

APPENDIX-M : RURAL SOCIETY AND FARM HOUSEHOLD ECONOMY

ATTACHMENT M.2.1 : Questionnaire Form A



SURVEY FORM-A

The government of Socialist Republic of Viet Nam decided to conduct a survey to initiate program for improving of farmers' living condition with the assistance of Japanese government.

This survey aims to collect basic data necessary for establishing a master plan for the development program.

We would appreciate it very much if you understand the purpose of this survey and if you cooperate with us at this time. Since the survey result will be analyzed as general data, not as personal data. we assure you that participating in this survey does not cause you any troubles.

Commune : _____
 Village : _____
 Sample number : No. _____

Name : _____ Age : _____
 Address : _____

Category(*) : _____

* Write the category of grouping of farmers in the village. The categories shall be determined for each village when selecting farmers for interview.

Name of Surveyor : _____

Date of Survey : _____

Place of Survey : _____

SURVEY FORM-A

2-3 What kind of equipment do you use for collecting water?

- a. Power pump b. Hand pump c. Well bucket d. none
e. other (describe : _____)

2-4 Is your water source mentioned above private use or common use?

- a. Private use b. Common use with another households
c. other (describe : _____)

2-5 Is your water enough in quantity?

- a. enough b. not enough

2-6 Is your water good in quality?

- a. good b. not good

2-7 What kind of power source do you use? (select one answer for each)

1) for cooking

- a. wood, charcoal b. kerosene c. gas (LPG) d. electric
e. other (describe : _____)

2) for lighting

- a. lamp oil b. kerosene c. gas d. electric
e. other (describe : _____)

2-8 Type of house (select one answer)

- a. Permanent type (brick wall, ceramic roof, cement floor)
b. Semi-permanent type (wood wall, ceramic roof, cement floor or bare ground)
c. Temporary type (any type other than a. & b.)

2-9 Do you have the goods mentioned below?(select all you have)

- a. Radio b. Television c. Refrigerator d. Wind fan e. Air Conditioner
f. Clock g. Bicycle h. Motorbike i. Car j. Radio-cassette
k. Other (describe : _____)

2-10 Where do you obtain information regarding agricultural technique from?(select all applies)

- a. Radio b. Television c. Newspaper d. Farmers' union e. Extension officer
f. Other (describe : _____)

SURVEY FORM-A

3 Eating

3-1 Did your family has enough rice to eat last year?

- a. enough
- b. not enough unusually
- c. not enough as usual

3-1-A If your answer is "not enough", how much rice did you need and how long did this deficiency occur?

Amount _____ (kg)

Duration _____ (month)

3-1-B If your answer is "not enough", what measure do you take to solve this food deficient problem?

- a. Purchasing from neighbors
- b. Borrowing from neighbors
- c. Purchasing from market
- d. Borrowing from relatives
- e. Exchanging commodities
- f. Other (describe : _____)

3-2 Was your family subsidized through program provided by the government last year?

- a. Yes
- b. No

3-2-A If your answer is "Yes", please provide following information regarding the subsidiary.

Commodity/Kind	Amount (kg)	Duration (month)	Frequency over years	
			Usually	Unusually

3-3 What do you and your family eat often as daily food?

- a. Rice
- b. Corn
- c. Groundnut
- d. Soybean
- e. Cassava
- f. Meat
- g. Fish
- h. Shrimp
- i. Crab
- j. Vegetable

3-4 What do you and your family eat occasionally?

- a. Rice
- b. Corn
- c. Groundnut
- d. Soybean
- e. Cassava
- f. Meat
- g. Fish
- h. Shrimp
- i. Crab
- j. Vegetable

3-5 How often do you eat meat?(select one answer)

- a. 1 - 2 times in a month (eat seldom)
- b. 1 - 2 times in a week (eat sometimes)
- c. 3 - 4 times in a week (eat every other day)
- d. 5 - 7 times in a week (eat almost every day)

SURVEY FORM-A

4 Health and Sanitation

4-1 What type of toilet do you have in your house? (select one answer)

- a. Flush toilet
- b. Hole with ceramic stool (vacuuming services? yes no)
- c. Hole in the ground
- d. Discharging into river/stream
- e. none
- f. Other (describe: _____)

4-2 What is the common diseases and/or health conditions happening in your family?(select all applies)

- a. Malaria
- b. Pagoda
- c. Cholera
- d. Malnutrition
- e. Other (describe: _____)

4-3 Has anyone of your family get sick during the last one year?

- a. Yes
- b. No

4-3-A If your answer is “Yes”, please answer who is the family member attacked and the name of the illness.

Family member :

Name of illness :

4-3-B What have happened to the member afterwards?

- a. Got well
- b. Got serious
- c. Died of the illness
- d. Other (describe: _____)

4-4 How much was your expenditure for medical care in your family during the last one year?

_____ VND

4-5 Where did the child birth in your family take place at?

- a. Commune Health Care Center (How many times? _____)
- b. Home (_____ times)
- c. Hospital (_____ times, location _____)
- d. Other (describe: _____)

4-6 Please comment regarding your view on medical care system.

.....

SURVEY FORM-A

5 Education

5-1 Do you have any children who should go to primary school or lower secondary school?

- a. Yes
- b. No

5-1-A If your answer is "Yes", are they going to school?

- a. Yes
- b. No → What was the major reason for the absence? (select one answer)
 - a. Economical difficulty
 - b. Sickness/illness
 - c. To help family with housework
 - d. Other (describe: _____)

5-1-AA If your answer is "Yes", please fill up the following table with the name, age, grade in school and amount incurred per one year for each of your children who are going to school.

No.	Name	Age	Grade	Amount of Schooling

5-1-AB Have your children ever been absent from school since the time of their enrollment?

- a. Yes → How many days in the past one year? ___ days
 - What was the major reason for the absence? (select one answer)
 - a. Economical difficulty
 - b. Sickness/illness
 - c. To help family with housework
 - d. Other (describe: _____)
- b. No

5-2 Do you have any handicapped children in your family?

- a. Yes (How many? _____)
- b. No

5-2-A If your answer is "Yes", are they going to school?

- a. Yes
- b. No → What was the major reason for not going to school? (select one answer)
 - a. Health condition
 - b. No access way to school
 - c. No school to accept
 - d. Economical difficulty
 - e. No intention of herself/himself
 - f. Other (describe: _____)

→ Can your children go to school if the problem selected above are improved?

- a. Yes
- b. No

SURVEY FORM-A

5-3 Are the adult member of your family literate?

- a. Literate (How many? ___ adults) b. None

6. Cultivating Land Area

6-1 Tell me the farming land area which being cultivated and managed by your family.

- | | | |
|----------------------------------|----------|--|
| 1. Paddy field | _____ m2 | (Numbers of plots: _____ plots, Ownership: _____) |
| 2. Upland field | _____ m2 | (Numbers of plots: _____ plots, Ownership: _____) |
| 3. Orchard/other perennial crops | _____ m2 | (Numbers of plots: _____ plots, Ownership: _____) |
| 4. Subsidiary crop land | _____ m2 | (Numbers of plots: _____ plots, Ownership: _____) |

Remark ; Don't include the owned land which is rent / leased to other farmer(s).

7. Cultivation, Yield and Marketing

Questions for Crop

Remark : Please put your answers in the **Crop Form** attached.

7-1 What kind of crops do you grow in the each field which mentioned above question 6-1.

(Please answer the name of crops only which you grow for sale.)

7-2 to 7-9

Please answer the following questions on each crops, but only for the major crops, listed in 7-1 which you grow for sale.

- 7-2 Variety of crop (if it is applicable)
- 7-3 Total Harvested Area in one year (12 months)(in several planting seasons)
- 7-4 Total Harvested Amount in one year (12 months)(in several planting seasons)
- 7-5 Yield

- Remarks;
- 1) Rice = dried weight with husk
 - 2) Corn = dried weight without comb
 - 3) Pulses = dried weight without pod
 - 4) Ground peanut = dried weight with pod

- 7-6 Total Sales Amount in one year (12 months)(in several planting seasons)
- 7-7 Unit Price
- 7-8 Total Sales in one year (12 months)(in several planting seasons)
- 7-9 On Farm Processing : Do you process the farm produce by yourself ? ("yes" or "no")
If "yes", please describe nature of the on farm processing.

SURVEY FORM-A**Questions for Livestock**

Remark : Answers are filled in the **Livestock Form** attached.

7-10 What kind of livestock do you grow?

Tell me the name of livestock only which you grown for sale.

7-11 to 7-15

Please answer the following questions on each livestock listed 7-6.

- 7-11 Purpose (meat, milk, egg, labor and etc.)
- 7-12 Numbers of livestock at present
- 7-13 Total number of livestock sold in one year (12 months)
- 7-14 Unit Price
- 7-15 Total Sales Amount in one year (12 months)

8. Infrastructure

Please answer the questions 8-1 and 8-2 regarding the farm plots which is cultivated & managed by your family.

8-1 Do you have the access road to your plots which has enough width for hand-tractor?

(min. 1.5 m in width : select one answer)

- a. Yes, there are roads to all plots
- b. There are roads to some plots
- c. No, there is no access road at all.

8-2 Do you have enough irrigation water for farming in your field? (select one answer)

- a. Enough supply in both dry and rainy season
- b. Enough supply in rainy season but not enough in dry season
- c. Not enough supply in neither rainy nor dry season

9. Agricultural Equipment & Tools

9-1 What kind of equipment do you have ? Select all you have from below:

- | | | |
|----------------------------|-----------------------------|--|
| a. Portable water pump | b. Hose pipe for irrigation | c. 4-wheel tractor |
| d. 2-wheel hand tractor | e. Manual hand sprayer | f. Power sprayer |
| g. Reaper | h. Thresher | i. Winnow |
| j. water mill | k. Cart ,Cattle wagon | l. 2-wheel hand tractor + Trailer |
| m. Truck(3-wheel, 4-wheel) | n. Grass cutter for weeding | o. Durable container for handling of produce |

SURVEY FORM-A**10. Agricultural Facility**

10-1 What kind of facility for livestock do you have? (select all you have)

- a. I have no facility b. Hut for livestock c. Storage for fodder, feed
d. Other (describe in brief _____)

Remark : Answer questions 10-2 to 10-4 if you have any facility for livestock.

10-2 What kind of livestock do you have with the facility ? (select all applicable)

- a. Cattle for Milk b. Cattle for Meat c. Pig
d. Hens for egg e. Hens for Meat (broiler) f. Goats, sheep
g. Other livestock (describe name of livestock: _____)

10-3 Size of the hut : _____ m² and _____ nos. of hut

10-4 Capacity of the Storage: _____ (number of animal) and _____ m³

10-5 Do you have ware-house for keeping crops and equipment ? (select one)

- a. Yes, I have b. No, I don't have

Remark : Answer questions 10-6 if you have warehouse

10-6 Size of the warehouse: _____ m²

11. Labor

Please answer the questions 11-1 to 11-3 regarding the field which your family cultivate & manage.

11-1 Do you use wage workers (labors paid with money and/or produce)

- a. Yes b. No

11-2 Is it difficult to find workers ?

- a. easy b. sometime difficult c. always difficult

11-3 What are your objectives of using workers ?

- a. Tilling b. Transplanting c. Weeding
d. Disease/insect control e. Harvesting f. Threshing, cleaning & selecting
g. Nursing h. Transportation / Sales
i. Others (describe: _____)

SURVEY FORM-A

2. Income

Please show in the box below the total family income in one year (in last year) with the following 3 categories.

2-1 How much income did your family get last year by selling the various agricultural produces?

Remark: agricultural produce = produced by your family + VAC + produce obtained as a land lease fee

** VAC : produce of such as Gardening, Fishery and Livestock breeding)*

2-2 Excluding 12-1(income from agricultural produce), how much income did your family get last year from agricultural related income source; i.e. land lease fee, machinery lease fee and wages.

Remark: wage income = money obtained by participating agricultural activities; i.e. weeding, harvesting.

2-3 How much income did your family get last year from the other jobs; i.e. kiosk, driver, carpenter, etc.

2-4 Salary and other subsidiaries.

12-1	
12-2	
12-3	
12-4	
Total	

3. Expenditure

Please show in the box below the total family expenditure in one year (in last year) with 3 categories mentioned below.

3-1 Please fill the following table with your expenditure for each item related to the agriculture production.

Item	Total expenditure/year (in commodity)	Total expenditure/year (in cash)
Seed		
Fertilizer		
Farm Chemical		
Irrigation		
Agricultural Tax		
Labor		
Machinery		
Other		

3-2 Please fill the following table with your expenditure for each item related to livestock breeding.

SURVEY FORM-A

Item	Total expenditure/year (in commodity)	Total expenditure/year (in cash)
Breed		
Feed/Fodder		
Other		

* "Other" includes veterinary services, insurance and etc.

13-3 Please fill the following table with your expenditure for each item related to living

Item	Total expenditure/year (in commodity)	Total expenditure/year (in cash)
Clothing		
Electricity		
Food		
Other		

SURVEY FORM-A

Crop Form

7-1 Kind of Crop	7-2 Variety	7-3 Harvested Area (ha)	7-4 Harvested Amount (kg)	7-5 Yield (ton/ha)	7-6 Sales Amount (kg)	7-7 Unit Price (VND/kg)	7-8 TTL Sale	7-9 Processing (Y or N)	if "Y" (yes), describe nature of processing.

SURVEY FORM-A

Livestock Form

7-10 Kind of Livestock	7-11 Purpose (meat, milk, egg, labor or etc.)	7-12 Number of Livestock at present	7-13 Number of Sold Livestock (kg)	7-14 Unit Price	7-15 Sales Amount (VND)
1. cattle					
2. buffalo					
3. pig					
4. chicken					
5. duck					
6. goat, sheep					
7. fresh water fish					
8.					
9.					
10.					

APPENDIX-M : RURAL SOCIETY AND FARM HOUSEHOLD ECONOMY

ATTACHMENT M.2.2 : Questionnaire Form B

SURVEY FORM-B**Intention Survey of Farm Management in Village**

(Survey on the Representative of the Village)

Name of the Village :

1. What is your major problems for growing crops and feeding animals?

(Choose 1 to 3 answers from the following)

- a. Poor soil fertility
- b. Irrigation water (shortage, flood, etc.)
- c. Damage by insect, disease, rodent, bird, animals
- d. High production cost (seed, fertilizer, water fee, feed, etc.)
- e. Low quality seed, difficult to obtain good seed
- f. Other problems caused by natural conditions in the region
- g. I do not know what is my problem / I think there is no problem

2. What is your major problems for marketing your farm produce

(Choose 1 to 3 answers from the following)

- a. Low selling price
- b. Quality doesn't meet market requirement and can't sell all the produce
- c. No transportation to the market or collection point
- d. Middle-man (broker, wholesaler) who has capital keep the selling price low.
- e. Unable to do the proper treatment before selling (treatment = drying, cleaning, grading, sorting, packing)
- f. Deterioration and/or Damage by insect/disease/animal after harvesting
- g. Seasonal fluctuation of selling price (unstable selling price)
- h. I don't know what is my problem / I think there is no problem

3. Do you want to increase your farm income? If yes, what is your idea for increasing your income ?

(Choose 1 to 2 answers from the following)

- a. I am satisfied with the present income level.
- b. I want to expand / enlarge farming scale. Go to 3-13-23-3
- c. I want to introduce new crops / animals. Go to 3-23-3
- d. I want to change marketing method. Go to 3-4
- e. I want to add value to produce by processing.
- f. I want to increase my income, but I have no idea how to do that.

SURVEY FORM-B

3-1 How do you want to expand / enlarge your farming scale Choose only one answer from the following
 a. Purchase the land b. Lease the land c. Cooperate with other farmer(s) / cooperative
 d. Other (describe: _____)

3-2 What kind of crop / animal do you want to introduce (Choose 1 to 3 answers from the following)
 a. Rice b. Corn c. Ground nut d. Potato e. Vegetable
 f. Fruit g. Cattle (meat) h. Cattle (milk) i. Buffalo j. Sheep, goat
 k. Pig l. Chicken m. Fish n. Flower, ornamental plant
 o. Estate crop
 p. Other (describe : _____)

3-3 What would be your problem or your concern, if you expand the farm scale or introduce the new crop / animal ? (Choose only one answer from the following)
 a. Capital b. Skill / technique for production c. Marketing of production
 d. Other (describe : _____)

3-4 How do you want to change your marketing of your produce ?(Choose 1 to 2 answers from the following)
 a. Sell to consumers directly at market b. Sell to intermediates at farm
 c. Sell to whole seller / retailer directly at market d. Sell to the processors directly
 e. Cooperative or cooperate with other farmers
 f. Other (describe: _____)

4. In case of improving conditions of your farm field, what do you do to improve ?
 (Choose 1 to 2 answers from the following)

a. Improve or construct access road b. Construct irrigation canal
 c. Rehabilitate irrigation canal d. Improve drainage
 e. Install irrigation pump f. Enlarge / expand field
 g. Other (describe : _____)

5. In case of using agricultural machine / equipment, what practices do you want to use machine / equipment for
 (Choose 1 to 2 answers from the following)

a. Tilling b. Transplanting c. Harvesting d. Threshing
 e. Drying f. Transporting g. Feeding animal h. Milking
 i. Other (describe: _____)

SURVEY FORM-B

6-1 Do you know about the Official Credit Service ? (Choose one answer)

- a. No, I don't know.
- b. Yes, I know. Go to 6-2

6-2 Have you ever gotten the loan from the Official Credit Service ? (Choose one answer)

- a. No Go to 6-3 : ask question " Why you don't use the Official Credit Service"
- b. Yes Go to 6-3

6-3 What is your request for the official credit service? (Choose 1 to 2 answers from the following)

- a. Raise limitation of debt amount
- b. Lower interest
- c. Extend term
- d. Simplify application procedure
- e. Place bank/institute more closer to village
- f. No opinion
- g. No request, being satisfied with the present service

7. What do you request to the agricultural extension services? (Choose 1 to 2 answers from the following)

- a. No request
- b. Intensify the door to door technical service (visit more frequently)
- c. Improve the skill / knowledge of extension worker
- d. Supply of information related to cropping (new variety, market trend)
- e. Teach about the know-how of farm management / operation
- f. Supply of market price information
- g. Teach about the official credit service
- h. Increase the variety of demonstration plots (i.e.: mechanization, vegetable growing, estate crops, etc.)
- i. Other (describe: _____)

APPENDIX-M: RURAL SOCIETY AND FARM HOUSEHOLD ECONOMY

ATTACHMENT M.2.3 : Questionnaire Form C

SURVEY FORM-C

General Data on Socio-Economic Situation of Commune

The government of Socialist Republic of Viet Nam decided to conduct a survey to initiate program for improving of farmers' living condition with the assistance of Japanese government.

This survey aims to collect basic data necessary for establishing a master plan for the development program.

We would appreciate it very much if you understand the purpose of this survey and if you cooperate with us at this time.

Commune :

No. :

Name of Surveyor :

Date of Survey :

Place of Survey :

SURVEY FORM-C

Commune Data

1. Access to major point

Name of city	Road condition	Common methods of transportation	Distance (km)	Time required
Provincial Capital (Vinh)	Paved / Unpaved	Walk/Bicycle/Motorbike/Vehicle/ Public Trans.()/other		
District Capital (Nam Dan)	Paved / Unpaved	Walk/Bicycle/Motorbike/Vehicle/ Public Trans.()/other		
Center of Commune	Paved / Unpaved	Walk/Bicycle/Motorbike/Vehicle/ Public Trans.()/other		
	Paved / Unpaved	Walk/Bicycle/Motorbike/Vehicle/ Public Trans.()/other		

2. Population, Number of Households, Structure of Family

Total Commune Population (person)		
Population by Sex	Men	Women
Population by Employment	Agriculture Public Service Officer / Teacher Trading / Service Industry	
Total number of households		
Number of farm households		
Number of non-farm households		
Average number of standard family member		

3. Existence / Condition of Agricultural Facilities

Facility	The object crop / animal	Existence	Ownership / Management	Capacity / Size
Irrigation		Exist / Not exist	Community / Cooperatives / Personal / company / other	
Threshing		Exist / Not exist	Community / Cooperatives / Personal / company / other	
Drying		Exist / Not exist	Community / Cooperatives / Personal / company / other	
Storing		Exist / Not exist	Community / Cooperatives / Personal / company / other	
Rice milling		Exist / Not exist	Community / Cooperatives / Personal / company / other	
Processing		Exist / Not exist	Community / Cooperatives / Personal / company / other	
Collection / Shipping		Exist / Not exist	Community / Cooperatives / Personal / company / other	

SURVEY FORM-C

Facility	The object crop / animal	Existence	Ownership / Management	Capacity / Size
Warehouse		Exist / Not exist	Community / Cooperatives / Personal / company / other	
Other)		Exist / Not exist	Community / Cooperatives / Personal / company / other	

4. Land Area by use / Classification

use / classification	Area (ha)
Total Commune Area	
Lowland (paddy) field	
Upland field	
Mountain Area	
Orchard/other perennial crop land	
Lake/pond	
Special use	
Unused land	
Other ()	
()	
()	

5. Planted Area / Production / Yield of Main Crops

Crop	Planted Area		Production		Yield	
	<i>Spring crop</i>	<i>Autumn crop</i>	<i>Spring crop</i>	<i>Autumn crop</i>	<i>Spring crop</i>	<i>Autumn crop</i>
Rice						
Corn						
Ground Nut						
Potato						
Green bean						
Vegetable						
Fruit						
Other ()						
()						
()						
()						

SURVEY FORM-C**6. Typical Cropping Pattern**

Month	1	2	3	4	5	6	7	8	9	10	11	12
Name of crop												

7. Sales Channels of Main Agricultural Products

Products	Channel
(Example)	Farmer → Middle man in village → Wholesaler in the market

8. Farmers' organization and cooperative union

Name of Organization / Cooperative Union	No. of Member	Membership fee (VND/person/mo.)	Objective / activity
Farmer's Union			
Women's Union			
Youth Union			
Agricultural Cooperative			
Other ()			
()			

SURVEY FORM-C**9. Employment and standard wage excluding agriculture**

Employment	Standard Wage (VND/peer./mo.)
Public Service Officer	
Teacher	
Carpenter, Driver	
Middle man in the community	
Labor	

10. Number of Domestic Animal / Livestock

Animal / Livestock	Number
Cattle (for milk)	
Cattle (for meat)	
Buffalo	
Goat, Sheep	
Domestic chicken, duck	
Broiler	

11. Facility / Institute in Commune

Facility / Institute	Exist or Not exist	Ownership (Gov. or Private)
for Education	Exist / Not exist	Gov. / Private
Corporation	Exist / Not exist	Gov. / Private
Bank	Exist / Not exist	Gov. / Private
Credit	Exist / Not exist	Gov. / Private
Other ()	Exist / Not exist	Gov. / Private

12. Is your commune involved in the Credit Plan ?

If yes, (1) explain the reason of the involvement and (2) specify the object of the plan.

(1)	
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SURVEY FORM-C

(2)

APPENDIX-M : RURAL SOCIETY AND FARM HOUSEHOLD ECONOMY

ATTACHMENT M.2.4 : Communal Data

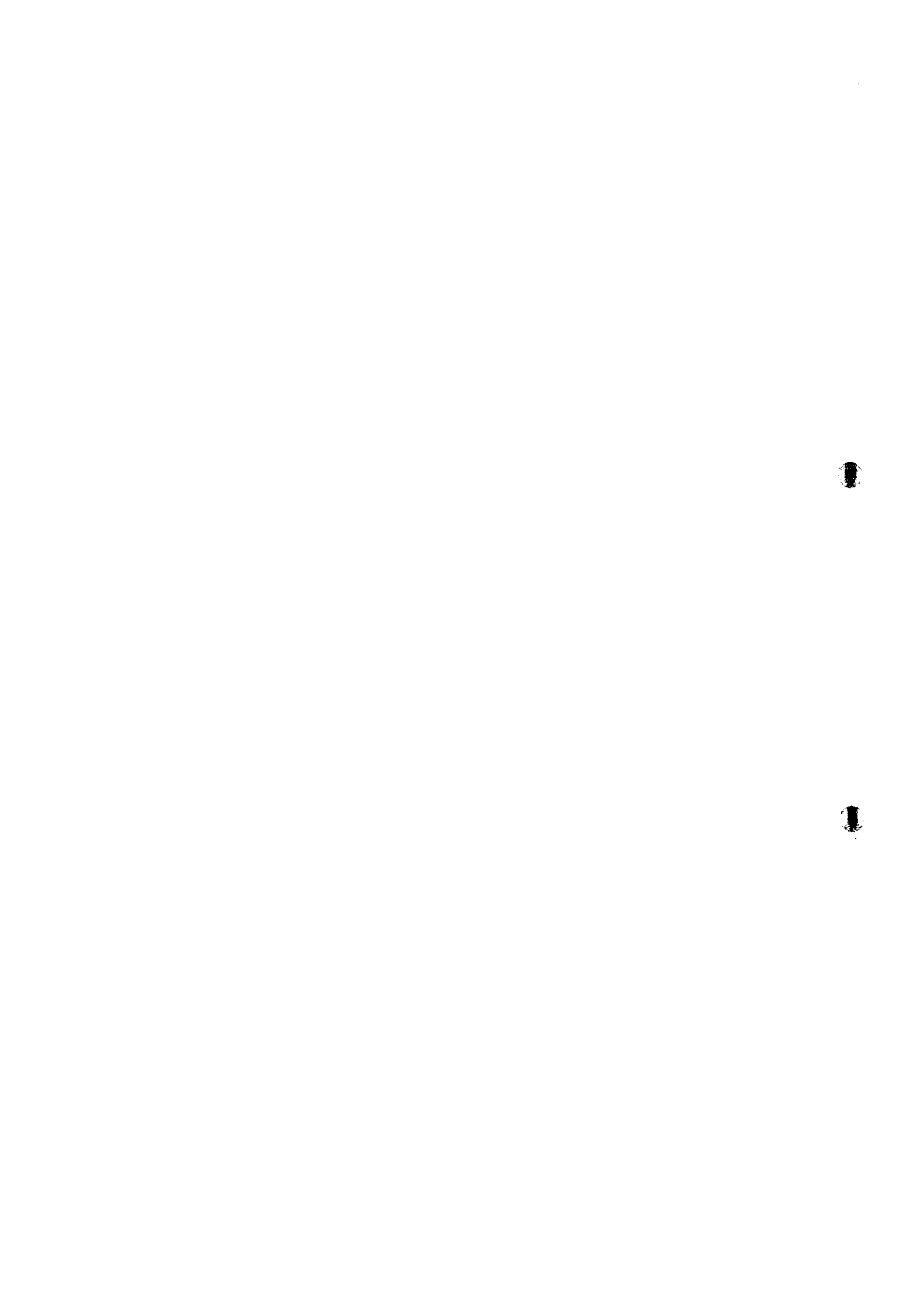


Table M.2.4 Communal Data (1/9)

(NOTES)

Pop. : Population
 ACC. : Access
 Dist. : Distance
 Av. Annual Inc./Farmer : Average Annual Income per Farmer
 Cult. Area/Farmer(m²) : Cultivated Area per Farmer (m²)
 Ds./Cm Rd.(km) : District Commune Road (km)

H. Ctr. : Health Center
 Irr. C. : Irrigation Canal
 P. St. : Pumping Station
 K.G. : Kinder Garden
 Selected Village for the Survey

COMMUNE		Nam Hung											
COM.No.		CMN01											
No. of Vil.		10											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm Rd.(km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Thang Thinh	301	2.78	9.8	1,520,000	828.0	2.0				65	1	
V-02	Ba Hai	360	2.53	10.0	950,000	833.0	2.0	1	0.7	1	65	1	H.Centr. needs
V-03	Hong Lam	361	2.70	11.0	930,000	1,011.0	2.5		1.5		55		
V-04	Hong Linh	400	2.31	12.0	800,000	1,187.0	4.0		1.0	1	68		P.St with small power.
V-05	Bac Son I	360	2.35	13.0	820,000	833.0	2.0		1.0		60	1	
V-06	Bac Son II	430	3.62	14.0	860,000	779.0	3.0		1.5		65		
V-07	Dinh Long I	385	3.16	14.0	1,150,000	974.0	3.0		0.8		76	1	10 wells are not used for
V-08	Dinh Long II	260	1.30	16.0	1,000,000	680.0	2.0				45		cooking and drinking.
V-09	Iam Son	400	3.90	14.0	900,000	887.0	2.0				65	1	
V-10	Viet Phung	285	2.79	13.0	850,000	797.0	1.8				52		
TOTAL		3,757	31.64	126.0	9,560,000	8,839.0	27.0	1	6.5	2	634	5	
AVERAGE		376	3.16	12.6	956,000	883.9	2.7		0.7		63		

COMMUNE		Nam Nghia											
COM.No.		CMN02											
No. of Vil.		11											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm Rd.(km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Xom 1	413	3.34	10.0	1,480,000	670.0					58	1	Condition of K.G. is
V-02	Xom 2	396	3.69	10.0	1,800,000	600.0					80		
V-03	Xom 3	389	3.07	9.0	1,680,000	600.0			0.9		86	1	
V-04	Xom 4	477	3.95	8.0	2,040,000	600.0			1.2		169	1	
V-05	Xom 5	326	2.88	8.0	1,680,000	600.0			0.5		67		
V-06	Xom 6	468	2.72	8.0	2,000,000	600.0		1	0.3	1	114	1	No water to pump
V-07	Xom 7	356	3.55	9.0	1,800,000	600.0			0.5		75		
V-08	Xom 8	334	3.08	9.0	1,800,000	600.0			0.3		77	1	Condition of K.G. is
V-09	Xom 9	316	2.94	9.0	2,040,000	600.0			1.1		69	1	
V-10	Xom 10	371	3.41	9.0	2,040,000	600.0					80		
V-11	Xom Nghia I	216	1.50	7.0	1,180,000	780.0			1.4		56		
TOTAL		4,086	35.74	96.0	20,760,000	6,250.0	0.0	1	8.8	1	911	6	
AVERAGE		371	3.25	8.7	1,887,273	568.2	0.0		0.8		83		

COMMUNE		Nam Thai											
COM.No.		CMN03											
No. of Vil. :		7											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm Rd.(km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-1	Xom 1	412	1.24	8.0	1,304,410	847.0				6.0	1	80	
V-2	Xom 2	331	1.89	8.0	1,480,000	780.0				1.0		65	
V-3	Xom 3	416	1.90	7.0	1,680,000	804.0			0.0		92	1	
V-4	Xom 4	411	2.13	8.0	1,267,114	852.0				0.0		52	1
V-5	Xom 5	466	0.95	8.5	1,358,407	858.0				0.0		90	1
V-6	Xom 6	467	1.49	9.0	1,268,783	1,002.0				0.0		93	1
V-7	Xom 7	444	2.75	10.0	1,299,934	792.0				0.0		86	1
TOTAL		2,976	11.71	56.0	9,319,172	6,117.0	0.0	1	7.0		600	6	
AVERAGE		425	1.67	8.0	1,331,310	873.9			1.0		86		

Table M.2.4 Communal Data (1/9)

[NOTES]

Pop. : Population
 ACC. : Access
 Dist. : Distance
 Av. Annual Inc. Farmer : Average Annual Income per Farmer
 Cult. Area Farmer(m2) : Cultivated Area per Farmer (m2)
 Ds. Cm Rd(km) : District Commune Road (km)

H. Ctr. : Health Center
 Irr. C. : Irrigation Canal
 P. St. : Pumping Station
 K. G. : Kinder Garden
 Selected Village for the Survey

COMMUNE		SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE						REMARK
COM. No.	Nam Hung CMN01	Pop.	Area (km2)	Dist. (km)	Av. Annual Inc. Farmer	Cult. Area Farmer(m2)	Ds. Cm Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)	K. G. (Qty)	
No. of Vil.													
V-01	Hung Thanh	301	2.95	9.0	1,200,000	900.0	3.0				80	1	
V-02	Ba Hu	360	2.53	10.0	950,000	833.0	2.0	1	0.7	1	65	1	
V-03	Hong Lam	361	2.70	11.0	930,000	1,011.0	2.5		1.5		55		
V-04	Hong Tinh	400	2.31	12.0	800,000	1,187.0	4.0		1.0	1	68		
V-05	Bac Son I	360	3.35	13.0	870,000	833.0	2.0		1.0		60	1	
V-06	Bac Son II	430	3.62	14.0	860,000	779.0	3.0		1.5		65		
V-07	Dinh Long I	385	3.16	14.0	1,150,000	974.0	3.0		0.8		76	1	
V-08	Dinh Long II	250	3.19	15.0	1,050,000	600.0	3.0				35		
V-09	Lam Son	400	3.90	14.0	900,000	887.0	2.0				65	1	
V-10	Hoi Phoa	280	3.75	13.0	850,000	767.0	1.5				55		
TOTAL		3,757	31.64	12.6	9,560,000	8,839.0	27.0	1	6.5	2	634	5	
AVERAGE		376	3.16	12.6	956,000	883.9	2.7		0.7		63		

COMMUNE		SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE						REMARK
COM. No.	Nam Nghi CMN02	Pop.	Area (km2)	Dist. (km)	Av. Annual Inc. Farmer	Cult. Area Farmer(m2)	Ds. Cm Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)	K. G. (Qty)	
No. of Vil.													
V-01	Nom 1	419	3.44	10.0	1,800,000	600.0				1.7	98	1	
V-02	Nom 2	396	3.69	10.0	1,800,000	600.0					80		
V-03	Nom 3	389	3.07	9.0	1,680,000	600.0			0.9		86	1	
V-04	Nom 4	477	3.95	8.0	2,040,000	600.0			1.2		102	1	
V-05	Nom 5	326	2.88	8.0	1,680,000	600.0			0.5		67		
V-06	Nom 6	466	4.11	8.0	2,040,000	600.0		1	0.9	1	110	1	
V-07	Nom 7	356	3.55	9.0	1,800,000	600.0			0.5		75		
V-08	Nom 8	341	3.56	9.0	1,680,000	600.0			0.9		77	1	
V-09	Nom 9	316	2.94	9.0	2,040,000	600.0			1.1		60	1	
V-10	Nom 10	371	3.41	9.0	2,040,000	600.0					80		
V-11	Nom 11	216	3.50	7.0	2,160,000	250.0			1.8		56		
TOTAL		4,085	35.74	9.6	20,760,000	6,250.0	0.0	1	8.8	1	914	6	
AVERAGE		371	3.25	8.7	1,887,273	568.2	0.0		0.8		83		

COMMUNE		SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE						REMARK
COM. No.	Nam Hiep CMN03	Pop.	Area (km2)	Dist. (km)	Av. Annual Inc. Farmer	Cult. Area Farmer(m2)	Ds. Cm Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)	K. G. (Qty)	
No. of Vil.													
V-1	Nom 1	412	1.24	8.0	1,304,410	817.0				6.0	1	80	
V-2	Nom 2	353	0.80	7.3	1,434,748	938.0				1.0		63	
V-3	Nom 3	410	2.90	7.0	1,304,658	804.0			0.0		92	1	
V-4	Nom 4	422	2.18	6.0	1,358,334	859.0				0.0		92	
V-5	Nom 5	466	0.95	8.5	1,358,497	858.0				0.0		90	
V-6	Nom 6	467	1.49	9.0	1,268,783	1,002.0				0.0		94	
V-7	Nom 7	343	2.35	10.0	1,279,933	797.0				0.0		88	
TOTAL		2,976	11.71	8.0	9,319,172	6,117.0	0.0	1	7.0		600	6	
AVERAGE		425	1.67	8.0	1,331,310	873.9			1.0		86		

Table M.2.4 Communal Data (2/9)

COMMUNE		Nam Thanh											
COM. No.		CMN04											
No. of Vil.		17											
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	1A	411	1.36	6.3	2,100,000	860.0					96	1	
V-02	1A	494	1.46	7.0	2,000,000	862.0					133	1	
V-03	6A	422	1.70	5.0	2,031,000	890.0						92	1
V-04	3A	642	1.63	2.6	1,965,000	998.0				1.5		107	
V-05	2A	704	1.73	2.3	1,255,000	1,008.0				1.4		174	1
V-06	5B	426	0.98	5.5	1,950,000	1,003.0				0.6		85	
V-07	5B	379	1.05	6.0	1,946,000	860.0						75	1
V-08	1A	625	1.97	2.5	1,902,000	1,009.0				1.0	1	111	1
V-09	4A	486	1.49	2.6	1,900,000	978.0				1.2	1	78	1
V-10	5A	474	1.46	2.9	1,846,000	795.0				0.3	1	84	not well.
V-11	6A	504	1.70	2.9	1,850,000	960.0				1.2		107	1
V-12	1B	367	0.67	5.0	1,850,000	1,070.0				0.3		88	
V-13	2B	744	0.70	5.0	1,849,000	1,001.0				0.2	1	100	1
V-14	4B	368	0.90	4.5	1,759,000	777.0						74	1
V-15	7B	364	1.40	6.3	1,750,000	918.0						73	not well.
V-16	9B	330	2.76	6.8	1,742,000	901.0						39	1
V-17	10B	323	2.61	7.0	1,740,000	870.0						42	
TOTAL		8,639	25.90	76.5	30,164,000	16,080.0	0.0	1	9.5	4	1,506	11	
AVERAGE		508	1.52	4.5	1,774,353	945.9	0.0		0.6		89		

COMMUNE		Nam Anh											
COM. No.		CMN05											
No. of Vil.		9											
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Xom 1	621	37.70	7.5	900,000	800.0	3.5			1.8		170	1
V-02	Xom 2	756	65.70	5.0	900,000	800.0	3.8			5.0	1	170	1
V-03	Xom 3	361	34.30	5.5	900,000	760.0	3.5			4.4		115	1
V-04	Xom 4	659	51.90	5.0	1,000,000	800.0	3.0	1		2.0	1	144	1
V-05	Xom 5	447	71.30	5.0	900,000	800.0	2.5			1.8		175	1
V-06	Xom 6	808	68.70	9.5	800,000	800.0	4.0			2.0		167	1
V-07	Xom 7	852	69.40	10.0	650,000	595.0	4.5	1		2.0	1	170	1
V-08	Xom 8	884	82.20	10.5	850,000	730.0	4.0			2.0		185	1
V-09	Xom 9	439	34.40	7.0	800,000	800.0	3.5			2.8	1	155	1
TOTAL		6,807	591.80	66.5	6,920,000	6,675.0	33.8	2	26.0	4	1,412	9	
AVERAGE		755	65.76	7.4	768,889	741.7	3.8		2.9		157		

COMMUNE		Nam Xuan											
No.		CMN06											
No. of Vil.		12											
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Xom 4	500	1.31	4.0	900,000	800.0	2.5			1.3		73	Combination of K.D.B.
V-02	Xom 5	433	0.95	8.5	950,000	600.0	1.3			0.1		92	
V-03	Xom 1	660	0.68	4.0	900,000	600.0	5.0			0.6	2	101	1 P. St. is not working.
V-04	Xom 2	635	0.68	4.5	900,000	600.0	2.1	1		0.6		100	1
V-05	Xom 7	540	0.56	4.7	900,000	600.0	2.0			1.2		106	1
V-06	Xom 6	569	1.29	8.0	900,000	600.0	2.5	1		0.4		101	
V-07	Xom 9	340	0.92	7.5	900,000	600.0	3.5			0.1		70	1
V-08	Xom 8	477	1.04	8.0	850,000	600.0	4.0			0.6	2	91	
V-09	Xom 7	535	1.54	8.0	850,000	600.0	3.0			0.3		101	1
V-10	Xom 11	478	1.02	8.0	800,000	600.0	1.5			0.1		81	no water in dry season.
V-11	Xom 12	351	0.82	8.5	800,000	600.0	1.0			0.1		61	1
V-12	Xom 10	440	1.13	4.5	900,000	600.0	2.4			0.3		111	
TOTAL		6,035	11.71	87.2	10,450,000	7,200.0	32.8	2	5.2	7	1,098	7	
AVERAGE		503	0.98	7.3	870,833	600.0	2.7		0.4		92		

Table M.2.4 Communal Data (2/9)

COMMUNE		Nam Hinh		ACC.		FARMING LEVEL		INFRASTRUCTURE					REMARK	
COM. No.	CMS04	No. of Vd.	VILLAGE	SIZE		Av. Annual Inc. Farmer	Cult. Area Farmer(m2)	Ds. Cm Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
				Pop.	Area (km2)									
V-01	0B			811	1.30	6.3	2,100,000	905.0				89	1	
V-02	1A			674	1.66	3.0	2,040,000	962.0		1	1.2	133	1	
V-03	6A			422	1.70	5.0	2,031,000	890.0				92	1	
V-04	3A			613	1.63	2.6	1,965,000	998.0			1.5	107		
V-05	2A			289	1.73	2.3	1,955,000	1,028.0			1.5	121	1	
V-06	8B			426	0.98	5.5	1,950,000	1,003.0			0.6	85		
V-07	5B			379	1.05	6.0	1,946,000	860.0				75	1	
V-08	1A			625	1.97	2.5	1,902,000	1,009.0			1.0	111	1	K.D in 1A is bad
V-09	4A			486	1.49	2.6	1,900,000	978.0			1.2	78	1	P.St in 1A is working
V-10	4A			474	1.68	2.8	1,855,000	970.0			0.8	56		no well
V-11	6A			504	1.70	2.9	1,850,000	960.0			1.2	107	1	
V-12	1B			367	0.67	5.0	1,850,000	1,070.0			0.3	88		
V-13	2B			744	0.70	5.0	1,849,000	1,001.0			0.2	100	1	P.St in 2B is working
V-14	4B			368	0.90	4.5	1,759,000	777.0				74	1	not well
V-15	7B			361	1.43	6.3	1,750,000	918.0				73		
V-16	9B			330	2.76	6.8	1,742,000	901.0				39	1	
V-17	10B			323	2.61	7.0	1,740,000	870.0				42		
TOTAL				8,639	25.90	76.5	30,161,000	16,050.0	0.0	1	9.5	1,506	11	
AVERAGE				508	1.52	4.5	1,774,353	945.9	0.0		0.6	89		

COMMUNE		Nam Anh		ACC.		FARMING LEVEL		INFRASTRUCTURE					REMARK	
COM. No.	CMS05	No. of Vd.	VILLAGE	SIZE		Av. Annual Inc. Farmer	Cult. Area Farmer(m2)	Ds. Cm Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
				Pop.	Area (km2)									
V-01	Nam 1			613	11.30	5.0	600,000	800.0	3.5		5.0	132	1	
V-02	Nam 2			756	65.70	5.0	900,000	800.0	3.8		5.0	170	1	
V-03	Nam 3			541	49.40	3.5	600,000	760.0	3.0		4.0	116	1	
V-04	Nam 4			659	51.90	5.0	1,000,000	800.0	3.0	1	2.0	144	1	
V-05	Nam 5			853	71.50	7.0	700,000	800.0	4.5		3.0	173	1	
V-06	Nam 6			808	68.70	9.5	800,000	800.0	4.0		2.0	167	1	
V-07	Nam 7			852	69.40	10.0	650,000	595.0	4.5	1	2.0	170	1	
V-08	Nam 8			881	82.20	10.5	850,000	730.0	4.0		2.0	185	1	
V-09	Nam 9			359	71.40	7.0	600,000	550.0	3.5		3.0	155	1	
TOTAL				6,807	591.80	66.5	6,920,000	6,675.0	33.8	2	26.0	4,112	9	
AVERAGE				756	65.76	7.4	768,889	741.7	3.8		2.9	457		

COMMUNE		Nam Xuan		ACC.		FARMING LEVEL		INFRASTRUCTURE					REMARK	
COM. No.	CMS06	No. of Vd.	VILLAGE	SIZE		Av. Annual Inc. Farmer	Cult. Area Farmer(m2)	Ds. Cm Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
				Pop.	Area (km2)									
V-01	Nam 4			569	1.33	9.0	650,000	600.0	3.3		1.0	123	1	Condition of K.D. is
V-02	Nam 5			433	0.95	8.5	950,000	600.0	1.3		0.1	92		
V-03	Nam 1			600	0.68	4.0	900,000	600.0	5.0		0.6	101		P. St. is not working
V-04	Nam 2			635	0.68	4.5	900,000	600.0	2.1	1	0.6	100	1	
V-05	Nam 3			540	0.86	4.7	900,000	600.0	2.3		1.2	106	1	
V-06	Nam 6			569	1.29	8.0	900,000	600.0	2.5	1	0.1	101		
V-07	Nam 9			310	0.92	7.5	900,000	600.0	3.5		0.1	70	1	
V-08	Nam 8			177	1.04	8.0	850,000	600.0	4.0		0.6	91		
V-09	Nam 7			553	1.24	8.0	850,000	600.0	3.8		0.3	121	1	100 wells in which there
V-10	Nam 11			478	1.02	8.0	800,000	600.0	1.5		0.1	81		no water in dry season
V-11	Nam 12			351	0.82	8.5	800,000	600.0	1.0		0.1	61	1	
V-12	Nam 10			433	1.13	8.5	750,000	600.0	2.0			51	1	
TOTAL				6,035	11.71	87.2	10,450,000	7,200.0	32.8	2	5.2	7,109	7	
AVERAGE				503	0.98	7.3	870,833	600.0	2.7		0.4	92		

Table M.2.4 Communal Data (3/9)

COMMUNE		Van Dien											
COM No.		CMN07											
No. of Vil.		18											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-02	Ho Son	802	49.33	4.5	1,700,000	429.0	0.0		0.0		135		
V-03	Nam Thung	708	44.76	3.0	1,700,000	429.0	0.0		0.0		126		
V-04	Truong Long	569	43.19	4.0	1,300,000	429.0	0.0		0.0		100		
V-06	Hung Linh	621	33.04	4.0	1,400,000	429.0	1.0		1.0		95		
V-07	Ha Long	858	40.27	1.5	1,800,000	429.0	2.5		2.5	1	156		
V-08	Su Pham	109	1.54	5.0	2,000,000	429.0	0.5		0.5		23		
V-09	Nhat Quang	774	37.30	2.5	1,500,000	429.0	0.0		0.0		95		
V-10	Van An	840	41.98	0.5	2,000,000	429.0	1.0		1.0	1	145		
V-11	Bac Son	511	24.31	1.0	2,000,000	429.0	1.0		1.0		101		
V-12	Nam Binh	662	34.07	1.2	1,800,000	429.0	1.0		1.0		111		
V-13	Trung Dong	484	35.99	1.5	1,800,000	429.0	0.5		0.5		84		
V-14	Dong Tien	238		2.5	1,500,000	429.0	2.0		2.0		38		
V-15	Quy Chinh 1	602	58.63	2.0	2,200,000	429.0	1.0		1.0		93		
V-16	Quy Chinh 2	626		2.0	2,200,000	429.0	1.0		1.0		98		
TOTAL		10,990	578.46	47.9	31,600,000	7,722.0	18.5	1	18.5	5	1,844	0	
AVERAGE		611	32.14	2.7	1,755,556	429.0	1.0		1.0		102		

COMMUNE		Nam Dan											
COM No.		CMN08											
No. of Vil.		10											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (ha)	Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-02	Mai Hac De	524	8.00		943,000						102	1	Iron removal water
V-03	La Nam	731	13.00		1,315,000						50		
V-04	Yen Khanh	679	20.84		1,222,000	309.0		1			68		H.Ctr. needs
V-07	Ba Ha	673	25.40		1,211,000						40		Iron removal water
V-08	Tay Ho	397	16.00		714,000	413.5			2.5		79		Iron removal water
V-09	Dan Nhim	329	18.00		592,000	413.5			2.3		80	1	Iron removal water
TOTAL		5,910	166.24	0.0	10,634,000	1,927.5	0.0	1	7.0	1	723	2	
AVERAGE		591	16.62	0.0	1,063,400	192.8	0.0		0.7		72		

COMMUNE		Xuan Hoa											
COM No.		CMN09											
No. of Vil.		12											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Xom 1	534	15.77	4.3	1,916,647	437.0	2.3		2.6		93		
V-02	Xom 2	718	26.18	2.3	1,922,000	413.0	2.2		2.4		133	1	
V-03	Xom 8	450	39.96	5.0	1,778,347	743.0	1.6		2.6	3	86		
V-04	Xom 9	460	61.35	4.6	1,912,213	740.0	2.0		3.2		102	1	
V-05	Xom 10	453	37.29	4.8	1,929,647	746.0	1.3		4.3		143	1	
V-06	Xom 4	493	40.60	4.0	1,101,822	644.0	1.6		3.5		93		
V-07	Xom 5	418	37.33	4.2	1,222,213	525.0	1.9		3.5		83	1	
V-08	Xom 7	565	58.54	4.8	1,006,333	846.0	1.8		3.2		110	1	
V-09	Xom 11	537	48.41	5.0	1,320,800	769.0	1.7		3.4		114	1	
V-10	Xom 2	643	54.12	4.3	1,325,323	662.0	2.0		4.4		130	1	
V-11	Xom 1	387	36.39	4.0	1,524,707	741.0	2.0		3.4		72		
V-12	Xom 12	133		4.0	1,931,111		0.5		0.3		36		
TOTAL		5,989	546.18	53.5	16,649,586	8,113.0	22.7	1	38.3	3	1,215	7	
AVERAGE		499	45.52	4.5	1,387,466	676.1	1.9		3.2		101		

Table M.2.4 Communal Data (3/9)

COMMUNE		Van Dien		COM No.		CMN07		No. of Vil.		18								
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK						
		Pop.	Area (km ²)		Av. Annual Inc. Farmer	Cult Area Farmer(m ²)	Ds. Cm. Rd (km)	H. Ctr. (Qty)	In. C. (km)	P. St. (Qty)	Well (Qty)		K. G. (Qty)					
V-01	Va Nong	559	41.31	5.6	1,500,000	429.0	2.0		2.0		103							
V-02	Ha Son	802	49.53	4.5	1,700,000	429.0	0.0		0.0		135							
V-03	Bac Thung	886	55.81	4.9	1,700,000	429.0	2.0	1	2.0	1	151							
V-04	Nam Hung	708	44.76	3.0	1,700,000	429.0	0.0		0.0		126							
V-05	Truong Long	569	43.19	4.0	1,300,000	429.0	0.0		0.0		100							
V-06	Hung Tinh	621	33.04	4.0	1,400,000	429.0	1.0		1.0		95							
V-07	Ha Long	858	40.27	1.5	1,800,000	429.0	2.5		2.5	1	156							
V-08	Su Pham	109	1.54	5.0	2,000,000	429.0	0.5		0.5		23							
V-09	Nhat Dong	565	30.95	3.0	1,500,000	429.0	2.0		2.0	1	87							
V-10	Nhat Quang	774	37.30	2.5	1,500,000	429.0	0.0		0.0		95							
V-11	Van An	840	41.98	0.5	2,000,000	429.0	1.0		1.0	1	145							
V-12	Nam Dan	611	5.88	0.7	2,000,000	429.0	1.0		1.0	1	103							
V-13	Ba Son	511	24.31	1.0	2,000,000	429.0	1.0		1.0		101							
V-14	Nam Dinh	662	34.07	1.2	1,800,000	429.0	1.0		1.0		111							
V-15	Trung Dong	481	35.99	1.5	1,800,000	429.0	0.5		0.5		81							
V-16	Dong Dien	238		2.5	1,500,000	429.0	2.0		2.0		38							
V-17	Quy Chinh 1	602	58.63	2.0	2,200,000	429.0	1.0		1.0		93							
V-18	Quy Chinh 2	626		2.0	2,200,000	429.0	1.0		1.0		98							
TOTAL		10,990	578.46	47.9	31,600,000	7,222.0	18.5	1	18.5	5	1,841	0						
AVERAGE		611	32.14	2.7	1,755,556	429.0	1.0		1.0		102							

COMMUNE		Nam Dan		COM No.		CMN08		No. of Vil.		10								
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK						
		Pop.	Area (ha)		Av. Annual Inc. Farmer	Cult Area Farmer(m ²)	Ds. Cm. Rd (km)	H. Ctr. (Qty)	In. C. (km)	P. St. (Qty)	Well (Qty)		K. G. (Qty)					
V-01	Lam Son	710	12.00		1,292,000						84		From removal water					
V-02	Mai Duc De	524	8.00		943,000						102	1	From removal water					
V-03	La Nam	731	13.00		1,315,000						50							
V-04	Xuan Kha	714	25.00		1,285,000	378.0					83							
V-05	Yen Khanh	679	20.84		1,222,000	309.0			1		68		H. Ctr. needs					
V-06	Phan Bac Chau	744	15.00		1,337,000					1	53		P. St. is working and well					
V-07	Ha Ha	673	25.49		1,211,000						40		From removal water					
V-08	Tay Ho	397	16.00		714,000	413.5			2.5		79		From removal water					
V-09	Dan Nham	329	18.00		592,000	413.5			2.3		80	1	From removal water					
V-10	Quang Trung	452	17.00		723,000	413.5			2.2		82		needs rehabilitation					
TOTAL		5,910	166.24	0.0	10,634,000	1,927.5	0.0	1	7.0	1	723	2						
AVERAGE		591	16.62	0.0	1,063,400	192.8	0.0		0.7		72							

COMMUNE		Xuan Hoa		COM No.		CMN09		No. of Vil.		12								
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK						
		Pop.	Area (km ²)		Av. Annual Inc. Farmer	Cult Area Farmer(m ²)	Ds. Cm. Rd (km)	H. Ctr. (Qty)	In. C. (km)	P. St. (Qty)	Well (Qty)		K. G. (Qty)					
V-01	Nom 6	430	42.72	4.0	1,791,423	657.0	2.3		2.6		93							
V-02	Nom 5	718	66.18	4.3	1,772,653	812.0	2.2	1	3.4		153	1						
V-03	Nom 8	450	39.95	5.0	1,778,347	743.0	1.6		2.6	3	86							
V-04	Nom 9	460	61.35	4.6	1,912,213	740.0	2.0		3.2		102	1						
V-05	Nom 10	653	47.39	4.0	1,605,440	704.0	3.1		4.3		143	1						
V-06	Nom 4	493	40.60	4.0	1,101,822	644.0	1.6		3.5		93							
V-07	Nom 1	416	30.11	4.5	1,363,413	555.0	1.4		3.5		83	1						
V-08	Nom 7	565	58.54	4.8	1,006,333	845.0	1.8		3.2		110	1						
V-09	Nom 11	537	48.41	5.0	1,320,800	769.0	1.7		3.4		114	1						
V-10	Nom 2	643	54.12	4.3	1,325,323	662.0	2.0		4.4		130	1						
V-11	Nom 1	387	36.39	4.0	1,524,707	741.0	2.0		3.4		72							
V-12	Nom 12	133		4.0	1,931,111		0.5		0.3		36							
TOTAL		5,989	546.18	53.5	16,649,586	8,413.0	22.7	1	38.3	3	1,215	7						
AVERAGE		499	45.52	4.5	1,387,466	676.1	1.9		3.2		101							

Table M.2.4 Communal Data (4/9)

COMMUNE		Hung Tien											
COM. No.		CMN10											
No. of Vil :		19											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd. (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Dong Yen	114	0.10	3.5	765,000	736.0	3.0		1.0			114	
V-02	Dong Trung	379	0.33	3.5	765,000	736.0	3.0		1.0			78	1
V-03	Truong Cuc	467	0.45	4.0	765,000	736.0	4.0		0.7			120	1
V-04	Dinh Son	343	0.41	6.4	765,000	736.0	3.5		1.0			128	1
V-05	Phuc Chi	185	0.24	4.5	799,000	736.0	1.0		1.0			50	1
V-06	Xuan Lam	546	0.44	4.0	765,000	736.0	2.0		1.0			125	1
V-07	Thao Tien	417	0.57	7.9	826,000	830.0	1.0		1.0			95	1
V-08	Tang Tien	440	0.44	5.5	867,000	830.0	1.0		1.0			100	1
V-09	Lien Son	496	0.53	5.5	833,000	830.0	2.0		1.0			115	1
V-10	Truong Tien	358	0.42	6.0	850,000	830.0	1.0		1.0			90	1
V-11	Truong Son	343	0.39	6.0	816,000	830.0	2.5		1.0	1		90	1
V-12	Dong Son	666	0.65	7.0	714,000	830.0	1.0	1	1.0	1		136	1
V-13	Trung Chinh	319	0.36	7.5	680,000	830.0	1.0		1.0			78	1
V-14	Dang Duc	453	0.46	6.5	846,000	830.0	1.0		1.0			100	1
V-15	Quyet Tien	457	0.52	6.5	680,000	830.0	1.0		1.0			90	1
V-16	Dong Arh	428	0.48	7.0	680,000	830.0	1.0		1.0			89	1
V-17	Tan Tien	444	0.48	7.0	714,000	830.0	1.0		1.0			92	1
V-18	Nam Mon	385	0.43	8.0	680,000	830.0	1.0		1.0			69	1
V-19	Dong Lich	340	0.38	8.0	680,000	830.0	1.0		1.0			57	1
TOTAL		8,360	8.69	109.0	14,280,000	15,206.0	30.3	1	18.7	3	1,843	19	
AVERAGE		440	0.46	5.7	751,579	800.3	1.6		1.0			97	

COMMUNE		Nam Linh											
COM. No.		CMN11											
No. of Vil :		13											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd. (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Nom 1	390	0.63	6.3	1,100,000	850.0	1.0		1.5			116	1
V-02	Nom 2	471	0.62	7.0	800,000	800.0	1.0					110	1
V-03	Nom 3	648	0.75	7.5	800,000	800.0	0.5		0.5			122	1
V-04	Nom 4	382	0.33	7.3	800,000	700.0	0.5		1.0			41	1
V-05	Nom 5	386	0.52	7.0	800,000	700.0	0.3					89	1
V-06	Nom 6	293	0.37	8.0	800,000	600.0	0.5		1.0			62	
V-07	Nom 7	384	0.52	9.0	800,000	700.0	1.0	1	0.5	1		90	
V-08	Nom 8	679	0.87	9.0	800,000	800.0	1.0		0.4			100	1
V-09	Nom 9	735	0.88	12.0	1,100,000	979.0	1.0		2.0			50	
V-10	Nom 10	357	0.91	12.0	1,100,000	900.0	1.0					36	
V-11	Nom 11	376	0.75	11.0	800,000	800.0	0.8		1.0			25	
V-12	Nom 12	561	1.08	11.0	800,000	850.0	1.2					40	1
V-13	Nom 13	495	0.95	11.0	1,100,000	900.0	0.9		1.5			30	1
TOTAL		5,967	8.88	117.5	11,600,000	10,329.0	11.7	1	9.5	2	895	7	
AVERAGE		459	0.68	9.0	892,308	794.5	0.9		0.7			69	

Table M.2.4 Communal Data (4/9)

COMMUNE		Hàng Yên										
COM. No.		CMND										
No. of Vill		19										
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK
		Pop.	Area (km ²)		Av. Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds. Rd (km)	Cr. H. (Qty)	Cr. I. (km)	P. St. (Qty)	Well (Qty)	
V-01	Dông Yên	714	0.70	3.0	785,000	736.0	1.0		1.0	1	113	1
V-02	Dông Trung	379	0.33	3.5	765,000	736.0	3.0		1.0		78	1
V-03	Trương Cửu	467	0.45	4.0	765,000	736.0	4.0		0.7		120	1
V-04	Bách Sơn	521	0.40	4.5	751,000	736.0	2.0		1.0		124	1
V-05	Phúc Chi	185	0.24	4.5	799,000	736.0	1.0		1.0		50	1
V-06	Xuân Lâm	546	0.44	4.0	765,000	736.0	2.0		1.0		125	1
V-07	Thị Hòa	417	0.52	5.0	850,000	830.0	1.0		1.0		93	1
V-08	Làng Hòa	110	0.11	5.5	867,000	830.0	1.0		1.0		100	1
V-09	Liên Sơn	196	0.53	5.5	833,000	830.0	2.0		1.0		115	1
V-10	Trương Yên	358	0.42	6.0	850,000	830.0	1.0		1.0		90	1
V-11	Trương Sơn	313	0.39	6.0	816,000	830.0	2.5		1.0	1	90	1
V-12	Dông Sơn	666	0.65	7.0	714,000	830.0	1.0	1	1.0	1	136	1
V-13	Trưng Chích	319	0.36	7.5	680,000	830.0	1.0		1.0		78	1
V-14	Trưng Thọ	655	0.46	6.5	645,000	830.0	1.0		1.0		103	1
V-15	Quảng Yên	457	0.52	6.5	680,000	830.0	1.0		1.0		90	1
V-16	Dông Anh	428	0.48	7.0	680,000	830.0	1.0		1.0		89	1
V-17	Làng Hòa	414	0.48	7.0	714,000	830.0	1.0		1.0		92	1
V-18	Nam Môn	385	0.43	8.0	680,000	830.0	1.0		1.0		69	1
V-19	Dông Lịch	340	0.38	8.0	680,000	830.0	1.0		1.0		57	1
TOTAL		8,360	8.69	109.0	14,280,000	15,206.0	30.5	1	18.7	3	1,843	19
AVER. Vill		435	0.46	5.7	751,579	800.3	1.6		1.0		97	

COMMUNE		Nam Lịch										
COM. No.		CMND										
No. of Vill		13										
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK
		Pop.	Area (km ²)		Av. Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds. Rd (km)	Cr. H. (Qty)	Cr. I. (km)	P. St. (Qty)	Well (Qty)	
V-01	Nam 1	500	0.63	6.0	1,000,000	800.0	2.0		1.5	1	100	1
V-02	Nam 2	471	0.62	7.0	800,000	800.0	1.0				110	1
V-03	Nam 3	648	0.75	7.5	800,000	800.0	0.5		0.5		122	1
V-04	Nam 4	182	0.24	7.0	800,000	700.0	0.3		1.0		41	1
V-05	Nam 5	386	0.52	7.0	800,000	700.0	0.3				89	1
V-06	Nam 6	293	0.37	8.0	800,000	600.0	0.5		1.0		62	
V-07	Nam 7	383	0.52	9.0	800,000	700.0	1.0	1	0.5	1	90	
V-08	Nam 8	479	0.61	9.0	800,000	800.0	1.0		0.5		100	
V-09	Nam 9	735	0.88	12.0	1,100,000	979.0	1.0		2.0		50	
V-10	Nam 10	537	0.91	12.0	1,100,000	900.0	1.0				39	
V-11	Nam 11	376	0.75	11.0	800,000	800.0	0.8		1.0		25	
V-12	Nam 12	564	1.08	11.0	800,000	850.0	1.2				49	1
V-13	Nam 13	495	0.95	11.0	1,100,000	900.0	0.9		1.5		30	1
TOTAL		5,967	8.88	117.5	11,600,000	10,329.0	11.7	1	9.5	2	895	7
AVER. Vill		459	0.68	9.0	892,308	794.5	0.9		0.7		69	

Table M.2.4 Communal Data (5/9)

COMMUNE		Kam Lien											
COM. No.	CMN12												
No. of Vil. :	21												
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Ctr (Qty)	Irr. C. (km)	P. St. (Qty)		Well (Qty)
V-01	Sen-1	442	34.97	7.0	150	626.0	2.5		2.0		107	1	
V-02	Sen-2	469	44.73	8.0	160	796.0	3.0		3.0		115	1	
V-03	Sen-3	413	31.91	8.5	160	625.0	3.0		1.0		90		
V-04	Sen-4	501	45.33	9.0	150	766.0	3.0		1.0	1	106		
V-05	Hong-1	563	48.97	9.5	160	664.0	2.5		1.0	1	110		
V-06	Hong-2	453	35.42	10.0	160	658.0	2.5		2.0		67	1	
V-07	Son-1	553	43.27	10.5	150	650.0	2.9		2.0	1	94		
V-08	Son-2	607	45.90	11.0	150	595.0	3.3		1.0	1	119	1	
V-09	Mau-1	666	46.39	8.0	160	590.0	3.3		1.5		148	1	
V-10	Mau-2	516	45.50	8.5	150	620.0	2.5		2.5		97		
V-11	Mau-3	316	16.96	8.5	170	500.0	1.5		1.5		70	1	
V-12	Mau-4	488	29.29	8.5	150	510.0	3.7		1.5	1	74		
V-13	Mau-5	197	9.76	9.0	150	500.0	2.0		1.8		50		
V-14	Tru-1	528	42.75	9.0	160	724.0	3.5		2.0		101		
V-15	Tru-2	627	47.17	9.0	150	590.0	4.3	1	3.0		92	1	
V-16	Lien Minh	486	40.60	10.0	140	724.0	3.0		3.0		81	1	
V-17	Hoi-1	431	34.10	11.0	150	688.0	3.0		1.0	1	77		
V-18	Hoi-2	375	33.20	11.0	160	796.0	3.0		2.0	1	57	1	
V-19	Hoi-3	291	23.90	10.5	150	720.0	2.5		2.0		47	1	
V-20	Hoi-4	440	31.20	10.5	140	647.0	2.5		1.0		66		
V-21	Hong Son-1	378	28.86	11.5	140	647.0	2.5		1.0	2	71	1	
V-22	Hong Son-2	351	29.00	11.0	140	683.0	2.5		1.0		53		
V-23	Dong-1	434	38.40	12.0	150	770.0	3.0		1.0		81	1	
V-24	Dong-2	521	44.30	12.0	150	760.0	2.5		1.5	1	94		
	TOTAL	11,056	868.38	233.5	3,650	15,793.0	68.0	1	40.3	10	2,074	12	
	AVERAGE	461	36.18	9.7	152	658.0	2.8		1.7		86		

COMMUNE		Nam Giang											
COM. No.	CMN13												
No. of Vil. :	12												
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Ctr (Qty)	Irr. C. (km)	P. St. (Qty)		Well (Qty)
V-01	Nom 1	516	0.40	4.0	1,300,000	872.0	2.5		2.0	1	73	1	
V-02	Nom 2	510	0.40	4.0	1,000,000	907.0	2.5		2.0		61	1	
V-03	Nom 3	464	0.35	3.0	1,300,000	1,000.0	1.5	1	1.0	1	48		
V-04	Nom 4	351	0.35	3.5	1,300,000	891.0	2.0				59		
V-05	Nom 5	342	0.35	3.5	1,300,000	923.0	0.5		1.0	1	62		
V-06	Nom 6	441	0.35	3.0	1,000,000	873.0	0.5				65	1	
V-07	Nom 7	475	0.60	3.5	1,000,000	991.0	3.0		1.0	1	62	1	
V-08	Nom 8	347	0.60	4.2	1,000,000	982.0	2.0				54		
V-09	Nom 9	396	0.70	4.0	1,100,000	1,020.0	3.0		2.0	1	67	1	
V-10	Nom 10	544	0.80	4.5	1,000,000	1,022.0	2.0		2.0	1	76	1	
V-11	Nom 11	471	0.80	5.5	1,100,000	1,029.0	2.5		1.0	1	74	1	
V-12	Nom 12	343	0.35	6.0	1,400,000	950.0	4.0				63		
	TOTAL	5,108	6.00	48.0	13,800,000	11,460.0	26.0	1	10.0	2	771	7	
	AVERAGE	426	0.50	4.0	1,150,000	955.0	2.2		0.8		64		

COMMUNE		Hong Long											
COM. No.	CMN14												
No. of Vil.	13												
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Ctr (Qty)	Irr. C. (km)	P. St. (Qty)		Well (Qty)
V-01	Nom 5	267	1.04	5.7	990,000	630.0	2.4		1.4		54		
V-02	Nom 2	248	3.20	5.8	950,000	630.0	2.4		1.3		46	1	Condition of K.D is bad
V-03	Nom 1	293	4.00	4.8	900,000	640.0	2.2		1.3		48	1	70% of well is not used
V-04	Nom 10	475	6.28	7.8	900,000	645.0	2.8		2.5		69	1	drink.
V-05	Nom 7	404	5.70	6.4	880,000	650.0	2.6		2.3		67		
V-06	Nom 11	474	6.66	8.3	830,000	635.0	3.5		2.8		70		Public well is not used.
V-07	Nom 6	514	7.30	6.1	810,000	620.0	3.1		2.1	1	84	2	P.St. is working not
V-08	Nom 4	340	5.13	6.5	800,000	630.0	2.4		2.4		53	1	
V-09	Nom 8	357	5.13	6.8	780,000	640.0	2.4	1	2.3		60	1	
V-10	Nom 3	471	5.70	5.0	720,000	620.0	3.1		2.3	1	62		P.St. is working not
V-11	Nom 12	354	5.58	9.8	700,000	680.0	3.3		3.1		50	1	
V-12	Nom 13	368	5.50	9.4	700,000	650.0	3.6		3.2		54		Public well is not used.
V-13	Nom 9	391	4.67	7.2	690,000	650.0	2.3		2.4		50		
	TOTAL	5,116	69.96	88.6	10,640,000	8,320.0	37.9	1	29.8	2	777	8	
	AVERAGE	394	5.38	6.8	818,462	640.0	2.9		2.3		60		

Table M.2.4 Communal Data (5/9)

COMMUNE		Kim Dien																	
COM No.		CMN12																	
No. of Vil.		24																	
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE						REMARK						
		Pop.	Area (km ²)		Av. Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds Rd(km)	H. Ctr. (Qty)	Tr. C. (km)	P. St. (Qty)	Well. (Qty)	K. G. (Qty)							
V-01	Sen-1	442	31.97	7.6	150	626.0	2.5		2.0				107						
V-02	Sen-2	459	41.73	8.6	160	796.0	3.0		3.0				115						
V-03	Sen-3	413	31.91	8.5	160	625.0	3.0		1.0				90						
V-04	Sen-4	501	45.33	9.0	150	766.0	3.0		1.0			1	106						
V-05	Hong-1	553	44.97	9.8	160	668.0	2.5		1.0			1	110						
V-06	Hong-2	453	35.42	10.0	160	658.0	2.5		2.0				67						
V-07	Sen-1	553	43.27	10.5	150	650.0	2.9		2.0			1	94						
V-08	Sen-2	607	45.96	11.6	150	595.0	3.3		1.0			1	119						
V-09	Mau-1	666	45.39	8.0	160	590.0	3.3		1.5				148						
V-10	Mau-2	516	45.56	8.5	150	620.0	2.5		2.5				87						
V-11	Mau-3	316	16.95	8.5	170	500.0	1.5		1.5				76						
V-12	Mau-4	485	29.29	8.5	150	510.0	3.7		1.5			1	74						
V-13	Mau-5	197	9.76	9.0	150	500.0	2.0		1.8				50						
V-14	Tru-1	528	42.75	9.0	160	724.0	3.5		2.0				104						
V-15	Tru-2	627	47.47	9.0	150	630.0	4.3		1.5			3.0	59						
V-16	Tru-Mau	486	40.60	10.0	140	724.0	3.0		3.0				81						
V-17	Hoa-1	431	34.10	11.0	150	688.0	3.0		1.0			1	77						
V-18	Hoa-2	375	33.20	11.0	160	796.0	3.0		2.0			1	57						
V-19	Hoa-3	291	23.90	10.5	150	750.0	2.5		2.0				47						
V-20	Hoa-4	440	31.20	10.5	140	647.0	2.5		1.0				66						
V-21	Hong-Son-1	378	28.86	11.5	140	647.0	2.5		1.0			2	71						
V-22	Hong-Son-2	361	29.00	11.0	140	683.0	2.5		1.0				54						
V-23	Dong-1	434	38.40	12.0	150	770.0	3.0		1.0				81						
V-24	Dong-2	521	34.86	12.0	150	760.0	2.5		1.5			1	91						
TOTAL		11,056	868.38	233.5	3,750	15,733.0	68.6	1	40.3	10	2074	13							
AVERAGE		461	36.18	9.7	152	658.0	2.8		1.7				86						

COMMUNE		Nam Giang																	
COM No.		CMN13																	
No. of Vil.		17																	
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE						REMARK						
		Pop.	Area (km ²)		Av. Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds Rd(km)	H. Ctr. (Qty)	Tr. C. (km)	P. St. (Qty)	Well. (Qty)	K. G. (Qty)							
V-01	Nam 1	516	0.40	4.0	1,300,000	872.0	2.5		2.0			1	73						
V-02	Nam 2	518	0.40	3.0	1,000,000	307.0	2.3						61						
V-03	Nam 3	364	0.39	3.0	1,300,000	1,000.0	3.5	1	1.0			1	48						
V-04	Nam 4	351	0.35	3.5	1,300,000	891.0	2.0						59						
V-05	Nam 5	412	0.35	3.5	1,300,000	923.0	0.5		1.0			1	62						
V-06	Nam 6	441	0.35	3.0	1,000,000	873.0	0.5						65						
V-07	Nam 7	473	0.66	3.8	1,000,000	794.0	3.0		1.0			1	69						
V-08	Nam 8	317	0.60	3.2	1,000,000	982.0	2.0						51						
V-09	Nam 9	366	0.76	4.0	1,100,000	1,020.0	3.0		2.0			1	67						
V-10	Nam 10	544	0.89	4.5	1,000,000	1,022.0	2.0		2.0			1	76						
V-11	Nam 11	471	0.60	3.8	1,100,000	1,023.0	2.5		1.0			1	74						
V-12	Nam 12	414	0.35	6.0	1,400,000	950.0	4.0						54						
TOTAL		5,104	6.00	48.0	13,800,000	11,400.0	25.6	1	12.0	2	721	13							
AVERAGE		426	0.50	4.0	1,150,000	655.0	2.2		0.8				54						

COMMUNE		Hong Long																	
COM No.		CMN14																	
No. of Vil.		13																	
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE						REMARK						
		Pop.	Area (km ²)		Av. Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds Rd(km)	H. Ctr. (Qty)	Tr. C. (km)	P. St. (Qty)	Well. (Qty)	K. G. (Qty)							
V-01	Nam 5	337	5.00	5.7	200,000	630.0	2.6		1.8				34						
V-02	Nam 2	248	3.20	5.8	950,000	630.0	2.4		1.3				46						Post box not installed
V-03	Nam 1	293	4.00	4.8	900,000	640.0	2.2		1.3				48						Post well is not installed
V-04	Nam 10	475	6.28	7.8	900,000	645.0	2.8		2.5				69						Post box
V-05	Nam 7	404	5.70	6.4	880,000	650.0	2.6		2.4				67						
V-06	Nam 11	474	6.66	8.3	830,000	635.0	3.5		2.8				76						Public well is not installed
V-07	Nam 6	514	7.30	6.1	810,000	620.0	3.1		2.4			1	83						Post is working
V-08	Nam 4	330	5.12	5.3	800,000	630.0	2.6		2.4				53						
V-09	Nam 8	357	5.25	6.8	780,000	640.0	2.8	1	2.3				60						
V-10	Nam 3	471	5.70	5.0	720,000	620.0	3.1		2.3			1	62						Post is working
V-11	Nam 12	354	5.58	9.8	700,000	680.0	3.3		3.1				56						
V-12	Nam 13	368	5.50	9.4	700,000	650.0	3.6		3.2				54						Public well is not installed
V-13	Nam 9	391	4.67	7.2	690,000	630.0	3.3		2.3				60						
TOTAL		5,116	69.56	83.6	10,610,000	8,320.0	37.9	1	29.8	2	777	13							
AVERAGE		391	5.38	6.8	818,462	640.0	2.9		2.3				60						

Table M.2.4 Communal Data (6/9)

COMMUNE		Xuan Lam											
COM. No.		CMN15											
No. of Vil.		22											
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Cr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Xom 11	374	1.62	10.2	800,000	560	2.5		1.0	1	40		
V-02	Xom 12	405	2.15	10.3	800,000	560	3				60		
V-03	Xom 21	412	2.84	12.0	800,000	560	3		1.0		50		
V-04	Xom 22	420	3.00	12.0	800,000	560	3		1.0		56	1	1 earth well
V-05	Xom 6	368	2.31	8.9	700,000	560	2.5		1.0	1	41		
V-06	Xom 7	374	2.01	9.0	700,000	560	2.5	1	1.0		50	1	1 earth well
V-07	Xom 8	379	2.07	9.7	700,000	560	2.5		1.0		47	1	1 earth well
V-08	Xom 10	433	2.16	9.5	700,000	560	3.3		1.0		58	1	1 earth well
V-09	Xom 13	323	1.74	10.3	700,000	560	3.3		1.0		43		
V-10	Xom 14	368	2.47	10.3	700,000	560	2.5				58		
V-11	Xom 15	497	2.35	10.3	700,000	560	1.5		1.0		56		
V-12	Xom 16	465	3.47	10.4	700,000	560	3.7		1.0		64	1	
V-13	Xom 17	497	3.46	10.6	700,000	560	2		1.0		68		
V-14	Xom 18	514	2.59	10.8	700,000	560	3.5		1.0	1	65	1	
V-15	Xom 19	465	3.09	11.0	700,000	560	4.3		1.0		69		
V-16	Xom 20	480	2.84	11.0	700,000	560	3		1.0	1	73	1	1 brick well
V-17	Xom 9	437	2.29	9.6	700,000	560	3		1.0		55		
V-18	Xom 5	348	2.07	8.7	700,000	560	3		1.0		58	1	1 earth well
V-19	Xom 4	360	1.76	8.5	700,000	560	2.5		1.0		42		
V-20	Xom 3	355	2.16	8.3	650,000	560	2.5		1.0		50		1 brick well
V-21	Xom 2	387	2.16	8.2	650,000	560	2.5		1.0		50		1 earth well
V-22	Xom 1	462	3.13	9.0	650,000	560	2.9		1.0		65	1	1 brick well
TOTAL		9,035	52.58	217.2	15,650,000	12,320.0	62.5	1	20.0	4	1,210	9	
AVERAGE		411	2.39	9.9	711,364	560.0	2.8		0.9		55		

COMMUNE		Nam Cat											
COM. No.		CMN16											
No. of Vil.		12											
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Cr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	My Thien	679	0.80	18.5	2,340,000	840.0			1.2		42	1	2 Public wells
V-02	Tho Moi	490	0.50	16.0	2,280,000	780.0			1.5	1	63	2	3 public wells
V-03	Phu Nhuan	362	0.43	16.0	2,280,000	920.0			0.7		51	1	2 earth wells
V-04	Thuan My	432	0.56	16.0	2,112,000	480.0			1.3	1	71	1	1 earth well
V-05	Da Cai	539	0.54	14.4	2,124,000	792.0			0.7		43	1	3 earth wells
V-06	Dong Cham	375	0.40	16.5	2,040,000	790.0		1	1.3		32		1 earth well
V-07	Dai Thang	558	0.65	18.0	1,980,000	850.0			1.7		60	1	3 earth wells
V-08	Boi Loi	577	0.59	18.0	1,920,000	800.0			1.8	1	62	1	2 earth wells
V-09	Trung Cang	535	0.66	17.0	1,920,000	810.0			1.7	2	72	1	2 earth wells
V-10	Hoa Hoi	506	0.59	16.5	1,740,000	840.0			2.0		79	1	2 earth wells
V-11	Dong Cham	371	0.38	17.3	1,680,000	470.0			1.7		28	1	2 earth wells
V-12	Quy Duc	317	0.45	19.0	1,620,000	520.0			2.4		32	1	1 earth well
TOTAL		5,818	6.52	206.5	24,084,000	10,050.0	0.0	1	18.8	7	669	12	
AVERAGE		485	0.54	17.2	2,007,000	837.5	0.0		1.6		56		

COMMUNE		Nam Thuong												
COM. No.		CMN17												
No. of Vil.		4												
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK		
		Pop.	Area (km ²)		Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Cr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)	
V-01	Nam 1	302	0.35	5.9	920,000	900.0					1	34		
V-02	Nam 2	428	2.14	5.5	800,000	900.0						37		
V-03	Nam 3	537	11.50	4.0	1,100,000	900.0					1	36		
V-04	Nam 4	380	0.50	4.9	1,120,000	800.0					1	43		
TOTAL		2,320	235.49	20.5	2,221,870	3,550.0	10.0	0	1,650.0	3	147	0		
AVERAGE		580	58.87	5.1	555,468	887.5	2.5		412.5		37	0		

Table M.2.4 Communal Data (6/9)

COMMUNE		Nhon Lam		COMM. No.		CMN5		No. of Vill.		22		
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK
		Pop.	Area (km ²)		Average Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds. Cr. Rd (km)	H. Cr. (Qty)	Ir. C. (km)	P. St. (Qty)	Well (Qty)	
V-01	Nhon 11	374	1.62	10.2	890,000	560	2.5		1.0	1	40	
V-02	Nhon 12	495	2.15	10.3	800,000	560	3				60	
V-03	Nhon 21	412	2.81	12.0	800,000	560	3		1.0		50	
V-04	Nhon 22	420	3.00	12.0	800,000	560	3		1.0		56	1
V-05	Nhon 6	368	2.31	8.9	700,000	560	2.5		1.0	1	41	
V-06	Nhon 7	374	2.01	9.0	700,000	560	2.5	1	1.0		50	1
V-07	Nhon 8	373	2.02	9.2	700,000	560	2.9		1.0		47	1
V-08	Nhon 10	433	2.16	9.5	700,000	560	3.3		1.0		58	1
V-09	Nhon 13	323	1.74	10.3	700,000	560	3.3		1.0		43	
V-10	Nhon 14	368	2.47	10.3	700,000	560	2.5				58	
V-11	Nhon 15	497	2.35	10.3	700,000	560	1.5		1.0		56	
V-12	Nhon 16	465	3.41	10.3	750,000	560	3.3		1.0		65	1
V-13	Nhon 17	497	3.45	10.6	700,000	560	2		1.0		68	
V-14	Nhon 18	514	2.59	10.8	700,000	560	3.5		1.0	1	65	1
V-15	Nhon 19	403	2.65	11.0	700,000	560	4.3		1.0		69	
V-16	Nhon 20	480	2.81	11.0	700,000	560	3		1.0	1	73	1
V-17	Nhon 9	442	2.29	9.6	700,000	560	3		1.0		55	
V-18	Nhon 5	348	2.07	8.2	700,000	560	3		1.0		58	1
V-19	Nhon 4	350	1.76	8.5	700,000	560	2.5		1.0		42	
V-20	Nhon 3	355	2.16	8.3	650,000	560	2.5		1.0		50	
V-21	Nhon 2	387	2.16	8.2	650,000	560	2.5		1.0		50	1
V-22	Nhon 1	412	2.33	8.6	600,000	560	3.3		1.0		63	1
TOTAL		9,035	52.58	217.2	15,650,000	12,320.0	62.5	1	20.0	4	1,210	9
AVERAGE		411	2.39	9.9	711,364	560.0	2.8		0.9		55	

COMMUNE		Nhan Cat		COMM. No.		CMN16		No. of Vill.		12		
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK
		Pop.	Area (km ²)		Average Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds. Cr. Rd (km)	H. Cr. (Qty)	Ir. C. (km)	P. St. (Qty)	Well (Qty)	
V-01	My Huan	679	0.80	18.5	2,330,000	810.0			1.2		42	1
V-02	Tho Muoi	490	0.50	16.0	2,280,000	780.0			1.5	1	63	2
V-03	Hu Nham	362	0.43	16.0	2,280,000	920.0			0.7		51	1
V-04	Phom My	633	0.54	16.0	2,112,000	850.0			1.3	1	71	1
V-05	Do Cat	552	0.54	18.5	2,112,000	790.0			2.2		81	1
V-06	Dang Chanh	375	0.40	16.5	2,040,000	780.0		1	1.3		32	
V-07	Dau Dang	558	0.65	18.0	1,980,000	850.0			1.7		60	1
V-08	Bai Loi	871	0.59	18.0	1,920,000	800.0			1.8	1	62	1
V-09	Trung Canh	535	0.66	17.0	1,920,000	810.0			1.7	2	72	1
V-10	Hoa Hoa	576	0.59	16.5	1,740,000	810.0			2.0		79	1
V-11	Dang Chan	317	0.35	17.5	1,695,000	850.0			1.2		71	1
V-12	Quy Dong	317	0.43	18.0	1,650,000	850.0			2.4	2	32	1
TOTAL		5,818	6.52	206.5	24,084,000	10,050.0	0.0	1	18.8	7	669	12
AVERAGE		485	0.54	17.2	2,007,000	837.5	0.0		1.6		56	

COMMUNE		Nhan Dong		COMM. No.		MN17		No. of Vill.		4		
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK
		Pop.	Area (km ²)		Average Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds. Cr. Rd (km)	H. Cr. (Qty)	Ir. C. (km)	P. St. (Qty)	Well (Qty)	
V-01	Nhon 1	502	2.13	6.0	900	900.0				1	31	
V-02	Nhon 2	478	3.14	5.3	180	900.0					37	
V-03	Nhon 3	557	3.90	5.6	1,100,000	900.0				1	35	
V-04	Nhon 4	183	6.30	4.0	1,180,000	850.0				1	47	
TOTAL		2,720	23.47	20.5	2,220,000	3,550.0	10.0	0	1,650.0	3	147	0
AVERAGE		680	5.87	5.1	555,000	887.5	2.5		412.5		37	0

Table M.2.4 Communal Data (7/9)

COMMUNE		Nam Tan											
COM. No.		CMN18											
No. of Vil. :		7											
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd. (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Xom 5	587	43.24	2.5	1,050,000	736.0			2.5		110	1	2 Public wells
V-02	Xom 6	606	44.98	2.5	1,000,000	736.0		1	2.5	1	121	1	1 public well
V-03	Xom 7	650	53.03	3.0	970,000	815.0			2.5		125	1	2 earth wells
V-04	Xom 4	632	47.10	2.0	950,000	745.0			2.5	1	103	1	1 earth well
V-05	Xom 3	625	45.25	2.5	970,000	740.0			2.5		104	1	3 earth wells
V-06	Xom 2	510	36.57	2.5	1,100,000	823.0			3.0		112	1	1 earth well
V-07	Xom 1	508	37.41	1.0	1,000,000	797.0			0.5		83		1 earth well
(Natural Area)		1,186.86											
TOTAL		4,313	1,520.21	19.0	6,650,000	5,430.0	12.0	1	16.0	2	765	6	
AVERAGE		616	47.62	2.7	950,000	775.7	1.7		2.3		109		

* Av. Area : Natural Area excluded

COMMUNE		Nam Loc											
COM. No.		CMN19											
No. of Vil. :		11											
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd. (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Xom 1	422	3.58	4.5	1,220,000	744.0	3.1		0.5		83	1	
V-02	Xom 2	595	1.25	4.5	1,260,000	744.0	3.2		1.5		99		
V-03	Xom 3	585	1.73	4.5	1,220,000	744.0	3.5		3.6		101		
V-04	Xom 4	731	1.54	6.0	1,440,000	744.0	6.5		1.8		92		
V-05	Xom 5	637	1.34	5.6	1,596,000	744.0	6.3		2.0	1	110		Over 90% of population is Christian
V-06	Xom 6	509	1.07	6.0	1,500,000	744.0	5.5	1	2.1		70		
V-07	Xom 7	371	0.82	7.2	1,250,000	744.0	6.8		2.3		82		
V-08	Xom 8	321	0.67	6.6	1,260,000	744.0	5.8		2.2		50	1	
V-09	Xom 9	467	0.98	6.5	1,596,000	744.0	7.1		2.6		75		
V-10	Xom 10	475	1.00	7.0	1,320,000	744.0	7.7		3.2	1	102	1	
V-11	Xom 11	372	0.43	8.0	1,600,000	744.0	8.5				40		
TOTAL		5,505	11.02	66.0	15,180,000	8,184.0	64.0	1	20.0	2	846	3	
AVERAGE		500	1.00	6.0	1,380,000	744.0	5.8		1.8		77		

COMMUNE		Khanh Son											
COM. No.		CMN20											
No. of Vil. :		28											
No.	VILLAGE	SIZE		ACC. Dist. (km)	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)		Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd. (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Xom 1	337	1.71	9.3	1,420,000	486.0	1.3		0.4	1	48	1	
V-02	Xom 2	310	1.71	10.5	1,000,000	486.0	1.2		0.4	1	45	1	
V-03	Xom 7	466	1.65	14.7	750,000	486.0	1.9		0.3		85	1	
V-04	Xom 6	325	0.97	13.0	950,000	486.0	1.4		0.4		55		
V-05	Xom 4	472	1.55	11.0	850,000	486.0	1.5		0.5		65		
V-06	Xom 5	445	1.44	12.5	800,000	486.0	1.5		0.5		60	1	
V-07	Xom 3	440	1.58	12.6	870,000	486.0	2.0		0.5		40		
V-08	Xom 9	401	1.17	14.5	800,000	486.0	1.2		0.4		76	1	
V-09	Xom 10	415	1.23	14.6	750,000	486.0	1.0		0.4		68		
V-10	Xom 11	369	0.85	14.7	750,000	486.0	0.3		0.4		51	1	
V-11	Xom 12	330	0.89	15.0	700,000	486.0	0.6	1	0.5		49		
V-12	Xom 8	489	2.27	14.4	700,000	486.0	1.5		0.5	1	86		
Khan Son 1	Sub-TOTAL	4,756	18.63	156.2	10,200,000	5,832.0	15.8	1	5.4	3	728	6	
AVERAGE		396	1.55	13.0	850,000	486.0	1.3		0.5		61		
V-13	Xom 13	577	1.58	16.5	1,000,000	490.0	1.5		0.7	1	81	1	
V-14	Xom 14	510	1.10	16.0	900,000	490.0	1.5		0.5		77	1	
V-15	Xom 13	388	2.00	13.0	900,000	490.0	1.0		1.5		48		
V-16	Xom 15	406	2.10	15.0	900,000	490.0	1.0				52	1	
V-17	Xom 1	468	0.73	17.0	850,000	490.0	0.5		0.6		62	1	
V-18	Xom 2	441	0.76	19.5	850,000	490.0	0.5				63	1	
V-19	Xom 9	446	0.72	20.0	850,000	490.0	1.0		0.5		65		
V-20	Xom 6	430	0.80	18.5	850,000	490.0	0.3	1	1.2	1	62		
V-21	Xom 1	426	0.65	16.0	800,000	490.0	0.3				70		
V-22	Xom 2	429	0.60	16.5	800,000	490.0	0.3		1.0		60	1	
V-23	Xom 3	435	0.86	17.0	850,000	490.0	0.3				59		
V-24	Xom 4	435	0.70	12.5	800,000	490.0	0.3		0.6		62		
V-25	Xom 5	435	0.66	18.5	800,000	490.0	0.3		1.5		55	1	
V-26	Xom 16	444	1.38	16.0	850,000	490.0	1.0				50		
V-27	Xom 11	583	1.40	17.0	800,000	490.0	1.0		0.6	1	80	1	
V-28	Xom 14	450	2.00	12.0	800,000	490.0	1.5		0.5		70		
Khanh Son 2	Sub-TOTAL	7,295	19.03	264.5	13,500,000	7,840.0	11.7	1	9.2	3	1,016	8	
AVERAGE		456	1.19	16.5	843,750	490.0	0.7		0.6		64		
TOTAL		12,051	37.66	420.7	23,700,000	13,672.0	27.5	2	14.6	6	1,744	14	
AVERAGE		430	2.35	26.3	1,481,250	854.5	1.7		0.9		109		

COMMUNE Nam Trung

Table M.2.4 Communal Data (7/9)

COMMUNE		Nam Jan																		
COM No.		CMN18																		
No. of Vill.		7																		
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE						REMARK							
		Pop	Area (km ²)		Av. Annual Inc Farmer	Cult Area Farmer(m ²)	Ds Rd (km)	Cm (Qty)	H Cr (km)	In C (km)	P. St (Qty)	Well (Qty)		K.G (Qty)						
V-01	Nom 5	587	43.24	2.5	1,050,000	735.0							2.5	110					1	1 Public wells
V-02	Nom 6	625	41.39	2.5	1,000,000	735.0				1			2.3	121	1					3 Public wells
V-03	Nom 7	650	53.03	3.0	970,000	815.0							2.5	125						2 earth wells
V-04	Nom 4	632	47.10	2.0	950,000	745.0							2.5	103	1					1 earth well
V-05	Nom 3	628	35.29	2.5	920,000	780.0							2.3	108						1 earth well
V-06	Nom 2	551	42.52	2.5	910,000	743.0							3.0	112						1 earth well
V-07	Nom 1	508	47.38	3.0	850,000	937.0							0.5	85						1 earth well
(Natural Area)		1,186.86																		
TOTAL		4,313	1,520.21	19.0	6,650,000	5,430.0			12.0	1			16.0	276	2					6
AVERAGE		616	47.62	2.7	950,000	775.7			1.7				2.3	109						

* Av. Area: Natural Area excluded

COMMUNE		Nam Loc																		
COM No.		CMN19																		
No. of Vill.		11																		
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE						REMARK							
		Pop	Area (km ²)		Av. Annual Inc Farmer	Cult Area Farmer(m ²)	Ds Rd (km)	H Cr (Qty)	In C (km)	P. St (Qty)	Well (Qty)	K.G (Qty)								
V-01	Nom 1	452	0.95	4.0	1,200,000	711.0			3.1				0.5	83						1
V-02	Nom 2	595	1.25	4.5	1,260,000	744.0			3.2				1.5	99						
V-03	Nom 3	583	1.23	4.8	1,260,000	711.0			3.5				1.6	101						
V-04	Nom 4	731	1.51	6.0	1,410,000	744.0			6.5				1.8	92						
V-05	Nom 5	637	1.34	5.6	1,596,000	744.0			6.3				2.0	110						
V-06	Nom 6	599	1.07	6.0	1,500,000	744.0			5.5	1			2.1	70						
V-07	Nom 7	391	0.83	3.0	1,215,000	734.0			6.8				2.5	82						
V-08	Nom 8	321	0.67	6.6	1,260,000	744.0			5.8				2.2	50						1
V-09	Nom 9	467	0.98	6.5	1,596,000	744.0			7.1				2.6	75						
V-10	Nom 10	475	1.00	7.0	1,320,000	744.0			7.7				3.2	102	1					1
V-11	Nom 11	342	0.73	8.0	1,260,000	744.0			8.5					16						
TOTAL		5,505	11.02	66.0	15,180,000	8,181.0			61.0	1			20.0	2	816	3				
AVERAGE		500	1.00	6.0	1,380,000	744.0			5.8				1.8	77						

Over 90% of population is Christian

COMMUNE		Khanh Son																			
COM No.		CMN20																			
No. of Vill.		28																			
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE						REMARK								
		Pop	Area (km ²)		Av. Annual Inc Farmer	Cult Area Farmer(m ²)	Ds Rd (km)	H Cr (Qty)	In C (km)	P. St (Qty)	Well (Qty)	K.G (Qty)									
V-01	Nom 1	352	1.43	9.3	1,260,000	485.0			1.5				0.4	1	48					1	
V-02	Nom 2	310	1.71	10.5	1,000,000	486.0			1.2				0.1	1	15					1	
V-03	Nom 7	454	1.63	14.0	900,000	486.0			1.9				0.3	1	85					1	
V-04	Nom 6	325	0.92	13.0	950,000	486.0			1.4				0.4		55						
V-05	Nom 4	472	1.55	11.0	850,000	486.0			1.5				0.5		65						
V-06	Nom 5	445	1.44	12.5	800,000	485.0			1.5				0.5		60					1	
V-07	Nom 3	380	2.99	12.6	900,000	486.0			2.0				0.3		49						
V-08	Nom 9	401	1.17	14.5	800,000	486.0			1.2				0.4		76					1	
V-09	Nom 10	415	1.23	14.6	750,000	486.0			1.0				0.4		65						
V-10	Nom 11	369	0.83	14.8	750,000	486.0			0.5				0.4		51					1	
V-11	Nom 12	330	0.89	15.0	700,000	486.0			0.6	1			0.5		42						
V-12	Nom 8	489	2.27	14.4	700,000	486.0			1.5				0.5	1	86						
Khan Son 1 SUB-TOTAL		4,756	18.63	156.2	10,200,000	5,832.0			15.8	1			5.4	3	728					4	
AVERAGE		396	1.55	13.0	850,000	486.0			1.3				0.5		61						
V-01	Nom 13	527	1.59	18.0	1,000,000	490.0			1.0				0.7	1	51					1	
V-02	Nom 10	510	1.10	16.0	900,000	490.0			1.5				0.5		72					1	
V-03	Nom 13	388	2.00	13.0	900,000	490.0			1.0				1.5		48						
V-04	Nom 15	406	2.10	15.0	900,000	490.0			1.0						52					1	
V-05	Nom 2	446	0.75	17.0	850,000	490.0			0.5				0.6		62					1	
V-06	Nom 8	111	0.76	19.5	850,000	490.0			0.5						63						
V-07	Nom 9	446	0.72	20.0	850,000	490.0			1.0				0.5		68						
V-08	Nom 6	130	0.80	18.5	850,000	490.0			0.3	1			1.2	1	62						
V-09	Nom 1	426	0.65	16.0	800,000	490.0			0.3						70						
V-10	Nom 2	429	0.60	16.5	800,000	490.0			0.3				1.0		60					1	
V-11	Nom 3	425	0.69	17.0	800,000	490.0			0.2						39						
V-12	Nom 4	435	0.70	12.5	800,000	490.0			0.3				0.6		62						
V-13	Nom 5	435	0.66	18.5	800,000	490.0			0.3				1.5		55					1	
V-14	Nom 16	448	2.69	14.0	800,000	490.0			1.0						50						
V-15	Nom 11	583	1.40	17.0	800,000	490.0			1.0				0.6	1	80					1	
V-16	Nom 14	450	2.00	12.0	800,000	490.0			1.5				0.5		70						
Khanh Son 2 SUB-TOTAL		7,295	19.03	264.5	13,500,000	7,810.0			11.7	1			9.2	3	1,016					8	
AVERAGE		456	1.19	16.5	843,750	490.0			0.7				0.6		61						
TOTAL		12,051	37.66	420.7	23,700,000	13,672.0			27.5	2			14.6	6	1,741						14
AVERAGE		430	2.35	26.3	1,481,250	854.5			1.7				0.9		109						

COMMUNE Nam Trung

Table M.2.4 Communal Data (8/9)

COM. No.		CMN21											
No. of Vil :		14											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Average Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Nom 7	707	0.69		2,000,000	566.0						130	
V-02	Nom 5	528	0.54		2,000,000	566.0						119	
V-03	Nom 3	632	0.58		1,800,000	566.0						115	
V-04	Nom 8	507	0.75		1,800,000	566.0						112	
V-05	Nom 2	492	0.41		1,700,000	566.0						82	
V-06	Nom 1	347	0.36		1,600,000	566.0						65	
V-07	Nom 6	522	0.53		1,600,000	566.0						88	
V-08	Nom 4	610	0.54		1,600,000	566.0					1	118	
V-09	Nom 9	697	0.54		1,600,000	566.0						141	
V-10	Nom 12	608	0.31		1,500,000	566.0						83	
V-11	Nom 13	350	0.28		1,500,000	566.0						59	
V-12	Nom 10	537	0.68		1,500,000	566.0						105	
V-13	Nom 11	390	0.62		1,400,000	566.0						77	
V-14	Nom 14	444	0.39		1,400,000	566.0						85	
TOTAL		7,295	7.19	0.0	23,000,000	7,924.0	0.0	0	11.2	2	1,357	2	
AVERAGE		521	0.51	0.0	1,642,857	566.0	0.0	0	0.8			97	

COMMUNE		Nam Phuc											
COM. No.		CMN22											
No. of Vil :		8											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Average Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Nom 1	452	1.45	20.00	948,500	1,117.0	1.35		1,400.0		2	40	1 K.G. has low standard
V-02	Nom 2	399	0.57	20.00	992,700	1,091.0	1.25		400.0			80	
V-03	Nom 3	385	0.57	20.05	1,181,300	1,180.0	1.95		500.0			78	
V-04	Nom 4	400	0.56	20.05	1,070,000	1,065.0	1.45	1	1,000.0			77	
V-05	Nom 5	406	0.63	20.08	1,079,200	1,096.0	1.95		150.0			78	
V-06	Nom 6	354	0.51	20.10	1,023,100	1,022.0	1.40		200.0			69	
V-07	Nom 7	410	0.57	20.12	1,086,600	1,105.0	1.50		800.0			52	
V-08	Nom 8	430	0.45	20.15	1,101,000	1,056.0	1.45		700.0			23	
TOTAL		3,248	5.42	160.55	8,479,500.00	8,773.00	14.00	1	5,250.00	2	497	7	
AVERAGE		406	0.68	20.07	1,059,937.50	1,096.63	1.73		656.25			62	

* 500km irr. in vil 5&7
* 1,700km irr. in 8

COMMUNE		Nam Cuong											
COM. No.		CMN23											
No. of Vil :		10											
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					REMARK	
		Pop.	Area (km ²)	Dist. (km)	Average Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd.(km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)		K.G. (Qty)
V-01	Nom 2	452	0.46	21.0	851,500	566.0						61	
V-02	Nom 9	377	0.47	20.0	801,150	566.0						40	
V-03	Nom 10	695	0.72	21.0	812,720	566.0					1	82	
V-04	Nom 7	453	0.47	20.7	839,920	560.0						61	
V-05	Nom 5	662	0.68	20.0	839,920	580.0						80	
V-06	Nom 4	469	0.48	19.5	839,920	580.0						70	
V-07	Nom 1	534	0.55	18.0	839,920	566.0			1			81	
V-08	Nom 2	452	0.46	18.5	839,920	566.0						66	
V-09	Nom 6	539	0.48	20.5	766,110	560.0						80	
V-10	Nom 3	381	0.74	19.0	703,810	566.0						80	
TOTAL		5,705	5.60	198.2	8,363,162	5,684.0	0.0		1	5.1	1	756	0
AVERAGE		571	0.56	19.8	836,316	568.4	0.0		0.5			76	

Table M.2.4 Communal Data (8/9)

COMMUNE		CANTON		ACC	FARMING LEVEL		INFRASTRUCTURE					REMARK		
COM No	No. of Vill	VILLAGE	Area (km ²)		Dist (km)	Av. Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds. Cm Rd (km)	H. Cir (Qty)	Irr. C (km)	P. St (Qty)		Well (Qty)	K.G. (Qty)
V-01	Vill 7	707	0.69		2,000,000	566.0						130		
V-02	Vill 8	598	0.54		2,000,000	566.0					1	117		
V-03	Vill 9	642	0.58		1,800,000	566.0						115		
V-04	Vill 8	507	0.75		1,800,000	566.0						112		
V-05	Vill 2	402	0.41		1,700,000	566.0						82		
V-06	Vill 1	347	0.36		1,600,000	566.0						65		
V-07	Vill 5	522	0.51		1,600,000	566.0		1				58		
V-08	Vill 1	610	0.54		1,600,000	566.0					1	118		
V-09	Vill 9	607	0.54		1,600,000	566.0						141	1	
V-10	Vill 12	698	0.31		1,500,000	566.0						83		
V-11	Vill 13	380	0.78		1,500,000	566.0						59		
V-12	Vill 10	547	0.68		1,500,000	566.0						105		
V-13	Vill 11	300	0.62		1,400,000	566.0						77		
V-14	Vill 14	355	0.56		1,400,000	566.0						65		
TOTAL		7,295	7.19	0.0	24,000,000	7,924.0	0.0	0	11.2	2	1,352	2		
AV.P.A.V		521	0.51	0.0	1,642,857	566.0	0.0		0.8			97		

COMMUNE		CANTON		ACC	FARMING LEVEL		INFRASTRUCTURE					REMARK		
COM No	No. of Vill	VILLAGE	Area (km ²)		Dist (km)	Av. Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds. Cm Rd (km)	H. Cir (Qty)	Irr. C (km)	P. St (Qty)		Well (Qty)	K.G. (Qty)
V-01	Vill 1	457	1.46	20.09	944,500	1,117.0	1.35		1,500.0		2	43	1	
V-02	Vill 2	569	0.53	20.09	992,700	1,092.0	1.35		400.0			49	1	
V-03	Vill 3	386	0.57	20.05	1,181,300	1,180.0	1.95		500.0			78	1	
V-04	Vill 4	439	0.56	20.05	1,030,400	1,050.0	2.41	1	1,000.0			77	1	
V-05	Vill 5	420	0.63	20.08	1,079,200	1,096.0	1.95		150.0			78	1	
V-06	Vill 6	354	0.51	20.10	1,023,100	1,022.0	1.40		200.0			69	1	
V-07	Vill 7	410	0.57	20.12	1,086,600	1,105.0	1.50		800.0			52	1	
V-08	Vill 8	470	0.45	20.15	1,101,700	1,050.0	1.85		700.0			43		
TOTAL		4,218	8.42	160.55	8,179,500.00	8,773.00	14.00	1	5,250.00		2	497	7	
AV.P.A.V		527	0.68	20.07	1,089,037.50	1,097.63	1.75		687.35			62		

* 500km in Vill 5&7

* 1,700km in Vill 8

COMMUNE		CANTON		ACC	FARMING LEVEL		INFRASTRUCTURE					REMARK		
COM No	No. of Vill	VILLAGE	Area (km ²)		Dist (km)	Av. Annual Inc. Farmer	Cult. Area Farmer(m ²)	Ds. Cm Rd (km)	H. Cir (Qty)	Irr. C (km)	P. St (Qty)		Well (Qty)	K.G. (Qty)
V-01	Vill 8	357	0.36	21.0	891,500	560.0				1.0		61		
V-02	Vill 9	711	0.55	20.0	932,150	580.0				0.1		59		
V-03	Vill 10	696	0.72	21.0	839,970	568.0				0.6	1	82		
V-04	Vill 7	484	0.47	20.7	839,920	560.0				0.6		61		
V-05	Vill 5	662	0.68	20.0	839,920	580.0				1.2		80		
V-06	Vill 4	400	0.48	19.8	839,920	580.0			1	0.4		70		
V-07	Vill 1	544	0.55	18.0	839,920	560.0				0.1		81		
V-08	Vill 6	452	0.46	18.5	839,920	566.0				0.6		71		
V-09	Vill 3	530	0.48	20.5	766,110	560.0				0.4		80		
V-10	Vill 2	721	0.74	19.0	703,810	566.0				0.1		89		
TOTAL		5,705	8.60	198.2	8,363,162	5,681.0	0.0		1	5.1	1	756	0	
AV.P.A.V		571	0.56	19.8	836,316	568.1	0.0			0.5		76		

Table M.2.4 Communal Data (9/9)

COMMUNE		Nam Kim										REMARK
COM No.		CAGN24										
No. of Vill. :		20										
No.	VILLAGE	SIZE		ACC.	FARMING LEVEL		INFRASTRUCTURE					
		Pop.	Area (km ²)	Dist. (km)	Av. Annual Inc./Farmer	Cult. Area /Farmer(m ²)	Ds./Cm. Rd (km)	H. Ctr. (Qty)	Irr. C. (km)	P. St. (Qty)	Well (Qty)	K.G. (Qty)
V-1	Ben Lang	368	0.46	2.3	1,043,500	1,077.8	1.4		1.3	1	62	
V-2	Hau Lang	338	0.42	2.5	1,039,500	984.7	0.9		1.0	1	58	
V-3	Ha Truy	380	0.48	3.2	950,000	977.5	1.4		2.0		41	
V-4	Thuong Truy	334	0.50	2.5	1,028,625	1,054.9	1.4		1.6	1	45	
V-5	Tan Giap	536	0.64	1.5	877,785	937.4	2.1		1.6	1	52	1
V-6	Dac San	299	0.30	0.5	1,002,000	742.6	0.9		1.2		67	
V-7	Thang	371	0.58	0.5	1,427,438	658.3	2.6		2.7	1	125	
V-8	Da Loc	516	0.58	0.5	840,000	678.1	3.0		0.7		113	
V-9	Nha Hieu	397	0.43	1.5	1,020,800	658.1	1.0		1.6		108	
V-10	Thang Tang	473	0.53	1.0	1,004,988	667.3	2.8		2.5		94	
V-11	Mon Dinh	511	0.63	0.5	1,003,900	658.2	2.5		1.5		105	1
V-12	Eo Vong	820	2.34	0.5	850,000	629.9	3.5		3.8		162	
V-13	Hung Mo	675	2.00	0.5	1,002,000	647.9	2.0	1	2.6		150	
V-14	Yen Vinh	436	0.33	0.5	942,800	604.2	1.3		0.9		82	
V-15	Manh San	625	1.83	0.5	805,187	471.0	1.2		0.9		123	1
V-16	Khe Nuoc	357	0.35	0.5	876,006	691.0	1.4		0.5	1	74	1
V-17	Yen Vuc	423	0.37	1.0	892,000	693.0	1.8		0.6		75	
V-18	Thung Phum	608	1.76	1.5	805,311	477.0	2.3		0.4		55	1
V-19	Yen Ma	572	0.57	1.5	1,019,293	687.0	1.4		0.7		107	1
V-20	Dong Dai	432	1.80	2.0	1,020,000	698.0	1.7		1.0		81	1
TOTAL		9,471	16.83	25.2	19,450,345	14,694.7	35.3	1	27.6		1,806	7
AVERAGE		474	0.84	1.3	972,517	731.7	1.8		1.4		90	

Table M.2.4 Communal Data (9/9)

COMMUNE		Nam Kim		C/N/21									REMARK
COM. No.		20											
No. of Vill.		20											
No.	VILLAGE	SIZE		ACC. Dist (km)	FARMING LEVEL		INFRASTRUCTURE						
		Pop.	Area (km ²)		Ay Annual Inc Farmer	Cult Area (ha)	Ds (km)	H Cr (km)	To C (km)	P St (km)	W Cr (km)	R Cr (km)	
V-1	Tien Lang	358	0.46	2.5	1,914,390	1,971.8	1.3		1.9	1	67		
V-2	Hai Lang	338	0.42	2.5	1,039,800	984.7	0.9		1.0	1	58		
V-3	Ha Truy	360	0.48	3.2	950,000	977.5	1.4		2.0		41		
V-4	Thuong Truy	341	0.50	2.5	1,028,625	1,054.9	1.4		1.6	1	48		
V-5	Tan Giap	536	0.64	1.5	877,785	937.4	2.1		1.6	1	52	1	
V-6	Trac San	299	0.30	0.5	1,002,000	742.6	0.9		1.2		67		
V-7	Hong	571	0.58	1.5	1,427,938	658.3	2.0		2.7	1	125		
V-8	Da Loc	516	0.58	0.5	840,000	678.1	3.0		0.7		113		
V-9	Nha Hieu	397	0.43	1.5	1,020,800	658.1	1.0		1.6		138		
V-10	Doan Lang	413	0.51	1.0	1,001,000	621.1	2.0		0.9		21		
V-11	Mon Dinh	511	0.63	0.5	1,003,900	688.2	2.5		1.5		105	1	
V-12	Lo Vong	820	2.31	0.5	850,000	629.9	3.5		3.8		162		
V-13	Hang My	675	2.00	0.5	1,002,000	647.9	2.0	1	2.6		150		
V-14	Yen Vinh	436	0.33	0.5	942,800	604.2	1.3		0.9		82		
V-15	Marh San	625	1.83	0.5	805,187	471.0	1.2		0.9		43	1	
V-16	Khe Nuoc	357	0.35	0.5	876,006	691.6	1.1		0.5	1	74	1	
V-17	Yen Vuc	423	0.37	1.0	892,000	693.0	1.8		0.6		75		
V-18	Thong Tho	475	1.70	1.5	805,411	477.0	2.3		0.4		82	1	
V-19	Yen Mi	572	0.57	1.5	1,019,293	687.0	1.4		0.7		107	1	
V-20	Doan Dai	432	1.89	2.0	1,020,000	698.0	1.7		1.0		81	1	
TOTAL		9,471	16.83	25.2	19,450,345	11,694.7	35.3	1	27.6		1,806	7	
AVERAGE		474	0.84	1.3	972,517	734.7	1.8		1.4		90		

APPENDIX-M : RURAL SOCIETY AND FARM HOUSEHOLD ECONOMY

ATTACHMENT M.2.5 : Survey Procedure

SURVEY PROCEDURE

STEP 1: SELECTING VILLAGE (1)

1. make an appointment to visit a commune center
2. visit the commune center
 - 2.1 explain the purpose of our survey
 - 2.2 ask to fill "Village Information Sheet"
 - 2.3 arrange delivery of filled "Village Information Sheet"
3. obtain the filled "Village Information Sheet"
4. list all village in the commune (follow the procedure mentioned below)

STEP 2: SELECTING VILLAGE (2)

4 villages/commune

1. make an appointment to visit commune
2. visit commune center and discuss with the official personnel in the commune center regarding the village selection for the survey
3. select one (1) village which has any special characteristics if it is applicable
(ex. damaged severely by storm, having enterprise for prosperous activities or etc.)
 - 3.1 then put all village into two (3) groups
 - 3.2 select one (1) candidate village from each group
4. if special characteristics is NOT applicable, put all village into three (3) groups
 - 4.1 then select one (1) candidate village each from the upper group and the lower group
 - 4.2 then select two (2) candidate village each from the middle group
(at this stage, total of four (4) candidate villages should be selected)
5. confirm the village selection with the official personnel in the commune center
(with this confirmation, the candidate village becomes the selected village)
6. complete the "Commune Note" with the necessary information

STEP 3: SELECTING FARMERS

1. visit one of the selected village with the guidance of the official
2. discuss with a head of village (and/or elders) regarding the stratification of farmers

3. select **one or two (1 or 2) farmer** who has any special characteristics
(ex. active in special organization, agro-industry, family disaster, extremely rich/poor or etc.)
4. stratify rest of farmers into three (3) groups
5. select **representing farmers** from each group(total of **five (5) farmers** in one village)
6. complete the “**Village Note**” with the necessary information

STEP 3: INTERVIEW

5farmers/village (20farmers/commune)

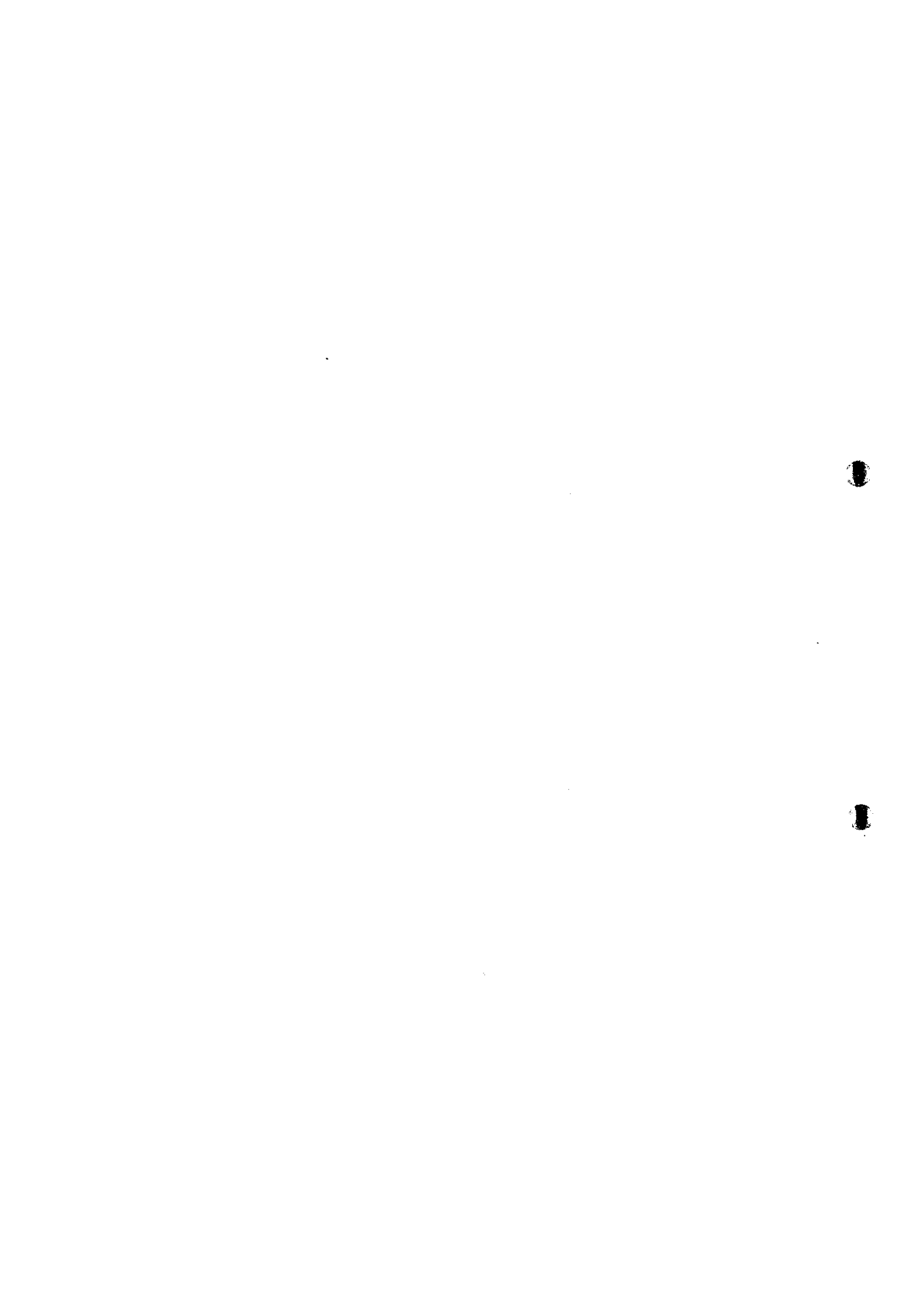
1. make appointment beforehand to visit selected farmers
2. visit each of five (5) selected farmers
3. discuss with the farmer and receive information as much as possible
(utilizing “questionnaire” prepared)
4. complete the “questionnaire”

AT THE END OF EACH DAY:

1. report to the team leader about the daily activity
2. submit filled “questionnaire”, “Commune Note”, “Village Note” and other forms containing the received information
3. discuss about the findings and other issues among the team
4. confirm the schedule for the next day

APPENDIX-M : RURAL SOCIETY AND FARM HOUSEHOLD ECONOMY

FIGURES



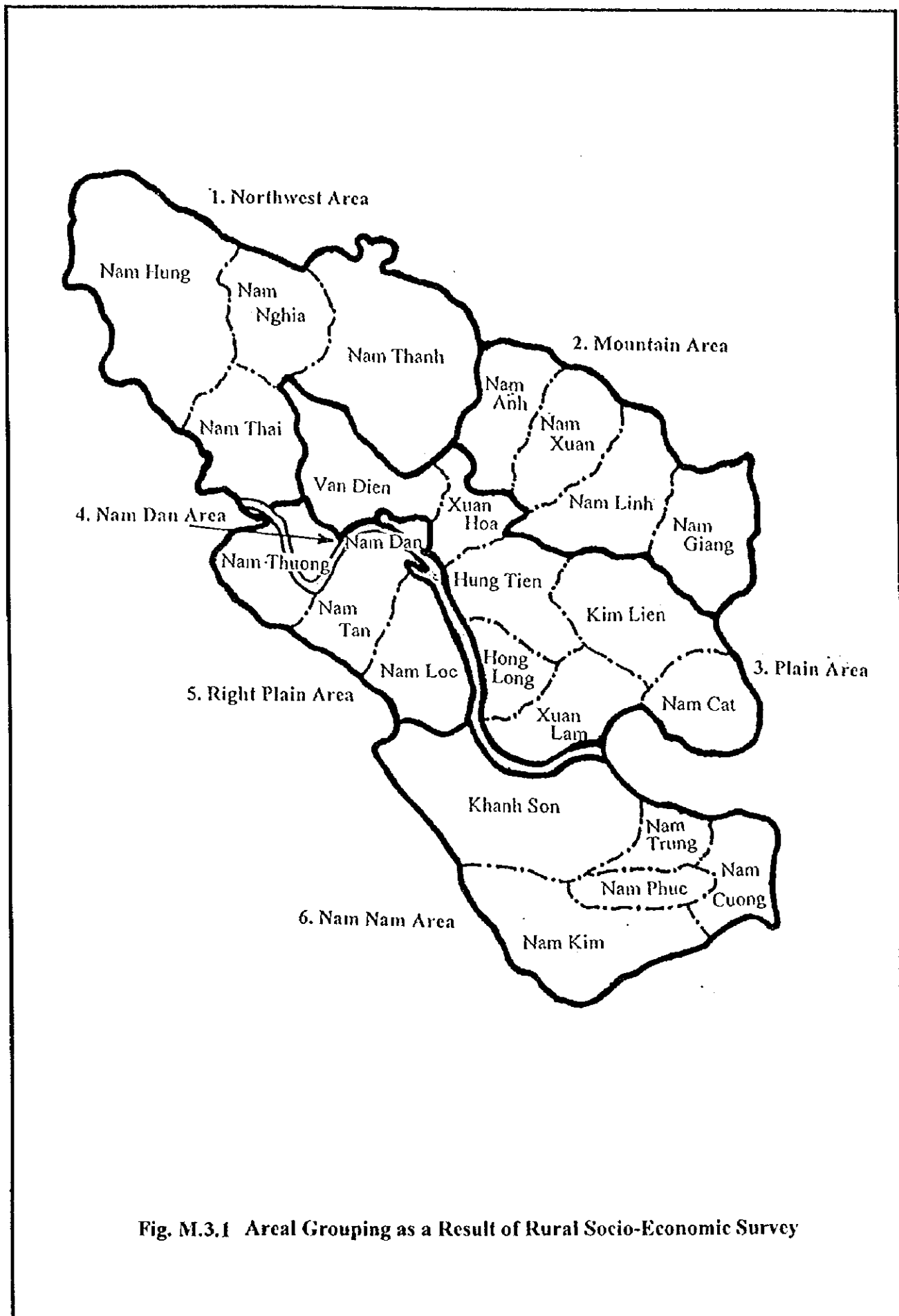
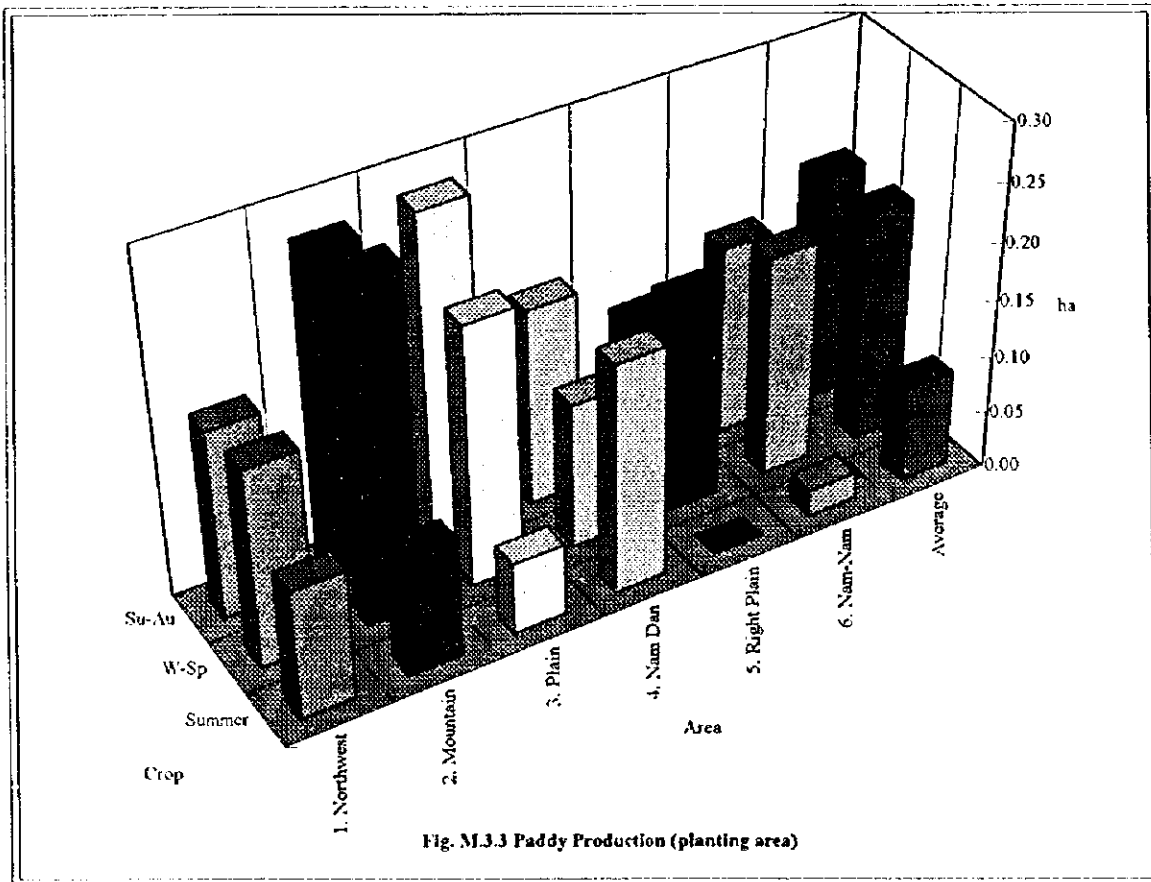
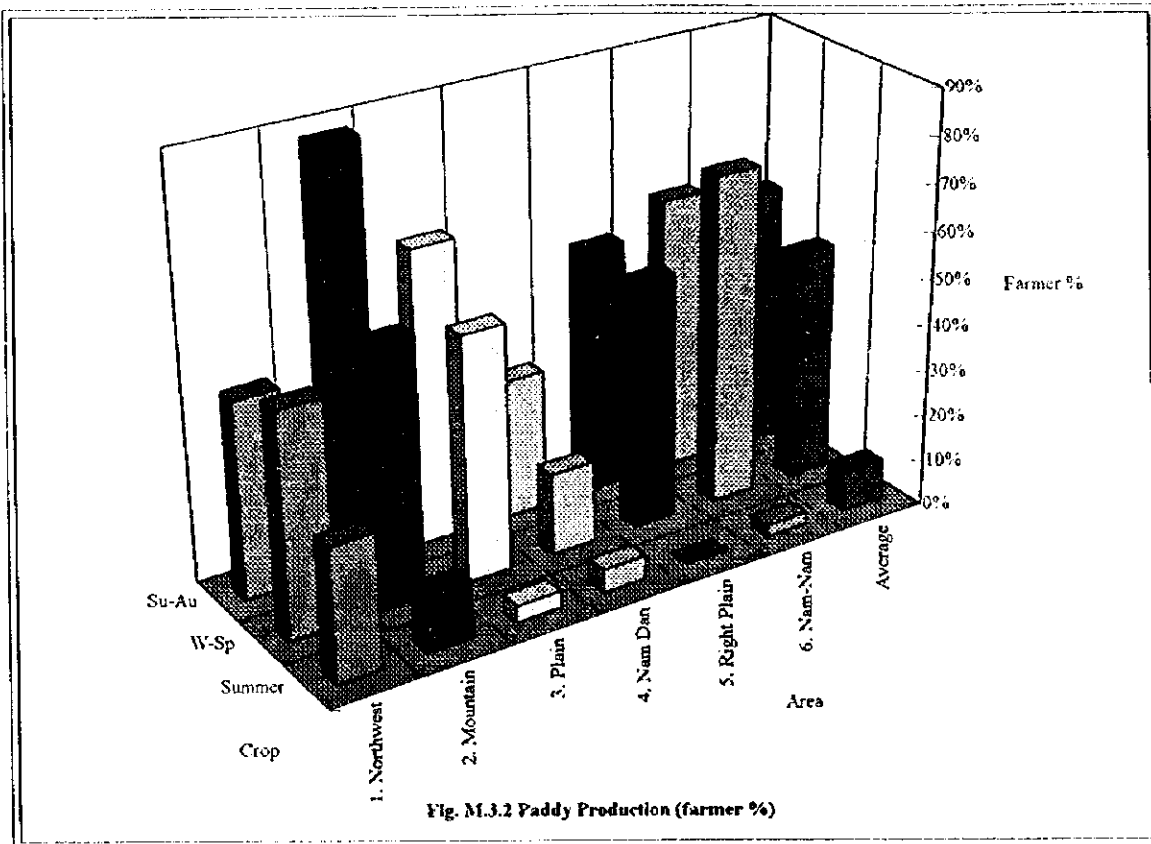
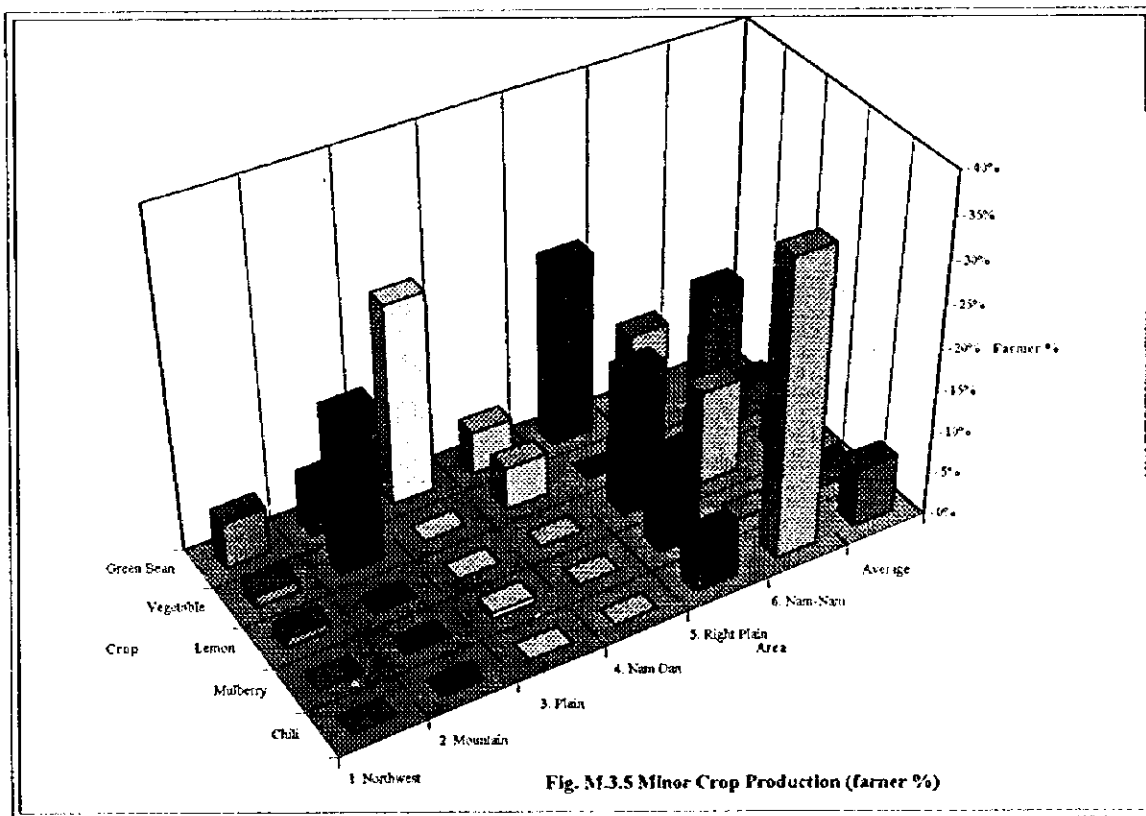
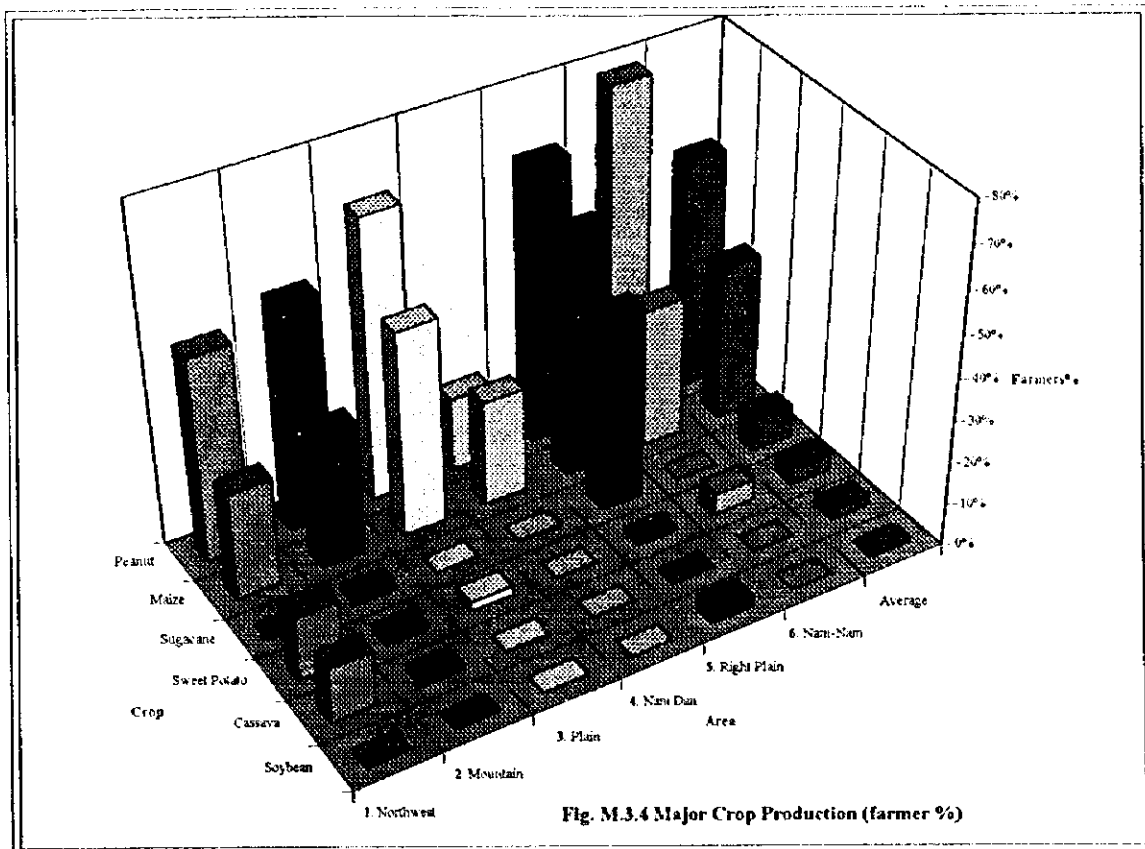
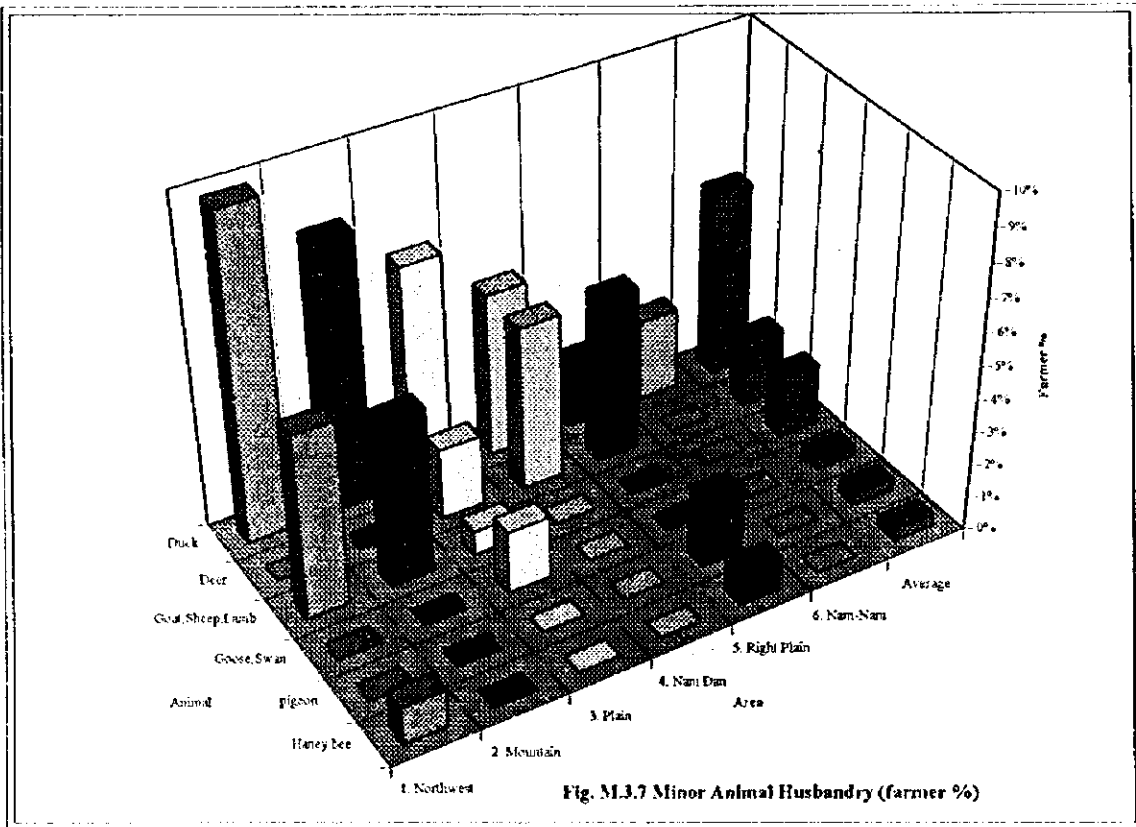
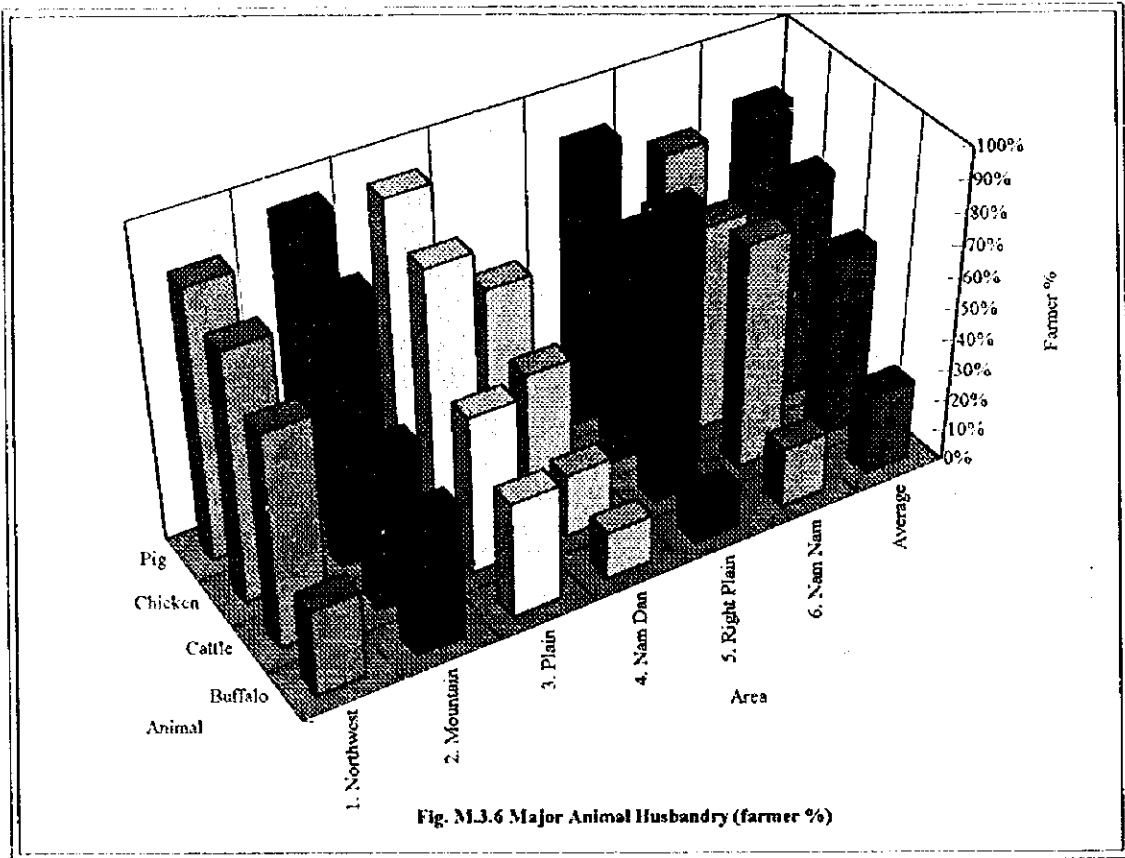


Fig. M.3.1 Areal Grouping as a Result of Rural Socio-Economic Survey







APPENDIX N : COST ESTIMATION

**THE STUDY
ON
MODEL RURAL DEVELOPMENT
IN
NAM DAN DISTRICT, NGHE AN PROVINCE**

FINAL REPORT

APPENDIX-N : COST ESTIMATION

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APPENDIX N

N.1 SUMMARY OF PROJECT COST IN MASTER PLAN

The project inventory and project cost of the Master Plan consists of A to C projects are listed in Table N.1. The total project cost of the Plan excludes price escalation is 1,035,391 million VND, and sub-total for each project group, i.e., A, B and C is 559,656 million VND, 347,988 million VND and 127,747 million VND.

N.2 CONDITION OF COST ESTIMATION

The project cost consists of construction cost, land compensation cost, material supply and equipment cost, administration cost, engineering cost, physical and economic contingency.

The project cost is estimated on the following conditions;

- The basic cost such as labor cost, material cost and construction machinery operation cost are based on the "Unit Price of Construction in Nghe An Province, the first half of 1997" and interview with construction companies in the Province.
- The requirements per unit work refer to the Vietnamese Standard issued by Ministry of Construction.
- The price of domestic materials are based on those including transportation of them on the construction sites. On the other hand, the price of imported materials are based on the material CIF price plus domestic transportation cost and tax.
- The construction cost are estimated with local and foreign components. However, the money of the Viet Nam (VND) is used for both components. The unit costs for respective work items consist of direct and indirect cost, and the indirect cost is set as 30% of the direct cost based on the analysis of interview with construction companies.
- The foreign exchange rate used is US\$ 1.00 = VND 11,700 as monthly average of the exchange rate of the Bank for Foreign Trade as of July 1997.
- The physical contingency is set as 10% of the construction cost and other cost.
- Annual increase rate of price used for estimation of economic contingency is set as below.

For the foreign currency portion, 1.8% is applied based on the annual average rate of the consumer prices index of G-7 during 1964~1996 estimated by OECD in 1997.

For the local currency portion, 8.0% is applied because the consumer prices in Viet

Nam is expected to stabilize around 8% during the period of the project implementation while the prices increased, on average, by 9.5% per year during 1994~1996 (State Bank of Viet Nam, 1997).

The labor wage and price of typical construction materials used are listed in Table N.2 and N.3. And the unit price of typical construction works are shown in Table N.4.

The work schedule of the Project applied to the cost estimation is shown in Table N.5.

N.3 PROJECT COST

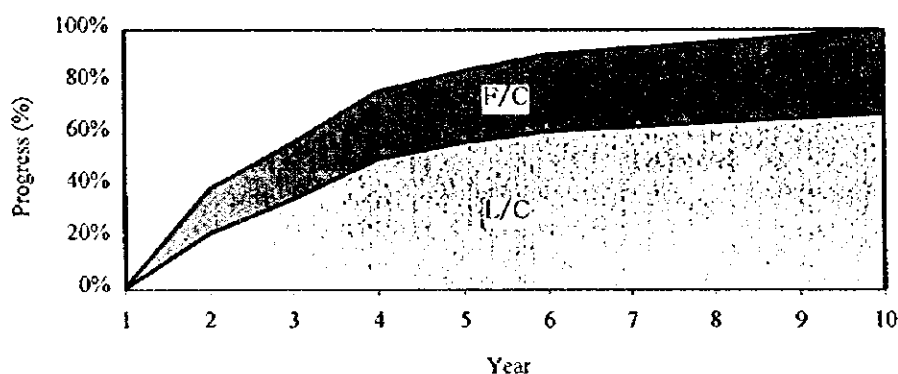
(1) Project Cost Excluding Price Escalation

The project cost excluding price escalation is estimated 464,275 million VND, in which the local currency portion is 314,170 million VND (68% of total amount) and the foreign currency portion is 150,105 million VND (32%). The cost estimation of sub-projects and components of the Project is shown in Table N.6.

(2) Disbursement Schedule

Based on the work schedule of the Project, the disbursement schedule is decided as Table N.7.

Work Schedule of the Project



(3) Price Escalation

The price escalation is estimated based on the basic condition of cost estimation and work schedule mentioned above. The amount of the price escalation is 8,459 million VND in which the local currency portion is 7,971 million VND and the foreign currency portion is 488 million VND. The detail of estimation is shown in Table N.7 also.

(4) Summary of Project Cost

The total cost of the Project including price escalation is estimated 552,436 million VND in which the local currency portion is 396,039 million VND and the foreign currency portion is 156,397 million VND. The summary of the project cost is shown in Table N.8.

N.4 O/M COST

The operation and maintenance cost of the respective sub-project and components is estimated as shown Table N.9. The cost for the initial staff training is included in the physical contingency of the project cost and the cost for regular staff training is included O/M cost in case of necessary in the Project.