	100.00	20	100.00	10	100.00	30	100.00	80	100.00
2.14 Idle Land	24	100.00	26	100.00	50	100.00	19	95.00	10	100.00	29	96.67	79	98.75
<ul style="list-style-type: none"> <li>■ No</li> <li>■ Yes</li> </ul>	-	-	-	-	-	-	1	5.00	-	-	1	3.33	1	1.25
<b>New Crop and Variety Want to Diversify</b>	-	-	-	-	-	-	1	100.00	-	-	1	100.00	1	100.00
<ul style="list-style-type: none"> <li>■ Egg Plant + Sweet Corn</li> <li>• Nam Yod + Hy Brix-10</li> </ul>	-	-	-	-	-	1	100.00	-	-	1	100.00	1	100.00	
Diversify Area (rai/house)	-	-	-	-	-	9.00	9.00	-	-	9.00	9.00	9.00	9.00	