

Vietnam Rice Farmer Panel Survey

HOUSEHOLD QUESTIONNAIRE

Wave 1

Section 0: Household location

0.01 Time started	
0.02 Province	1=Dong Thap 2=Long An 3=An Giang 4=Kien Giang
0.03 District	
0.04 Commune	<i>(this survey item will not be available for research)</i>
0.05 Village	<i>(this survey item will not be available for research)</i>
0.06 Household ID	
0.08 Name of household head	<i>(this survey item will not be available for research)</i>
0.07 Household address	<i>(this survey item will not be available for research)</i>
0.09 Does the respondent agree to have the interview recorded?	1=Yes 2=No

Section 1: Household roster

Read: We shall ask you some basic questions about yourself and all members of this household. Members of the household include individuals who shared accommodation and meals for 6 months or more in the last 12 months, and who pooled incomes and expenditures.

1.01 Including yourself, how many people live in this household at the moment?					
MEMBER ID	1.02 Name <i>start with the household head</i> <i>(this survey item will not be available for research)</i>	1.03 Gender 1=Male 2=Female	1.04 Year of birth <i>solar calendar</i>	1.04a Age in completed years	1.05 Relation to household head 1=Head 2=Wife/husband 3=Son/daughter (incl. adopted) 4=Son-in-law/daughter-in-law 5=Father/mother 6=Father-in-law/mother-in-law 7=Sister/brother 8=Grandchild 9=Grandfather/grandmother 96=Other (specify)
1					
2					
3					
...					

MEMBER ID	1.06 Province of birth 96=Other (specify) 97=Don't know	1.07 What is the highest education degree (NAME) attained? <i>For household members >= 6 years</i> 0=No degree 1=Primary level 2=Lower secondary level 3=Upper secondary level 4=Vocational high school 5=College or university or higher 96=Other (specify) 99=Refuse to answer	1.08 Marital status <i>For household members >= 16 years</i> 1=Never married 2=Married 3=Widow 4=Divorced/separated 99=Refuse to answer
1			
2			
3			
...			

1.09 Ethnic group of the household head	1=Kinh 2=Chinese origin 96=Other (specify) 97=Don't know 99=Refuse to answer
1.10 Religion of the household head	1=Buddhist 2=Hoa Hoa Buddhist 3=Muslim 4=Christian 5=Caodaist 6=Animist 7=Atheist 96=Other (specify) 99=Refuse to answer

Section 2: Migration and remittances

Subsection 2.1: Migration

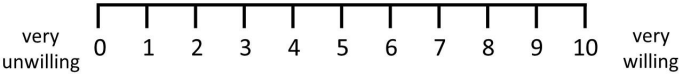
Read: I will now ask you about household members who were away from your household in the last year. This sub-section shall be asked about persons aged 15 years or older.

MEMBER ID	2.01 Has (NAME) been away from the household in the last 12 months? 1=Yes 2=No → Skip to next person	2.02 How many days in total has (NAME) been away from the household in the last 12 months?	2.03 In which month(s) was (NAME) away? <i>Multiple select</i> 2023: 1=January 2=February 3=March 4=April 5=May 6=June 7=July 8=August 9=September 10=October 11=November 12=December 2024: 13=January	2.04 Why was (NAME) temporarily away? <i>Multiple select</i> 1=Taking on a job 2=Searching for a job 3=Schooling or studying 4=Visiting family or friends 96=Other (specify) 97=Don't know 99=Refuse to answer
1				
2				
3				
...				

MEMBER ID	2.05 Where did (NAME) go? <i>Multiple select</i> 1=The same commune 2=The same district (rural area) 3=The same district (urban area) 4=The same province (rural area) 5=The same province (urban area) 6=Another province (rural area) 7=Another province (urban area) 8=Hanoi 9=Ho Chi Minh City 10=Foreign country 96=Other (specify) 97=Don't know 99=Refuse to answer	2.05a How much money did (NAME) earn in total while working away from home? <i>in '000 VND</i>	2.06 How much money did your household receive from (NAME) in the last 12 months while (NAME) was away? <i>in '000 VND</i>	2.07 How much money did your household give to (NAME) in the last 12 months while (NAME) was away? <i>in '000 VND</i>
1				
2				
3				
...				

Subsection 2.2: Migration aspirations

Read: Now I would like to ask you about your plans to continue to live in this village.

<p>2.08 In the last 12 months, have you or a member of your household seriously considered moving outside this province for a period of 6 months or longer or even forever?</p>	<p>1=Yes 2=No → Skip to question 2.10 97=Don't know → Skip to question 2.10</p>
<p>2.09 Please list the names of all adult members who have seriously considered moving outside this province for a period spanning over 6 months or longer or even forever.</p>	<p><i>Multiple select</i></p>
<p>2.10 In the next 5 years, would you or a member of your household like to move outside this region for a province spanning over 6 months or longer or even forever?</p>	<p>1=Yes 2=No → Skip to question 2.12 97=Don't know → Skip to question 2.12</p>
<p>2.11 Please list the names of all adult household members who would like to move outside this province for a period spanning over 6 months or longer or even forever in the next 5 years.</p>	<p><i>Multiple select</i></p>
<p>2.12 If you personally could improve your work or living conditions by moving and living outside this province, how willing or unwilling would you be to move outside this province? Please answer on a scale from 0 (very unwilling) to 10 (very willing).</p>	<p><i>Integer between 0-10</i></p> 

Subsection 2.3: Remittances

Read: Now I would like to ask you about any support your household received from individuals who are not members of your household.

2.13 Did your household receive any money, gifts or in-kind support (e.g. for weddings, funerals, sickness, etc.) in the last 12 months from relatives, friends or other individuals who are not members of your household?	1=Yes 2=No → Skip to question 2.16
2.14 From how many persons did your household receive support in the last 12 months?	
2.15 What is the total amount of money, gifts or in-kind support your household received from other persons in the last 12 months?	<i>in '000 VND</i>
2.16 Did your household give any money, gifts or in-kind support (e.g. for weddings, funerals, sickness, etc.) in the last 12 months to relatives, friends or other individuals who are not members of your household?	1=Yes 2=No → Skip to next section
2.17 To how many persons did your household give support in the last 12 months?	
2.18 What is the total amount of money, gifts, or in-kind support your household has given to other persons in the last 12 months?	<i>in '000 VND</i>

Section 3: Weather insurance

Read: Next, I will ask you some questions regarding agricultural insurance. Farmers may purchase agricultural insurance to protect their yields against weather risks, such as flooding, storms or drought. Both the government of Vietnam and insurance companies provide agricultural insurance to farmers.

<p>3.01 Have you ever heard about agricultural insurance from the following sources?</p>	<p>1=Yes 2=No</p>
<p>a. Insurance company or insurance agent</p>	
<p>b. NGO or international organisation</p>	
<p>c. Government official</p>	
<p>d. Farmer-based organisation, farmer union or cooperative</p>	
<p>e. Media (radio, TV, internet)</p>	
<p>f. Neighbours, friends, relatives</p>	
<p>3.02 How do you perceive your understanding of how agricultural insurance works? Please answer on a scale from 0 (do not understand it at all) to 10 (understand it very well).</p>	<p><i>Integer between 0-10</i></p> <p>do not understand it at all 0 1 2 3 4 5 6 7 8 9 10 understand it very well</p> <p>97=Don't know 99=Refuse to answer</p>
<p>3.03 Has your household ever purchased agricultural insurance in the past?</p>	<p>1=Yes 2=No</p>

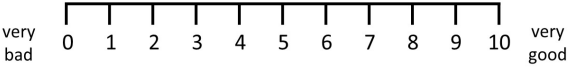
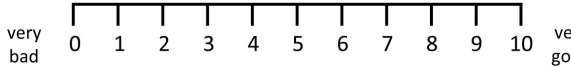
3.04 Would your household be interested in purchasing agricultural insurance for rice if it was offered to you?	1=Yes → Skip to question 3.06 2=Maybe 3=No
3.05 Why not?	1=Yes 2=No
a. Cannot afford it	
b. Do not understand how insurance works	
c. Do not trust insurance companies	
d. No weather risk	
e. Can rely on other persons for help if needed	1=Yes 2=No
3.06 Have you ever heard about rainfall index insurance, a specific type of agricultural insurance that protects against rainfall shocks?	
3.07 Enumerator: Record the name of the respondent who answered this section	

Section 5: Farming

Subsection 5.1: Parcel characteristics

5.01 How many parcels of land does your household currently own, rent, rent out, or use for free?					
PARCEL ID	5.02 Please briefly describe this parcel in terms of its location and characteristics <i>Text answer</i>	5.03 What is the size of this parcel? <i>in m2</i>	5.04 Where is this parcel located? 1=In the same village 2=In the same commune, but in a different village 3=In the same district, but in a different commune 4=In the same province, but in a different district 5=In another province	5.05 What is the tenure status of this parcel? 1=Household owns it → Skip to question 5.07 2=Household rents it from someone 96=Other (specify) → Skip to question 5.07 97=Don't know → Skip to question 5.07	5.06 How much has your household spent on renting this parcel in the last 12 months? <i>in '000 VND</i>
1					
2					
3					
...					

PARCEL ID	5.07 What is the primary purpose of this parcel? 1=Crop cultivation → Skip to question 5.09 2=Aquaculture → next parcel 3=Rented out to others 4=Woodlot/forest → next parcel 5=Fallow → next parcel 6=Household residence → next parcel 96=Other (specify) → next parcel	5.08 How much did your household earn from renting out this parcel in the last 12 months? <i>in '000 VND</i> → next parcel	5.09 Which crops are currently cultivated on this parcel? <i>Select from crop list</i>	5.10 What is the main source of irrigation for this parcel? 1=No irrigation/rainfed → Skip to question 5.12 2=Water from irrigation canal/dam/reservoirs built by State 3=Water from irrigation canal/well/pond built by household 96=Other (specify)
1				
2				
3				
...				

PARCEL ID	<p>5.11 How would you rate the quality of irrigation for this parcel? Please answer on a scale from 0 (very bad) to 10 (very good).</p> <p><i>Integer between 0-10</i></p> 	<p>5.12 During the past 5 years, were there any problems with salinity or saltwater intrusion on this parcel?</p> <p>1=Yes 2=No</p>	<p>5.13 How would you rate the soil fertility of this parcel? Please answer on a scale from 0 (very bad) to 10 (very good).</p> <p><i>Integer between 0-10</i></p> 
1			
2			
3			
...			

Subsection 5.2: Rice

SEASON ID	<p>5.14 Did your household cultivate rice in the following season?</p> <p>1=Yes 2=No → Next season</p>	<p>5.15 Which rice varieties did your household cultivate in (RICE SEASON)?</p> <p><i>Multiple select</i></p> <p>1=Dai Thom 8 2=Nang Hoa 9 3=Jasmine 85 4=RVT 5=OM5451 6=OM4218 7=OM4900 8=OM7347 9=OM2517 10=OM18 11=IR50404 12=Sticky rice CK92 13=ST25 96=Other (specify)</p>	<p>5.16 What is the total area your household planted with rice in (RICE SEASON)?</p> <p><i>in m2</i></p>	<p>5.17 In (RICE SEASON), did you only seed once or did you have to reseed?</p> <p>1=Yes, reseeded was necessary 2=No, I seeded only once</p>	<p>5.18 In which year and month did your household seed rice in (RICE SEASON)?</p> <p><i>Multiple select. Solar calendar.</i></p>
a. Winter-spring season 2022/23					<p>0=September 2022 1=October 2022 2=November 2022 3=December 2022 4=January 2023 5=February 2023</p>

b. Summer- autumn season 2023					5=February 2023 6=March 2023 7=April 2023 8=May 2023 9=June 2023 10=July 2023
c. Autumn- winter season 2023					8=May 2023 9=June 2023 10=July 2023 11=August 2023 12= September 2023 13 = October 2023

SEASON ID	5.19a Have you harvested rice in (RICE SEASON)?	<i>These questions are asked every time except if 5.14 (autumn-winter) ==1 & (5.19a = 2 or 5.19a==3)</i>			
		5.19 In which year and month did your household harvest rice in (RICE SEASON)? <i>Multiple select. Solar calendar</i>	5.20 How many kilograms of rice did your household harvest in (RICE SEASON)? <i>in kilogram</i>	5.21 How many kilograms of rice harvested in (RICE SEASON) did your household sell? <i>in kilogram</i>	5.22 What was the total income received from selling rice harvested in (RICE SEASON)? <i>in '000 VND</i>
a. Winter-spring season 2022/23		3=December 2022 4=January 2023 5=February 2023 6=March 2023 7=April 2023 8=May 2023 9=June 2023			
b. Summer-autumn season 2023		7=April 2023 8=May 2023 9=June 2023 10=July 2023 11=August 2023 12=September 2023 13 =October 2023			
c. Autumn-winter season 2023	1=Yes, all 2=Yes, some→skip to 5.20_winter1 3=Not yet harvested →skip to 5.20_winter3	10=July 2023 11=August 2023 12=September 2023 13=October 2023 14=November 2023 15=December 2023 16=January 2024			

SEASON ID	<i>If 5.14 (autumn-winter) ==1 & (5.19a = 2 or 5.19a==3)</i>				
Autumn-winter season 2023	<p>5.20_winter1: Approximately, what proportion of rice from all parcels has your household harvested from the (RICE SEASON)?</p> <p>1= >0 - <25% 2=25 - <50% 3=50 - <75% 4=75 - <100% 5=100%</p>	<p>5.20_winter2: How many kilograms of rice did your household harvest in (RICE SEASON)?</p> <p><i>in kilogram</i></p>	<p>5.20_winter3: How many kilograms of rice does your household expect to still harvest in (RICE SEASON)?</p> <p><i>in kilogram</i></p>	<p>5.20_winter4: How many kilos of rice do you expect to sell from the (RICE SEASON)?</p>	<p>5.20_winter5: At what price per kilo do you expect to get for each kilo of rice produce you sell?</p>
Autumn-winter season 2023					

SEASON	<p>5.23 Did your household experience excessive rainfall in (RICE SEASON)?</p> <p><i>Consider rainfall from the beginning to the end of the season</i></p> <p>1=Yes 2=No → Skip to question 5.27</p>	<p>5.24 In which months in (RICE SEASON) did your household experience excessive rainfall?</p> <p><i>Multiple select</i></p>	<p>5.25 How much additional production cost for rice did your household incur in (RICE SEASON) due to excessive rainfall? Compare against a normal year with normal rainfall.</p> <p>1=0-5% 2=5-10% 3=10-15% 4=15-20% 5=20-25% 6=>25%</p>	<p>5.26 How much of the potential rice harvest do you think was lost in (RICE SEASON) due to excessive rainfall? Compare against a normal year with normal rainfall.</p> <p>1=0-5% 2=5-10% 3=10-15% 4=15-20% 5=20-25% 6=>25%</p>
a. Winter-spring season 2022/23		<p>0=September 2022 1=October 2022 2=November 2022 3=December 2022 4=January 2023 5=February 2023 6=March 2023 7=April 2023 8=May 2023</p>		

b. Summer-autumn season 2023		5=February 2023 6=March 2023 7=April 2023 8=May 2023 9=June 2023 10=July 2023 11=August 2023 12= September 2023 13 = October 2023		
c. Autumn-winter season 2023		8=May 2023 9=June 2023 10=July 2023 11=August 2023 12=September 2023 13=October 2023 14=November 2023 15=December 2023 16=January 2024		

SEASON ID	<p>5.27 Did your household experience exceptionally low rainfall in (RICE SEASON)?</p> <p><i>Consider rainfall from the beginning to the end of the season</i></p> <p>1=Yes 2=No → Skip to question 5.31</p>	<p>5.28 In which months in (RICE SEASON) did your household experience exceptionally low rainfall?</p> <p><i>Multiple select</i></p>	<p>5.29 How much additional production cost for rice did your household incur in (RICE SEASON) due to exceptionally low rainfall? Compare against a normal year with normal rainfall.</p> <p>1=0-5% 2=5-10% 3=10-15% 4=15-20% 5=20-25% 6=>25%</p>	<p>5.30 How much of the potential rice harvest do you think was lost in (RICE SEASON) due to exceptionally low rainfall? Compare against a normal year with normal rainfall.</p> <p>1=0-5% 2=5-10% 3=10-15% 4=15-20% 5=20-25% 6=>25%</p>
a. Winter-spring season 2022/23		<p>0=September 2022 1=October 2022 2=November 2022 3=December 2022 4=January 2023 5=February 2023 6=March 2023 7=April 2023 8=May 2023</p>		

b. Summer- autumn season 2023		5=February 2023 6=March 2023 7=April 2023 8=May 2023 9=June 2023 10=July 2023 11=August 2023 12= September 2023 13 = October 2023		
c. Autumn-winter season 2023		8=May 2023 9=June 2023 10=July 2023 11=August 2023 12=September 2023 13=October 2023 14=November 2023 15=December 2023 16=January 2024		

SEASON ID	<i>These questions are asked for all instances except when 5.14 (autumn-winter) ==1 & 5.19a = 2 or 5.19a==3</i>			5.33 How many kilograms of rice seed did your household use in (RICE SEASON)? ? <i>in kilogram</i>	5.34 How much did your household spend in total on rice seeds in (RICE SEASON)? <i>in '000 VND</i>	5.35 How many kilograms of fertilizer did your household apply to rice in total in (RICE SEASON)? <i>in kilogram</i>	5.36 How much did your household spend in total on fertilizer for rice in (RICE SEASON)? <i>in '000 VND</i>
	5.31 What did you do with the rice straw after your harvested in (RICE SEASON) <i>Multiple select</i> 1=Incorporated straw into the soil → Skip to question 5.33 2=Burned straw 3=Collected straw and gave it to somebody else for a price or for free → Skip to question 5.32a 4=Collected straw and used by the household (as e. g. animal feed, mushroom bed) → Skip to question 5.33 96=Other (specify) → Skip to question 5.33	5.32 What share of the rice straw did you burn in (RICE SEASON)? 1=>0 - <25% 2=25 - <50% 3=50 - <75% 4=75 - <100% 5=100%	5.32a How much did your household earn from selling rice straw in (RICE SEASON)? <i>in '000 VND</i>				
a. Winter-spring season 2022/23							
b. Summer-autumn season 2023							
c. Autumn-winter season 2023							

SEASON ID	5.37 Did your household apply any plant protection chemicals (insecticide, pesticides) to rice in the (RICE SEASON)? 1=Yes 2=No → Skip to question 5.41	5.38 How many times did your household spray plant protection chemicals in total in the (RICE SEASON)?	5.39 Did your household use drones to apply plant protection chemicals in the (RICE SEASON)? 1=Yes 2=No	5.40 How much did your household spend in total on plant protection chemicals (for purchasing materials only) in the (RICE SEASON)? <i>in '000 VND</i>	5.41 Did your household use any hired labour to help with the cultivation of rice in the (RICE SEASON)? 1=Yes 2=No → skip to <i>Note_machinery</i>	5.42 How much did your household spend in total on hiring labour in the (RICE SEASON)? <i>in '000 VND</i>
a. Winter-spring season 2022/23						
b. Summer-autumn season 2023						
c. Autumn-winter season 2023						

Note_machinery:		
<i>Read:</i> For the next question please consider all three rice seasons in 2023 combined (winter-spring season 2022/23, summer-autumn season 2023, autumn-winter season 2023) when answering.		
AGRICULTURAL ACTIVITIES ID	5.43 Did your household use machinery for any of the following activities for rice seasons in 2023? 1=Yes 2=No → next item	5.44 What is the total cost of machinery for activities for rice seasons in 2023 (fuel, maintenance, etc.) <i>in '000 VND</i>
a. Ploughing, soil preparation		
b. Applying fertilizer		
c. Spraying pesticide		
d. Harvesting, threshing		
e. Irrigation		
f. Other (specify)		

5.45 Has your household implemented any of the following activities to reduce the negative impact of extreme weather on rice production in the past?	1=Yes 2=No
a. Changed seed variety of rice	
b. Changed planting dates of rice	
c. Changed amount of land cultivated with rice	
d. Changed fertilizer application	
e. Changed irrigation	
f. Other (specify)	
5.46 When you think about rice productivity, what is the maximum yield (kilogram per hectare) a farmer can produce in this commune in the summer-autumn season?	<i>in kilogram/hectare</i>
5.47 What is the average yield (kilogram per hectare) that a farmer can produce in this commune in an average summer-autumn season?	<i>in kilogram/hectare</i>
5.48 What is the average yield (kilogram per hectare) that you can produce in an average summer-autumn season?	<i>in kilogram/hectare</i>
5.49 What is the maximum yield (kilogram per hectare) that you can produce in the summer-autumn season?	<i>in kilogram/hectare</i>
5.50 What is the yield (kilogram per hectare) you wish to produce in an average summer-autumn season in 5 years' time if your household continues with rice farming?	<i>in kilogram/hectare</i>
5.51 Does your household cultivate rice in the current winter-spring season 2023/24?	1=Yes 2=No → skip to sub-section 5.3
5.51a Have you already seeded for the current winter-spring season 2023/24?	1=Yes 2=No → skip to 5.51c

<p>5.51b In which year, and month did your household seed rice for the current winter-spring season 2023/24?</p>	<p><i>Multiple select</i></p> <p>12=September 2023 13=October 2023 14 =November 2023 15=December 2023 16=January 2024</p>
<p>5.51c When do you plan to seed rice for the current winter-spring season 2023/ 24?</p>	<p><i>Multiple select</i></p> <p>16 = January 2024 17 = February 2024</p>

Subsection 5.3 Other crops

5.52 How many other major crops has your household harvested in the last 12 months?	If 0 → Skip to next section
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OTHER CROP ID	5.53 Please list all major crops harvested by your household in the last 12 months. Start with the most important. Include fruit trees.	5.54 How many kilograms of (CROP) has your household harvested in the last 12 months? <i>in kilogram/m3/tree/fruit/bunch/bag/flowerpot/m2</i>	5.55 Did your household sell (CROP) in the last 12 months? 1=Yes 2=No → next crop	5.56 What was the total income received from selling (CROP) in the last 12 months? <i>in '000 VND</i>
1				
2				
3				
...				

Section 6: Livestock and fishing

Subsection 6.1: Livestock ownership

6.01 Did your household keep any livestock in the last 12 months?	1=Yes 2=No → Skip to question 6.09
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LIVESTOCK ID	6.02 Did your household keep the following livestock in the last 12 months? 1=Yes 2=No → Next livestock	6.03 How many (LIVESTOCK) does your household currently own? <i>in head/swarm/kilogram</i>	6.04 Did your household sell any (LIVESTOCK) in the last 12 months? 1=Yes 2=No → Next livestock	6.05 What was the total income received from selling (LIVESTOCK) in the last 12 months? <i>in '000 VND</i>
a. Buffaloes				
b. Cows				
c. Goats				
d. Sheep				
e. Horses				
f. Pigs				
g. Chicken				
h. Ducks				
i. Other poultry				
j. Bees				
k. Silkworms				

Subsection 6.2: Livestock products

6.06 Did your household sell any livestock products in the last 12 months?		1=Yes 2=No → Skip to question 6.09
BYPRODUCT ID	6.07 Did your household sell the following livestock products in the last 12 months? 1=Yes 2=No → Next product	6.08 What was the total income received from selling (LIVESTOCK PRODUCT) in the last 12 months? <i>in '000 VND</i>
a. Milk		
b. Meat (including pork, buffalo meat, horse meat, goat meat, poultry meat)		
c. Eggs		
d. Hides and skins		
e. Honey		
f. Silk cocoon		
g. Other (specify)		

Subsection 6.3: Fish and shrimps

6.09 Did your household engage in fishing or shrimp farming in the last 12 months?	1=Yes 2=No → Skip to question 6.12
6.10 What was the total income received from selling fish in the last 12 months?	<i>in '000 VND</i> <i>If no income received, write 0</i>
6.11 What was the total income received from selling shrimps in the last 12 months?	<i>in '000 VND</i> <i>If no income received, write 0</i>

Subsection 6.4: Membership in farmer association

ASSOCIATION ID	<p>6.12 Are you or is any member of your household a member in the following types of association?</p> <p>1=Yes 2=No → next association</p>	<p>6.13 What benefits do you gain from (FARMER ASSOCIATION)?</p> <p><i>Multiple select</i></p> <p>1=Access to information 2=Access to finance 3=Extension services 4=Renting/sharing equipment 5=Support with irrigation 6=Marketing harvest 7=Negotiating prices 8=Community friendships 96=Other (specify) 97=Don't know</p>
a. Farmers' cooperative (Hợp tác xã)		
b. Farmers' union (Hội nông dân)		
c. Women's union (Hội phụ nữ)		

Section 7: Weather shocks

Read: Now I would like to ask you about your perceptions of weather. Please indicate how you perceive the weather in this commune has changed from how it was in the past and what changes you expect in the future.

<p>7.01 In your own experience, how did the <u>occurrence of heat waves</u> change in the period from 2013 to 2023, compared to the period from 2003 to 2013?</p>	<p>1=Occurred less often in recent years 2=No change 3=Occurred more often in recent years</p>
<p>7.02 In your own experience, how did the <u>amount of yearly rainfall</u> change in the period from 2013 to 2023, compared to the period from 2003 to 2013?</p>	<p>1=Decreased in recent years 2=No change 3=Increased in recent years</p>
<p>7.03 In your own experience, how did the <u>length of the raining season</u> change in the period from 2013 to 2023, compared to the period from 2003 to 2013?</p>	<p>1=Became shorter in recent years 2=No change 3=Became longer in recent years</p>
<p>7.04 In your own experience, how did the <u>occurrence of floods</u> change in the period from 2013 to 2023, compared to the period from 2003 to 2013?</p>	<p>1=Occurred less often in recent years 2=No change 3=Occurred more often in recent years</p>
<p>7.05 In your own experience, how did the <u>occurrence of storms</u> change in the period from 2013 to 2023, compared to the period from 2003 to 2013?</p>	<p>1=Occurred less often in recent years 2=No change 3=Occurred more often in recent years</p>
<p>7.06 In your own experience, how did the <u>occurrence of saltwater intrusion</u> change in the period from 2013 to 2023, compared to the period from 2003 to 2013?</p>	<p>1=Occurred less often in recent years 2=No change 3=Occurred more often in recent years</p>
<p>7.07 What changes do you expect regarding the <u>occurrence of heat waves</u> in the next 10 years, from 2023 to 2033?</p>	<p>1=Will occur less often in the future 2=No change 3=Will occur more often in the future</p>
<p>7.08 What changes do you expect regarding the <u>amount of yearly rainfall</u> in the next 10 years, from 2023 to 2033?</p>	<p>1=Will decrease in the future 2=No change 3=Will increase in the future</p>

<p>7.09 What changes do you expect regarding the <u>length of the rainy season</u> in the next 10 years, from 2023 to 2033?</p>	<p>1=Will become shorter in the future 2=No change 3=Will become longer in the future</p>
<p>7.10 What changes do you expect in the <u>frequency of floods</u> in the next 10 years, from 2023 to 2033?</p>	<p>1=Will occur less often in the future 2=No change 3=Will occur more often in the future</p>
<p>7.11 What changes do you expect in the <u>frequency of storms</u> in the next 10 years, from 2023 to 2033?</p>	<p>1=Will occur less often in the future 2=No change 3=Will occur more often in the future</p>
<p>7.12 What changes do you expect in the <u>frequency of saltwater intrusion</u> in the next 10 years, from 2023 to 2033?</p>	<p>1=Will occur less often in the future 2=No change 3=Will occur more often in the future</p>

Section 8: Employment

Subsection 8.1: Work on family farm

For persons aged between 15 and 60 years.

MEMBER ID	8.01 Has (NAME) done any form of work in the last 7 days, for at least one hour? 1=Yes → Skip to question 8.03 2=No	8.02 What is the main reason that (NAME) has not worked during the last 7 days? 1=Sick 2=Physically impaired 3=Maternity 4=Cared for other household members 5=Searching for work 6=Bad weather 7=Studying 96=Other (specify)	8.03 In the last 12 months, has (NAME) worked anytime on the <u>family farm</u> , e.g. in cultivating crops, fishing, or tending to livestock? 1=Yes 2=No → Skip to question 8.07	8.04 How many months has (NAME) worked on the family farm in the last 12 months?	8.05 During the months in which (NAME) worked on the family farm, how many days per month has (NAME) worked on the family farm?	8.06 During the months in which (NAME) worked on the family farm, how many hours per day has (NAME) worked on the family farm?
1						
2						
3						
...						

Subsection 8.2: Work in non-farm business owned by the household

For persons aged between 15 and 60 years.

MEMBER ID	8.07 In the last 12 months, has (NAME) worked anytime in a <u>non-farm business</u> owned by the household? 1=Yes 2=No → Skip to question 8.12	8.08 What type of business is this? <i>Text answer</i>	8.09 How many months of the year has (NAME) worked in the household business in the last 12 months?	8.10 During the months in which (NAME) worked in the household business, how many days per month has (NAME) worked in the household business?	8.11 During the months in which (NAME) worked in the household business, how many hours per day has (NAME) worked in the household business?
1					
2					
3					
...					

8.11a How much average monthly income has been earned from all non-farm businesses owned by the household in the last 12 months?	<i>in '000 VND</i>
--	--------------------

Subsection 8.3: Work in non-farm wage job

For persons aged between 15 and 60 years.

MEMBER ID	<p>8.12 In the last 12 months), has (NAME) worked anytime in a <u>non-farm wage job</u> for a company, the government or someone who is not a member of your household?</p> <p>1=Yes 2=No → Skip to next person</p>	<p>8.13 What type of wage job is this?</p> <p><i>Text answer</i></p>	<p>8.14 What is the ownership structure of the company/ organization (NAME) works for?</p> <p>1=Sole proprietorship 2=Private Limited Company 3=Company/Organization in Public Sector 4=Informal establishment 96=Other (specify) 97=Don't know 99=Refuse to answer</p>	<p>8.15 How many months of the year has (Name) worked in the wage job in the last 12 months?</p>	<p>8.16 During the months in which (NAME) worked in the wage job, how many days per month has (NAME) worked in the job?</p>	<p>8.17 During the months in which (NAME) worked in the wage job, how many hours per day has (NAME) worked in the job?</p>	<p>8.18 How much has (NAME) received as pay in cash or in kind in an average month when working in this job?</p> <p><i>in '000 VND</i></p>
1							
2							
3							
...							

Section 9: Transfer Income

Read: Now we would like to ask about other income and social support this household has received.

TRANSFER ID	9.01 Have you or any member of your household received any of the following transfers in the last 12 months? 1=Yes 2=No → next transfer	9.02 How often has your household received (TRANSFER) in the last 12 months? 1=Yearly 2=Monthly 3=Weekly 4=Daily 5=Once only 96=Other (specify) 99=Refuse to answer	9.03 What is the amount of (TRANSFER) that your household received in the last 12 months? <i>in '000 VND</i>
a. Retirement pension			
b. Sickness benefits			
c. Allowances for war veterans and martyrs			
d. Maternity benefits			
e. Other 1 (Specify)			
f. Other 2 (Specify)			
g. Other 3 (Specify)			

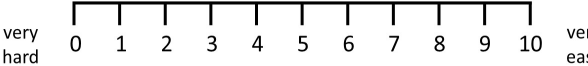
Section 10: Wealth

<p>10.01 What is the primary construction material of the floor of the dwelling occupied by your household?</p>	<p>1=Earth clay 2=Wooden planks 3=Bamboo strips 4=Cement, bricks, stone 5=Parquet, polished wood 6=Polished stone, marble 7=Vinyl 8=Ceramic tiles 9=Carpet</p>
<p>10.02 What kind of toilet facility do members of your household usually use?</p>	<p>1=Flush to piped sewer or septic tank 2=Flush to pit latrine or open drain 3=Other (pit latrine, composting toilet, bucket, hanging toilet)</p>
<p>10.03 Does your household have air conditioning?</p>	<p>1=Yes 2=No</p>
<p>10.04 In your household, what type of cook stove is mainly used for cooking?</p>	<p>1=Electric stove or piped natural gas stove 2=Solar cooker, liquified petroleum gas, cooking gas stove, liquid fuel stove or biogas stove 3=Manufactured or traditional solid fuel stove, three stone stove, open fire or other</p>
<p>10.05 What is the main material of the exterior wall of the dwelling?</p>	<p>1=Wood planks, shingles, cane/palm/trunks, dirt, bamboo with mud, stone with mud, uncovered adobe, plywood, cardboard, reused wood 2=Stone with lime/cement, cement blocks, covered adobe, other 3=Cement or bricks</p>
<p>10.06 Does any member of your household own a motorcycle or scooter?</p>	<p>1=Yes 2=No</p>
<p>10.07 Does any member of your household own a wristwatch?</p>	<p>1=Yes 2=No</p>

10.08 Does any member of your household own a smartphone?	1=Yes 2=No
10.09 Which mobile phone network providers do members of your household use?	<i>Multiple select</i> 1=Viettel 2=Vinaphone 3=Mobifone 4=Vietnamobile 96=Other (specify)

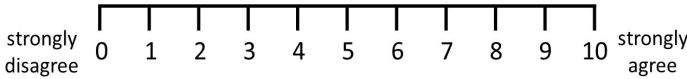
Section 11: Financial inclusion

11.01 What proportion of annual income is your household able to save? <i>in percent</i>					
11.02 Does any member of your household have a bank account?		1=Yes 2=No			
11.03 Has any member of your household taken out a loan in the last 12 months? <i>Please consider loans from individuals, banks, and other institutions</i>		1=Yes 2=No → Skip to question 11.10			
11.04 How many loans in total did members of your household take out in the last 12 months?					
LOAN ID	11.05 From where was this loan taken out? 1=Banks 2=Co-operative fund 3=Women union fund 4=Micro finance institution 5=Family, friend 6=Money lender, trader 96=Other (specify)	11.06 What was the main reason for taking this loan? 1=Investment in farming activities 2=Investment in non-farm business 3=Paying back other debt 4=Medical treatment 5=Ceremony (e.g. wedding, funeral etc) 6=School expenses or other academic costs 7=Buying items for the household 96=Other (specify)	11.07 What is the duration of this loan? <i>in months</i>	11.08 How much was this loan? <i>in '000 VND</i>	11.09 How much of this loan has been paid back? <i>in '000 VND</i>
1					
2					
3					
...					

<p>11.10 If your household needed to borrow 10 million VND in an emergency, how hard or easy would it be for your household to get it? Please answer on a scale from 0 (very hard) to 10 (very easy).</p>	<p><i>Integer between 0-10</i></p> 
<p>11.11 If your household needed to borrow 10 million VND in an emergency, how many people could you ask for this amount of money?</p>	
<p>11.12 In the past, did it ever happen that a member of your household applied for a loan from a formal institution and failed to get it?</p>	<p>1=Yes 2=No → Skip to question 11.14</p>
<p>11.13 What was the reason for failing to get the loan?</p>	<p><i>Multiple select</i></p> <p>1=Had no collateral 2=Had an outstanding loan 3=Lender lacked enough cash 4=Interest rate was too high 5=I did not want to put my assets at risk 6=Unable to meet lender requirements 7=There was too much paperwork 8=Bad debt history 96=Other (specify) 97=Don't know 99=Refuse to answer</p>
<p>11.14 Have you or any member of your household lent money to anyone outside your household in the last 12 months?</p>	<p>1=Yes 2=No</p>
<p>11.14a Has any member of your household purchased any goods or services on credit in the last 12 months?</p>	<p>1=Yes 2=No → Skip to question 11.15</p>
<p>11.14b How much was the total value of goods purchased on credit in the last 12 months</p>	<p><i>in '000 VND</i></p>

11.15 Have any members of your household ever purchased any of the following types of insurance?	1=Yes 2=No
a. Life insurance	
b. Health insurance	
c. Accident insurance	
d. Vehicle insurance	
e. Property insurance	
f. Other (specify)	

Section 12: Locus of Control

<p><i>Read:</i> I will now read for you a set of statements. For each of these statements, please tell me the extent to which you agree or disagree. Please answer on a scale from 0 (strongly disagree) to 10 (strongly agree).</p>	<p><i>Integer between 0-10</i></p>
<p>12.01 My life is determined by my own actions.</p>	
<p>12.02 When I get what I want, it is usually because I worked hard for it.</p>	<p>97=Don't know</p>
<p>12.03 I am usually able to protect my personal interests.</p>	
<p>12.04 I can mostly determine what will happen in my life.</p>	
<p>12.05 When I make plans, I am almost certain/guaranteed/sure to make them work.</p>	
<p>12.06 To a great extent my life is controlled by accidental/chance happenings.</p>	
<p>12.07 I feel like what happens in my life is determined by others.</p>	
<p>12.08 It is not always wise for me to plan too far ahead because many things turn out to be a matter of good or bad fortune.</p>	
<p>12.09 My life is chiefly controlled by other powerful people.</p>	
<p>12.10 People like me have little chance of protecting personal interest.</p>	

Section 4: Willingness to pay

If possible, this section should be asked to the head of household. Make sure that this section is answered by the household head if he or she is present.

Read: We would like to assess the demand for rainfall insurance. I will ask you how much you would be willing to pay for rainfall insurance coverage. We will start by showing you a short video that will give a description of rainfall insurance. Before starting the video, we want to point out that this is not a marketing exercise and you are not obliged to buy insurance at all. While this exercise has an option for buying insurance, it is only for research purposes to assess the interest of farmers in rainfall insurance.

[VIDEO PLAYING]

[ENUMERATOR EXPLAINS THE SECTION AND ANSWERS ALL RESPONDENTS' QUESTIONS]

4.01 Do you understand the insurance product?	1=Yes 2=No → Skip to question 4.02a
4.02 Do you understand the rules of this exercise	1=Yes → <i>random_number</i> 2=No
4.02a. ENUMERATOR please confirm that you have already answered all questions from the respondents and he/she still does not understand?	1=Confirm → Skip to question 4.29 2=Not confirm → Please answer all questions from the respondent until he or she does not have any other questions and ask 4.01 and/or 4.02 again.
<i>random_number</i>	<i>random number between 0 and 1 calculated by CAPI</i>
<i>price_information</i>	<i>price_information =</i> 1=Yes, if <i>random_number</i> ≤ 0.5 → Skip to <i>Info_note1</i> 2=No, if <i>random_number</i> > 0.5 → Skip to question 4.03

Info_note1: Read: Before we start, we would like to inform you that the market price of this insurance is 55,000 VND for covering one hectare for one month.

<p>4.03 Would you be willing to have this rainfall insurance if you have to pay 0 VND for a month of insurance (that means, that you do not have to pay anything)?</p>	<p>1=Yes → Skip to question 4.05 2=No</p>
<p>4.04 Are you sure you do not want rainfall insurance, even if it is for free?</p>	<p>1=Yes, I am sure → Skip to <i>No_interest_note1</i> 2=No, I want insurance if it is for free → Skip to question 4.05</p>
<p>No_interest_note1: Thank you very much. Since you are not willing to pay for this rainfall insurance, we will stop the exercise now. Please let me ask two questions before moving to the next section. → After note is read out by enumerator, go to question 4.29</p>	
<p>4.05 Are you willing to pay 5,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes → Skip to question 4.08 2=No</p>
<p>4.06 Keep in mind that if the rolling of the dice implies that we offer a price that is more than 5,000 VND, you will not receive a voucher for this rainfall insurance. Are you sure that you would not pay 5,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes, I am sure 2=No, I am willing to pay 5,000 VND → Skip to question 4.08</p>
<p>4.07 Can you tell me the maximum premium you would pay for this rainfall insurance between 0 and 5,000 VND?</p>	<p><i>in '000 VND</i> → Skip to question 4.21 (if greater than 0 only) <i>If equal to 0</i> → Skip to question 4.29</p>
<p>4.08 Are you willing to pay 15,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes → Skip to question 4.11 2=No</p>

<p>4.09 Keep in mind that if the rolling of the dice implies that we offer a price that is more than 15,000 VND, you will not receive a voucher for this rainfall insurance. Are you sure that you would not pay 15,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes, I am sure 2=No, I am willing to pay 15,000 VND → Skip to question 4.11</p>
<p>4.10 Can you tell me the maximum premium you would pay for this rainfall insurance between 5,000 and 15,000 VND?</p>	<p><i>in '000 VND</i> → Skip to question 4.21</p>
<p>4.11 Are you willing to pay 30,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes → Skip to question 4.14 2=No</p>
<p>4.12 Keep in mind that if the rolling of the dice implies that we offer a price that is more than 30,000 VND, you will not receive a voucher for this rainfall insurance. Are you sure that you would not pay 30,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes, I am sure 2=No, I am willing to pay 30,000 VND → Skip to question 4.14</p>
<p>4.13 Can you tell me the maximum premium you would pay for this rainfall insurance between 15,000 and 30,000 VND?</p>	<p><i>in '000 VND</i> → Skip to question 4.21</p>
<p>4.14 Are you willing to pay 45,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes → Skip to question 4.17 2=No</p>
<p>4.15 Keep in mind that if the rolling of the dice implies that we offer a price that is more than 45,000 VND, you will not receive a voucher for this rainfall insurance. Are you sure that you would not pay 45,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes, I am sure 2=No, I am willing to pay 45,000 VND → Skip to question 4.17</p>
<p>4.16 Can you tell me the maximum premium you would pay for this rainfall insurance between 30,000 and 45,000 VND?</p>	<p><i>in '000 VND</i> → Skip to question 4.21</p>
<p>4.17 Are you willing to pay 55,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes → Skip to question 4.20 2=No</p>

<p>4.18 Keep in mind that if the rolling of the dice implies that we offer a price that is more than 55,000 VND, you will not receive a voucher for this rainfall insurance. Are you sure that you would not pay 55,000 VND for a month of this rainfall insurance?</p>	<p>1=Yes, I am sure 2=No, I am willing to pay 55,000 VND → Skip to question 4.20</p>
<p>4.19 Can you tell me the maximum premium you would pay for this rainfall insurance between 45,000 and 55,000 VND?</p>	<p><i>in '000 VND</i> → Skip to question 4.21</p>
<p>4.20 Can you tell me the maximum premium you would be willing to pay, which as you say, is equal to or over 55,000 VND per month?</p>	<p><i>in '000 VND</i> → Skip to question 4.21</p>
<p><i>wtp_stated</i></p>	<p><i>wtp_stated = (4.07 if 4.06==1) or (4.10 if 4.09==1) or (4.13 if 4.12==1) or (4.16 if 4.15==1) or (4.19 if 4.18==1) or (4.20 if 4.17==1 or 4.18==2)</i></p>
<p>4.21 The amount you have stated you are willing to pay is [<i>wtp_stated</i>] VND. Could you confirm that you are willing to pay [<i>wtp_stated</i>] VND per hectare per month for this rainfall insurance?</p>	<p>1=Yes, I confirm → Skip to <i>Note_dice</i> 2=No, I do not confirm</p>
<p>4.22 What price are you willing to pay for a month of this rainfall insurance?</p>	<p>If > 0 → Skip to <i>Note_dice</i> If = 0 → Skip to question 4.29</p> <p><i>in '000 VND</i></p> <p><i>If the respondent is not willing to purchase insurance at any price, write 0.</i></p>
<p><i>wtp_confirmed</i></p>	<p><i>wtp_confirmed = (wtp_stated if 4.21==1) or (4.22 if 4.21==2)</i></p>

<p><i>Note_dice</i>: Your confirmed price is [<i>wtp_confirmed</i>] VND. Now we would like you to roll the two dice. The sum of the two dice will determine the price we offer you. If this price is equal to or lower than your valuation, you will receive a voucher to buy rainfall insurance at this price. If the price is higher than your valuation, you will not receive a voucher. However, you can always purchase this insurance from the provider at the normal market rates.</p>	
4.23 Record first dice-rolling result	
4.24 Record second dice-rolling result	
4.25 Record the sum of dice 1 and dice 2	
<i>dice_outcome</i>	$dice_outcome = (4.23 + 4.24)$
4.26 Select the price corresponding to the sum of dice as seen on the dice table Enter the price from the sum of the dice table.	40000=VND 40,000 25000=VND 25,000 17500=VND 17,500 12500=VND 12,500 7500=VND 7,500 2500=VND 2,500 5000=VND 5,000 10000=VND 10,000 15000=VND 15,000 20000=VND 20,000 30000=VND 30,000
<i>offer_made</i>	<i>offer_made</i> 2=Yes if $4.26 < wtp_confirmed \rightarrow$ Skip to Offer_note2 1=No if $4.26 > wtp_confirmed \rightarrow$ Skip to Offer_note1
<p>Offer_note1: <i>Read:</i> Unfortunately, we cannot offer weather index insurance at this moment. The price we offer is higher than your willingness to pay. → After note is read out by enumerator skip to question 4.29</p>	

Offer_note2:

Read: Congratulations! We offer you a voucher with which you can buy the rainfall insurance for [answer from 4.26] VND. The price is for covering one hectare of rice for 30 days. You can decide the length of coverage of this rainfall insurance policy yourself. Also, you can decide how many hectares you want to cover. This means that you can purchase insurance coverage for as many periods of 30 days as you like between February and June 2024 for an area up to 5 hectares. Each 30 days of coverage for each hectare costs [answer from 4.26] VND.

This voucher is only valid for the next 30 days. You can redeem this voucher price at any of your nearest Igloo insurance distributors.

Please prepare the voucher. Fill in the following fields on the voucher with the ID [voucher_id]:

1.) *Price offer on the voucher:* [answer from question 4.26]

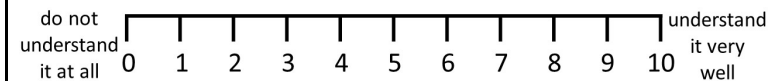
2.) *Applicable to: Name of the respondent of the Section*

3.) *Date of the issue:* [date_today]

When finished, hand over the voucher to the respondent.

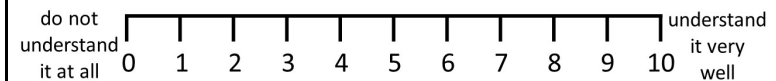
4.29 How easy or hard did you find this exercise? Please answer on a scale from 0 (do not understand it at all) to 10 (understand it very well).

Integer between 0-10



4.30 How do you rate your understanding of this rainfall insurance product? Please answer on a scale from 0 (do not understand it at all) to 10 (understand it very well).

Integer between 0-10



4.31 *Enumerator: Record the name of the person who answered this section*


Section 13: End of interview

Read: Thank you so much for your time for this interview. We have come to the end. After the next rice growing season, we would like to pay you another visit and ask about the weather you experienced and your harvest. We therefore would wish to record your phone number on which we can call you to arrange for the next visit. If you don't have an active phone number, you can give us the number of another household member who currently resides with you here.

13.01 Main mobile phone number of the respondent	<i>(this survey item will not be available for research)</i>
13.02 Alternative mobile phone number of another person of this household	<i>(this survey item will not be available for research)</i>

Section 14: Enumerator's final observation

This section should not be asked to respondents. It should be filled out by the enumerator immediately after the interview is completed.

14.01 Who was the main respondent?	<i>List (NAME) of household members (from question 1.02)</i>
14.02 How well did the interview go? Please answer on a scale from 0 (very bad) to 10 (very good).	<i>Integer between 0-10</i> 
14.03 Did the respondent have difficulties answering particular sections?	1=Yes 2=No → Skip to question 14.05
14.04 Which of the sections appeared difficult for the respondent?	<i>Multiple select</i> 1=Household roster 2=Migration and remittances 3=Agricultural insurance 4=Willingness to pay 5=Farming 6=Livestock and fishing 7=Weather shocks 8=Employment 9=Transfer Income 10=Wealth 11=Financial inclusion 12=Locus of Control
14.05 Was there anyone else present during the interview?	1=Yes 2=No → Skip to question 14.07

14.06 Who was present during the interview?	1=Other household member(s) 2=Neighbour, friend, relative 3=Village leader, government official 96=Other (specify)
14.07 Overall comment from the enumerator	<i>Text answer</i>
14.08 Time ended	

END OF HOUSEHOLD SURVEY