

APPENDIX A
RESEARCH QUESTIONNAIRE

## Research Questionnaire

## Subject

Roles of Farmer Housewife in Decision Making Concerning Farming Through Sufficiency Economy, Chiang Mai Province

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## The Degree of Doctor of Philosophy in Agricultural Extension

 and Rural Development Faculty of Agriculture Chiang Mai UniversityDate of interview
Date $\qquad$ .Month. $\qquad$ .Year $\qquad$

Explanation Please label $\sqrt{ }$ in front of the most actual statement and fill statement in assigned blank.

## The questionnaire consists of 5 parts as follows:

Part 1 Data about general socio-economics background of farm housewives and families

Part 2 Questions concerning roles of farm housewives in the decision making on doing the sufficiency economy farming
Part 3 Questions about household agricultural activities in accordance with the sufficiency economy farming
Part 4 Questions about household well-being regarding the sufficiency economy farming

Part 5 Questions about problem and obstacle in decision making of the housewives in agricultural activities regarding the sufficiency economy farming

## Part 1 Data about general socio-economics background of farm housewives and families

1. Age $\qquad$ .Years
2. Level of education of farmer housewife
( ) Uneducated
( ) Elementary level
( ) Upper secondary level/ vocational certificate
( ) High vocational certificate
( ) Bachelor degree ( ) Higher than Bachelor degree
3. Level of education of farmer husband
( ) Uneducated () Lower than elementary level
( ) Elementary level ( ) Lower secondary level
( ) Upper secondary level/ vocational certificate
( ) High vocational certificate
( ) Bachelor degree ( ) Higher than Bachelor degree
4. Number of family members. $\qquad$ people, to be household agricultural workforces. $\qquad$ people
5. Period of marriage. $\qquad$ years
6. Number of children $\qquad$ people
7. Income of farmer housewives (monthly) $\qquad$ Baht
8. Income of farmer families (monthly)
( ) < 10,000 Baht
( ) 10,000 - 19,999 Baht
( ) 20,000-29,999 Baht
( ) 30,000-39,999 Baht
( ) 40,000-49,999 Baht ( ) $\geq 50,000$ Baht
9. Do you and your family moved the residence?
( ) Never moved ( ) Moved 1 times within 1-5 years
( ) Moved 1 times more than 5 years
10. Are you a member of any group? (eligible to answer more than 1 choice)
( ) Not a member
( ) Agricultural Cooperatives Group
( ) Agricultural Housewife Group
( ) Village Funds
( ) Bank for Agriculture and Agricultural Cooperatives
( ) Others (please specify) $\qquad$
11. How much do you play economics roles in your household?

| Economics roles in household | Levels of role taking |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very high (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very low (1) |
| 1. Family feeding |  |  |  |  |  |
| 2. Working outside |  |  |  |  |  |
| 3. Providing production factor |  |  |  |  |  |
| 4. Cost control and assets |  |  |  |  |  |
| 5. Saving what is earned |  |  |  |  |  |
| 6. Working in farm such as planting, putting fertilizers, etc. |  |  |  |  |  |
| 7. Animal husbandry |  |  |  |  |  |
| 8. Sales transaction |  |  |  |  |  |
| 9. Farm management |  |  |  |  |  |
| 10. Household bookkeeping |  |  |  |  |  |

12. How much do the power relation (patriarchy) in your family?

| Power relation (Patriarchy) | Levels of treat |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very high (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very <br> low <br> (1) |
| 1. In your family, choosing where to live or to live with whom solely depends on the husband |  |  |  |  |  |
| 2. after the marriage, farmer housewives have to use the husband' surname |  |  |  |  |  |
| 3. You cannot do anything if your husband needs to have more than 1 wife. |  |  |  |  |  |
| 4. Husband is mostly the person who make a decision in the family. |  |  |  |  |  |
| 5. When a conflict happens, you have no power in negotiating. |  |  |  | $\gamma$ |  |
| 6. Your husband hardly sees your importance in doing activities in the family. |  |  |  |  |  |
| 7. You will not let man look down upon, take advantage and be a subject of violence. |  |  | - |  |  |
| 8. In your family, the boy is given more important than the girl. |  |  | S |  |  |


| Power relation <br> (Patriarchy) | Levels of treat |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very high (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very low (1) |
| 9. In your family, the boy is inherited more assets that the girl. |  |  |  |  |  |
| 10. You and your husband helps each other doing household works. |  |  |  |  |  |
| 11. Your family offers more education opportunity to a boy than a girl. |  |  |  |  |  |
| 12 When a conflict happens, you usually lack of confidence and selfesteem. |  |  |  |  |  |
| 13. In your family, your husband is superior than you in every respect. |  |  |  |  |  |
| 14. In your family, man usually suppresses and takes advantage from woman. |  |  |  |  |  |
| 15. You agree with the proverb that "It's a sad house where the hen crows louder than the cock" |  |  |  |  |  |
| 16. In your family, husband has absolute power in teaching and punishing |  |  | $S$ |  |  |


| Power relation <br> (Patriarchy) | Levels of treat |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Very <br> high <br> (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very <br> low <br> (1) |
|  |  |  |  |  |  |
| 17.In your family, husband <br> has a role of leadership in <br> every respect. |  |  |  |  |  |
| 18.Housewives should act as a <br> person taking care of <br> husband as a major role. |  |  |  |  |  |
| 19.Lacking of social <br> opportunity is because <br> mostly you have to be <br> responsible for household <br> tasks and taking care of <br> husband and children. |  |  |  |  |  |

13. How much do you receive sufficient economics knowledge from various sources?

| Source of sufficient economics knowledge | Level of acknowledgment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very high <br> (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very low <br> (1) |
| Radio |  |  |  |  |  |
| Television |  |  | $\square$ | - |  |
| Broadcasting news tower |  |  |  |  |  |
| Newspaper |  |  |  |  |  |
| Brochure or manual |  | - | - |  | 10 |
| Internet |  | ¢ |  |  |  |
| Agricultural officer | C |  | - | ค |  |
| Neighbors |  |  |  |  |  |

## Part 2 Roles of farmer housewives decision making on doing sufficiency economy farming

How much do you play roles of decision making on doing sufficiency economy farming in your family?

| Activity | Level of roles of decision making |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very <br> high <br> (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very low (1) |
| Moderation |  |  |  |  |  |
| 1. Using existing capital and equipment in doing agriculture |  |  |  |  |  |
| 2. Using household workforces in doing things together |  |  |  |  |  |
| 3. Purchasing necessary products for their living and occupation |  |  |  |  |  |
| 4. Using compost and organic fertilizer that already contains in the soil without relying on chemicals |  |  |  |  |  |
| 5. Storing some portion of products gained for further harvest without buying more seeds |  |  | - | - |  |
| 6. Using natural enemies to prevent insect diseases instead of using too much insecticide |  | $\sigma$ |  | $e$ |  |


|  | Level of roles of decision making |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Activity | Very high (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very low (1) |
| Reasonableness |  |  |  |  |  |
| 7. Planning production based on geographical potential |  |  |  |  |  |
| 8. Planning harvest according to the need of the market |  |  |  |  |  |
| 9. Planning of land utilization for different purposes such as growing different plants in the same area |  |  |  |  |  |
| 10. Studying sufficient agricultural knowledge that is beneficial to their occupation |  |  |  |  | $0$ |
| 11. Seeking out the cause of agricultural problems such as problem of reduced productivity |  |  |  |  |  |
| Self-immunity |  |  |  |  |  |
| 12. Conducting an investment plan by prior studying its agricultural capital |  |  |  | - |  |
| 13. Saving from agricultural gain |  |  |  |  |  |
| 14. Money division for investment, consumption and saving |  | $\sigma$ |  | n |  |
| 15. Household bookkeeping |  |  | - |  |  |


|  | Level of roles of decision making |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Activity | Very high (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very low (1) |
| and daily statement for the family planning |  |  |  |  |  |
| 16. Considering possible risks such as alternative products when the main product is reduced, etc. as well as finding solution to the risks |  |  |  |  | $1$ |
| Knowledge |  |  |  |  |  |
| 17. Seeking knowledge from other sources such as TV, radio, brochure, etc. |  |  |  |  |  |
| 18. Finding a relevant book regarding agricultural knowledge |  |  |  |  |  |
| 19. Attending agriculturerelated training or seminar to enhance their knowledge of sufficient economy |  |  |  |  |  |
| 20. Finding a way to develop the career such as growing another kinds of plants or expanding harvesting area, etc. |  | $0$ |  |  |  |
| 21. Attending the meeting of the village |  |  | $\text { Q } S$ | C |  |


|  | Level of roles of decision making |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Activity | Very high (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very low (1) |
| 22. Taking an observation field to study from the successful one |  |  |  |  |  |
| Morality |  |  |  |  |  |
| 23. Not taking advantage from others by determining a proper price |  |  |  |  |  |
| 24. After spraying preservation chemicals, not early selling products which are under the restricted period |  |  |  |  |  |
| 25. Not claiming other belongings/ assets to be theirs |  |  |  |  |  |
| 26. Being generous and supporting people who are deficient |  |  |  |  |  |
| 27. Diligence in performing occupation |  |  |  |  |  |
| 28. Considering common benefits such as voluntary work of community development |  | T |  |  |  |
| 29. Leading a life on the basis of sufficiency - not exploit others |  | 0 | $\because S$ | C |  |


| Activity | Level of roles of decision making |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very | High | Moderate | Low | Very |
|  | (4) | (3) | (2) | low <br> (5) |  |

## Part 3 Household agricultural activities in accordance with the sufficiency

 economy farmingDoes your family do agricultural activities in accordance with the sufficiency economy farming?

| Activity | Yes <br> (1) | No <br> (0) | The reason if you answer "No" |
| :---: | :---: | :---: | :---: |
| Man |  |  |  |
| 1. Work division in the families |  |  |  |
| 2. Using own workforce in carrying out agricultural activities |  |  |  |
| 3. Rotating household workforces, none of them moves away to work |  |  |  |
| 4. Not employing external workforces |  |  |  |
| 5. Finding more knowledge in doing agriculture according to sufficient agriculture, in order to be apply for their farming, such as training or observation trip, etc. | $\cdots$ |  |  |
| Money |  |  |  |
| 6. Household bookkeeping for own audit |  | - |  |
| 7. Family saving |  |  | $\square$ |
| 8. Reasonable spending, not extravagant |  |  |  |
| 9. Purchasing products only necessary to their occupation |  | $\checkmark$ | $\square$ |


| Activity | Yes <br> (1) | No <br> (0) | The reason if you answer "No" |
| :---: | :---: | :---: | :---: |
| 10. If borrowing for living, family members have a plan for liquidation |  |  |  |
| Material |  |  |  |
| 11. Utilizing own material or dung for the utmost benefit such as using leaves or dung to produce compost or manure, or feeding straw to cattle, or using firewood in boiling, etc. |  |  |  |
| 12. Using animal workforces or the agricultural tools for the utmost benefits |  |  |  |
| 13. Agricultural resource circulation such as straw, paddy husk or dried grass as a cover of soil surface and using coir placed at the bottom of the hole when growing plants, or using coir when grafting, etc. |  |  |  |
| 14. Processing products or preserving it for own consumption such as sour pickling, drying out or preserving in syrup, etc. |  |  |  |
| Management |  |  |  |
| 15. Planning to use the house area for the utmost benefit |  |  |  |
| 16. Inquiring agricultural officer in the subdistrict/village for agricultural information | - |  | - |
| 17. Determining precise period of doing agriculture according to sufficient economy |  |  |  |
| 18. Conducting a plan of order of priority what is to be done first or later | $\square$ | C | - 1 / |
| 19. Considering if the ongoing agricultural |  | - | - |


| Activity | Yes <br> $\mathbf{( 1 )}$ | No <br> $\mathbf{( 0 )}$ | The reason if <br> you answer "No", |  |
| :--- | :--- | :--- | :--- | :--- |
|  | activities are based on sustainable <br> preservation and utilization |  |  |  |
| 20. | Planning by considering geographical <br> potential |  |  |  |
| 21. | Considering to risks in various aspects |  |  |  |
| 22. | Growing rice for own consumption in a <br> year |  |  |  |
| 23.Digging a pond for fishery and storing rain <br> water |  |  |  |  |
| 24.Integrated farm of vegetables, fruits and <br> herbs |  |  |  |  |
| 25. | Growing backyard garden |  |  |  |
| 26. | Feeding animal for own consumption and <br> selling |  |  |  |

## Part 4 Well-being of farmer families according to sufficiency economy

## farming

Does you family have well- being according to sufficiency economy?

| Well- being | Yes <br> $(\mathbf{1})$ | No <br> $(\mathbf{0})$ | Note |
| :--- | :--- | :--- | :--- |
| Sanitation |  |  |  |
| 1.. <br> Deprived of diseases, having good health and <br> living in non-toxic conditions |  |  |  |
| 2. Strong health being able to work regularly |  |  |  |
| 3. Cheerful and delighted states of mind |  |  |  |
| 4. Being unworried and encouraged |  |  |  |
| 5. Accessibility to public health service |  |  |  |
| Working |  |  |  |
| 6. Being able to fully take care their farms and take |  |  |  |


| Well- being | Yes <br> $\mathbf{( 1 )}$ | No <br> (0) | Note |
| :--- | :--- | :--- | :--- |
| control of agricultural activities |  |  |  |
| 7. | Reducing the risk from natural disasters such as |  |  |
| wildfire, storm, drought or flood, etc. |  |  |  |
| 8. | Good working environment |  |  |
| 9. | Having sufficient workforces |  |  |
| 10. | Having sufficient circulating funds for agriculture |  |  |
| Income |  |  |  |
| 11. | Having continuous income from agriculture |  |  |
| 12. | Having sufficient buying power for their living |  |  |
| 13. | Having reserve fund |  |  |
| 14. | Earning additional income from selling products |  |  |
| that exceed from saving for own consumption |  |  |  |
| Family life |  |  |  |
| 15. | Warm and loving family |  |  |
| 16. | Being strong and self-dependent family |  |  |
| 17. | Having sufficient basic facility in life such as TV, |  |  |
|  | vehicle, etc. |  |  |
| 18. | Family members spend more time together |  |  |
| 19. | Happy family taking care of each other |  |  |
| 20. | Making discussion among family members and |  |  |
| helping one another solving problems |  |  |  |
| Working environment |  |  |  |
| 21. | Secure shelter |  |  |
| 22. | Accessibility to sufficient public health services |  |  |
| 23. | Safety in life and property, no criminal and drugs |  |  |
| 24. | Good environment |  |  |
| 25. | Sufficient amount of consumable water |  |  |
|  |  |  |  |

## Part 5 Problems and obstacles of farmer housewives in doing agricultural activities according to sufficiency economy farming

Does your family have problems and obstacles in doing agriculture activities according to sufficiency economy farming?

| Problems and obstacles in doing agricultural activities according to sufficiency economy farming | 1- Level of problems and obstacles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very high (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very low <br> (1) |
| 1. water source is not enough to do agriculture |  |  |  |  |  |
| 2. Little amount of water in the storing pond, especially during drought season |  |  |  |  |  |
| 3. Deteriorated soil, unsuitable for Agriculture |  |  |  |  |  |
| 4. little agricultural area unsuitable to follow the principle of sufficient economy |  |  |  |  |  |
| 5. insects and pests cause damage to the farm plant |  |  | $2$ |  |  |
| 6. the cost of some production factors such as seed, fertilizer, animal feed whose price are getting skyrocketed |  |  |  |  |  |
| 7. workforces in carrying agricultural activities are insufficient |  |  |  |  |  |
| 8. no excessive production for own consumption, except from selling |  |  | $\because S$ | $\square$ |  |


| Problems and obstacles in doing agricultural activities according to sufficiency economy farming | Level of problems and obstacles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very high (5) | High <br> (4) | Moderate <br> (3) | Low <br> (2) | Very low (1) |
| 9. The price of excessive products for own consumption is low |  |  |  |  |  |
| 10. No officer gives advice about doing agriculture |  |  |  |  |  |
| 11. Others (please specify) $\qquad$ $\qquad$ $\qquad$ |  |  |  |  |  |

## APPENDIX B

RELIABILITY ANALYSIS

## Reliability of questionnaire

## Part 1 (Economics roles of farmer housewives in family)

RELIABILITY ANALYSIS-SCALE (ALPHA)

Item-Total Statistics

| Scale Mean <br> if Item | Scale Variance if <br> Item Deleted | Corrected <br> Item-Total <br> Correlation | Cronbach's <br> Alpha if Item <br> Deleted |
| ---: | ---: | ---: | ---: |
| 32.92 | 27.077 | .211 | .844 |
| 33.46 | 22.269 | .751 | .799 |
| 33.38 | 22.756 | .618 | .811 |
| 33.31 | 24.564 | .612 | .816 |
| 33.23 | 23.526 | .589 | .815 |
| 34.54 | 20.103 | .832 | .784 |
| 33.62 | 25.923 | .300 | .840 |
| 34.08 | 23.077 | .507 | .824 |
| 33.38 | 25.256 | .309 | .842 |
| 33.15 | 23.474 | .555 | .818 |

Reliability Coefficients
N of Cases $=20 \quad \mathrm{~N}$ of Items $=10$
Alpha $=.836$

## Reliability of questionnaire

## Part 1 (Power relation (patriarchy) in the family)

RELIABILITY ANALYSIS-SCALE (ALPHA)

Item-Total Statistics

|  | Scale Mean <br> if Item | Scale Variance if <br> Item Deleted | Corrected <br> Item-Total <br> Correlation | Cronbach's <br> Alpha if Item <br> Deleted |
| :--- | ---: | ---: | ---: | ---: |
|  | Deleted |  |  |  |
| PR1 | 56.90 | 47.884 | .757 | .570 |
| PR2 | 57.45 | 51.103 | .821 | .588 |
| PR3 | 56.90 | 48.621 | .665 | .580 |
| PR4 | 57.15 | 49.397 | .606 | .588 |
| PR5 | 57.45 | 48.471 | .793 | .572 |
| PR6 | 56.90 | 57.674 | .126 | .647 |
| PR7 | 56.25 | 69.145 | -.564 | .720 |
| PR8 | 57.30 | 57.695 | .118 | .648 |
| PR9 | 57.70 | 46.116 | .752 | .560 |
| PR10 | 56.90 | 65.989 | -.468 | .697 |
| PR11 | 57.95 | 47.524 | .754 | .568 |
| PR12 | 57.95 | 47.945 | .600 | .582 |
| PR13 | 57.55 | 53.945 | .297 | .628 |
| PR14 | 56.25 | 63.355 | -.235 | .696 |
| PR15 | 57.65 | 46.555 | .575 | .579 |
| PR16 | 57.45 | 51.524 | .552 | .601 |
| PR17 | 56.80 | 60.589 | -.076 | .658 |
| PR18 | 57.50 | 53.737 | .333 | .624 |
| PR19 | 56.45 | 69.945 | -.582 | .725 |
|  |  |  |  |  |

Reliability Coefficients
N of Cases $=20$
N of Items $=19$
Alpha $=.726$

## Reliability of questionnaire

## Part 1 (Sufficiency economic acknowledgement from various sources)

RELIABILITY ANALYSIS-SCALE (ALPHA)

Item-Total Statistics

| Scale Mean <br> if Item | Scale Variance if <br> Item Deleted | Corrected <br> Item-Total <br> Correlation | Cronbach's <br> Alpha if Item <br> Deleted |
| ---: | ---: | ---: | ---: |
| Deled |  | .682 | .715 |
| 23.00 | 15.263 | .668 | .729 |
| 22.90 | 16.621 | .565 | .736 |
| 22.75 | 16.197 | .118 | .825 |
| 23.40 | 18.253 | .539 | .740 |
| 23.30 | 16.116 | .659 | .716 |
| 24.50 | 14.895 | .224 | .789 |
| 22.80 | 18.379 | .568 | .734 |
| 22.85 | 15.713 |  |  |
|  |  |  |  |

N of Cases $=20 \quad \mathrm{~N}$ of Items $=8$
$\mathrm{Alpha}=.775$

## Reliability of questionnaire

## Part 2 (Roles of farmer housewives decision making on doing sufficiency economy farming)

RELIABILITYANALYSIS-SCALE (ALPHA)

Item-Total Statistics

|  | Scale Mean <br> if Item <br> Deleted | Scale Variance <br> if Item Deleted | Corrected <br> Item-Total <br> Correlation | Cronbach's <br> Alpha if Item <br> Deleted |
| :--- | ---: | ---: | ---: | ---: |
| M1 | 94.25 | 64.618 | .186 | .720 |
| M2 | 94.00 | 65.474 | .100 | .724 |
| M3 | 94.50 | 64.158 | .302 | .716 |
| M4 | 94.50 | 59.105 | .473 | .699 |
| M5 | 94.30 | 62.747 | .261 | .715 |
| M6 | 94.25 | 69.145 | -.224 | .745 |
| Re1 | 94.20 | 57.537 | .751 | .685 |
| Re2 | 94.70 | 58.326 | .615 | .691 |
| Re3 | 94.00 | 61.684 | .387 | .708 |
| Re4 | 94.70 | 61.063 | .488 | .703 |
| Re5 | 94.60 | 67.200 | -.080 | .734 |
| I1 | 95.10 | 59.042 | .438 | .701 |
| I2 | 95.05 | 55.208 | .549 | .688 |
| I3 | 95.20 | 57.958 | .550 | .693 |
| I4 | 94.45 | 62.892 | .434 | .710 |
| I5 | 94.15 | 69.503 | -.261 | .745 |
| K1 | 94.35 | 60.766 | .478 | .703 |
| K2 | 94.35 | 63.608 | .392 | .713 |
| K3 | 94.75 | 62.197 | .318 | .712 |
| K4 | 94.50 | 58.789 | .496 | .697 |
|  |  |  |  |  |


| Scale Mean | Scale Variance | Corrected | Cronbach's |
| :---: | :---: | :---: | :---: |
| if Item | if Item Deleted | Item-Total | Alpha if Item |
| Deleted |  | Correlation | Deleted |


| K5 | 94.90 | 56.411 | .649 | .684 |
| :--- | :--- | :--- | :--- | :--- |
| K6 | 94.85 | 59.924 | .436 | .703 |


| L1 | 94.30 | 62.853 | .284 | .714 |
| :--- | :--- | ---: | ---: | ---: |
| L2 | 94.10 | 69.674 | -.260 | .747 |


| L3 | 94.05 | 63.629 | .291 | .715 |
| :--- | :--- | :--- | :--- | :--- |
| L4 | 94.25 | 58.724 | .463 | .699 |

L5 93.75 $\quad 71.566 \quad-.328$. 762
L8 $93.90 \frown 67.779 \quad-.124$. 740

| L7 | 93.70 | 70.116 | -.278 | .751 |
| :--- | :--- | :--- | :--- | :--- |


| L8 94.15 | 67.818 | -.127 | .740 |
| :--- | :--- | :--- | :--- | :--- |

Reliability Coefficients
N of Cases $=20 \quad \mathrm{~N}$ of Items $=30$
Alpha $=.723$

Reliability of questionnaire
Part 5 (Problems and obstacles in doing agricultural activities according to sufficiency economy farming)

RELIABILITYANALYSIS-SCALE (ALPHA)

Item-Total Statistics

| Scale Mean <br> if Item | Scale Variance if <br> Item Deleted | Corrected <br> Item-Total | Cronbach's <br> Alpha if Item |
| ---: | ---: | ---: | ---: |
| Deleted |  |  |  |
| 31.31 | 33.429 | .424 | .863 |
| 32.13 | 26.383 | .746 | .837 |
| 31.88 | 28.783 | .717 | .840 |
| 31.75 | 31.000 | .736 | .844 |
| 31.69 | 29.963 | .702 | .843 |
| 32.94 | 27.929 | .741 | .837 |
| 32.13 | 31.050 | .531 | .856 |
| 32.38 | 32.250 | .401 | .866 |
| 31.63 | 34.917 | .157 | .882 |


| PROB1 | 31.69 | 29.029 | .669 | .846 |
| :--- | :--- | :--- | :--- | :--- |
| 0 |  |  |  |  |

Reliability Coefficients
N of Cases $=20$

$$
\mathrm{N} \text { of Items }=10
$$

Alpha $=.865$

## APPENDIX C

TABLE OF THE POPULATION SAMPLING

Table of the population sampling

| Direction | District (random sampling) | All Subdistrict | 40\% percent of the subdistrict | Sub-district (random sampling) | Village | 40\% percent of the village | Village (random ramping) | House hold | $40 \%$ of the households | Sample group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| North | Maetaeng | 13 | 5 | Kudchang | 7 | 3 | Moo 1 Baan Moengkud | 95 | 38 | 2 |
| (Include 6 <br> districts) <br> ( $40 \%$ of <br> district $=$ <br> 2 districts) |  |  |  |  |  |  | Moo 3 Baan Sobkai | 102 | 41 | 3 |
|  |  |  |  |  |  |  | Moo 5 Baan Huayhamdang | 108 | 43 | 3 |
|  |  |  |  | Maetaeng | 8 | 3 | Moo 5 Baan Teen that | 78 | 31 | 2 |
|  |  |  |  |  |  |  | Moo 1 Baan <br> Thungluang | 101 | 40 | 2 |
|  |  |  |  |  |  |  | Moo 3 Baan Maeka | 167 | 67 | 4 |
|  |  |  |  | Maehophra | 9 | 4 | Moo 1 Baan Palao | 100 | 40 | 2 |
|  |  |  |  |  |  | - | Moo 3 Baan Phueng | 178 | 71 | 4 |
|  |  |  |  |  |  |  | Moo 5 Baan Maehorphre | 193 | 77 | 5 |
|  |  |  |  |  | - |  | Moo 7 Baan Nameng | 173 | 69 | 4 |
|  |  |  |  | Baan Chang | 5 | 2 | Moo 2 Baan Kaomakha | 90 | 36 | 2 |
|  | - | 5 |  |  |  |  | Moo 5 Baan Sridongyen | 106 | 42 | 3 |
|  | - | - | - | Baan Khilek | 11 | 4 | Moo 5 Baan Jomjaeng | 157 | 63 | 4 |


| Direction | District (random sampling) | All Sub- Sustrict | $\begin{gathered} \text { 40\% } \\ \text { percent } \\ \text { of the } \\ \text { sub- } \\ \text { district } \end{gathered}$ | Sub-district (random sampling) | Village | 40\% percent of the village | $\begin{gathered} \text { Village } \\ \text { (random ramping) } \end{gathered}$ | House hold | $40 \%$ of the households | Sample group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Moo 3 Baan Dongpalun | 178 | 71 | 4 |
|  |  |  |  |  | $\bigcirc$ |  | Moo 4 Baan Nongkhong | 87 | 35 | 2 |
|  |  |  |  |  |  |  | Moo 6 Baan Rumperng | 173 | 69 | 4 |
|  | Chaiprakarn | 4 | 2 | Mae Taolp | 6 | 2 | Moo 1 Baan Maetolop | 303 | 121 | 7 |
|  |  |  |  |  |  |  | Moo 3 Baan Pa Ngew | 163 | 65 | 4 |
|  |  |  |  | Pongtum | 8 | 3 | Moo 1 Baan Pongtam | 15 | 6 | 1 |
|  |  |  |  |  |  |  | Moo 2 Baan Tha | 69 | 28 | 2 |
|  |  |  |  |  |  |  | Moo 3 Baan Pangkwai | 20 | 8 | 1 |
| South | Sanpatong | 11 | 4 | Sankang | 9 | 4 | Moo 1 Baan Tungor | 130 | 52 | 3 |
| (Include 7 <br> districts) <br> (40\% of <br> district $=$ |  |  |  |  |  |  | Moo 3 Baan Klang | 165 | 66 | 4 |
|  |  |  |  |  |  |  | Moo 5 Baan Huaysom | 89 | 36 | 2 |
|  |  |  | $\cdots$ |  |  |  | Moo 7 Baan Tharuamchai | 54 | 22 | 1 |
|  |  |  | - | Namborluang | 11 | 4 | Moo 2 Baan Namborluang | 235 | 94 | 6 |


| Direction | District (random sampling) | All Subdistrict | $\begin{gathered} \text { 40\% } \\ \text { percent } \\ \text { of the } \\ \text { sub- } \\ \text { district } \end{gathered}$ | Sub-district (random sampling) | Village | $40 \%$ <br> percent of the village | Village (random ramping) | House hold | $40 \%$ of the households | Sample group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 districts) |  |  |  |  | $\square$ |  | Moo 3 Baan Phaesunmai | 89 | 36 | 2 |
|  |  |  |  |  | ¢ |  | Moo 5 Baan Nongha | 128 | 51 | 3 |
|  |  |  |  |  |  |  | Moo 7 Bann Huafai | 73 | 29 | 2 |
|  |  |  |  | Makhunwan | 7 | 3 | Moo 1 Baan Sansai | 168 | 67 | 4 |
|  |  |  |  |  |  |  | Moo 2 Baan Khunkhong | 141 | 56 | 3 |
|  |  |  |  |  |  |  | Baan Dongpasang | 228 | 91 | 6 |
|  |  |  |  | Makhamluang | 6 | 2 | Moo 1 Baan Kuan | 216 | 86 | 5 |
|  |  |  |  |  | Sumb | $0$ | Moo 9 Baan Dong Khilek | 183 | 73 | 4 |
|  | Omkoi | 6 | 2 | Sobkhong | 12 | 5 | Moo 1 Baan Thorkai | 96 | 38 | 2 |
|  |  |  |  |  |  |  | Moo 3 Baan Mae Longluang | 95 | 38 | 2 |
|  |  |  |  |  |  |  | Moo 6 Baan U-jae | 44 | 18 | 1 |
|  | - | - | $\square$ |  |  |  | Moo 7 Baan Hvayyao | 34 | 14 | 1 |
|  |  |  | - | - |  | - | Moo 9 Baan Mae Ngao | 95 | 38 | 2 |


| Direction | District (random sampling) | All Subdistrict | $\begin{gathered} \text { 40\% } \\ \text { percent } \\ \text { of the } \\ \text { sub- } \\ \text { district } \end{gathered}$ | Sub-district (random sampling) | Village | 40\% percent of the village | Village (random ramping) | House hold | $40 \%$ of the households | Sample group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Nakian | 21 | 8 | Moo 20 Baan Kongpor Nue | 50 | 20 | 1 |
|  |  |  |  |  | a |  | Moo 3 Baan Naklan | 50 | 20 | 1 |
|  |  |  |  |  |  |  | Moo 4 Baan Baina | 80 | 32 | 2 |
|  |  |  |  |  |  |  | Moo 10 Baan Phipan | 64 | 26 | 2 |
|  |  |  |  |  |  |  | Moo 15 Bann Maekerb | 16 | 6 | 1 |
|  |  |  |  |  |  |  | Moo 2 Baan Maekhong | 106 | 42 | 3 |
|  |  |  |  |  |  |  | Moo 8 Baan Maelog | 83 | 33 | 2 |
|  |  |  |  |  |  |  | Moo 1 Baan Maehong | 60 | 24 | 1 |
|  | Doi Tao | 6 | 2 | Doi Tao | 10 | 4 | Moo 4 Baan Chimpee | 184 | 74 | 5 |
|  |  |  |  |  |  |  | Moo 3 Baan Doi Tao | 200 | 80 | 5 |
|  |  |  |  |  | $\cdots$ |  | Moo 1 Baan Thinsumrar | 213 | 85 | 5 |
|  |  |  | e |  |  |  | Moo 9 Baan Thung Dogchang | 48 | 19 | 1 |
|  | $\square$ | $\bigcirc$ | - | BongTan | 7 | 3 | Moo 5 Baan Bongtan | 355 | 142 | 9 |


| Direction | District (random sampling) | All Subdistrict | $\begin{aligned} & \text { 40\% } \\ & \text { percent } \\ & \text { of the } \\ & \text { sub- } \\ & \text { district } \end{aligned}$ | Sub-district (random sampling) | Village | $\begin{gathered} \text { 40\% } \\ \text { percent } \\ \text { of the } \\ \text { village } \end{gathered}$ | Village (random ramping) | House hold | $40 \%$ of the households | Sample group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Moo 3 Baam Nongpu | 332 | 133 | 8 |
|  |  | cil |  |  | a> |  | Moo 4 Baan Nongphakbung | 167 | 67 | 4 |
| East | Sansai | 12 | 5 | Paphai | 17 | 7 | Moo 15 Baan Kasetphattana | 133 | 53 | 3 |
| (Include 6 districts) (40\% of District $=2$ districts) |  |  |  |  |  |  | Moo 11 Baan Thayang | 79 | 32 | 2 |
|  |  |  |  |  |  |  | Moo 3 Baan Paphai | 175 | 70 | 4 |
|  |  |  |  |  |  |  | Moo 6 Baan Pong | 164 | 66 | 4 |
|  |  |  |  |  |  |  | Moo 1 Baan Moengkhon | 222 | 89 | 5 |
|  |  |  | - |  |  |  | Moo 7 Baan Sriboonroeng | 144 | 58 | 4 |
|  |  |  |  |  |  |  | Moo 8 Baan Sriwangtharn | 197 | 79 | 5 |
|  |  |  |  | Maefaek | 12 | 5 | Moo 2 Baan Pong | 314 | 126 | 8 |
|  |  |  | - |  |  |  | Moo6 Baan Maetae | 188 | 75 | 5 |
|  | - | - | - | $\bigcirc$ - | T 0 | - | Moo 4 Baan Rp,;iamg | 119 | 48 | 3 |


| Direction | District (random sampling) | All Subdistrict | $\begin{aligned} & \text { 40\% } \\ & \text { percent } \\ & \text { of the } \\ & \text { sub- } \\ & \text { district } \end{aligned}$ | Sub-district (random sampling) | Village | $40 \%$ <br> percent of the village | Village (random ramping) | House hold | $40 \%$ of the households | Sample group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Moo 5 Sri Ngarm | 183 | 73 | 4 |
|  |  |  |  |  |  |  | Moo 7 Baan Sahakorn | 146 | 58 | 4 |
|  |  |  |  | Nongharn | 11 | 4 | Moo 10 Baan Kasetmai | 60 | 24 | 1 |
|  |  |  |  |  |  |  | Moo 13 Baan Doinoi | 128 | 51 | 3 |
|  |  |  |  |  |  |  | Moo 8 Baan Wiweg | 150 | 60 | 4 |
|  |  |  |  |  |  |  | Moo 7 Baan Nongharn | 199 | 80 | 5 |
|  |  |  |  | Sanpapao | 6 | 2 | Moo 2 Baan Pakang | 164 | 66 | 4 |
|  |  |  |  |  |  |  | Moo 6 Baan Phayak Noi | 126 | 50 | 3 |
|  |  |  |  | Sanphranet | 7 | 3 | Moo 7 Baan Thathum | 85 | 34 | 2 |
|  |  |  |  |  |  |  | Moo 3 Baan Paphai | 173 | 69 | 4 |
|  |  |  |  |  | , |  | Moo 6 Baan Mae Yoison | 149 | 60 | 4 |
|  | Saraphi | 12 | 5 | Khuamoong | 10 | 4 | Moo 5 Baan Khuamoong | 153 | 61 | 4 |
|  | $\bigcirc$ |  | C- |  |  |  | Moo 10 Baan Doengtai | 111 | 44 | 3 |


| Direction | District (random sampling) | All Subdistrict | $\begin{aligned} & \text { 40\% } \\ & \text { percent } \\ & \text { of the } \\ & \text { sub- } \\ & \text { district } \end{aligned}$ | Sub-district (random sampling) | Village | $40 \%$ <br> percent of the village | Village (random ramping) | House hold | $40 \%$ of the households | Sample group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Moo 4 Baan Thama-O | 129 | 52 | 3 |
|  |  |  |  |  |  |  | Moo 3 Baan Pakmoeng | 82 | 33 | 2 |
|  |  |  |  | Chomphu | 9 | 4 | Moo 4 Baan Thatonkwao | 334 | 134 | 8 |
|  |  |  |  |  |  |  | Moo 5 Baan Thungkhisue | 160 | 64 | 4 |
|  |  |  |  |  |  |  | Moo 6 Baan Bubpharam | 202 | 81 | 5 |
|  |  |  |  |  |  |  | Moo 1 Baan Nong Papaosae | 110 | 44 | 3 |
|  |  |  |  | Nongphueng | 8 | 3 | Moo 6 Baan Kongsai | 319 | 128 | 8 |
|  |  |  |  |  | $\square$ |  | Moo 2 Baan Chiangsaen Noi | 249 | 100 | 6 |
|  |  |  |  | - |  |  | Moo 7 Baan Paket Thee | 202 | 81 | 5 |
|  |  |  |  | Nongfaek | 9 | - 4 | Moo 6 Baan Kudaeng | 126 | 50 | 3 |
|  |  |  |  |  |  |  | Moo 8 Baan Sunpadue | 188 | 75 | 5 |
|  | - | - | - | - |  |  | Moo 2 Baan Sanjpasak | 153 | 61 | 4 |
|  |  |  |  |  |  |  | Moo 3 Baan Nongfaek | 112 | 45 | 3 |


| Direction | District (random sampling) | All <br> Subdistrict | $\begin{gathered} \text { 40\% } \\ \text { percent } \\ \text { of the } \\ \text { sub- } \\ \text { district } \end{gathered}$ | Sub-district (random sampling) | Village | $40 \%$ <br> percent of the village | Village (random ramping) | House hold | $40 \%$ of the households | Sample group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Thakwang | 7 | 3 | Moo 3 Baan Kwae | 154 | 62 | 4 |
|  |  |  |  |  |  |  | Moo 6 Baan Kwae Tun | 103 | 41 | 3 |
|  |  |  |  |  |  |  | Moo 2 Baan Nongpong | 115 | 46 | 3 |
| West | Maejaem | 10 | 4 | Kongkhaek | 11 | 4 | Moo 11 Baan Kongkhaektai | 126 | 50 | 3 |
| (Include 4 districts) (40\% of district $=$ 2 districts) |  |  |  |  |  |  | Moo 9 Baan Phaphueng | 81 | 32 | 2 |
|  |  |  |  |  |  |  | Moo 6 Baan Buangluang | 111 | 44 | 3 |
|  |  |  |  |  |  |  | Moo 8 Baan Ommeng | 154 | 62 | 4 |
|  |  |  |  | Thapha | 9 | 4 | Moo 5 Baan Thap | 58 | 23 | 1 |
|  |  |  |  |  |  |  | Moo 9 Baan Naroen | 70 | 28 | 2 |
|  |  |  |  |  |  |  | Moo 4 Baan Padaed | 137 | 55 | 3 |
|  |  |  |  |  |  |  | Moo 2 Baan Phanang | 71 | 28 | 2 |
|  |  |  | $\square$ | Baan Chan | 6 | 2 | Moo 7 Baan Den | 80 | 32 | 2 |
|  | - |  | - |  |  |  | Moo 3 Baan Wat Chan | 76 | 30 | 2 |


| Direction | District (random sampling) | All Subdistrict | 40\% <br> percent of the subdistrict | Sub-district (random sampling) | Village | $40 \%$ <br> percent of the village | Village (random ramping) | House hold | $40 \%$ of the households | Sample group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Mae Daed | 7 | 3 | Moo 6 Baan Dong Sammuen | 43 | 17 | 1 |
|  |  |  |  |  |  |  | Moo 2 Baan Maetala | 71 | 28 | 2 |
|  |  |  |  |  |  |  | Moo 1 Baan Maephapu | 78 | 31 | 2 |
|  | Samerng | 5 | 2 | Borkaew | 10 | 4 | Moo 5 Baan Borkaew | 176 | 70 | 4 |
|  |  |  |  |  |  |  | Moo 1 Baan Huay Mana | 191 | 76 | 5 |
|  |  |  |  |  |  |  | Moo 3 Baan Mae Khape | 101 | 40 | 2 |
|  |  |  |  |  |  |  | Moo 2 Baan Mae To | 91 | 36 | 2 |
|  |  |  |  | Samerng | 6 | 2 | Moo 5 Baan Pok | 234 | 94 | 6 |
|  |  |  |  |  |  |  | Moo 2 Baan Maephae | 103 | 41 | 3 |
|  | 9 districts | $79 \text { sub- }$ <br> districts | 31 subdistricts |  | $282$ <br> villages | $\begin{gathered} 112 \\ \text { villages } \end{gathered}$ |  | $\begin{gathered} \text { 15,279 } \\ \text { households } \end{gathered}$ | $\begin{gathered} \mathbf{6 , 1 1 2} \\ \text { households } \end{gathered}$ | $375$ samples |

Source: Community Information (2009)

## CURRICULUM VITAE



