

## Appendix

### Appendix A Farmers' interview form

Date.....

Interview number (vv/ss/hhh).....

vv = assigned village no.  
ss = Sample no. in village  
hhh = actual house no.

1. Respondent's First Name....., Family Name.....  
Age....., Education level....., Ethnic group....., Birth Place.....

2. Name of spouse....., Family Name..... Ethnic group.....  
Origins: [ ] original, [ ] migrated, if migrant, name of original.....  
Village....., district....., Province.....  
Year migrated.....

3. Household members....., Female....., laborers..... Female.....

4. Farmer status.....  
 Wealthier than village average       Average for village  
 Poorer than village

5. Type of on- farm work .....and timing .....  
.....and timing .....  
.....and timing .....  
.....and timing .....  
.....and timing .....

6. Type of Off-farm work .....and timing .....  
.....and timing .....  
.....and timing.....

7. Rice farming from 2005:  
○ Upland rice, total rice variety.....varieties  
Name of most popular varieties:  
1.....How much (seed).....kg; yield.....  
2.....How much (seed).....kg; yield.....  
3.....How much (seed).....kg; yield.....  
4.....How much (seed).....kg; yield.....  
5.....How much (seed).....kg; yield.....  
➤ Paddy field, total rice variety.....varieties  
Name of most popular varieties:  
1.....How much (seed).....kg; yield.....  
2.....How much (seed).....kg; yield.....  
3.....How much (seed).....kg; yield.....

➤ How many months can you feed your self and your family from the food grains grown in your farm? \_\_\_\_\_ Months; yield from upland rice \_\_\_\_\_%; yield from paddy rice \_\_\_\_\_%

- Where do you get funds to purchase food grains?
- Crop sale
  - Agriculture wage employment
  - Livestock sale
  - Vegetable sale
  - Sale of forest products
  - Non-farm sources
  - Others, specify

8. Rice farming from 2006:

- Upland rice, total rice variety.....varieties  
 Name of most popular varieties:  
 1.....How much (seed).....kg; yield.....  
 2.....How much (seed).....kg; yield.....  
 3.....How much (seed).....kg; yield.....  
 4.....How much (seed).....kg; yield.....  
 5.....How much (seed).....kg; yield.....

- Paddy field, total rice variety.....varieties  
 Name of most popular varieties:  
 1.....How much (seed).....kg; yield.....  
 2.....How much (seed).....kg; yield.....  
 3.....How much (seed).....kg; yield.....

➤ How many months can you feed your self and your family from the food grains grown in your farm? \_\_\_\_\_ Months; yield from upland rice \_\_\_\_\_%; yield from paddy rice \_\_\_\_\_%

- Where do you get funds to purchase food grains?
- Crop sale
  - Agriculture wage employment
  - Livestock sale
  - Vegetable sale
  - Sale of forest products
  - Non-farm sources
  - Others, specify

9. Rice farming 2007:

- Upland rice, total rice variety.....varieties  
 Name of most popular varieties:  
 1.....How much (seed).....kg  
 2.....How much (seed).....kg  
 3.....How much (seed).....kg  
 4.....How much (seed).....kg  
 5.....How much (seed).....kg

- Paddy field, total rice variety.....varieties

Name of most popular varieties:

- 1.....
- 2.....
- 3.....

➤ Reasons for growing these variety

- 1..... why.....
- 2..... why.....
- 3..... why.....

10. Seed exchange

➤ Do you get the seed for planting from other people? [ ] yes, [ ] no

If yes: variety name. 1. ....

When:  first year;  2-4 years;  5- 9 years;  more than 10 years

Who (name)..... village.....

Ethnic group:  Thai lue;  Lao lum;  Khmu;  Hmong.

Relationship.....

Variety name.2. ....

When:  first year;  2-4 years;  5- 9 years;  more than 10 years

Who (name)..... village.....

Ethnic group:  Thai lue;  Lao lum;  Khmu;  Hmong.

Relationship.....

Variety name. 3. ....

When:  first year;  2-4 years;  5- 9 years;  more than 10 years

Who (name)..... village.....

Ethnic group:  Thai lue;  Lao lum;  Khmu;  Hmong.

Relationship.....

➤ Do you give the seed for planting to other people? [ ] yes, [ ] no

If yes: variety name. 1. ....

When:  first year;  2-4 years;  5- 9 years;  more than 10 years

Who (name)..... village.....

Ethnic group:  Thai lue;  Lao lum;  Khmu;  Hmong.

Relationship.....

Variety name.2. ....

When:  first year;  2-4 years;  5- 9 years;  more than 10 years

Who (name)..... village.....

Ethnic group:  Thai lue;  Lao lum;  Khmu;  Hmong.

Relationship.....

11. Seed selection:

Do you select the seed for planting following season? [ ] yes, [ ] no

If yes when; [ ] every year, [ ] some years: if some years

When....., and why.....

Who does the seed selection: .....why.....

On what characteristics of the plant do you focus your attention to select the seeds for Planting.....

Why.....

- Select panicle from harvested sheaves
- Panicle selection from production plot
- Other
- Separated plot and harvest in bulk
- Select individual hill or plant

12. Seed storage

- Mixed in the same rice consumption storage
- Container (tank)
- Basket
- Bag (30-50 kg)
- Panicle hang

13. Reasons for growing many varieties

- Conservation; why.....
- Reduced insects outbreak; why.....
- Insufficient rice for consumption; why.....
- Cultural; why.....
- Other;.....

**Appendix B** Form survey of village diversity of rice

1. name of village.....
2. Number of rice cultivars existence at presents

No	Cultivars	Type		Maturity			Ecosystem		Special characters	Number of household grown	Proportion of area
		N	G	E	M	L	U	L			
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

**Appendix C** Description of morphological and physiological characteristics were recorded individually using method of IRRI-IBPGR (1980)

Descriptor <sup>1</sup>	Code Guide	Growth stage
<b>LEAF</b>		
1. Blade pubescence	1 glabrous	late vegetative stage
	2 intermediate	
	3 pubescent	
2. Blade color	1 pale green	late vegetative stage
	2 green	
	3 dark green	
	4 purple tips	
	5 purple margins	
	6 purple blotch	
	7 purple	
3. Basal leaf sheath color	1 green	early to late vegetative stage
	2 purple lines	
	3 light purple	
	4 purple	
<b>LIGULE</b>		
4. Color	1 white	late vegetative stage
	2 purple lines	
	3 purple	
5. Shape	1 acute to acuminate	late vegetative stage
	2 2-cleft	
	3 truncate	
6. Collar color	1 pale green	late vegetative stage
	2 green	
	3 purple	
7. Auricle color	1 pale green	late vegetative stage
	2 purple	
8. Number of days from effective seeding date to 50% heading.		
<b>CULM</b>		
9. Length		after flowering
10. Number		after flowering
<b>PANICLE</b>		
11. Length		at maturity
12. Number seed/panicle		at maturity
13. % filled seeds		at maturity
<b>GRAIN (Spikelet)</b>		
14. Awning	0 absent	flowering to maturity
	1 short and partly awned	
	5 short and fully awned	
	7 long and partly awned	
	9 long and fully awned	

## Appendix C (Continued)

Descriptor <sup>1</sup>	Code Guide	Growth stage
15. Apiculus color	1 white	at maturity
	2 straw	
	3 brown (tawny)	
	4 red	
	5 red apex	
	6 purple	
	7 purple apex	
16. Stigma color	1 white	at flowering
	2 light green	
	3 yellow	
	4 light purple	
	5 purple	
17. Husk color	0 straw	at maturity
	1 gold and/or gold furrows on straw background	
	2 brown line on straw	
	3 brown furrows on straw	
	4 brown (tawny)	
	5 reddish to light purple	
	6 purple line on straw	
	7 purple furrows on straw	
	8 purple	
	9 black	
W white		
18. Husk pubescence	1 glabrous	flowering to maturity
	2 hairs on lemma keel	
	3 hairs on upper portion	
	4 short hairs	
	5 long hairs (velvety)	
19. 100-grain weight		at maturity
20. Length		at maturity
21. Width		at maturity
22. Pericarp color	1 white	at maturity
	2 light brown	
	3 speckled brown	
	4 brown	
	5 red	
	6 variable purple	
	7 purple	
23. Endosperm type	1 nonglutinous (nonwaxy)	at maturity
	2 glutinous (waxy)	





## Appendix D (Continued)

District and villages	Number	Æ²ǎìxÑèì (Laos)	ชื่อพันธุ์ (Thai)	Variety names (English)	
2. íàìĚšǎǎÑ (บ้านท่าโพ) (Thapho village)	27	âÁçàâÙiÜÃ	ข้าวเหลือง	Kao Leung	
	28	làÀÖëÃ	ปากตั้ง	Pak Lueng	
	29	ÄàxÉœ	ข้าวดำ	Chao Tum	
	30	ĚšǎÈÜÀÁá	ทำดอกคำ	Thadokham	
อำเภอปากอู Pak Ou district	31	ǎÑŠíê	แพะปี	Phae Pee	
	32	ǎÑŠĚç	แพะดอ	Phae Do	
	33	âÁçàìíÀ	ข้าวนก	Kao Nok	
	1. íàìÖàÈĚšǎǎÝš (บ้านลาดท่าแฮะ) (Ladthahae village)	34	ǎÑŠÀàÃ	แพะกาง	Phae Kang
		35	Óèìì	มันปู	Man Pou
	36	ìYØÓàÀ	น้ำหมาก	Nam Mak	
	37	ǎØðìÜÁíàì	เหลืองบาน	Leung Ban	
	38	âÁçàâÝç	ข้าวเฮี้ย	Kao Hea	
	39	âÁçàÀšǎì	ข้าวก่าน	Kao Kan	
	40	âÁçàǎĚÃ	ข้าวแดง	Kao Deng	
	41	ÓíĚç	মনดอ	Mon Do	
	42	ÄàxĚç	ข้าวคอ	Chao Do	
	43	ÀçÁç16	กข16	RD16	
	44	ìYíß	น้ำปะ	Nam Paa	
	45	ĚçæĚç	คอใต้	Do Dai	
	46	làǎÑì	นาโพน	Na Phon	
2. íàìØxÇâÙiÜÃ (บ้านห้วยเหลือง) (Houyleung village)	47	ǎÑŠíê	แพะปี	Phae Pee	
	48	ǎÑŠĚç	แพะดอ	Phae Do	
	49	ǎÑŠÀàÃ	แพะกาง	Phae Kang	
	50	âÁçàìíÀ	ข้าวนก	Kao Nok	
	51	ÖàÇÓòÜç	ลายช้อย	Lai Yai	

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Nok Khor

## Appendix D (Continued)

District and villages	Number	Æ²āìxÑèì (Laos)	ชื่อพันธุ์ (Thai)	Variety names (English)
2. íàìø×çáÙiÜÃ	53	âÁĵàÈçáÈÈ	ข้าวดอกเตท	Kao Do Det
(บ้านห้วยเหลื่อง)	54	ÄàxÖàxÁiÃ	ข้าวลาวสูง	Chao Lao Soung
(Houyleung village)	55	âÁĵàÀœ	ข้าวกำ	Kao Kum
	56	âÁĵàÀŠàì	ข้าวก่าน	Kao Kan
	57	Öàíì	ลาบูน	La Boun
	58	ÄàxíèÀ	ข้าวปีก	Chao Peek
	59	âÁĵàãÈÃ	ข้าวแดง	Kao Deng
	60	ÉŠÖÜç	ตะลอย	Taa Loy
	61	ìYíß	น้ำปะ	Nam Paa
	62	âÁĵàÁàx	ข้าวขาว	Kao Khao
	63	ÈçÁàx	ดอกขาว	Do Khao

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## Curriculum Vitae

- Name** Mr. Khamla Phanthaboun
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- 1985-1988 High School. Lung Prabang High School Number One in Luang Prabang province of the Lao PDR.
- 1988-1991 Diploma Agriculture (Agronomy) Nabong Agriculture and Forestry College, Vientiane, Lao PDR.
- 1999-2002 B.S Agriculture (Agronomy), National University of Lao, Faculty of Agriculture, Vientiane, Lao PDR.
- 2006-2009 MSc. In Agronomy, Faculty of Agriculture, Chiang Mai University, Thailand
- Scholarship: SIDA founded Lao-Swedish Upland Agriculture and Forestry Research project at NAFRI, Lao PDR.
- Work experiences**
- 1991-1994 Extension worker at Agriculture and Forestry Office, Luang Prabang province, Lao PDR.
- 1994-1999 Site managers in Sustainable Agriculture in Slopping Land Project in Luang Prabang province, Lao PDR.
- 2003-2006 Head of Agriculture Research Station, Luang Prabang province, Lao PDR.

**Publications and Presentation**

Phanthaboun, K., B. Rerkasem, S. JamJod. 2007. Genetic Diversity of Local Rice Varieties and Farmers' Management in Luang Prabang, Laos. A paper presented in The Journal of Agriculture, Faculty of Agriculture, Chiang Mai University, Thailand, 3-4 December 2007. (Oral presentation)

Phanthaboun, K., B. Rerkasem, S. JamJod. 2008. Genetic Diversity of Local Rice Varieties in Luang Prabang, Lao PDR. A presented in The 2007 Technical Meeting of the Senior research Scholars' in Field Crops. Cha-am, Thailand, 21-22 November 2008. (Oral presentation)

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