**Sri Lanka Environmental and Agricultural Decision-making Survey—Household Questionnaire**

**(SEADS-HH)**

**Head Farmer, Day 2 Module**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 1st session | MM: DD From To | 1 AC | 2 BC |
| 1. 2nd session | MM: DD From To | 1 AC | 2 BC |
| 1. 3rd session | MM: DD From To | 1 AC | 2 BC |
| 1. Interviewer Name & Code |  |  | |
| 1. Supervisor Name & Code |  |  | |

## Table ADP1: Farm Practices

Today we would like to start the conversation on a number of cultivation practices that are used in some communities throughout Sri Lanka. Start by asking the farmer if he has heard of this practice. If the farmer has not heard of the practice, you may skip to the next row. Please note the ‘skip’ and ‘spontaneous’ instructions. This table extends across multiple pages.

| **Cultivation Practice** | **Have you heard of?**  **(a)**  Yes 1 (go to b)  No 2 (skip to next row) | **Have you ever practiced…?**  **(b)**  Yes 1  No 2 (skip to f) | **Did you practice during the last Maha (2014/15) or Yala (2014) seasons?**  **(c)**  1=Maha  2=Yala  3=Both  4=Neither (skip to f) | **For what purpose…?**  **(d)**  All that apply; Spontaneous  1=Increase income  2=Due to water scarcity  3=Advised by expert(eg:agricultural extension officers)  4=Common in area/  5=Custom/tradition  6=Other | **Was it effective…?**  **(e)**  **SHOW CARD 4**  1=Not at all  2=A little  3=Moderately  4=Very | **Do you intend to practice in the future…?**  **(f)**  **1=Yes**  **2=No** | **Why haven’t you tried this?**  **(g)**  All that apply; spontaneous  [Ask only if never practiced] 1=Too much time  2=Too expensive  3=Insufficient labor  4=Not effective  5=Reduction in yield  6=Insufficient knowledge  7=Other (specify)  *8=No barriers* | **Do you consider this practice risky?**  **(h)**  **SHOW CARD 4**  1=Not at all  2=A little  3=Moderately  4=Very |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Ask only if** ever **practiced** - | | |
| 1. Bethma | 1 2 | 1 2 |  |  |  | 1 2 |  |  |
| 1. Kakulan/ Kakulama | 1 2 | 1 2 |  |  |  | 1 2 |  |  |
| 1. Planted other field crops in low land | 1 2 | 1 2 |  |  |  | 1 2 |  |  |
| 1. Recycling irrigation drainage water; capturing and re-using drainage water | 1 2 | 1 2 |  |  |  | 1 2 |  |  |
| 1. Short-duration seed variety (early yielding varieties; short duration means less than 3.5 months) | 1 2 | 1 2 |  |  |  | 1 2 |  |  |
| 1. Parachute Method (using trays) | 1 2 | 1 2 |  |  |  | 1 2 |  |  |
| 1. Transplanted Seedlings (vs. broadcast method, other than parachute method; by hand or by machine) | 1 2 | 1 2 |  |  |  | 1 2 |  |  |
| 1. Alternate Wetting and Drying Irrigation; Saturation irrigation | 1 2 | 1 2 |  |  |  | 1 2 |  |  |
| 1. Low flood depth irrigation (< 3 inches deep) | 1 2 | 1 2 |  |  |  | 1 2 |  |  |
| 1. Sri Method (SRI; System of Rice Intensification; Madagascar method) (keeping a small distance between two plants and planting only one plant in each place) | 1 2 | 1 2 |  |  |  | 1 2 |  |  |

## Table FIN 3: Voluntary Insurance

Can you please tell us whether this household currently holds any of the following forms of insurance.

Item #5 refers to cropland insurance that is purchased voluntarily, such as through the Agrarian and Agricultural Insurance Board. Cropland insurance that the farmer is required to purchase (such as with a loan or when buying fertilizer) should not be counted here. If the household holds any forms of insurance not listed here, enter them in line 6.

|  |  |
| --- | --- |
| 1. Life | Yes 1  No 2 |
| 2. Property | Yes 1  No 2 |
| 3. Home | Yes 1  No 2 |
| 4. Voluntary cropland insurance  (this does not include fertilizer insurance scheme or insurance required for loan) | Yes 1  No 2 |
| 5. Are you a member of a farmer’s pension? | Yes 1  No 2 |
| 6. Other voluntary Insurance excluding vehicle insurance specify | Yes 1  No 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Table FIN 4: Head Farmer Debt | | | | | | | | | | | | Have you got any debt or a borrowed amount from any source that is yet to be settled?. If the farmer has debt, collect the following information on 5 loans. If the farmer has no debt, mark the table as NA. | | | | | | | | | | | | **No. of loan**  **(a)** | **Purpose?**  **(b)**  See codes | **Sources**  **(c)**  See codes | | **How much did you receive?**  **(d)**  Rupees: | **Loan Term**  **(e)**  If giving in season, or any other time period, convert to months  Months:  99=No fixed term 999 | **Are you repaying this loan by cash, by crop, or a combination?**  **(e.2)**  1=Cash only  2=Crop only skip to g  3=Both cash and crop  4=Other | Ask only if paying in cash  (e.2 = 1 or 3)  **Interest Rate**  **(f)** | | | Ask only if paying in form other than cash (e.2 = 2, 3, or 4)  **If not paying in cash, how are you paying back the loan?**  **(if a crop, which crop and how much is owed?)**  **(g)** | | **(f.1)**  % | **Unit (f.2)**  1=Once a week  2=Twice per month  3=Once a month  4=Seasons  5=Yearly  6=Other (specify) | | | **1** |  |  | |  |  |  |  |  | |  | | **2** |  |  | |  |  |  |  |  | |  | | **3** |  |  | |  |  |  |  |  | |  | | **4** |  |  | |  |  |  |  |  | |  | | **Purpose (b)**  1=Consumption  2=Education fee  3=Ag production 3  4=Startup or expand non-farm enterprises 4  5=Migration 5 | | | 6=House construction  7=Marriage  8=Funeral  9=Health  10=Other (specify) | | | **Source (c)**  Private commercial bank 1  Government commercial bank 2  Rural bank 3  Samurdhi 4  Sanasa 5  Rural development bank 6  Special projects (e.g. Divi Neguma) 7 | | | Friends/neighbor 8  Private loaner 9  Cooperatives 10  From working place (i.e., formal sector employers) 11  Others (specify) 12 | | |

**Table ENV1: Perceived Changes in Environment**

Ask each of the statements and record the respondent’s perception of whether the following conditions have changed since he/she was a child. If the farmer states that he/she does not know or cannot say, indicate this in the last column. Do not offer ‘can’t say’ as a response option.

According to your experience since childhood… (Read out the statement)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. The environment temperature | 1  Has decreased | 2  Has not changed | 3  Has increased |  | 4  Can’t say |
| 1. The beginning of the rain in Maha season | 1  Is earlier | 2  Has not changed | 3  Is later |  | 4  Can’t say |
| 1. The rainfall during Maha season | 1  Has decreased | 2  Has not changed | 3  Has increased |  | 4  Can’t say |
| 1. The spread of rain during the Maha season | 1  Less spread | 2  Has not changed | 3  More spread |  | 4  Can’t say |
| 1. Heavy rain within a short period in Maha season | 1  Has decreased | 2  Has not changed | 3  Has increased |  | 4  Can’t say |
| 1. The beginning of the rain in Yala season | 1  Is earlier | 2  Has not changed | 3  Is later |  | 4  Can’t say |
| 1. The rainfall during Yala season | 1  Has decreased | 2  Has not changed | 3  Has increased |  | 4  Can’t say |
| 1. The spread of rain during the Yala season | 1  Less spread | 2  Has not changed | 3  More spread |  | 4  Can’t say |
| 1. Heavy rain within a short period in Yala season | 1  Has decreased | 2  Has not changed | 3  Has increased |  | 4  Can’t say |
| 1. the predictability of rainfall | 1  Has decreased | 2  Has not changed | 3  Has increased |  | 4  Can’t say |
| 1. The frequency of drought (a period of severe water shortage, which is much more severe than a typically dry Yala) | 1  Has decreased | 2  Has not changed | 3  Has increased |  | 4  Can’t say |

|  |
| --- |
| Are there any other environmental conditions that I didn’t mention here that you’ve noticed a change in? (enter up to 3) |
| 12a |
| 12b |
| 12c |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table  ENV 3: Potential problems for agricultural yields (including paddy and OFCs)** | | | | | | | |
| **In your opinion, how much of a problem do you think …. will be to your agricultural yields in the future? SHOW CARD 5** | | | | | | | |
|  | | A | | | | **B** | |
|  |  | **Yield will not be affected**  **(a1)** | **Yield will be somewhat affected**  **(a2)**  **(ask (b))** | **Yield will be moderately affected**  **(a3)**  **(ask (b))** | **Yield will be extremely affected**  **(a4)**  **(ask (b))** | | **Affected in Maha and/or Yala**  1=Maha only  2=Yala only  3=Both seasons |
| **1** | **Less rainfall** | 1 | 2 | 3 | 4 | | 1 2 3 |
| **2** | **More rainfall** | 1 | 2 | 3 | 4 | | 1 2 3 |
| **3** | **Drought (a period of severe water shortage, which is much more severe than a typical dry season)** | 1 | 2 | 3 | 4 | | 1 2 3 |
| **4** | **Uncertainty of the start of the monsoon (in Mahaweli interview may need to probe for perceptions about rainfall)** | 1 | 2 | 3 | 4 | | 1 2 3 |
| **5** | **Irrigation water not being distributed evenly by government officials** (if rain-fed farmer, code a1) | 1 | 2 | 3 | 4 | | 1 2 3 |
| **6** | **Damages by Wild animals (elephants, monkeys, peacocks wild boars, parrots)** | 1 | 2 | 3 | 4 | | 1 2 3 |
| **7** | **Pests (insects, worms)** | 1 | 2 | 3 | 4 | | 1 2 3 |
| **Are there any other problems for your agricultural yield that I have not mentioned? (enter up to 3 below)** | | | | | | | |
| **8a** | | | | | | | |
| **8b** | | | | | | | |
| **8c** | | | | | | | |

## Table NDP1: Drought

SHOW CARD 6

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Not at all | To a small extent | To a moderate extent | To an extreme extent |
| 1. In case of an unexpected drought, to what extent would it affect your family? | 1 | 2 | 3 | 4 |

## Table NDP4: Disaster Outreach

I am going to ask whether you or any of your family members have received any information /knowledge/education about drought or other disasters.

In the last 5 years, have you or any of your family members have ever …

|  |  |  |
| --- | --- | --- |
|  | Yes | No |
| 1. Attended a meeting in order to prepare for a drought? | 1 | 2 |
| 1. Attended a meeting in order to prepare for any other disaster? | 1 | 2 |
| 1. Have you received information about drought? | 1 | 2   * If no, skip to next table |
| 1. (if yes) From whom? | 1 = Media  2 = Farmer organization  3 = Government official  4= NGO  5=Other | |

## Table NDP7: Aid received in the past for drought

In the past 5 years, has your household actually received any aid due to drought. If yes, I will read out one by one…………..(Int Read out) ?

|  |  |
| --- | --- |
|  | 1=Yes 2=No |
| 1. Drinking Water | 1 2 |
| 1. Food (cooked food/dry rations) | 1 2 |
| 1. Compensation for lost income (e.g., giving seeds, giving fertilizer, giving money) | 1 2 |
| 1. Loan forgiveness | 1 2 |
| 1. Aid in rehabilitation (to move to a temporary/permanent shelter) | 1 2 |
| 1. Other (specify) | 1 2 |

## Table NDP 9: Expected assistance

If a drought were to occur, how likely is it that you would receive assistance from…..(Int read out)

SHOW CARD 7

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Not at all likely | | Somewhat likely | Very likely |
| 1. The government | 1 | 2 | | 3 |
| 1. My relatives | 1 | 2 | | 3 |
| 1. Community members/organizations | 1 | 2 | | 3 |
| 1. Religious groups | 1 | 2 | | 3 |
| 1. NGOs or other voluntary groups (societies) that work in the community | 1 | 2 | | 3 |
| 1. Other sources? (specify below) |  |  | |  |
|  | 1 | 2 | | 3 |
|  | 1 | 2 | | 3 |
|  | 1 | 2 | | 3 |

**Table CAP 5: Adaptive Capacity**

***I will read out some statements about your beliefs regarding your ability as a farmer to adapt to climate change, or to change your farming practices accordingly. Please tell me which answer best describes your response.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Show Card 8** | (1)  Not at all | (2)  A little amount | (3)  A moderate amount | (4)  A large amount | (4)  Others |
| 1. With the changing climatic conditions, how far do you think it is necessary to change current farming practices? | 1 | 2 | 3 | 4 | 5 |
| 1. How far do you have the knowledge to change current farming practices with the climate change such as drought? | 1 | 2 | 3 | 4 | 5 |
| 1. Do you have enough money in your hand to change current farming practices to match with the climate change, like drought? | 1 | 2 | 3 | 4 | 5 |
| 1. How much do you like to use new farming techniques to overcome problems in farming or to increase the yield? | 1 | 2 | 3 | 4 | 5 |

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## Table CAP 3: Efficacy in Farming

I will read out some statements about how confident you are in your abilities as a farmer. Please tell me which answer best describes your response.

Show Card 8

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. When you are doing farming, *how far* do you *use* your traditional knowledge? | 1  Not at all | 2  A little | 3  A moderate amount | 4  Very often | (4)  Others |
| 1. For different insects, weeds, or pests how far do you know about selecting proper pesticides, insecticides, weedicides or other methods to overcome the problem? | 1  Not at all | 2  A little | 3  A moderate amount | 4  Very often | (4)  Others |
| 1. Do you buy fertilizer from the store and apply to the paddy field? | Yes  1 | No  2 |  |  |  |
| 1. When there is low water, how far do you know how to do the farming for the season with managing water that you have? | 1  Not at all | 2  A little | 3  A moderate amount | 4  Very often | (4)  Others |
| 1. If there is a problem in the farming, whose opinion do you trust the most? | Government official related to agriculture  1 | Other farmer(s)  2 | Farmer organization  3 | My own opinion  4 | (4)  Others |

**Table PID 2: Risks taken in farming (2A)**

I will read out some statements about your willingness to take risks in farming. Please tell me which answer best describes your response. (Read out answers)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1. Imagine a season in which there is not enough water for farming. Would you consider farming with the expectation of the rain water? | 1  Yes | 2  No |  |  |  |  |
| 1. Imagine a season in which the Farming Organization or Irrigation dept/ Mahaveli official recommends that you cultivate half of your land. How much of your land would you plant? *(***Read out answers)** | 1  None at all | 2  Less than half | 3  Half your land | 4  More than half | 5  All of your land | 6  Other |
| 1. Imagine a season in which the Farming Organization or Irrigation dept/ Mahaveli official recommend a 3-month variety. What variety would you plant?   *(***Read out answers)** | 1  2.5 month variety | 2  recommended3 month variety | 3  3.5 month variety | 4  4 month variety | 5  Other |  |
| 1. If you get to know about a seed variety that promises to improve yields, but is vulnerable to disease, flood, or drought; would you consider using it? | 1  Yes | 2  No |  |  |  |  |

## Table CAP 4: Locus of Control over Farming

I will read out some statements about how much your own behavior impacts your yield, compared to other factors that are outside of your control (e.g., luck, climate/weather). Please tell me which answer best describes your response.

SHOW CARD 9

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | (1)  Not at all | | (2)  Moderately | (3)  To a large extent |
| 1. If there is money in the hand, how much would affect the yield? | 1 | 2 | | 3 |
| 1. How far do government policies decisions affect the yield? (such as water, fertilizer) | 1 | 2 | | 3 |
| 1. How far do things like luck and evil eye affect the yield? | 1 | 2 | | 3 |
| 1. How far do God and destiny affect the yield? | 1 | 2 | | 3 |
| 1. How far do weather and climate affect the yield? | 1 | 2 | | 3 |
| 1. How far does community harmony affect your yield? | 1 | 2 | | 3 |
| 1. If you do your farming activity properly, how much does it affect your yield | 1 | 2 | | 3 |

## Table CAP 1 Collective Actions

I will read out some statements about communal activities that take place in the village. Communal activities are non-paid activities. Please tell me which answer best describes your response.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | (1)  Not at all  < 10% | (2)  Rarely  10 – 40% | (3)  Mostly  40 – 80% | | (4)  Very  > 80% | (5)  Not applicable |
| 1. How willing are the farmers in this village to participate in cleaning the canal or bunds? | | 1 | 2 | 3 | | 4 | 5 |
| 1. As a farmer, how willing are you to participate in cleaning the canal or bunds in the village? | | 1 | 2 | 3 | | 4 | 5 |
| 1. To what extent do the villagers of this village help each other? | | 1 | 2 | 3 | | 4 | 5 |
|  | | | | | | | |
|  | 1=Yes go to (b)  2=No | | | | (b)  If yes, do you do this?  1=Yes 2=No | | |
| 1. Do farmers in this village share farming equipment such as tractors, sprayers etc. among families in this village | 1 2 | | | | 1 2 | | |
| 1. Do farmers in this village practice attamt/help each other for farming activities without taking money | 1 2 | | | | 1 2 | | |
| 1. Is this village doing yaya kremaya (i.e., all farmers do land preparation and sowing together or doing things like “joined” pest management | 1 2 | | | | 1 2 | | |
| 1. Does this village organize new year festivals, Processions (Perahera), Dansal etc | 1 2 | | | | [do you help organize]  1 2 | | |

**Table CAP 2: Social Cohesion**

I will read out some statements about how much people help each other in this village Please tell me which answer best describes your response.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Would you have another farmer take care of your farming activities if you were unable (e.g., bunding, fertilizing) | 1  Yes | 2  No |  |  |
| 2 | Do you trust other farmers to do yaya practice/coordinated eradication of insects)  Show card 8 | 1  Not at all | 2  A little | 3  A moderate amount | 4  Very often |
| 3 | Overall, to what extent do you think people in village are harmonious? | 1  Not at all | 2  A little | 3  A moderate amount | 4  Very often |

**PID 1: Personality and Personal Changes**

## **Table PID 1A – Positive and Negative Affect**

I am going to read to you a few words that describe feelings. Could you please tell me how often you actually felt this way last week? *SHOW CARD 1*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Never  (0 days) | A small amount of the time  (1-2 days) | Moderately  (3-4 days) | Most of the time  (5-6 days) | All of the time  (7 days) |
| **1b. Happy** | 1 | 2 | 3 | 4 | 5 |
| **2b. Sad** | 1 | 2 | 3 | 4 | 5 |
| **3b. Nervous** | 1 | 2 | 3 | 4 | 5 |
| **4b. Serene** | 1 | 2 | 3 | 4 | 5 |

## **Table. PID 1B. Current Satisfaction**

I will read out some statements about how you feel nowadays. Please tell me which answer best describes your response.

SHOW CARD 9

|  |  |  |  |
| --- | --- | --- | --- |
|  | Dissatisfied | Neither dissatisfied or satisfied | Satisfied |
| 1. How satisfied are you with your current work situation NOWADAYS | 2 | 3 | 4 |
| 2. How secure do you feel economically NOWADAYS? | 2 | 3 | 4 |
| 3. How satisfied are you with your social activities NOWADAYS? | 2 | 3 | 4 |

|  |  |
| --- | --- |
| **Table PID 2: Health and Well-being** | |
| INTERVIEWER: use the ladder SHOW CARD 2 for the following questions. Before asking the questions, explain what is the best and what is the worst etc..  Assume that this ladder is a way of representing your life. The top rung of the ladder represents the best possible life for you (rung #10). The bottom rung of the ladder represents the worst possible life for you (rung #1).  C:\Users\dell\Desktop\ladder.png | Enter ladder rung # |
| 1. On which step of the ladder do you feel you personally stand at this time? |  |
| 1. On which step do you think you will stand in about five years from now? Please give your best guess. |  |