

Nang Rong Projects

Codebook for the 2000 Community Questionnaire

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Using this Codebook

This codebook is a product of one questionnaire. One questionnaire was administered to each village within the 1984 Nang Rong District boundary. Below are some important things to know when working with this codebook:

Data File Pointers

There is a data file “pointer” at the top of every page. All variables described on the page are located in the data file named.

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Data File ==> COMM00

Column x Column

Question No.	Variable			Question	Code
	Name	Type	Size		

- **Question No.** points to the question number on the questionnaire. Some variables, labeled “Created at CPC,” do not come from the questionnaire but have been created using the questionnaire data.
- **Variable** lists the...
 - **Name** which is the SAS variable name in the data file.
 - **Type** which tells whether it is a numeric variable (N) or an alphanumeric variable (A).
 - **Size** which gives the maximum length of the variable.
- **Question** shows the actual question from the questionnaire if the variable is not created. If it is a created variable, then this column provides a short description of the variable. In this same column, below the question or description, is either the labels for each of the codes on this variable or a pointer to go see one of the codebook appendices.
- **Code** lists either the actual values on the variable or the format of those values.

Variable Naming Convention?

There is not a strict naming convention per se, but there are some things to point out:

- We still adhere to 8 characters or less for all variable names.
- Most variables start with an ‘X’ followed by the form and question numbers.
- Flag variables created at CPC usually end with ‘FL.’
- An identifier variable ends with the last 2 digits of the survey year from which it came.

Missing Values

- **Not Applicable:** Variables are assigned this code when the question is skipped according to the logic in the questionnaire. This code is always SAS system missing, which is a value of “.” for numeric variables or a value of “ ” (or blank) for alphanumeric variables.
- **Missing/Don’t know:** Variables are assigned this code when the respondent did not know the answer to the question or when the question was skipped during the interview. This code always has a value consisting of all 9’s. The number of 9’s is determined by the length of the variable. For instance, if the variable length is 3, then the variable is assigned a ‘999’ code.

Identifier Variables for the Community and Household Data in 1984, 1994 and 2000

Understanding the identifier variables is vital in working with the data files and merging them appropriately. Analysts will need to consistently use three different types of identifiers – village, household and individual - in working with the community and household data files. Each identifier type represents a different level of observation and detail and provides the key to the most important mechanism for matching and linking villages, households and people. Below, there is a description for each identifier type, which is then followed by the identifier variable names (both restricted- and public-use data) for each survey year:

- **Village** - A unique number was assigned, during or just prior to the data collection, to villages that existed within the boundaries of the 1984 Nang Rong District.

	<u>1984 Survey</u>	<u>1994 Survey</u>	<u>2000 Survey</u>
Restricted	VILL84	VILL94	VILL00
Public	n/a	n/a	n/a

- **Household** - Each household received two unique identifiers. The first identifier was assigned by an interviewer within the household's respective village as the village list was being compiled. The second identifier was written on the household's questionnaire by the interviewer. This identifier includes the village number and the house number (or unique sequential number in 1994).

	<u>1984 Survey</u>	<u>1994 Survey</u>	<u>2000 Survey</u>
Restricted #1	HOUSE84	LEKT194	HOUSE00
Restricted #2	HHID84	HHID94	HHID00
Public	PHHID84	PHHID94	PHHID00

- **Individual** - The individual identifiers (CEP codes) are found on the household roster. The CEP code was assigned by the interviewer as the household roster was being updated during the interview.

	<u>1984 Survey</u>	<u>1994 Survey</u>	<u>2000 Survey</u>
Restricted	CEP84	CEP94	CEP00
Public	CEP84	CEP94	CEP00

Given the three identifier types, the following table shows what identifier variables are needed to uniquely identify a village, a household and an individual in both the restricted- and public-use data:

Community and Household Survey Data

To uniquely identify a ...	#	Restricted-Use Data			Public-Use Data		
		1984 Survey	1994 Survey	2000 Survey	1984 Survey	1994 Survey	2000 Survey
Village	--	VILL84	VILL94	VILL00	n/a	n/a	n/a
Household	1	VILL84 HOUSE84	VILL94 LEKT194	VILL00 HOUSE00	n/a	n/a	n/a
	2	HHID84	HHID94	HHID00	PHHID84	PHHID94	PHHID00
Individual	1	VILL84 HOUSE84 CEP84	VILL94 LEKT194 CEP94	VILL00 HOUSE00 CEP00	n/a	n/a	n/a
	2	HHID84 CEP84	HHID94 CEP94	HHID00 CEP00	PHHID84 CEP84	PHHID94 CEP94	PHHID00 CEP00

Identifier Variables for the Migrant Follow-Up Data in 1994 and 2000

The Migrant Follow-Up data has only two identifier types – household and individual. Please note, however, that the household survey identifiers are part of the Migrant Follow-Up data to allow linkages between the migrant and household data. The two migrant identifier types represent a different level of observation and detail that provides the key to the most important mechanism for matching and linking migrant households and people. Below, there is a description for each identifier type, which is then followed by the identifier variable names (both restricted- and public-use data) for each survey year – 1994 and 2000:

- Household** – Each migrant household had an identifier written on the questionnaire by the interviewer. This identifier includes the village number from which the migrant originated and a unique sequential number. In the 2000 data, there were two phases of the Migrant Follow-Up data collection – the urban phase and the rural phase. Since the household identifier (MID00) could be the same across the two phases, a second variable (MIGTYPE), signifying the migrant type, is needed to uniquely identify the household.

	<u>1994 Survey</u>	<u>2000 Survey</u>
Restricted	MID	MID00, MIGTYPE
Public	PMID94	PMID00

- Individual** - The individual identifiers (MCEP codes) are found on the migrant's household roster. The MCEP code was assigned by the interviewer as the migrant's household roster was being updated during the interview.

	<u>1994 Survey</u>	<u>2000 Survey</u>
Restricted	MCEP8	MCEP00
Public	MCEP8	MCEP00

Given these two migrant identifier types, the following table shows what identifier variables are needed to uniquely identify a migrant household and an individual in both the restricted- and public-use data:

Migrant Follow-Up Data

To uniquely Identify a ...	Restricted-Use Data		Public-Use Data	
	1994 Survey	2000 Survey	1994 Survey	2000 Survey
Migrant Household	MID	MID00 MIGTYPE	PMID94	PMID00
Individual	MID MCEP8	MID00 MIGTYPE MCEP00	PMID94 MCEP8	PMID00 MCEP00

Codebook for the 2000 Community Questionnaire

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Question No.	Variable			Question	Code
	Name	Type	Size		
	VILL00	A	6	Village Number from 2000 Questionnaire <ul style="list-style-type: none"> • First 2 digits = 2000 District Number • Middle 2 digits = 2000 Subdistrict Number • Last 2 digits = 2000 Village Number 	
Created at CPC	VILL94	A	4	1994 Village Number Village number from 1994 Questionnaire	
Created at CPC	VILL84	A	2	1984 Village Number Village Number from 1984 Questionnaire <u>Note:</u> VILL84 reflects recoding of houses in village 21 when village 21 split into two villages (21 and 51)	01 - 51
Created at CPC	MIGVILL	N	1	Sample Migrant Village Not a sample migrant village Sample migrant village	0 1
	VINTDAY	N	2	Day of Interview Code actual day of interview	1 – 31
	VINTMN	N	2	Month of Interview Code actual month	1 – 12
	VINTSTIM	N	4	Time Interview started Code in hours and minutes	
	VINTFTIM	N	4	Time Interview finished Code in hours and minutes	
	VTIMEINT	N	3	Total time of interview Code in minutes	

Question No.	Variable			Question	Code
	Name	Type	Size		
				Interviewer ID	
	VINTID1	N	2	Code actual number	5, 6, 8, 26, 60 – 68
	Interviewers 2 – 3 use the same codes as Interviewer 1				
	VINTID2	N	2		
	VINTID3	N	2		
				Supervisor ID	
	VSUPVID	N	2	Code actual number	53, 60 – 68
				Day Supervisor inspected questionnaire	
	VSUPVDAY	N	2	Code actual day	1-31
				Month Supervisor inspected questionnaire	
	VSUPVMN	N	2	Code actual month	1-12
				Editor ID	
	VEDITID	N	2	Code actual number	52, 60 – 68
				Day Editor inspected questionnaire	
	VEDITDAY	N	2	Code actual day	1-31
				Month Editor inspected questionnaire	
	VEDITMN	N	2	Code actual month	1-12
				Coder ID	
	VCODERID	N	2	Code actual number	16, 37, 62 – 68
				Day of coding	
	VCODEDAY	N	2	Code actual day	1 – 31
				Month of coding	
	VCODEMN	N	2	Code actual month	1 – 12

Community Data

Question No.	Variable			Question	Code
	Name	Type	Size		
				Respondent 1	
				Position	
	RPOS1	N	2	See Respondent Positions Appendix	
				Age	
	RAGE1	N	2	Code actual age in years	
				Sex	
	RSEX1	N	1	Male Female	1 2
				2000 House Number or Ban Lek Ti	
	RHHID1	A	3	House Number or Ban Lek Ti Missing/Don't know	999
				Ban Lek Ti extension for Non-Project Villages	
	REXT1	N	1	Code actual extension	0 – 9
				Respondents 2 – 10	
				Respondents 2 – 10 use the same codes as Respondent 1	
				Position	
	RPOS2	N	2	See Respondent Positions Appendix N/A	[.]
	RPOS3	N	2		
	RPOS4	N	2		
	RPOS5	N	2		
	RPOS6	N	2		
	RPOS7	N	2		
	RPOS8	N	2		
	RPOS9	N	2		
	RPOS10	N	2		
	RAGE2	N	2	Code actual age in years N/A	[.]
	RAGE3	N	2		
	RAGE4	N	2		
	RAGE5	N	2		
	RAGE6	N	2		
	RAGE7	N	2		
	RAGE8	N	2		
	RAGE9	N	2		
	RAGE10	N	2		

Question No.	Variable			Question	Code
	Name	Type	Size		
I				Sex	
	RSEX2	N	2	Male Female N/A	1 2 [.]
	RSEX3	N	2		
	RSEX4	N	2		
	RSEX5	N	2		
	RSEX6	N	2		
	RSEX7	N	2		
	RSEX8	N	2		
	RSEX9	N	2		
	RSEX10	N	2		
	RHHID2	A	3	House Number or Ban Lek Ti N/A Missing/Don't know	[] 999
	RHHID3	A	3		
	RHHID4	A	3		
	RHHID5	A	3		
	RHHID6	A	3		
	RHHID7	A	3		
	RHHID8	A	3		
	RHHID9	A	3		
	RHHID10	A	3		
	REXT2	N	1	Code actual extension N/A	0 - 9 [.]
	REXT3	N	1		
	REXT4	N	1		
	REXT5	N	1		
	REXT6	N	1		
	REXT7	N	1		
	REXT8	N	1		
	REXT9	N	1		
	REXT10	N	1		
I					
	XPERPRES	N	2	Code the actual number Missing/Don't know	99

Part 1: General Information

Question No.	Variable			Question	Code
	Name	Type	Size		
1				In what year did this village first have a headman?	
	X1	N	4	Code Buddhist year	
2				Before this village first had a headman, was it administratively part of another village?	
	X2	N	1	Yes No – go to Q4	1 2
3				What is the number of that other village today?	
	X3	A	6	See Village and District town Appendices N/A	[]
4				Currently, how many households are in this village?	
	X4	N	3	Code actual number	
5				How many males (including children) live in this village?	
	X5	N	4	Code actual number Missing/Don't know	9999
6				How many females (including children) live in this village?	
	X6	N	4	Code actual number Missing/Don't know	9999
7				How much agricultural land (in rai) is within the administrative boundaries of this village?	
	X7	N	4	Code actual number	

Part 2: Education

Question No.	Variable			Question	Code
	Name	Type	Size		
8	X8	N	1	In this village, that is, within the administrative boundaries of the village, are there any public or private schools?	
				Yes	1
				No - go to Q11	2
9				What are the characteristics of this/these schools?	
				School 1	
				School Name	
	X9SCH1	N	3	See School Appendix N/A	[.]
				Lowest grade	
	X9LOW1	N	1	Kindergarten	1
				Grade 1	2
				Grade 7	3
				Grade 10	4
				Commerce and polytechnic school level 1	5
				Commerce and polytechnic college level 1	6
				N/A	[.]
				Highest grade	
	X9HIGH1	N	1	Kindergarten	1
				Grade 6	2
				Grade 9	3
				Grade 12	4
				Commerce and polytechnic school level 3	5
				Commerce and polytechnic college level 3	6
				N/A	[.]
				Grades K – 6: # of children attending	
	X9K6CH1	N	3	Code actual number N/A	[.]

Question No.	Variable			Question	Code
	Name	Type	Size		
9				Grades 7 – 9: # of children attending	
	X979CH1	N	3	Code actual number N/A	[.]
				Grades 10+: # of children attending	
	X910CH1	N	3	Code actual number N/A	[.]
				Year school was established	
	X9YEAR1	N	4	Code actual Buddhist year N/A Missing/Don't know	[.] 9999
				Type of school	
	X9TYPE1	N	1	Public Private N/A School 2	1 2 [.]
				School 2 uses the same codes as School 1	
				School Name	
	X9SCH2	N	3	See School Appendix N/A	[.]
				Lowest grade	
	X9LOW2	N	1	Kindergarten Grade 1 Grade 7 Grade 10 Commerce and polytechnic school level 1 Commerce and polytechnic college level 1 N/A	1 2 3 4 5 6 [.]
				Highest grade	
	X9HIGH2	N	1	Kindergarten Grade 6 Grade 9 Grade 12 Commerce and polytechnic school level 3 Commerce and polytechnic college level 3 N/A	1 2 3 4 5 6 [.]

Question No.	Variable			Question	Code
	Name	Type	Size		
9				Grades K – 6: # of children attending	
	X9K6CH2	N	3	Code actual number N/A	[.]
				Grades 7 – 9: # of children attending	
	X979CH2	N	3	Code actual number N/A	[.]
				Grades 10+: # of children attending	
	X910CH2	N	3	Code actual number N/A	[.]
				Year school was established	
	X9YEAR2	N	4	Code actual number N/A Missing/Don't know	[.] 9999
				Type of school	
	X9TYPE2	N	1	Public Private N/A	1 2 [.]
10				Do all the children in this village attend one of the schools mentioned in Q9 above or do some children in this village attend other schools?	
	X10	N	1	All attend a school mentioned above – go to Q12 Some go elsewhere	1 2

Question No.	Variable			Question	Code
	Name	Type	Size		
11				Where (else) do children in this village go to attend school?	
				School 1	
				School Name	
	X11SCH1	N	3	See School Appendix N/A	[.]
				School Location	
	X11LOC1	A	7	Another village in Nang Rong District town Another district N/A Missing/Don't know	3+Village # 4+District town # 4+District # [] 9999999
				Lowest grade	
	X11LOW1	N	2	Kindergarten Grade 1 Grade 7 Grade 10 Commerce and polytechnic school level 1 Commerce and polytechnic college level 1 N/A Missing/Don't know	1 2 3 4 5 6 [.] 99
				Highest grade	
	X11HIGH1	N	2	Kindergarten Grade 6 Grade 9 Grade 12 Commerce and polytechnic school level 3 Commerce and polytechnic college level 3 N/A Missing/Don't know	1 2 3 4 5 6 [.] 99
				Grades K – 6: # of children attending	
	X11K6CH1	N	3	Code actual number N/A Missing/Don't know	[.] 999

Question No.	Variable			Question	Code
	Name	Type	Size		
11				Grades 7 – 9: # of children attending	
	X1179CH1	N	3	Code actual number N/A Missing/Don't know	[.] 999
				Grades 10+: # of children attending	
	X1110CH1	N	3	Code actual number N/A Missing/Don't know	[.] 999
				Year school was established	
	X11YEAR1	N	4	Code actual Buddhist year N/A Missing/Don't know	[.] 9999
				Type of school	
	X11TYPE1	N	1	Public Private N/A Missing/Don't know Schools 2 – 8	1 2 [.] 9
				Schools 2 – 8 use the same codes as School 1	
				School Name	
	X11SCH2	N	3	See School Appendix N/A	[.]
	X11SCH3	N	3		
	X11SCH4	N	3		
	X11SCH5	N	3		
	X11SCH6	N	3		
	X11SCH7	N	3		
	X11SCH8	N	3		
	X11LOC2	A	7	Another village in Nang Rong District town Another district N/A Missing/Don't know	3+Village # 4+District town # 4+District # [.] 9999999
	X11LOC3	A	7		
	X11LOC4	A	7		
	X11LOC5	A	7		
	X11LOC6	A	7		
	X11LOC7	A	7		
	X11LOC8	A	7		

Question No.	Variable			Question	Code
	Name	Type	Size		
11				Lowest grade	
	X11LOW2	N	2	Kindergarten	1
	X11LOW3	N	2	Grade 1	2
	X11LOW4	N	2	Grade 7	3
	X11LOW5	N	2	Grade 10	4
	X11LOW6	N	2	Commerce and polytechnic school level 1	5
	X11LOW7	N	2	Commerce and polytechnic college level 1	6
	X11LOW8	N	2	N/A	[.]
				Missing/Don't know	99
				Highest Grade	
	X11HIGH2	N	2	Kindergarten	1
	X11HIGH3	N	2	Grade 6	2
	X11HIGH4	N	2	Grade 9	3
	X11HIGH5	N	2	Grade 12	4
	X11HIGH6	N	2	Commerce and polytechnic school level 3	5
	X11HIGH7	N	2	Commerce and polytechnic college level 3	6
	X11HIGH8	N	2	N/A	[.]
				Missing/Don't know	99
				Grades K – 6: # of children attending	
	X11K6CH2	N	3		
	X11K6CH3	N	3		
	X11K6CH4	N	3	Code actual number	
	X11K6CH5	N	3	N/A	[.]
	X11K6CH6	N	3	Missing/Don't know	999
	X11K6CH7	N	3		
	X11K6CH8	N	3		
				Grades 7 – 9: # of children attending	
	X1179CH2	N	3		
	X1179CH3	N	3		
	X1179CH4	N	3	Code actual number	
	X1179CH5	N	3	N/A	[.]
	X1179CH6	N	3	Missing/Don't know	999
	X1179CH7	N	3		
	X1179CH8	N	3		

Question No.	Variable			Question	Code
	Name	Type	Size		
11				Grades 10+: # of children attending	
	X1110CH2	N	3	Code actual number N/A Missing/Don't know	[.] 999
	X1110CH3	N	3		
	X1110CH4	N	3		
	X1110CH5	N	3		
	X1110CH6	N	3		
	X1110CH7	N	3		
	X1110CH8	N	3		
	X11YEAR2	N	4	Code actual Buddhist year N/A Missing/Don't know	[.] 9999
	X11YEAR3	N	4		
	X11YEAR4	N	4		
	X11YEAR5	N	4		
	X11YEAR6	N	4		
	X11YEAR7	N	4		
	X11YEAR8	N	4		
	X11TYPE2	N	1	Public Private N/A Missing/Don't know	1 2 [.] 9
	X11TYPE3	N	1		
	X11TYPE4	N	1		
	X11TYPE5	N	1		
	X11TYPE6	N	1		
	X11TYPE7	N	1		
	X11TYPE8	N	1		
12					
	X12	N	1	Yes No – go to next section	1 2
12a				How many?	
	X12A	N	1	Code actual number N/A	[.]

Part 3: Agriculture

Question No.	Variable			Question	Code
	Name	Type	Size		
Crop Type				Grow rice	
	XRICE	N	1	Yes No – go to next crop	1 2
All other crop types use the same codes as XRICE					
	XJRICE	N	1	Jasmine Rice	
	XSRICE	N	1	Sticky Rice	
	XO1RICE	N	1	Other Rice 1	
	XO2RICE	N	1	Other Rice 2	
	XCASSAVA	N	1	Cassava	
	XKENAF	N	1	Kenaf	
	XCORN	N	1	Corn	
	XSUGAR	N	1	Sugar Cane	
	XVEGET	N	1	Vegetables	
	XEUCA	N	1	Eucalyptus Trees	
	XRUBBER	N	1	Rubber Trees	
	XSESAME	N	1	Sesame	
	XPEANUT	N	1	Peanuts	
	XFRUIT	N	1	Fruit Trees	
	XMULBER	N	1	Mulberries	
	XGRASS	N	1	Grass for animals	
	XTREE	N	1	Trees	
	XDESERT	N	1	Deserted Land	

For "Other Rice" Crops Only

Crop Type				Other Rice 1 Type	
	XO1RICET	N	2	See Varieties of Rice Appendix	
				Other Rice 2 Type	
	XO2RICET	N	2	See Varieties of Rice Appendix	

Question No.	Variable			Question	Code
	Name	Type	Size		

NOTE: This percentage of land refers to agricultural land; the amount coded in X7.

13				% of agricultural land used for rice	
	XRICE13	N	3.2	Code percentage People from other village grow rice in this village N/A Missing/Don't know	999.97 [.] 999.99
All other crop types use the same codes as XRICE13					
	XCASS13	N	3.2	Cassava	
	XKENAF13	N	3.2	Kenaf	
	XCORN13	N	3.2	Corn	
	XSUGAR13	N	3.2	Sugar Cane	
	XVEGET13	N	3.2	Vegetables	
	XEUCA13	N	3.2	Eucalyptus Trees	
	XRUBB13	N	3.2	Rubber Trees	
	XSESAM13	N	3.2	Sesame	
	XPEAN13	N	3.2	Peanuts	
	XFRUIT13	N	3.2	Fruit Trees	
	XMULB13	N	3.2	Mulberries	
	XGRASS13	N	3.2	Grass for animals	
	XTREE13	N	3.2	Trees	
	XDES13	N	3.2	Deserted Land	

14				% of households grow rice	
	XRICE14	N	3.2	Code percentage People from other village grow rice in this village N/A Missing/Don't know	999.97 [.] 999.99
All other crop types use the same codes as XRICE14					
	XCASS14	N	3.2	Cassava	
	XKENAF14	N	3.2	Kenaf	
	XCORN14	N	3.2	Corn	
	XSUGAR14	N	3.2	Sugar Cane	
	XVEGET14	N	3.2	Vegetables	
	XEUCA14	N	3.2	Eucalyptus Trees	
	XRUBB14	N	3.2	Rubber Trees	
	XSESAM14	N	3.2	Sesame	
	XPEAN14	N	3.2	Peanuts	
	XFRUIT14	N	3.2	Fruit Trees	
	XMULB14	N	3.2	Mulberries	
	XGRASS14	N	3.2	Grass for animals	
	XTREE14	N	3.2	Trees	
	XDES14	N	3.2	Deserted Land	

Question No.	Variable			Question	Code
	Name	Type	Size		
15				Yield/rai for jasmine rice	
	XJRICE15	N	6	Code actual number Don't cultivate Grow for consumption Never sold N/A Missing/Don't know	999995 999996 999997 [.] 999999
	All other crop types use the same codes as XJRICE15				
	XSRICE15	N	6	Sticky Rice	
	XO1RIC15	N	6	Other Rice 1	
	XO2RIC15	N	6	Other Rice 2	
	XCASS15	N	6	Cassava	
	XKENAF15	N	6	Kenaf	
	XCORN15	N	6	Corn	
	XSUGAR15	N	6	Sugar Cane	
	XEUCA15	N	6	Eucalyptus Trees	
	XRUBB15	N	6	Rubber Trees	
	XSESAM15	N	6	Sesame	
	XPEAN15	N	6	Peanuts	
	XFRUIT15	N	6	Fruit Trees	
	XMULB15	N	6	Mulberries	
	XGRASS15	N	6	Grass for animals	
	XTREE15	N	6	Trees	
16				Unit of measure for jasmine rice	
	XJRICE16	N	1	20 liter bucket Kilogram N/A	1 2 [.]
	All other crop types use the same codes as XJRICE16				
	XSRICE16	N	1	Sticky Rice	
	XO1RIC16	N	1	Other Rice 1	
	XO2RIC16	N	1	Other Rice 2	
	XCASS16	N	1	Cassava	
	XKENAF16	N	1	Kenaf	
	XCORN16	N	1	Corn	
	XSUGAR16	N	1	Sugar Cane	
	XEUCA16	N	1	Eucalyptus Trees	
	XRUBB16	N	1	Rubber Trees	
	XSESAM16	N	1	Sesame	
	XPEAN16	N	1	Peanuts	
	XFRUIT16	N	1	Fruit Trees	
	XMULB16	N	1	Mulberries	
	XGRASS16	N	1	Grass for animals	
	XTREE16	N	1	Trees	

Question No.	Variable			Question	Code
	Name	Type	Size		
17				Unit price for jasmine rice	
	XJRICE17	N	2.2	Code actual amount <ul style="list-style-type: none"> • First 2 digits = baht • Second 2 digits = satang N/A Didn't sell, grew for consumption Missing/Don't know	[.] 99.94 99.99
	All other crop types use the same codes as XJRICE17				
	XSRICE17	N	2.2	Sticky Rice	
	XO1RIC17	N	2.2	Other Rice 1	
	XO2RIC17	N	2.2	Other Rice 2	
	XCASS17	N	2.2	Cassava	
	XKENAF17	N	2.2	Kenaf	
	XCORN17	N	2.2	Corn	
	XSUGAR17	N	2.2	Sugar Cane	
	XEUCA17	N	2.2	Eucalyptus Trees	
	XRUBB17	N	2.2	Rubber Trees	
	XSESAM17	N	2.2	Sesame	
	XPEAN17	N	2.2	Peanuts	
	XFRUIT17	N	2.2	Fruit Trees	
	XMULB17	N	2.2	Mulberries	
	XGRASS17	N	2.2	Grass for animals	
	XTREE17	N	2.2	Trees	

Part 4: Agricultural Technology

Question No.	Variable			Question	Code
	Name	Type	Size		

If rice is not grown in the village go to Q25.

18				Think about a piece of rice land. What would be the typical or average amount of Baht that a farmer spent last year on the following?	
				Use chemical fertilizer	
	X18FERT	N	1	Yes No – go to next item N/A	1 2 [.]
	Other Items use the same codes as X18FERT				
	X18PEST	N	1	Pesticide (per rai)	
	X18HERB	N	1	Herbicide (per rai)	
	X18HARV	N	1	Labor to harvest (per rai)	
	X18TRANS	N	1	Labor to transplant (per rai)	
				Cost of chemical fertilizer (per rai)	
	X18FCOST	N	2.2	Code actual amount • First 2 digits = baht • Next 2 digits = satang N/A	[.]
	Other Items use the same codes as X18FCOST				
	X18PCOST	N	2.2	Pesticide (per rai)	
	X18HCOST	N	2.2	Herbicide (per rai)	
	X18LCOST	N	2.2	Labor to harvest (per rai)	
	X18TCOST	N	2.2	Labor to transplant (per rai)	

Question No.	Variable			Question	Code
	Name	Type	Size		
19				In this village, how many functioning rice mills have operated in the last 12 months?	
	X19	N	2	Code actual number – if 0, go to Q23 N/A	[.]
20				Location information of rice mill owner	
				Rice Mill 1	
				House Number or Ban Lek Ti of rice mill owner	
	X20HH1	A	3	Code actual number N/A Missing/Don't know	[] 999
				Ban Lek Ti Extension of rice mill owner	
	X20EXT1	A	1	Code actual number N/A	0 – 9 []
				Village Number of rice mill owner	
	X20LOC1	A	6	See Village Appendix N/A	[]
				Rice Mills 2 – 10	
				Rice Mills 2 – 10 use the same codes as Rice Mill 1	
20				House Number or Ban Lek Ti of rice mill owner	
	X20HH2	A	3	Code actual number N/A Missing/Don't know	[] 999
	X20HH3	A	3		
	X20HH4	A	3		
	X20HH5	A	3		
	X20HH6	A	3		
	X20HH7	A	3		
	X20HH8	A	3		
	X20HH9	A	3		
	X20HH10	A	3		
	X20EXT2	A	1	Code actual number N/A	0 – 9 []
	X20EXT3	A	1		
	X20EXT4	A	1		
	X20EXT5	A	1		
	X20EXT6	A	1		
	X20EXT7	A	1		
	X20EXT8	A	1		
	X20EXT9	A	1		
	X20EXT10	A	1		

Question No.	Variable			Question	Code
	Name	Type	Size		
20				Village Number of rice mill owner	
	X20LOC2	A	6	See Village Appendix N/A	[]
	X20LOC3	A	6		
	X20LOC4	A	6		
	X20LOC5	A	6		
	X20LOC6	A	6		
	X20LOC7	A	6		
	X20LOC8	A	6		
	X20LOC9	A	6		
	X20LOC10	A	6		
21					
	X21	N	1	Yes No – go to Q23 N/A	1 2 [.]
22				From which villages do farmers come to mill their rice?	
				Location 1	
				Village, District town or District	
	X22LOC1	A	7	Another village in Nang Rong District town Another district N/A	3+Village # 4+District town # 4+District # []
				Locations 2 – 5	
				Locations 2 – 5 use the same codes as Location 1	
	X22LOC2	A	7		
	X22LOC3	A	7		
	X22LOC4	A	7		
	X22LOC5	A	7		

Question No.	Variable			Question	Code
	Name	Type	Size		
23				Do farmers in this village go to other villages to mill their rice?	
	X23	N	1	Yes No – go to Q25 N/A	1 2 [.]

Question No.	Variable			Question	Code
	Name	Type	Size		
24				To which villages do farmers go to mill their rice?	
				Location 1	
				Village, District town, District or Province	
	X24LOC1	A	7	Another village in Nang Rong District town Another district Another province N/A	3+Village # 4+District town # 4+District # 5+Province # [.]
				Locations 2 – 3	
				Locations 2 – 3 use the same codes as Location 1	
	X24LOC2	A	7		
	X24LOC3	A	7		

Question No.	Variable			Question	Code
	Name	Type	Size		
25				Where do villagers sell the following crops? (More than one answer is possible).	
				Grow Jasmine Rice?	
	X25JRICE	N	1	Yes No – go to next crop	1 2
				All other crop types use the same codes as X25JRICE	
	X25SRICE	N	1	Sticky Rice	
	X25ORIC1	N	1	Other Rice 1	
	X25ORIC2	N	1	Other Rice 2	
	X25ORIC3	N	1	Other Rice 3	
	X25CASS	N	1	Cassava	
	X25SUGAR	N	1	Sugar Cane	
	X25CORN	N	1	Corn	
	X25KENAF	N	1	Kenaf	

For “Other Rice” Crops Only

Question No.	Variable			Question	Code
	Name	Type	Size		
25				Type of Other Rice 1 – 3	
	X25OR1TY	N	2	See Varieties of Rice Appendix	
	X25OR2TY	N	2		
	X25OR3TY	N	2		

Question No.	Variable			Question	Code
	Name	Type	Size		
25				Merchant comes to village to buy Jasmine Rice?	
	X25JRMER	N	1	Yes No N/A	1 2 [.]
	All other crop types use the same codes as X25JRMER				
	X25SRMER	N	1	Sticky Rice	
	X25OR1ME	N	1	Other Rice 1	
	X25OR2ME	N	1	Other Rice 2	
	X25OR3ME	N	1	Other Rice 3	
	X25CAMER	N	1	Cassava	
	X25SUMER	N	1	Sugar Cane	
	X25COMER	N	1	Corn	
	X25KEMER	N	1	Kenaf	
25				Sold Jasmine Rice only within this village?	
	X25JRIN	N	1	Yes No N/A	1 2 [.]
	All other crop types use the same codes as X25JRIN				
	X25SRIN	N	1	Sticky Rice	
	X25OR1IN	N	1	Other Rice 1	
	X25OR2IN	N	1	Other Rice 2	
	X25OR3IN	N	1	Other Rice 3	
	X25CAIN	N	1	Cassava	
	X25SUIN	N	1	Sugar Cane	
	X25COIN	N	1	Corn	
	X25KEIN	N	1	Kenaf	

Question No.	Variable			Question	Code
	Name	Type	Size		
25				Sold Jasmine Rice outside the village? Code the two most important places this crop is sold.	
				1st Place Sold	
				Village, District town, District or Province	
	X25JRL1	A	7	Another village in Nang Rong District town Another district Another province N/A Missing/Don't know	3+Village # 4+District town # 4+District # 5+Province # [] 9999999
	All other crop types use the same codes as X25JRL1				
	X25SRL1	A	7	Sticky Rice	
	X25OR1L1	A	7	Other Rice 1	
	X25OR2L1	A	7	Other Rice 2	
	X25OR3L1	A	7	Other Rice 3	
	X25CAL1	A	7	Cassava	
	X25SUL1	A	7	Sugar Cane	
	X25COL1	A	7	Corn	
	X25KEL1	A	7	Kenaf	
				2nd Place Sold	
				Village, District town, District or Province	
	X25JRL2	A	7	Another village in Nang Rong District town Another district Another province N/A Missing/Don't know	3+Village # 4+District town # 4+District # 5+Province # [] 9999999
	All other crop types use the same codes as X25JRL2				
	X25SRL2	A	7	Sticky Rice	
	X25OR1L2	A	7	Other Rice 1	
	X25OR2L2	A	7	Other Rice 2	
	X25OR3L2	A	7	Other Rice 3	
	X25CAL2	A	7	Cassava	
	X25SUL2	A	7	Sugar Cane	
	X25COL2	A	7	Corn	
	X25KEL2	A	7	Kenaf	

PART 5: Purchases & Services

Question No.	Variable			Question	Code
	Name	Type	Size		
26				Please tell me how much you would receive for selling the following items for food.	
				Sell water buffalo	
	X26BUFF	N	1	Yes No – go to next animal	1 2
	All other animals use the same codes as X26BUFF				
	X26PIG	N	1	Pigs	
	X26CHICK	N	1	Chickens	
	X26DUCK	N	1	Ducks	
	X26CATT	N	1	Cattle	
	X26FISH	N	1	Snakehead fish	
				Average selling price for water buffalo	
	X26BUFPR	N	5	Code actual amount in baht N/A	[.]
	All other animals use the same codes as X26BUFPR				
	X26PIGPR	N	5	Pigs	
	X26CHIPR	N	5	Chickens	
	X26DUCPR	N	5	Ducks	
	X26CATPR	N	5	Cattle	
	X26FISPR	N	5	Snakehead fish	
27				Last year, when hiring a walking tractor for the first plowing of a rice paddy in this village, how much did it cost per rai?	
	X27	N	3	Code actual amount of baht N/A	[.]

Question No.	Variable			Question	Code
	Name	Type	Size		
28				Do farmers in the village hire large tractors from other villages or not?	
	X28	N	1	Yes No – go to Q31	1 2
29				From which villages do villagers hire large tractors?	
				Location 1	
				Village, District town, District or Province	
	X29LOC1	A	7	Another village in Nang Rong District town Another district Another province N/A Missing/Don't know	3+Village # 4+District town # 4+District # 5+Province # [] 9999999
				Locations 2 – 3	
				Locations 2 – 3 use the same codes as Location 1	
	X29LOC2	A	7		
	X29LOC3	A	7		
30				Last year, when hiring a tractor to plow a cassava field in this village, how much did it cost to plow per rai?	
				Large tractor	
	X30LARGE	N	3	Code actual amount in baht N/A	[.]
				Walking tractor	
	X30WALK	N	3	Code actual amount in baht N/A	[.]
31				Currently (2000), what is the average price of land in the center of the village that would be used for building a house?	
	X31	N	6	Code actual amount in baht	

Question No.	Variable			Question	Code
	Name	Type	Size		
32				Currently (2000), what is the average price of cassava land?	
	X32	N	5	Code actual amount in baht N/A Missing/Don't know	[.] 99999
33				Currently (2000), what is the average price of 'na loom' (rice land next to an area/river that floods)?	
	X33	N	6	Code actual amount in baht N/A Missing/Don't know	[.] 999999
34				Currently (2000), what is the average price of 'na don' (rice land in a hilly/sloped area)?	
	X34	N	6	Code actual amount in baht N/A	[.]

Question No.	Variable			Question	Code
	Name	Type	Size		
35				Where do villagers take the following items for repair when they cannot repair it themselves? (More than one answer is possible).	
				Does anyone in this village have a motorcycle?	
	X35MCYC	N	1	Yes No – go to next item	1 2
	All other items use the same codes as X35MCYC				
	X35CAR	N	1	Car	
	X35TRUCK	N	1	Pickup Truck	
	X35TRACT	N	1	Walking Tractor	
	X35ITAN	N	1	Itan Engine	
	X35TV	N	1	TV/Television	
	X35VCR	N	1	Video/VCR	
35				Mechanic comes to the village to make repairs on motorcycles?	
	X35MCMEC	N	1	Yes No N/A	1 2 [.]
	All other items use the same codes as X35MCMEC				
	X35CAMEC	N	1	Car	
	X35TKMEC	N	1	Pickup Truck	
	X35TCMEC	N	1	Walking Tractor	
	X35ITMEC	N	1	Itan Engine	
	X35TVMEC	N	1	TV/Television	
	X35VCMEC	N	1	Video/VCR	
35				Motorcycles repaired within the village?	
				Repair Person 1	
				House Number	
	X35MCHH1	A	3	Code the 2000 House Number N/A Missing/Don't know	[] 999
	All other items use the same codes as X35MCHH1				
	X35CAHH1	A	3	Car	
	X35TKHH1	A	3	Pickup Truck	
	X35TCHH1	A	3	Walking Tractor	
	X35ITHH1	A	3	Itan Engine	
	X35TVHH1	A	3	TV/Television	
	X35VCHH1	A	3	Video/VCR	

Question No.	Variable			Question	Code
	Name	Type	Size		
35				Ban Lek Ti extension	
	X35MCEX1	A	1	Code actual number N/A	0 – 9 []
	All other items use the same codes as X35MCEX1				
	X35CAEX1	A	1	Car	
	X35TKEX1	A	1	Pickup Truck	
	X35TCEX1	A	1	Walking Tractor	
	X35ITEX1	A	1	Itan Engine	
	X35TVEX1	A	1	TV/Television	
	X35VCEX1	A	1	Video/VCR	
	Repair Person 2				
				House Number	
	X35MCHH2	A	3	Code the 2000 House Number N/A Missing/Don't know	[] 999
	All other items use the same codes as X35MCHH2				
	X35CAHH2	A	3	Car	
	X35TKHH2	A	3	Pickup Truck	
	X35TCHH2	A	3	Walking Tractor	
	X35ITHH2	A	3	Itan Engine	
	X35TVHH2	A	3	TV/Television	
	X35VCHH2	A	3	Video/VCR	
				Ban Lek Ti extension	
	X35MCEX2	A	1	Code actual number N/A	0 – 9 []
	All other items use the same codes as X35MCEX2				
	X35CAEX2	A	1	Car	
	X35TKEX2	A	1	Pickup Truck	
	X35TCEX2	A	1	Walking Tractor	
	X35ITEX2	A	1	Itan Engine	
	X35TVEX2	A	1	TV/Television	
	X35VCEX2	A	1	Video/VCR	

Question No.	Variable			Question	Code
	Name	Type	Size		
35				Motorcycles repaired outside of the village? Code the two most important places that this item is taken for repair.	
				1st Place Repaired	
				Village, District town, District or Province	
	X35MCL1	A	7	Another village in Nang Rong District town Another district Another province N/A Missing/Don't know	3+Village # 4+District town # 4+District # 5+Province # [] 9999999
				All other items use the same codes as X35MCL1	
	X35CAL1	A	7	Car	
	X35TKL1	A	7	Pickup Truck	
	X35TCL1	A	7	Walking Tractor	
	X35ITL1	A	7	Itan Engine	
	X35TVL1	A	7	TV/Television	
	X35VCL1	A	7	Video/VCR	
				2nd Place Repaired	
				Village, District town, District or Province	
	X35MCL2	A	7	Another village in Nang Rong District town Another district Another province N/A Missing/Don't know	3+Village # 4+District town # 4+District # 5+Province # [] 9999999
				All other items use the same codes as X35MCL2	
	X35CAL2	A	7	Car	
	X35TKL2	A	7	Pickup Truck	
	X35TCL2	A	7	Walking Tractor	
	X35ITL2	A	7	Itan Engine	
	X35TVL2	A	7	TV/Television	
	X35VCL2	A	7	Video/VCR	

Part 6: Transportation

Question No.	Variable			Question	Code
	Name	Type	Size		
36				To which district towns do villagers typically go to buy household items?	
				Location 1	
				District town, District or Province	
	X36LOC1	A	3	District town Another district Another province	3+District town # 4+District # 5+Province #
			Locations 2 – 3		
			Locations 2 – 3 use the same codes as Location 1		
	X36LOC2	A	3		
	X36LOC3	A	3		
37				To which district towns do villagers typically go for banking/financial purposes?	
				Location 1	
				District town, District or Province	
	X37LOC1	A	3	District town Another district Another province	3+District town # 4+District # 5+Province #
			Location 2		
			Location 2 uses the same codes as Location 1		
	X37LOC2	A	3		
38				To which district towns do villagers typically go for entertainment purposes?	
				Location 1	
				District town, District or Province	
	X38LOC1	A	3	District town Another district Another province Missing/Don't know	3+District town # 4+District # 5+Province # 999
			Locations 2 – 3		
			Locations 2 – 3 use the same codes as Location 1		
	X38LOC2	A	3		
	X38LOC3	A	3		

Question No.	Variable			Question	Code
	Name	Type	Size		
39				Last year, what month or months was it difficult to travel out of the village to Nang Rong Town because of flooding or muddy roads?	
				Was travel difficult last year?	
	X39DIFF	N	1	Yes No – go to Q40	1 2
				Month(s) travel was difficult	
	X39MNTN1	N	2	Code actual month	1 – 12
				Months 2 – 6 use the same codes as Month 1	
	X39MNTN2	N	2		
	X39MNTN3	N	2		
X39MNTN4	N	2			
X39MNTN5	N	2			
X39MNTN6	N	2			
40				Now think about the year before that, what month or months was it difficult to travel out of the village to Nang Rong Town because of flooding or muddy roads?	
				Was travel difficult the year before last?	
	X40DIFF	N	1	Yes No – go to Q41	1 2
				Month(s) travel was difficult	
	X40MNTN1	N	2	Code actual month	1 – 12
				Months 2 – 6 use the same codes as Month 1	
	X40MNTN2	N	2		
	X40MNTN3	N	2		
X40MNTN4	N	2			
X40MNTN5	N	2			
X40MNTN6	N	2			

Part 7: Occupations

Question No.	Variable			Question	Code
	Name	Type	Size		
41				Do villagers in this village go out in groups to work in other villages or not?	
	X41	N	1	Yes No – go to Q43	1 2
42				Which villages do they go to work in most often?	
				Location 1	
				Village, District town, District or Province	
	X42LOC1	A	7	Another village in Nang Rong District town Another district Another province N/A Missing/Don't know	3+Village # 4+District town # 4+District # 5+Province # [] 9999999
				Type of work done	
	X42WRK1	A	3	See Occupation Appendix N/A	[]
				Locations 2 – 12	
				Locations 2 – 12 use the same codes as Location 1	
				Village, District town, District or Province	
	X42LOC2	A	7		
	X42LOC3	A	7		
	X42LOC4	A	7		
	X42LOC5	A	7	Another village in Nang Rong	3+Village #
	X42LOC6	A	7	District town	4+District town #
	X42LOC7	A	7	Another district	4+District #
	X42LOC8	A	7	Another province	5+Province #
	X42LOC9	A	7	N/A	[]
	X42LOC10	A	7	Missing/Don't know	9999999
	X42LOC11	A	7		
	X42LOC12	A	7		

Question No.	Variable			Question	Code
	Name	Type	Size		
42				Type of work done	
	X42WRK2	A	3	See Occupation Appendix N/A	[]
	X42WRK3	A	3		
	X42WRK4	A	3		
	X42WRK5	A	3		
	X42WRK6	A	3		
	X42WRK7	A	3		
	X42WRK8	A	3		
	X42WRK9	A	3		
	X42WRK10	A	3		
	X42WRK11	A	3		
	X42WRK12	A	3		
43					
	X43	N	1	Yes No – go to Q46	1 2
44				From which villages do these groups of laborers often come?	
				Location 1	
				Village, District town, District or Province	
	X44LOC1	A	7	Another village in Nang Rong District town Another district Another province N/A	3+Village # 4+District town # 4+District # 5+Province # []
				Type of work done	
	X44WRK1	A	3	See Occupation Appendix N/A	[]
				Locations 2 – 6	
				Locations 2 – 6 use the same codes as Location 1	
				Village, District town, District or Province	
	X44LOC2	A	7	Another village in Nang Rong	3+Village #
	X44LOC3	A	7	District town	4+District town #
	X44LOC4	A	7	Another district	4+District #
	X44LOC5	A	7	Another province	5+Province #
	X44LOC6	A	7	N/A	[]

Question No.	Variable			Question	Code
	Name	Type	Size		
44				Type of work done	
	X44WRK2	A	3	See Occupation Appendix N/A	[]
	X44WRK3	A	3		
	X44WRK4	A	3		
	X44WRK5	A	3		
	X44WRK6	A	3		
45				When people from other villages come to this village for agricultural work, how much is their daily wage for transplanting or harvesting rice ?	
				Do males come for labor?	
	X45MALE	N	1	Yes No N/A	1 2 [.]
	Females and Children use the same codes as Males				
	X45FEM	N	1	Females	
	X45CHILD	N	1	Children	
				Price in period of high labor demand for males	
	X45MHIGH	N	3	Code actual amount in baht N/A	[.]
	Females and Children use the same codes as Males				
	X45FHIGH	N	3	Females	
	X45CHIGH	N	3	Children	
				Typical labor price for males	
	X45MTYP	N	3	Code actual amount in baht N/A	[.]
	Females and Children use the same codes as Males				
	X45FTYP	N	3	Females	
	X45CTYP	N	3	Children	

Question No.	Variable			Question	Code
	Name	Type	Size		
46				Are there any factories in this village? By factory, I mean a facility where 10 or more people are employed in the production of goods, e.g. shoes, etc. Please do not include rice mills here since we have already talked about them.	
	X46	N	1	Yes No	1 2
47				Are there any (other) factories within 5km of this village?	
	X47	N	1	Yes No – go to next section	1 2
				How many factories?	
	X47NUM	N	1	Code actual amount N/A	[.]
48				Name of Factory 1	
	X48FACT1	N	2	See Factory Appendix N/A Missing/Don't know	[.] 99
	Factories 2 – 5 use the same codes as X48FACT1				
	X48FACT2	N	2	Factory 2	
	X48FACT3	N	2	Factory 3	
	X48FACT4	N	2	Factory 4	
	X48FACT5	N	2	Factory 5	
				Is Factory 1 in/out of this village?	
	X48INV1	N	1	In the village Within 5 km of the village N/A	1 2 [.]
	Factories 2 – 5 use the same codes as X48INV1				
	X48INV2	N	1	Factory 2	
	X48INV3	N	1	Factory 3	
	X48INV4	N	1	Factory 4	
	X48INV5	N	1	Factory 5	

Question No.	Variable			Question	Code
	Name	Type	Size		
49				What is the total number of employees currently working at Factory 1?	
				Males	
	X49MALE1	N	3	Code actual number N/A Missing/Don't know	[.] 999
	Factories 2 – 5 use the same codes as X49MALE1				
	X49MALE2	N	3	Factory 2	
	X49MALE3	N	3	Factory 3	
	X49MALE4	N	3	Factory 4	
	X49MALE5	N	3	Factory 5	
				Females	
	X49FEM1	N	3	Code actual number N/A Missing/Don't know	[.] 999
	Factories 2 – 5 use the same codes as X49FEM1				
	X49FEM2	N	3	Factory 2	
	X49FEM3	N	3	Factory 3	
	X49FEM4	N	3	Factory 4	
X49FEM5	N	3	Factory 5		
50				Does the owner of Factory 1 currently live in...	
				Isan?	
	X50ISAN1	N	1	Yes No – go to Q51 N/A Missing/Don't know	1 2 [.] 9
	Factories 2 – 5 use the same codes as X50ISAN1				
	X50ISAN2	N	1	Factory 2	
	X50ISAN3	N	1	Factory 3	
	X50ISAN4	N	1	Factory 4	
	X50ISAN5	N	1	Factory 5	

Question No.	Variable			Question	Code
	Name	Type	Size		
50				Buriram?	
	X50BURI1	N	1	Yes No N/A Missing/Don't know	1 2 [.] 9
	Factories 2 – 5 use the same codes as X50BURI1				
	X50BURI2	N	1	Factory 2	
	X50BURI3	N	1	Factory 3	
	X50BURI4	N	1	Factory 4	
	X50BURI5	N	1	Factory 5	
51				How many years has Factory 1 been in operation?	
	X51YRS1	N	2	Code actual number of years N/A Missing/Don't know	[.] 99
	Factories 2 – 5 use the same codes as X51YRS1				
	X51YRS2	N	2	Factory 2	
	X51YRS3	N	2	Factory 3	
	X51YRS4	N	2	Factory 4	
	X51YRS5	N	2	Factory 5	
52				What does Factory 1 produce?	
	X52PROD1	N	2	See Factory Appendix N/A	[.]
	Factories 2 – 5 use the same codes as X52PROD1				
	X52PROD2	N	2	Factory 2	
	X52PROD3	N	2	Factory 3	
	X52PROD4	N	2	Factory 4	
	X52PROD5	N	2	Factory 5	

Part 8: Water Resources

Question No.	Variable			Question	Code
	Name	Type	Size		
53				Do villagers pump water from rivers, streams, ponds, or canals to the rice paddies?	
	X53	N	1	Yes No No one in this village grows rice	1 2 3
54				Do villagers divert existing water from rivers, streams, ponds, or canals to the rice paddies?	
	X54	N	1	Yes No No one in this village grows rice	1 2 3
55				Do villagers carry or manually transport (gravity flow) water from rivers, streams, ponds, or canals to their vegetable gardens?	
	X55	N	1	Yes No No one in this village has a vegetable garden	1 2 3
56				Do villagers pump water from wells for use in the vegetable gardens?	
	X56	N	1	Yes No – go to Q60 No one in this village has a vegetable garden	1 2 3
57				In this village, how many functioning wells (public and private) are used for irrigating crops?	
	X57	N	3	Code actual number N/A	[.]
58				In this village is there any problem with the quality of water taken from these wells, e.g. salinity, acidity, mineral deposits, etc.?	
	X58	N	1	Yes No – go to Q59 N/A	1 2 [.]
				Specify the problem(s)	
	X58PROB1	N	2	See Water Problems Appendix N/A	[.]
				Problem 2 uses the same codes as Problem 1	
	X58PROB2	N	2		

Question No.	Variable			Question	Code
	Name	Type	Size		
59				In this village is there any problem with the quantity of water (flow volume and its consistency throughout the year) taken from these wells?	
	X59	N	1	Yes No – go to Q60 N/A	1 2 [.]
				Specify the problem(s)	
	X59PROB1	N	2	No Supplement Provided N/A	2 – 7 [.]
				Problems 2 – 4 use the same codes as Problem 1	
	X59PROB2	N	2		
	X59PROB3	N	2		
	X59PROB4	N	2		
60				In this village, is there any problem with the quality of water taken from rivers, streams, ponds, and canals for the irrigation of agricultural crops e.g. salinity, acidity, mineral deposits, etc.?	
	X60	N	1	Yes No – go to Q61	1 2
				Specify the problem	
	X60PROB	N	2	See Water Problems Appendix N/A	[.]
61				In addition to problems of salinity, acidity, mineral deposits, and the like, are there problems with pollution (sediment from field erosion and chemicals from pesticides/herbicides from agricultural fields) with water taken from rivers, streams, ponds, and canals for the irrigation of agricultural crops?	
	X61	N	1	Yes No – go to Q62	1 2
				Specify the problem	
	X61PROB	N	2	See Water Problems Appendix N/A	[.]

Question No.	Variable			Question	Code
	Name	Type	Size		
62				During the last agricultural year, was there sufficient water for rice cultivation?	
	X62	N	1	Sufficient – go to Q64 Insufficient This village does not grow rice – go to Q70	1 2 3
63				During what months was there insufficient water for rice cultivation?	
	X63MNTH1	N	2	Code actual month N/A	[.]
				Months 2 – 5 use the same codes as Month 1	
	X63MNTH2	N	2		
	X63MNTH3	N	2		
	X63MNTH4	N	2		
	X63MNTH5	N	2		
64				During the year before that, was there sufficient water for rice cultivation?	
	X64	N	1	Sufficient – go to Q66 Insufficient N/A	1 2 [.]
65				During what months was there insufficient water for rice cultivation?	
	X65MNTH1	N	2	Code actual month N/A	[.]
				Months 2 – 5 use the same codes as Month 1	
	X65MNTH2	N	2		
	X65MNTH3	N	2		
	X65MNTH4	N	2		
	X65MNTH5	N	2		
66				During the last agricultural year, was there too much water for rice cultivation?	
	X66	N	1	Yes No – go to Q68 N/A	1 2 [.]

Question No.	Variable			Question	Code
	Name	Type	Size		
67				During what months was there too much water for rice cultivation?	
	X67MNT1	N	2	Code actual month N/A	[.]
				Months 2 – 5 use the same codes as Month 1	
	X67MNT2	N	2		
	X67MNT3	N	2		
	X67MNT4	N	2		
	X67MNT5	N	2		
68				During the year before that, was there too much water for rice cultivation?	
	X68	N	1	Yes No – go to Q70 N/A	1 2 [.]
69				During what months was there too much water for rice cultivation?	
	X69MNT1	N	2	Code actual month N/A	[.]
				Months 2 – 5 use the same codes as Month 1	
	X69MNT2	N	2		
	X69MNT3	N	2		
	X69MNT4	N	2		
	X69MNT5	N	2		

Environmental Problems

In this next section, we are interested in the environmental problems affecting the cultivation of agricultural crops. We would like you to think about problems that have occurred in the past 5 years in this village.

Question No.	Variable			Question	Code
	Name	Type	Size		

Questions 70 – 72 ask about problems with the soil.

70				Have there been any problems with soil loss through erosion on land close to the river?	
	X70	N	1	Yes No Not applicable	1 2 3

71				Have there been any problems with soil loss through erosion on hilly/sloped lands?	
	X71	N	1	Yes No Not applicable	1 2 3

72				Have there been any problems with soil salinity (salts deposited on the surface of the soil)?	
	X72	N	1	Yes No Not applicable	1 2 3

Questions 73-74 ask about problems with rice crops and should only be asked of villages who have grown rice in the past 5 years.

73				Have there been any problems with the rice crops and pests (snails, insects, locusts, and crabs)?	
	X73	N	1	Yes No Not applicable	1 2 3

74				Have there been any problems with the rice crops and weeds?	
	X74	N	1	Yes No Not applicable	1 2 3

Question No.	Variable			Question	Code
	Name	Type	Size		

Questions 75-76 ask about problems with cassava crops and should only be asked of villages who have grown cassava in the past 5 years.

75				Have there been any problems with the cassava crops and pests (snails, insects, locusts, and crabs)?	
	X75	N	1	Yes No Not applicable	1 2 3

76				Have there been any problems with the cassava crops and weeds?	
	X76	N	1	Yes No Not applicable	1 2 3

Questions 77-79 ask about problems with chemical fertilizers, pesticides and herbicides.

77				Have there been any problems related to the use of chemical fertilizers?	
	X77	N	1	Yes No – go to Q78	1 2
				Nature of the chemical fertilizer problem?	
	X77PROB	N	2	See Environmental Problems Appendix N/A	[.]

78				Have there been any problems related to the use of pesticides?	
	X78	N	1	Yes No – go to Q79	1 2
				Nature of the pesticide problem?	
	X78PROB	N	2	See Environmental Problems Appendix N/A	[.]

79				Have there been any problems related to the use of herbicides?	
	X79	N	1	Yes No – go to Q80	1 2
				Nature of the herbicide problem?	
	X79PROB	N	2	See Environmental Problems Appendix N/A	[.]

Question No.	Variable			Question	Code
	Name	Type	Size		
80				In this village, is there a public well for household use such as bathing, washing, cooking, etc.?	
	X80	N	1	Yes No – go to next section	1 2
81				In this village, how many functioning public wells are there?	
	X81	N	1	Code actual number N/A	[.]
82				Is there any problem with the quality of water from these public wells such as with color, smell, taste, dirt, etc.?	
	X82	N	1	Yes No N/A	1 2 [.]
83				Is there any problem with the quantity of water (flow volume and its consistency throughout the year) from these public wells?	
	X83	N	1	Yes No N/A	1 2 [.]
84				Do any of the people in this village drink water from wells?	
	X84	N	1	Yes No N/A	1 2 [.]

Part 9: Temples

Question No.	Variable			Question	Code
	Name	Type	Size		
85				Is there a temple in this village?	
	X85	N	1	Yes No – go to Q90	1 2
86				How many monks lived there for 3 or more months in the past year?	
	X86	N	2	Code actual number N/A	[.]
87				How many short-term monks (buot pra) came to the temple for less than 3 months last year?	
	X87	N	2	Code actual number N/A	[.]
88				Do people from other villages share the temple?	
	X88	N	1	Yes No – go to Q90 N/A	1 2 [.]
89				Which villages share this temple?	
				Location 1	
				Village, District town or District	
	X89LOC1	A	7	Another village in Nang Rong District town Another district N/A	3+Village # 4+District town # 4+District # []
				Locations 2 – 3	
				Locations 2 – 3 use the same codes as Location 1	
	X89LOC2	A	7		
	X89LOC3	A	7		

Question No.	Variable			Question	Code
	Name	Type	Size		
90				Do villagers sometimes go to make merit at temples in other villages?	
	X90	N	1	Yes No – go to next section	1 2
91				To what temples do they go?	
				Location 1	
				Village, District town or District	
	X91LOC1	A	7	Another village in Nang Rong District town Another district N/A	3+Village # 4+District town # 4+District # []
				Locations 2 – 3	
				Locations 2 – 3 use the same codes as Location 1	
	X91LOC2	A	7		
	X91LOC3	A	7		

Part 10: Communication

Question No.	Variable			Question	Code
	Name	Type	Size		
92				What languages can the villagers speak? (More than 1 answer possible.)	
				Central Thai?	
	X92_1	N	1	Yes No Missing/Don't know	1 2 9
				All other languages use the same codes as X92_1	
	X92_2	N	1	Thai Korat	
	X92_3	N	1	Khmer	
	X92_4	N	1	Lao/Northeastern Thai/Thai Isan	
	X92_5	N	1	Suay	
	X92_6	N	1	Chinese	
	X92_7	N	1	English	
	X92_8	N	1	Southern Thai	
	X92_9	N	1	Northern Thai	
93				Which language do they speak most often in their daily life?	
	X93	N	1	Central Thai Thai Korat Khmer Lao/Northeastern Thai/Thai Isan	1 2 3 4
94				In this village, are there cellular phones?	
	X94	N	1	Yes No – go to Q95	1 2
				How many cellular/mobile phones?	
	X94NUM	N	2	Code actual number N/A	[.]
95				In this village, are there regular telephones?	
	X95	N	1	Yes No – go to Q96	1 2
				How many regular phones?	
	X95NUM	N	2	Code actual number N/A	[.]

Question No.	Variable			Question	Code
	Name	Type	Size		
96				In this village, how many public telephone booths are there?	
	X96	N	2	None – go to Q97 Code actual number	0
				In this village, how many working telephone booths are there?	
	X96NUM	N	2	Code actual number N/A	[.]
97				In this village, are there any 2-way radios?	
	X97	N	1	Yes No – go to Q98	1 2
				How many 2-way radios are there?	
	X97NUM	N	2	Code actual number N/A	[.]
98				In this village, is there a Public Address System?	
	X98	N	1	Yes No	1 2
99				In this village, do people connect to the Internet?	
	X99	N	1	Yes No Don't know	1 2 3

Part 11: Health Care and Health Services

Question No.	Variable			Question	Code
	Name	Type	Size		
100				Do villagers have any of the following service facilities available in the village? If so, how many?	
				Community hospital?	
	X100_1	N	1	Yes No – go to next service facility	1 2
	All other Service Facilities use the same codes as X100_1				
	X100_2	N	1	Private Medical Clinic	
	X100_3	N	1	Modern Manufactured Drugstore	
	X100_4	N	1	General store that also sells medicine	
	X100_5	N	1	Subdistrict doctor?	
	X100_6	N	1	Village folk doctor/uncertified doctor/traditional doctor/doctor who gives injections	
	X100_7	N	1	Community-Based Family Planning Volunteers	
	X100_8	N	1	Village Public Health Volunteer	
	X100_9	N	1	Village Public Health Communicator	
	X100_10	N	1	Traditional midwife with official training	
	X100_11	N	1	Traditional midwife without official training	
	X100_12	N	1	Dentist	
	X100_13	N	1	Drug fund/drug coop/drug bank	
	X100_14	N	1	Midwife center	
	X100_15	N	1	Subdistrict Health Center (Station)	
				How many Community Hospitals?	
	X100N_1	N	1	Code actual number N/A Missing/Don't know	[.] 9
	All other Service Facilities use the same codes as X100N_1				
	X100N_2	N	1	Private Medical Clinic	
	X100N_3	N	1	Modern Manufactured Drugstore	
	X100N_4	N	1	General store that also sells medicine	
	X100N_5	N	1	Subdistrict doctor?	
	X100N_6	N	1	Village folk doctor/uncertified doctor/traditional doctor/doctor who gives injections	
	X100N_7	N	1	Community-Based Family Planning Volunteers	
	X100N_8	N	1	Village Public Health Volunteer	
	X100N_9	N	1	Village Public Health Communicator	
	X100N_10	N	1	Traditional midwife with official training	
	X100N_11	N	1	Traditional midwife without official training	
	X100N_12	N	1	Dentist	
	X100N_13	N	1	Drug fund/drug coop/drug bank	
	X100N_14	N	1	Midwife center	
	X100N_15	N	1	Subdistrict Health Center (Station)	

Question No.	Variable			Question	Code
	Name	Type	Size		
101				In the last year, did the villagers go to a subdistrict health center?	
	X101	N	1	Yes No – go to Q104 Missing/Don't know	1 2 9
				In the last year, what is the main subdistrict health center that villagers went to for services?	
	X101HC	N	2	See Health Center Appendix N/A Missing/Don't know	[.] 99
				Location of main subdistrict health center?	
	X101LOC	A	6	See Village Appendix N/A Missing/Don't know	[] 999999
102				Did the villagers go to any other subdistrict health centers?	
	X102	N	1	Yes No – go to Q104	1 2
103				To which other subdistrict health center did villagers go?	
				Other Health Center 1	
				Health Center Name	
	X103HC1	N	2	See Health Center Appendix N/A	[.]
				Location of other health center	
	X103LOC1	A	7	Another village in Nang Rong Another district N/A Missing/Don't know	3+Village # 4+District # [] 999999
				Other Health Centers 2 – 3	
				Other Health Centers 2 – 3 use the same codes as Other Health Center 1	
				Health Center Name	
	X103HC2	N	2	See Health Center Appendix	
	X103HC3	N	2	N/A	[.]

Question No.	Variable			Question	Code
	Name	Type	Size		
103				Location of other health center	
	X103LOC2	A	7	Another village in Nang Rong	3+Village #
	X103LOC3	A	7	Another district	4+District #
				N/A	[]
				Missing/Don't know	9999999
104				In the last year, what is the main hospital that villagers went to for services?	
				Main Hospital Name	
	X104	N	2	See Hospital Appendix	
				Location of main hospital	
	X104LOC	A	7	Another village in Nang Rong	3+Village #
				District town	4+District town #
				Another district	4+District #
				Missing/Don't know	9999999
105				Did the villagers go to any other public or private hospitals?	
	X105	N	1	Yes	1
				No – go to Q107	2
106				To which other hospitals did the villagers go?	
				Other Hospital 1	
				Other Hospital Name	
	X106HSP1	N	2	See Hospital Appendix	
				N/A	[.]
				Missing/Don't know	99
				Location of other hospital	
	X106LOC1	A	7	Another village in Nang Rong	3+Village #
				District town	4+District town #
				Another district	4+District #
				Another province	5+Province #
				N/A	[]
				Other Hospitals 2 – 3	
				Other Hospitals 2 – 3 use the same codes as Other Hospital 1	
				Other Hospital Name	
	X106HSP2	N	2	See Hospital Appendix	
	X106HSP3	N	2	N/A	[.]
				Missing/Don't know	99

Question No.	Variable			Question	Code
	Name	Type	Size		
106				Location of other hospital	
	X106LOC2	A	7	Another village in Nang Rong	3+Village #
	X106LOC3	A	7	District town	4+District town #
				Another district	4+District #
				Another province	5+Province #
				N/A	[]
107				Since 1994, have any mobile health units (physician's units) come to this village to provide any of the following services?	
				Vasectomies	
	X107VAS	N	1	Yes	1
				No	2
				All other Services use the same codes as X107VAS	
	X107INJ	N	1	Contraceptive Injections	
	X107PILL	N	1	Contraceptive Pill	
	X107NOR	N	1	Norplant/contraceptive implants	
108				Does this village receive visits from a community health worker for immunizations, follow up after recent births, or other home visits?	
	X108	N	1	Yes	1
				No – go to Q110	2
109				From which health center does this person come?	
				Health Center Name	
	X109HC	N	2	See Health Center Appendix	
				N/A	[.]
				Location of Health Center	
	X109LOC	A	7	Another village in Nang Rong	3+Village #
				District town	4+District town #
				N/A	[]

Question No.	Variable			Question	Code
	Name	Type	Size		
109				How often does this person come?	
	X109OFT	N	2	Daily	1
				1 visit / week	2
				1 visit / 3 weeks	3
				1 visit / month	4
				2 visits / month	5
				3 visits / month	6
				4 visits / month	7
				1 visit / 2 months	8
				1 visit / 3 months	9
				2 visits / 3 months	10
				1 visit / 4 months	11
				1 visit / 6 months	12
				1 visit / year	13
				2 visits / year	14
				3 visits / year	15
				4 visits / year	16
				5 visits / year	17
				6 visits / year	18
				7 visits / year	19
				1 visit / 3 years	20
				Don't know	21

Part 12: Original Settlement

Question No.	Variable			Question	Code
	Name	Type	Size		

Our final question has to do with how long people have been living in the general area where this village is located today. This question is not about administrative aspects of the village, but rather it is about the time when people first moved to this area, cleared trees, and started growing rice and other crops. (**INTERVIEWER:** At this point, show them the N-map. If this village is immediately adjacent to one or more other villages, make it clear that this question refers to the collection of contiguous villages.)

110				How many years ago did people start living and farming in this area?	
	X110	N	3	Code actual number of years Don't know – go to Q111	[.]
111				If unsure of the number of years ago, ask them to give their best guess.	
	X111	N	3	Code actual number of years N/A	[.]