

APPENDIX

RICE PRODUCTION MEASUREMENT AND ANALYSIS SURVEY QUESTIONNAIRE

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Questionnaire Number R \_\_\_\_//\_\_\_\_/\_\_\_\_/\_\_\_\_

Research Project

Rice Production Measurement and Analysis in the Project Areas of  
the Thai-German Highland Development Programme

by

The Research and Development Center, Payap University

1. Area

\_\_\_ Tambon Wawi - Chiang Rai Province

--- Nam Lang - Mae Hongson Province

2. Village \_\_\_\_\_ Elevation \_\_\_\_\_ Meters

3. Farmer's Name \_\_\_\_\_

4. Age \_\_\_\_\_ Years

5. Education (specify level)

\_\_\_ None

\_\_\_ Less than 4 years

\_\_\_ 4 Years

\_\_\_ More than 4 years

6. Ethnic group

\_\_\_ Lisu

\_\_\_ Lahu

\_\_\_ Akha

\_\_\_ Thai Yai

\_\_\_ Karen

\_\_\_ Thai

\_\_\_ Other \_\_\_\_\_

7. Did you receive training on upland rice from:
- \_\_\_ Hilltribe Development and Welfare Center
- \_\_\_ Provincial Agriculture Office
- \_\_\_ Did not receive training (skip to question 11)
- \_\_\_ Other (specify) \_\_\_\_\_
8. Location of training \_\_\_\_\_
- Day, month, year of training \_\_\_\_\_
9. What assistance did you receive from TG-HDP or extension officials?
- \_\_\_ Seed Amount received \_\_\_ kg. or specify units
- \_\_\_ Fertilizer Amount received \_\_\_ kg. or specify units
- \_\_\_ Pesticide Amount received \_\_\_ bottles/packages
- \_\_\_ Other (specify) \_\_\_\_\_
10. Number of fields and area planted to rice received from TG-HDP or extension officials.
- \_\_\_ Plot 1 Area \_\_\_\_\_ rai or specify units
- \_\_\_ Plot 2 Area \_\_\_\_\_ rai or specify units
- \_\_\_ Plot 3 Area \_\_\_\_\_ rai or specify units
- (Note: If rice from TG-HDP was planted in more than one field, select one field and go to that field with the farmer to see if he make use of TG-HDP provided assistance. Write the results on this form.)
11. What variety of rice did you plant (specify) \_\_\_\_\_
12. What crops did you plant in this field and when
- \_\_\_ This year (1986) First crop \_\_\_\_\_
- \_\_\_ Last year (1985) First crop \_\_\_\_\_ Second Crop \_\_\_\_\_
- \_\_\_ 2 years ago First crop \_\_\_\_\_ Second Crop \_\_\_\_\_
- \_\_\_ 3 years ago First crop \_\_\_\_\_ Second Crop \_\_\_\_\_

13. Double check the year in which the selected field was first planted

- This year (1986)       Last year (1985)  
 2 years ago (1984)     3 years ago (1983)  
 4 years ago (1982)     5 years ago (1981)  
 6 years ago (1980)     More than 6 years ago

14. Please specify the day, month and year of planting \_\_\_\_\_

15. What planting method did you use

- Planted according to advice provided by the project or extension officials.  
 Planted using traditional methods.

16. Did you use fertilizer on the field

- Yes       No

17. What fertilizing method did you use

- Applied before planting in holes or rows  
 Applied at time of sowing seeds  
 Applied after sowing and covering seeds  
 Applied \_\_\_\_\_ days after planting  
 Broadcast fertilizer

18. After planting, how many times did you weed and what weeding method did you use

a.  First time \_\_\_\_\_ days after planting

\_\_\_\_\_ Tools used

b.  Second time \_\_\_\_\_ days after first weeding

\_\_\_\_\_ Tools used

c.  Third time \_\_\_\_\_ days after second weeding

\_\_\_\_\_ Tools used

19. Do you have problems with pests or disease in your rice fields

Yes  No

If yes, please explain the nature of the problems

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20. Did you use insecticide or pesticide while the rice was growing

Yes  No

a. If yes, what did you use (specify) \_\_\_\_\_

b. If yes, did you receive assistance from TG-HDP on how to use the pesticides

Yes  No

c. If yes, where did you obtain the pesticide

Extension official

Purchased from merchant

From neighbor

21. (Ask only farmers who did not receive training.) Do you know of the rice production extension activity of TG-HDP or agricultural extension agent.

Yes  No

Remarks (If know) \_\_\_\_\_

22. Please compare rice yields from TG-HDP promoted rice varieties and yields from local variety rice. How do they differ.

TG-HDP yields higher

Equal

TG-HDP yields lower

Remarks (if any) \_\_\_\_\_

23. Would you like to exchange your rice seed for the rice variety promoted by TG-HDP or extension officials
- \_\_\_ Yes, because (specify reason) \_\_\_\_\_
- \_\_\_ No, because (specify reason) \_\_\_\_\_
24. If you receive rice seed from TG-HDP or extension officials will you buy fertilizer for your field or not.
- \_\_\_ Yes, because (specify reason) \_\_\_\_\_
- \_\_\_ No, because (specify reason) \_\_\_\_\_
25. If yes, where would you buy the fertilizer (specify)
- \_\_\_\_\_
26. Do you feel that advice from TG-HDP is valuable.
- \_\_\_ Yes, because (specify reason) \_\_\_\_\_
- \_\_\_ No, because (specify reason) \_\_\_\_\_

PART 2. FIELD OBSERVATIONS AND ACTIVITIES

27. Characteristics of rice production

a. Plot 1

- |   |                                       |
|---|---------------------------------------|
| <input type="checkbox"/> Flat             | <input type="checkbox"/> Slight slope |
| <input type="checkbox"/> Moderate slope   | <input type="checkbox"/> Steep slope  |
| <input type="checkbox"/> Very steep slope |                                       |

b. Plot 2

- |   |                                       |
|---|---------------------------------------|
| <input type="checkbox"/> Flat             | <input type="checkbox"/> Slight slope |
| <input type="checkbox"/> Moderate slope   | <input type="checkbox"/> Steep slope  |
| <input type="checkbox"/> Very steep slope |                                       |

c. Plot 3

- |   |                                       |
|---|---------------------------------------|
| <input type="checkbox"/> Flat             | <input type="checkbox"/> Slight slope |
| <input type="checkbox"/> Moderate slope   | <input type="checkbox"/> Steep slope  |
| <input type="checkbox"/> Very steep slope |                                       |

28. Mark off 3 square plots each 5 by 5 meters. Select plots which are representative of the entire field, not exceptionally good or bad. Indicate date date measurement made \_\_\_\_\_

29. Evaluate the degree of weed infestation in each plot

- |        |                               |                                   |                                 |
|--------|-------------------------------|-----------------------------------|---------------------------------|
| Plot 1 | <input type="checkbox"/> High | <input type="checkbox"/> Moderate | <input type="checkbox"/> Little |
| Plot 2 | <input type="checkbox"/> High | <input type="checkbox"/> Moderate | <input type="checkbox"/> Little |
| Plot 3 | <input type="checkbox"/> High | <input type="checkbox"/> Moderate | <input type="checkbox"/> Little |

30. Are there other crops intercropped with rice in the plots

Plot 1  Yes      If yes, specify crops \_\_\_\_\_

No

Plot 2  Yes      If yes, specify crops \_\_\_\_\_

No

Plot 3  Yes      If yes, specify crops \_\_\_\_\_

No

31. In each 5 by 5 meter square plot mark off a 1 by 1 meter square and make the following measurements

a. If planted in holes/hills, how many clumps are there

Plot 1  clumps

Plot 2  clumps

Plot 3  clumps

b. Measure the height of rice stalks (select 10 per plot)

Plot 1 \_\_\_\_\_

\_\_\_\_\_

Plot 2 \_\_\_\_\_

\_\_\_\_\_

Plot 3 \_\_\_\_\_

\_\_\_\_\_

After harvesting the rice from each plot, put it into separate bags and label each bag as follows

- Name of the farmer who owns the field
- Number of the questionnaire form
- Number of the 5 by 5 meter plot
- Day, month and year rice was harvested
- Name of the enumerator

Survey team members should check questionnaires for accuracy and completeness then sign the form.

Name \_\_\_\_\_

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

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## MEASURED RICE YIELD PER RAI (TG-HDP PROMOTED VARIETY RICE)

| Value | Frequency | Percent |
|-------|-----------|---------|
| 86    | 2         | 1.0     |
| 97    | 2         | 1.0     |
| 125   | 2         | 1.0     |
| 142   | 2         | 1.0     |
| 143   | 2         | 1.0     |
| 165   | 2         | 1.0     |
| 188   | 2         | 1.0     |
| 215   | 2         | 1.0     |
| 235   | 2         | 1.0     |
| TOTAL | 18        | 100.0   |

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MEASURED RICE YIELD PER RAI (LOCAL VARIETY RICE)

| Value | Frequency | Percent |
|-------|-----------|---------|
| 38    | 1         | .9      |
| 83    | 1         | .9      |
| 107   | 1         | .9      |
| 113   | 1         | .9      |
| 117   | 1         | .9      |
| 119   | 2         | 1.9     |
| 126   | 1         | .9      |
| 128   | 1         | .9      |
| 130   | 2         | 1.9     |
| 139   | 2         | 1.9     |
| 141   | 2         | 1.9     |
| 143   | 1         | .9      |
| 145   | 1         | .9      |
| 147   | 1         | .9      |
| 151   | 1         | .9      |
| 169   | 1         | .9      |
| 171   | 2         | 1.9     |
| 173   | 2         | 1.9     |
| 177   | 1         | .9      |
| 183   | 1         | .9      |
| 186   | 1         | .9      |
| 188   | 1         | .9      |
| 190   | 1         | .9      |
| 196   | 1         | .9      |
| 198   | 1         | .9      |
| 201   | 1         | .9      |
| 209   | 2         | 1.9     |
| 215   | 1         | .9      |
| 220   | 1         | .9      |
| 222   | 1         | .9      |
| 224   | 1         | .9      |
| 226   | 1         | .9      |
| 230   | 1         | .9      |
| 233   | 3         | 2.8     |
| 235   | 1         | .9      |
| 237   | 1         | .9      |
| 245   | 3         | 2.8     |
| 256   | 1         | .9      |
| 265   | 1         | .9      |
| 269   | 1         | .9      |
| 273   | 1         | .9      |
| 275   | 1         | .9      |
| 279   | 2         | 1.9     |
| 282   | 1         | .9      |
| 284   | 1         | .9      |
| 286   | 2         | 1.9     |
| 288   | 2         | 1.9     |
| 290   | 1         | .9      |
| 305   | 1         | .9      |

MEASURED RICE YIELD PER RAI (LOCAL VARIETY RICE) (continued)

|       |    |       |
|-------|----|-------|
| 309   | 1  | .9    |
| 311   | 3  | 2.8   |
| 314   | 2  | 1.9   |
| 318   | 1  | .9    |
| 322   | 1  | .9    |
| 329   | 1  | .9    |
| 331   | 1  | .9    |
| 337   | 1  | .9    |
| 341   | 2  | 1.9   |
| 343   | 1  | .9    |
| 346   | 1  | .9    |
| 350   | 1  | .9    |
| 358   | 1  | .9    |
| 361   | 1  | .9    |
| 363   | 1  | .9    |
| 371   | 1  | .9    |
| 378   | 1  | .9    |
| 380   | 2  | 1.9   |
| 382   | 1  | .9    |
| 388   | 1  | .9    |
| 393   | 1  | .9    |
| 395   | 1  | .9    |
| 403   | 1  | .9    |
| 410   | 1  | .9    |
| 422   | 1  | .9    |
| 425   | 1  | .9    |
| 446   | 1  | .9    |
| 461   | 1  | .9    |
| 636   | 1  | .9    |
| 868   | 1  | .9    |
| TOTAL | 98 | 100.0 |