

# Teach and Text\_phone endline

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## SURVEY IDENTIFICATION INFORMATION QUESTIONNAIRE DESCRIPTION

### HOUSEHOLD IDENTIFICATION

No sub-sections, No rosters, Questions: 25, Static texts: 4, Variables: 2.

### PROGRAM DELIVERY

No sub-sections, No rosters, Questions: 13.

### BRASSICA PRODUCTION

Sub-sections: 1, Rosters: 1, Questions: 17, Static texts: 2.

### BOK CHOY PRODUCTION

Sub-sections: 1, Rosters: 1, Questions: 15, Static texts: 2.

### YARD-LONG BEAN PRODUCTION

Sub-sections: 1, Rosters: 1, Questions: 16, Static texts: 2.

### IPM AND PESTICIDE PERCEPTIONS

No sub-sections, No rosters, Questions: 7, Static texts: 2.

### APPENDIX A — INSTRUCTIONS

### APPENDIX B — CATEGORIES

### LEGEND

*SURVEY IDENTIFICATION INFORMATION*  
*QUESTIONNAIRE DESCRIPTION*

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**Basic information**

*Title* Teach and Text\_phone endline

## HOUSEHOLD IDENTIFICATION

Interview key at baseline	TEXT SCOPE: HIDDEN interviewkey_baseline .....
Enumerator name	TEXT enumerator .....
Name of the respondent	TEXT SCOPE: IDENTIFYING respondent .....
Treatment	SINGLE-SELECT SCOPE: IDENTIFYING treatment 00 <input type="radio"/> Control 01 <input type="radio"/> Teach 02 <input type="radio"/> Teach & Text 03 <input type="radio"/> Text
If this person was in a treatment group, for which crop did they receive the treatment.	SINGLE-SELECT treatment_crop -99 <input type="radio"/> N/A 01 <input type="radio"/> Brassicas 02 <input type="radio"/> Yard long bean
Phone number from list	TEXT SCOPE: IDENTIFYING B2 .....
Alternative phone number	TEXT B2_alt .....
Were you able to connect via the supplied phone number	SINGLE-SELECT access 00 <input type="radio"/> The phone is answered by the respondent 01 <input type="radio"/> The phone is answered but the respondent is not available 02 <input type="radio"/> The phone is answered by an unrelated person 03 <input type="radio"/> The phone is not answered after waiting 04 <input type="radio"/> You get a busy signal 05 <input type="radio"/> The phone is answered and immediately hang up 06 <input type="radio"/> The phone is answered by an answering machine/mailbox 07 <input type="radio"/> The operator tells you that the phone is not valid or not in service 08 <input type="radio"/> The operator tells you that connection is not possible at this time 09 <input type="radio"/> Not able to connect for other reason
Please specify the reason why you could not connect.	TEXT access_other .....

E access==9

STATIC TEXT

E access.InList(1, 3, 4, 5, 6, 8)

*Please try to call again later. Write down dates and times of calling together with the name and the phone number of the person. 1) Try to call at different times of the day split over at least two weekdays: Call in each time block of: 7.30am-9am, 9am-12pm, 12pm-6.30pm, 6.30pm-9pm. Leave at least two hours between calls, except if the line is busy or you were asked to call back at a certain time. 2) If this does not work, call at different times on the weekend. Call in each time block of: 9am-12pm, 12pm-6.30pm, 6.30pm-9pm. 3) After that, please tell your supervisor.*

STATIC TEXT

E access.InList(2, 7, 9)

*Write down the name, phone number, and village. Put it on a list with other farmers you cannot reach and send it to your supervisor in the end of the day.*

STATIC TEXT

*The primary respondent should be the person mainly in charge of vegetable production. This does not need to be the head of the household.*

Interview date	DATE: CURRENT TIME date .....
VARIABLE "May"	STRING month
VARIABLE date.Value.Year - 1	DOUBLE lastyear
In which province are you?	SINGLE-SELECT SCOPE: HIDDEN province 01 <input type="radio"/> Banteay Meanchey 02 <input type="radio"/> Siem Reap
In which district are you?	SINGLE-SELECT: CASCADING SCOPE: HIDDEN district 01 <input type="radio"/> Monkul Borei 02 <input type="radio"/> Phreahnet Phreah 03 <input type="radio"/> Pouk 04 <input type="radio"/> Krong Siem Reap 05 <input type="radio"/> Angkor Thom 06 <input type="radio"/> Soutr Nikom 07 <input type="radio"/> Prasat Bakong 08 <input type="radio"/> Serei Sophoin

<p>In which commune are you?</p>	<div> <div>SINGLE-SELECT: CASCADING</div> <div>SCOPE: HIDDEN</div> <div>commune</div> <div> <div>01</div> <div><input type="radio"/></div> <div>Ou Prasat</div> </div> <div> <div>02</div> <div><input type="radio"/></div> <div>Soe</div> </div> <div> <div>03</div> <div><input type="radio"/></div> <div>Chamnaom</div> </div> <div> <div>04</div> <div><input type="radio"/></div> <div>Rohat Tuek</div> </div> <div> <div>05</div> <div><input type="radio"/></div> <div>Russei Kraok</div> </div> <div> <div>06</div> <div><input type="radio"/></div> <div>Chopvary</div> </div> <div> <div>07</div> <div><input type="radio"/></div> <div>Phreahnet Phreah</div> </div> <div> <div>08</div> <div><input type="radio"/></div> <div>Chhnou Meanchey</div> </div> <div> <div>09</div> <div><input type="radio"/></div> <div>Keo Por</div> </div> <div> <div>10</div> <div><input type="radio"/></div> <div>Khnat</div> </div> <div> <div>11</div> <div><input type="radio"/></div> <div>Sangkat Krobeiy riel</div> </div> <div> <div>12</div> <div><input type="radio"/></div> <div>Leang Dai</div> </div> <div> <div>13</div> <div><input type="radio"/></div> <div>Dom Daek</div> </div> <div> <div>14</div> <div><input type="radio"/></div> <div>Samrong</div> </div> <div> <div>15</div> <div><input type="radio"/></div> <div>Chansar</div> </div> <div> <div>16</div> <div><input type="radio"/></div> <div>Kantraing</div> </div> <div> <a href="#">And 2 other symbols [3]</a> </div> </div>
<p>Village name</p>	<div> <div>SINGLE-SELECT: CASCADING</div> <div>village</div> <div> <div>01</div> <div><input type="radio"/></div> <div>Phnom Prasat</div> </div> <div> <div>02</div> <div><input type="radio"/></div> <div>Chamkarlouk</div> </div> <div> <div>03</div> <div><input type="radio"/></div> <div>Phnomthomcheung</div> </div> <div> <div>04</div> <div><input type="radio"/></div> <div>Rachamkar Chek</div> </div> <div> <div>05</div> <div><input type="radio"/></div> <div>Plov damrei Loeu</div> </div> <div> <div>06</div> <div><input type="radio"/></div> <div>Osoe</div> </div> <div> <div>07</div> <div><input type="radio"/></div> <div>Tabun</div> </div> <div> <div>08</div> <div><input type="radio"/></div> <div>Srae Prey</div> </div> <div> <div>09</div> <div><input type="radio"/></div> <div>Bos Tanloab</div> </div> <div> <div>10</div> <div><input type="radio"/></div> <div>Ka Svay</div> </div> <div> <div>11</div> <div><input type="radio"/></div> <div>Neang Ket</div> </div> <div> <div>12</div> <div><input type="radio"/></div> <div>Chop</div> </div> <div> <div>13</div> <div><input type="radio"/></div> <div>Roul Chrouk</div> </div> <div> <div>14</div> <div><input type="radio"/></div> <div>Prasat</div> </div> <div> <div>15</div> <div><input type="radio"/></div> <div>Chakkreiy</div> </div> <div> <div>16</div> <div><input type="radio"/></div> <div>Poy Kdoeung</div> </div> <div> <a href="#">And 35 other symbols [2]</a> </div> </div>
<p>STATIC TEXT</p> <p><i>Good morning/afternoon. My name is %enumerator% and I am from Battambang University. Together with the World Vegetable Center, we are doing a survey among 800 farmers growing Chai Sim, Pakchoy, and yard long bean. The purpose of this study is to better understand pest and disease problems in vegetable production and how farmers manage these problems. One year ago we visited your household and now we would like to see what changed. Therefore,we would like to ask some of the questions again. We will ask you some basic information about your household and your farm. The interview will take ca. 15 minutes. We treat all data that could be used to identify you in confidential manner. We will not share it with any external party or organization without your consent. All other information is for research only. The information will only be analyzed together with the data of all other farmers. We would highly appreciate if you could participate in this study. I would like you to answer questions truthfully, in your best possible way, and to the best of your knowledge. If you don't know the answer to some of my questions, you can simply tell me.</i></p>	
<p>Do you understand what we will do with the information and are you willing to participate in this survey?</p>	<div> <div>SINGLE-SELECT</div> <div>participation</div> <div> <div>01</div> <div><input type="radio"/></div> <div>Yes</div> </div> <div> <div>00</div> <div><input type="radio"/></div> <div>No</div> </div> </div>

<p>Did you grow chai sim, chinese cabbage, chinese kale, pakchoy, or yardlong bean since October %lastyear%?</p> <p>E participation == 1</p> <p>V1 \$justzero</p> <p>M1 The answer cannot be no/none and another option at the same time.</p>	<p>MULTI-SELECT growsveg</p> <p>00 <input type="checkbox"/> No, none of them</p> <p>01 <input type="checkbox"/> Grows chai sim/chinese cabbage/chinese kale</p> <p>02 <input type="checkbox"/> Grows pakchoy</p> <p>03 <input type="checkbox"/> Grows yardlong bean</p>
<p>Who are you talking to?</p> <p>E participation==1</p>	<p>SINGLE-SELECT: LINKED confirm_respondent</p>
<p>Who lives in this household? Can you please tell me their names? <u>Please start with yourself.</u></p> <p>I Household members are: Persons regularly sharing meals and living under the same roof for the last 6 months. Include servants who primarily eat and sleep in your house. Do not include servants and g <a href="#">And 49 other symbols [1]</a></p>	<p>LIST B3</p> <p>SCOPE: HIDDEN</p> <p>.....</p>
<p>INTERVIEWER: Is the respondent on the list of the household members?</p> <p>E confirm_respondent.IsNoneOf(0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18) &amp;&amp; participation==1</p> <p>V1 self!=1 &amp;&amp; confirm_respondent.IsNoneOf(0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)</p> <p>M1 If the person is on the list, please just mark them.</p>	<p>SINGLE-SELECT respondent_new</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>INTERVIEWER: What is the name of this new respondent?</p> <p>E respondent_new==0</p>	<p>TEXT name_respondent_new</p> <p>.....</p>
<p>INTERVIEWER: What is the sex of the new respondent?</p> <p>E respondent_new==0</p>	<p>SINGLE-SELECT respondent_new_B4</p> <p>00 <input type="radio"/> Male</p> <p>01 <input type="radio"/> Female</p>
<p>Which relationship do you have to the household head?</p> <p>E respondent_new==0</p>	<p>SINGLE-SELECT respondent_new_B5</p> <p>01 <input type="radio"/> Household head</p> <p>02 <input type="radio"/> Spouse</p> <p>03 <input type="radio"/> Son/daughter</p> <p>04 <input type="radio"/> Son in law/daughter in law</p> <p>05 <input type="radio"/> Grandson/ganddaughter</p> <p>06 <input type="radio"/> Parent</p> <p>07 <input type="radio"/> Parent in law</p> <p>08 <input type="radio"/> Brother/sister</p> <p>09 <input type="radio"/> Brother in law/sister in law</p> <p>10 <input type="radio"/> Nephew/niece</p> <p>11 <input type="radio"/> Cousins</p> <p>12 <input type="radio"/> Other family memer</p> <p>13 <input type="radio"/> Non-family member</p>
<p>Please specify the relation the new respondent has to the household head</p> <p>E respondent_new_B5==12    respondent_new_B5==13</p>	<p>TEXT respondent_new_B5a</p> <p>.....</p>

<p>How old are you?</p> <p>I Only enter completed years. Infants that are less than 12 month old are recorded as "0".</p> <p>E respondent_new==0</p> <p>V1 self.InRange(0,120)</p> <p>M1 Please enter a valid age.</p>	<p>NUMERIC: INTEGER</p> <p>respondent_new_B6</p> <p>-----</p>
<p>For how many years did you attend a school or another form of formal education?</p> <p>E respondent_new_B6&gt;=18</p> <p>V1 (respondent_new_B6 - respondent_new_B7 ) &gt; 4</p> <p>M1 Compared to the age these are too many years of education.</p> <p>W2 self&lt;16</p> <p>M2 Please confirm that this person spend more than 15 years in &lt;u&gt;formal education&lt;/u&gt;, e.g. due to university education.</p>	<p>NUMERIC: INTEGER</p> <p>respondent_new_B7</p> <p>-----</p>

# PROGRAM DELIVERY

E treatment !=0 && participation==1

<p>Did you receive a booklet about pests and diseases in yard long bean and brassicas?</p> <p>E treatment!=0</p>	<p>SINGLE-SELECT T1</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p> <p>-99 <input type="radio"/> Do not know</p>
<p>Would you say the booklet was very useful, mostly useful, somehow useful, only a little useful, or not useful at all?</p> <p>E T1==1</p>	<p>SINGLE-SELECT T2</p> <p>05 <input type="radio"/> Very useful</p> <p>04 <input type="radio"/> Mostly useful</p> <p>03 <input type="radio"/> Somehow useful</p> <p>02 <input type="radio"/> A little useful</p> <p>01 <input type="radio"/> Not useful at all</p>
<p>How often did you visit a training on production of brassicas/yardlong bean since last October?</p> <p>I Enter -99 if the respondent does not know if somebody in the household visited the training. If the respondent is uncertain, enter the number he or she thinks is correct.</p> <p>E treatment.InList(1,2)</p> <p>W1 self.InRange(0, 3)    self== -99</p> <p>M1 Only 3 trainings were offered.</p>	<p>NUMERIC: INTEGER T3</p> <p>-----</p>
<p>Were you informed that there was a training?</p> <p>E treatment.InList(1,2) &amp;&amp; T3==0</p>	<p>SINGLE-SELECT T4</p> <p>00 <input type="radio"/> No</p> <p>01 <input type="radio"/> Yes</p>
<p>Why did you not participate in all trainings</p> <p>E treatment.InList(1,2) &amp;&amp; T3&lt;3 &amp;&amp; T3&gt;=0 &amp;&amp; T4!=0</p>	<p>MULTI-SELECT T5</p> <p>01 <input type="checkbox"/> Bad location of training</p> <p>02 <input type="checkbox"/> Bad timing of training</p> <p>03 <input type="checkbox"/> Not interested in topic</p> <p>04 <input type="checkbox"/> Did not like the training</p> <p>05 <input type="checkbox"/> Was not at home during the time of the training (migrated)</p> <p>06 <input type="checkbox"/> Other</p>
<p>Please describe the other reason why you did not participate in all trainings.</p> <p>E T5.Contains(6)</p>	<p>TEXT T5a</p> <p>-----</p>
<p>Would you say the training was very useful, mostly useful, somehow useful, only a little useful, or not useful at all?</p> <p>E T3&gt;=1</p>	<p>SINGLE-SELECT T6</p> <p>05 <input type="radio"/> Very useful</p> <p>04 <input type="radio"/> Mostly useful</p> <p>03 <input type="radio"/> Somehow useful</p> <p>02 <input type="radio"/> A little useful</p> <p>01 <input type="radio"/> Not useful at all</p>
<p>Were you informed that you would receive text messages about pest &amp; disease control?</p> <p>E treatment.InList(2, 3)</p>	<p>SINGLE-SELECT T7</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>



<p>How many text messages about pest and diseases control did you receive since October?</p> <p>E <code>treatment.InList(2, 3)</code>  W1 <code>self.InRange(0, 20)</code>  M1 Only 20 messages were send per farmer.</p>	<p>NUMERIC: INTEGER T8</p> <p>-----</p>
<p>How many of the messages did you read?</p> <p>E <code>T8&gt;=1</code>  V1 <code>self&lt;=T8</code>  M1 The number of read messages cannot be larger than the number of received messages.</p>	<p>NUMERIC: INTEGER T9</p> <p>-----</p>
<p>Why did you not read all messages?</p> <p>E <code>T8&gt;=1 &amp;&amp; T9&lt;T8</code></p>	<p>MULTI-SELECT T10</p> <p>01 <input type="checkbox"/> Problems accessing the messages (technical problems)  02 <input type="checkbox"/> Problems reading the messages (too small, illiterate, etc.)  03 <input type="checkbox"/> The phone is not my own  04 <input type="checkbox"/> Not interested in topic  06 <input type="checkbox"/> Other</p>
<p>Please describe the other reason why you did not read all messages.</p> <p>E <code>T10.Contains(6)</code></p>	<p>TEXT T10a</p> <p>-----</p>
<p>Would you say the text messages were very useful, mostly useful, somehow useful, only a little useful, or not useful at all?</p> <p>E <code>T9&gt;=1</code></p>	<p>SINGLE-SELECT T11</p> <p>05 <input type="radio"/> Very useful  04 <input type="radio"/> Mostly useful  03 <input type="radio"/> Somehow useful  02 <input type="radio"/> A little useful  01 <input type="radio"/> Not useful at all</p>

BRASSICA PRODUCTION

E participation == 1 && growsveg.Contains(1) && !growsveg.Contains(2) && (!growsveg.Contains(3) | treatment\_crop!=2 | treatment==0)

Which of the three crops chai sim, chinese cabbage, and chinese cale did the household grow since last October?	MULTI-SELECT 01 <input type="checkbox"/> Chai sim 02 <input type="checkbox"/> Chinese cabbage 03 <input type="checkbox"/> Chinese kale	brassica
Which of the three crops was grown on the largest area since October?  V1 (self==1 && brassica.Contains(1))    (self==2 && brassica.Contains(2))    (self==3 && brassica.Contains(3)) M1 This does not fit the answer above.	SINGLE-SELECT 01 <input type="radio"/> Chai sim 02 <input type="radio"/> Chinese cabbage 03 <input type="radio"/> Chinese kale	brassica_b
Did you use mulching during the last 12 months? If yes, which materials did you use?  V1 self.ContainsOnly(0)    !self.Contains(0) M1 You cannot say "no mulching" and choose a material at the same time.	MULTI-SELECT 00 <input type="checkbox"/> No mulching 01 <input type="checkbox"/> Plastic foil 02 <input type="checkbox"/> Biodegradable plastic 03 <input type="checkbox"/> Rice straw 04 <input type="checkbox"/> Other organic material 05 <input type="checkbox"/> Other	E4
Please define the material used for mulching.  E E4.ContainsAny(4, 5)	TEXT  .....	E4a

STATIC TEXT

In the following I will ask you about the different plots where you grew %brassica\_b%. This is to get an idea how much %brassica\_b% you produced over all. Please start by telling me about the largest plot on which you grew %brassica\_b% after October of last year.

On how many different plots did you grow %brassica_b% after October %lastyear%?  I This refers to the seperate fields that %brassica_b% was grown on, not the number of times it was grown (which will be asked later).	NUMERIC: INTEGER  -----	E10a
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BRASSICA PRODUCTION  
Roster: BRASSICA PRODUCTION  
generated by numeric question [E10a](#)

Chaisim\_production

How large is this plot?  I Enter the size in square meter.	NUMERIC: DECIMAL  -----	E10b
Which share of the plot was planted with %brassica_b%?  I Enter in percentage. E.g. 100 if it was the only thing grown on the plot, 50 if only half of the plot was used for it, etc.. V1 self>0 && self<=100 M1 The value must be between 1 and 100. W2 self>=50 M2 Less than half of the plot was used to grow the crop. Please double check to make sure this is correct.	NUMERIC: INTEGER  -----	E10c

<p>How often have you planted %brassica_b% on this plot since May %lastyear%? Please include the crop that was already in the field in May %lastyear%, if this was the case. Only include completed cycles (harvested, or failed).</p> <p>I If it was planted before May %lastyear% but harvested during the last 12 months, this should be added to the times that it was planted.</p>	<p>NUMERIC: INTEGER E14</p> <p>-----</p>
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BRASSICA PRODUCTION  
PRODUCTION CYCLE

STATIC TEXT

*Now I would like to ask you about the last production cycle that you finished.*

<p>On which plot did you finish the last harvest of %brassica_b%?</p>	<p>SINGLE-SELECT: LINKED E15a</p>
<p>When did you plant it?</p> <p>I If the exact day is unknown, enter the approximate day. V1 ((date-self)?.TotalDays)&lt;=457 M1 The date is more than 15 months ago. Only include if the plants were s till getting harvested during May %lastyear%.</p>	<p>DATE E15</p> <p>-----</p>
<p>How many kg %brassica_b% did you sell?</p>	<p>NUMERIC: DECIMAL E19</p> <p>-----</p>
<p>On average, how much money did you get per kg of %brassica_b%?</p> <p>E E19&gt;=1 W1 self&gt;=500 &amp;&amp; self&lt;=3000 M1 The quoted price is outside the usual price range. Please confirm.</p>	<p>NUMERIC: INTEGER E19_1</p> <p>-----</p>
<p>How much did you pay for inputs, machinery rent, or similar things <u>for the control of pests and diseases</u>?</p>	<p>NUMERIC: INTEGER E39_6</p> <p>-----</p>
<p>Overall, how often did you spray/apply pesticides to this plot, from land preparation to harvest in the described production cycle?</p> <p>W1 self&lt;=10 M1 This is a high value. Please make sure you entered it correctly.</p>	<p>NUMERIC: INTEGER E50</p> <p>-----</p>
<p>How many times did you change between pesticides against insects?</p> <p>E E50&gt;=2</p>	<p>NUMERIC: INTEGER E51b</p> <p>-----</p>

In this production cycle, did you practice any of the following pest control techniques in your %brassica\_b% production?

MULTI-SELECT: YES/NO

E58

- 00 ☐ / ☐ Use seed from a labeled pack
- 01 ☐ / ☐ Resistant variety
- 02 ☐ / ☐ Treat the seeds before sowing with pesticide/bio-pesticide
- 03 ☐ / ☐ Used seeds that were already coated with pesticides
- 04 ☐ / ☐ Transplant seedling (do not plant seed directly in the field)
- 05 ☐ / ☐ Use finely meshed nets to protect seedlings from insects
- 06 ☐ / ☐ Bacillus thuringiensis (Bt), against insects
- 10 ☐ / ☐ Neem extract against insects
- 11 ☐ / ☐ Use Trichoderma
- 16 ☐ / ☐ Use Bacillus subtilis (Bs)
- 12 ☐ / ☐ Plant barrier or trap crops around the field
- 14 ☐ / ☐ Leave plant debris on the field or next to it
- 15 ☐ / ☐ Use sticky traps

Did I mention any technique that you do not use now, but you plan to use it the next time you grow %brassica\_b%?

MULTI-SELECT

E58a

- 00 ☐ Use seed from a labeled pack
- 01 ☐ Resistant variety
- 02 ☐ Treat the seeds before sowing with pesticide/bio-pesticide
- 03 ☐ Used seeds that were already coated with pesticides
- 04 ☐ Transplant seedling (do not plant seed directly in the field)
- 05 ☐ Use finely meshed nets to protect seedlings from insects
- 06 ☐ Bacillus thuringiensis (Bt), against insects
- 10 ☐ Neem extract against insects
- 11 ☐ Use Trichoderma
- 16 ☐ Use Bacillus subtilis (Bs)
- 12 ☐ Plant barrier or trap crops around the field
- 14 ☐ Leave plant debris on the field or next to it
- 15 ☐ Use sticky traps

# BOK CHOY PRODUCTION

E participation == 1 && growsveg.Contains(2) && (!growsveg.Contains(3) | treatment\_crop!=2 |treatment==0)

<p>Did you use mulching during the last 12 months? If yes, which materials did you use?</p> <p>V1 self.ContainsOnly(0)    !self.Contains(0)</p> <p>M1 You cannot say "no mulching" and choose a material at the same time.</p>	<p>MULTI-SELECT</p> <p>G4</p> <p>00 <input type="checkbox"/> No mulching</p> <p>01 <input type="checkbox"/> Plastic foil</p> <p>02 <input type="checkbox"/> Biodegradable plastic</p> <p>03 <input type="checkbox"/> Straw</p> <p>04 <input type="checkbox"/> Other organic material</p> <p>05 <input type="checkbox"/> Other</p>
<p>Please define the material used for mulching.</p> <p>E G4.ContainsAny(4, 5)</p>	<p>TEXT</p> <p>G4a</p> <p>.....</p>

STATIC TEXT

*In the following I will ask you about the different plots where you grew bok choy. This is to get an idea how much bok choy you produced over all. Please start by telling me about the largest plot on which you grew bok choy since November last year.*

<p>On how many different plots did you grow bok choy since November %lastyear%?</p> <p>I This refers to the seperate fields that bok choy was grown on, not the n umber of times it was grown (which will be asked later).</p>	<p>NUMERIC: INTEGER</p> <p>G10a</p> <p>-----</p>
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BOK CHOY PRODUCTION

Roster: BOK CHOY PRODUCTION

generated by numeric question [G10a](#)

bokchoy\_production

<p>How large is this plot?</p> <p>I Enter the size in square meter.</p>	<p>NUMERIC: DECIMAL</p> <p>G10b</p> <p>-----</p>
<p>Which share of the plot was planted with bok choy?</p> <p>I Enter in percentage. E.g. 100 if it was the only thing grown on the plot, 50 if only half of the plot was used for it, etc..</p> <p>V1 self&gt;0 &amp;&amp; self&lt;=100</p> <p>M1 The value must be between 1 and 100.</p> <p>W2 self&gt;=50</p> <p>M2 Less than half of the plot was used to grow the crop. Please double che ck to make sure this is correct.</p>	<p>NUMERIC: INTEGER</p> <p>G10c</p> <p>-----</p>
<p>How often did you plant bok choy on this plot since May %lastyear%? Please include the crop that was already in the field in May %lastyear%, if this was the case. Only include completed cycles (harvested, or failed).</p> <p>I If bok choy was planted before May %lastyear% but harvested during t he last 12 months, this should be added to the times that bok choy was planted.</p>	<p>NUMERIC: INTEGER</p> <p>G14</p> <p>-----</p>

BOK CHOY PRODUCTION

BOK CHOY PRODUCTION CYCLE

STATIC TEXT

Now I would like to ask you about the last production cycle that you finished.

On which plot did you finish the last harvest of bok choy?	SINGLE-SELECT: LINKED <span style="float: right;">G15a</span>
When did you plant in the field?	DATE <span style="float: right;">G15</span>
I If the exact day is unknown, enter the approximate day.	.....
How many kg bok choy did you sell?	NUMERIC: DECIMAL <span style="float: right;">G19</span>
On average, how much money did you get per kg of bok choy?	NUMERIC: INTEGER <span style="float: right;">G19_1</span>
E G19>=1 W1 self>=500 && self<=3000 M1 The quoted price is outside the usual price range. Please confirm.	.....
How much did you pay for inputs, machinery rent, or similar things <u>for the control of pests and diseases</u> ?	NUMERIC: INTEGER <span style="float: right;">G39_6</span>
Overall, how often did you spray/apply pesticides to this plot, from land preparation to harvest in the described production cycle?	NUMERIC: INTEGER <span style="float: right;">G50</span>
W1 self<=10 M1 This is a high value. Please make sure you entered it correctly.	.....
How many times did you change between pesticides against insects?	NUMERIC: INTEGER <span style="float: right;">G51b</span>
E G50>=2	.....
In this production cycle, did you practice any of the following pest control techniques in your bok choy production?	MULTI-SELECT: YES/NO <span style="float: right;">G58</span> 00 <input type="checkbox"/> / <input type="checkbox"/> Use seed from a labeled pack 01 <input type="checkbox"/> / <input type="checkbox"/> Resistant variety 02 <input type="checkbox"/> / <input type="checkbox"/> Treat the seeds before sowing with pesticide/bio-pesticide 03 <input type="checkbox"/> / <input type="checkbox"/> Used seeds that were already coated with pesticides 04 <input type="checkbox"/> / <input type="checkbox"/> Transplant seedling (do not plant seed directly in the field) 05 <input type="checkbox"/> / <input type="checkbox"/> Use finely meshed nets to protect seedlings from insects 06 <input type="checkbox"/> / <input type="checkbox"/> Bacillus thuringiensis (Bt), against insects 10 <input type="checkbox"/> / <input type="checkbox"/> Neem extract against insects 11 <input type="checkbox"/> / <input type="checkbox"/> Use Trichoderma 16 <input type="checkbox"/> / <input type="checkbox"/> Use Bacillus subtilis (Bs) 12 <input type="checkbox"/> / <input type="checkbox"/> Plant barrier or trap crops around the field 14 <input type="checkbox"/> / <input type="checkbox"/> Leave plant debris on the field or next to it 15 <input type="checkbox"/> / <input type="checkbox"/> Use sticky traps

Did I mention any technique that you do not use now, but you plan to use it the next time you grow bok choy?

MULTI-SELECT

G58a

- 00 ☐ Use seed from a labeled pack
- 01 ☐ Resistant variety
- 02 ☐ Treat the seeds before sowing with pesticide/bio-pesticide
- 03 ☐ Used seeds that were already coated with pesticides
- 04 ☐ Transplant seedling (do not plant seed directly in the field)
- 05 ☐ Use finely meshed nets to protect seedlings from insects
- 06 ☐ Bacillus thuringiensis (Bt), against insects
- 10 ☐ Neem extract against insects
- 11 ☐ Use Trichoderma
- 16 ☐ Use Bacillus subtilis (Bs)
- 12 ☐ Plant barrier or trap crops around the field
- 14 ☐ Leave plant debris on the field or next to it
- 15 ☐ Use sticky traps

# YARD-LONG BEAN PRODUCTION

E participation == 1 && growsveg.Contains(3) && (!growsveg.ContainsAny(1,2) | treatment\_crop!=1 | treatment==0)

<div>Did you use mulching during the last 12 months? If yes, which materials did you use?</div> <div>V1 self.ContainsOnly(0)    !self.Contains(0)</div> <div>M1 You cannot say "no mulching" and choose a material at the same time.</div>	<div>MULTI-SELECTI4</div> <div>00 <input type="checkbox"/> No mulching</div> <div>01 <input type="checkbox"/> Plastic foil</div> <div>02 <input type="checkbox"/> Biodegradable plastic</div> <div>03 <input type="checkbox"/> Straw</div> <div>04 <input type="checkbox"/> Other organic material</div> <div>05 <input type="checkbox"/> Other</div>
<div>Please define the material used for mulching.</div> <div>E I4.ContainsAny(4, 5)</div>	<div>TEXTI4a</div> <div>.....</div>

STATIC TEXT

In the following I will ask you about the different plots where you grew yard-long bean. This is to get an idea how much yard-long bean you produced over all. Please start by telling me about the largest plot on which you grew yard-long bean since November last year.

<div>On how many different plots did you grow yard-long bean since November %lastyear%?</div> <div>I This refers to the seperate fields that yardlong bean was grown on, not the number of times it was grown (which will be asked later).</div>	<div>NUMERIC: INTEGERI10a</div> <div>-----</div>
--	--

YARD-LONG BEAN PRODUCTION

Roster: YARD LONG BEAN PRODUCTION

generated by numeric question I10a

bean\_production

<div>How large is this plot?</div> <div>I Enter the size in square meter.</div>	<div>NUMERIC: DECIMALI10b</div> <div>-----</div>
<div>Which share of the plot was planted with yard long bean?</div> <div>I Enter in percentage. E.g. 100 if it was the only thing grown on the plot, 50 if only half of the plot was used for it, etc..</div> <div>V1 self&gt;0 &amp;&amp; self&lt;=100</div> <div>M1 The value must be between 1 and 100.</div> <div>W2 self&gt;=50</div> <div>M2 Less than half of the plot was used to grow the crop. Please double check to make sure this is correct.</div>	<div>NUMERIC: INTEGERI10c</div> <div>-----</div>
<div>How often did you plant yard-long bean on this plot since May %lastyear%? Please include the crop that was already in the field in May %lastyear%, if this was the case. Only include completed cycles (harvested, or failed).</div> <div>I If yard-long bean was planted before May %lastyear% but harvested during the last 12 months, this should be added to the times that yard-long bean was planted.</div>	<div>NUMERIC: INTEGERI14</div> <div>-----</div>

YARD-LONG BEAN PRODUCTION

YARD-LONG BEAN PRODUCTION CYCLE

STATIC TEXT



Now I would like to ask you about the last production cycle that you finished.

On which plot did you finish the last harvest of yard-long bean?	SINGLE-SELECT: LINKED	I15a
When did you plant in the field?	DATE	I15
I If the exact day is unknown, enter the approximate day.	.....	
How many times did you harvest?	NUMERIC: INTEGER	I17
I Enter 0 if no harvest was possible (e.g. due to pests) and the crops were destroyed without harvesting.	-----	
On average, how many kg of yard-long bean did you sell after each harvest?	NUMERIC: DECIMAL	I19
	-----	
On average, how much money did you get per kg of yard long bean?	NUMERIC: INTEGER	I19_1
E I19>=1 W1 self>=800 && self<=5000 M1 The quoted price is outside the usual price range. Please confirm.	-----	
How much did you pay for inputs, machinery rent, or similar things <u>for the control of pests and diseases?</u>	NUMERIC: INTEGER	I39_6
	-----	
Overall, how often did you spray/apply pesticides to this plot, from land preparation to harvest in the described production cycle?	NUMERIC: INTEGER	I50
W1 self<=10 M1 This is a high value. Please make sure you entered it correctly.	-----	
How many times did you change between pesticides against insects?	NUMERIC: INTEGER	I51b
E I50>=2	-----	
In this production cycle, did you practice any of the following pest control techniques in your yard long bean production?	MULTI-SELECT: YES/NO	I58
	00 <input type="checkbox"/> / <input type="checkbox"/> Use seed from a labeled pack	
	01 <input type="checkbox"/> / <input type="checkbox"/> Resistant variety	
	02 <input type="checkbox"/> / <input type="checkbox"/> Treat the seeds before sowing with pesticide/bio-pesticide	
	03 <input type="checkbox"/> / <input type="checkbox"/> Used seeds that were already coated with pesticides	
	04 <input type="checkbox"/> / <input type="checkbox"/> Transplant seedling (do not plant seed directly in the field)	
	05 <input type="checkbox"/> / <input type="checkbox"/> Use finely meshed nets to protect seedlings from insects	
	06 <input type="checkbox"/> / <input type="checkbox"/> Bacillus thuringiensis (Bt), against insects	
	10 <input type="checkbox"/> / <input type="checkbox"/> Neem extract against insects	
	11 <input type="checkbox"/> / <input type="checkbox"/> Use Trichoderma	
	16 <input type="checkbox"/> / <input type="checkbox"/> Use Bacillus subtilis (Bs)	
	12 <input type="checkbox"/> / <input type="checkbox"/> Plant barrier or trap crops around the field	
	14 <input type="checkbox"/> / <input type="checkbox"/> Leave plant debris on the field or next to it	
	15 <input type="checkbox"/> / <input type="checkbox"/> Use sticky traps	

Did I mention any technique that you do not use now, but you plan to use it the next time you grow yard long bean?

MULTI-SELECT

I58a

- 00 ☐ Use seed from a labeled pack
- 01 ☐ Resistant variety
- 02 ☐ Treat the seeds before sowing with pesticide/bio-pesticide
- 03 ☐ Used seeds that were already coated with pesticides
- 04 ☐ Transplant seedling (do not plant seed directly in the field)
- 05 ☐ Use finely meshed nets to protect seedlings from insects
- 06 ☐ Bacillus thuringiensis (Bt), against insects
- 10 ☐ Neem extract against insects
- 11 ☐ Use Trichoderma
- 16 ☐ Use Bacillus subtilis (Bs)
- 12 ☐ Plant barrier or trap crops around the field
- 14 ☐ Leave plant debris on the field or next to it
- 15 ☐ Use sticky traps

# IPM AND PESTICIDE PERCEPTIONS

E participation==1

Next, I would like to understand your opinion about various aspects of pesticide use. I will present you with 12 statements. Please tell me if you agree or disagree with each statement.

I Yes means agree. No means disagree.

MULTI-SELECT: YES/NO

J1

- 01 ☐ / ☐ Pesticides can enter the body through the skin
- 02 ☐ / ☐ Herbicides are not dangerous to humans
- 03 ☐ / ☐ Empty pesticide containers can be reused for other purposes
- 04 ☐ / ☐ Pesticides have negative effects on the health of children
- 05 ☐ / ☐ Vegetables from the market may have dangerous levels of pesticides
- 06 ☐ / ☐ When spraying pesticides, you are worried about getting cancer
- 07 ☐ / ☐ Good pesticides are those that kill all insects immediately
- 08 ☐ / ☐ Mixing different pesticides makes the spraying more effective than using a single pesticide
- 09 ☐ / ☐ Using pesticides increases farm profits
- 10 ☐ / ☐ Commercial vegetable production without pesticides is impossible
- 11 ☐ / ☐ Biopesticides are not as effective as chemical pesticides
- 12 ☐ / ☐ If there are many pests in the field then one should make the spraying mixture stronger

STATIC TEXT

*Now I would like to know your position on some issues in controlling pests and diseases that farmers sometimes disagree on. Please tell me if you strongly agree, agree, disagree, strongly disagree, or you think the statement is neither true nor untrue. If you do not know the technique, just tell me and we go to the next question.*

Sticky traps are worth their money.

SINGLE-SELECT

J2

- 99 ☐ I do not know about "Sticky traps"
- 01 ☐ I strongly disagree with the statement
- 02 ☐ I disagree with the statement
- 03 ☐ It is neither fully true nor fully wrong (neutral stance)
- 04 ☐ I agree with the statement
- 05 ☐ I strongly agree with the statement

It is better to spray against some pests before you can even see them. Once you can see them, you cannot control them anymore.

SINGLE-SELECT

J3

- 01 ☐ I strongly disagree with the statement
- 02 ☐ I disagree with the statement
- 03 ☐ It is neither fully true nor fully wrong (neutral stance)
- 04 ☐ I agree with the statement
- 05 ☐ I strongly agree with the statement

Bio-pesticides control insect pests as good as other pesticides.	<p>SINGLE-SELECT 34</p> <p>-99 <input type="radio"/> I do not know about "bio-pesticides"</p> <p>01 <input type="radio"/> I strongly disagree with the statement</p> <p>02 <input type="radio"/> I disagree with the statement</p> <p>03 <input type="radio"/> It is neither fully true nor fully wrong (neutral stance)</p> <p>04 <input type="radio"/> I agree with the statement</p> <p>05 <input type="radio"/> I strongly agree with the statement</p>
If I can see few insects of any kind in my field after spraying, the pesticide works well.	<p>SINGLE-SELECT 35</p> <p>01 <input type="radio"/> I strongly disagree with the statement</p> <p>02 <input type="radio"/> I disagree with the statement</p> <p>03 <input type="radio"/> It is neither fully true nor fully wrong (neutral stance)</p> <p>04 <input type="radio"/> I agree with the statement</p> <p>05 <input type="radio"/> I strongly agree with the statement</p>
It is better to always use one or two good pesticide than to change between many different ones.	<p>SINGLE-SELECT 36</p> <p>01 <input type="radio"/> I strongly disagree with the statement</p> <p>02 <input type="radio"/> I disagree with the statement</p> <p>03 <input type="radio"/> It is neither fully true nor fully wrong (neutral stance)</p> <p>04 <input type="radio"/> I agree with the statement</p> <p>05 <input type="radio"/> I strongly agree with the statement</p>
Planting plants that keep away the insects between and around the vegetables is a good way to protect the vegetables from insect pests.	<p>SINGLE-SELECT 37</p> <p>-99 <input type="radio"/> I do not know about this method</p> <p>01 <input type="radio"/> I strongly disagree with the statement</p> <p>02 <input type="radio"/> I disagree with the statement</p> <p>03 <input type="radio"/> It is neither fully true nor fully wrong (neutral stance)</p> <p>04 <input type="radio"/> I agree with the statement</p> <p>05 <input type="radio"/> I strongly agree with the statement</p>

STATIC TEXT

*INTERVIEWER: Thank the respondent for their participation. Inform the respondent that somebody might call to verify the interview took place.*

## APPENDIX A — INSTRUCTIONS

[1] [B3: Who lives in this household? Can you please tell me their names? <u> Please start with yourself. </u>](#)

Household members are: Persons regularly sharing meals and living under the same roof for the last 6 months. Include servants who primarily eat and sleep in your house. Do not include servants and guests who only live in the household temporarily.

## APPENDIX B — CATEGORIES

### [1] [Categories\\_usefulness](#)

Categories: 5: Very useful, 4: Mostly useful, 3: Somehow useful, 2: A little useful, 1: Not useful at all

### [2] [Village\\_combo\\_end](#)

Categories: 1: Phnom Prasat, 2: Chamkarlouk, 3: Phnomthomcheung, 4: Rachamkar Chek, 5: Plov damrei Loeu, 6: Osoe, 7: Tabun, 8: Srae Prey, 9: Bos Tanloab, 10: Ka Svay, 11: Neang Ket, 12: Chop, 13: Roul Chrouk, 14: Prasat, 15: Chakkreiy, 16: Poy Kdoeung, 17: Sreh Kouksrok, 18: Shreh Koeut, 19: Kouk Trach, 20: Kouk Treas, 21: Russei Khang, 22: Thmey, 23: Kom Phem, 24: Tromeng, 25: Prey Krouch, 26: Proma, 27: Kouk Doung, 28: Por Pish, 29: Krosang, 30: Tor Tea, 31: Prey Por, 32: Leang Dai, 33: Bompenthreach, 34: Tro Baek, 35: Angkunh, 36: Batdangkor, 37: Svay Chrum, 38: Baekkamploeung, 39: Koukchin, 40: Dondiev, 41: Tropeangthnal, 42: Tatrav, 43: Sophy, 44: Teseav, 45: Sres Lech, 46: Snay Laor and Tapun, 47: Plung, 48: Tropaing Svay, 49: Au Sngout, 50: Phnom Thom Thmey, 51: Pong Ror

### [3] [commune: In which commune are you?](#)

Categories: 1: Ou Prasat, 2: Soe, 3: Chamnaom, 4: Rohat Tuek, 5: Russei Kraok, 6: Chopvary, 7: Phreahnet Phreah, 8: Chhnou Meanchey, 9: Keo Por, 10: Khnat, 11: Sangkat Krobeiy riel, 12: Leang Dai, 13: Dom Daek, 14: Samrong, 15: Chansar, 16: Kantraing, 17: Teouk Chhoord, 18: Kampong Svay

Legend and structure of information in this file

Name of section	Enabling condition for this section	Type of question, scope	Variable name
SECTION 5: OTHER INCOME SOURCES			
E s4_other_sources_which.Contains(98)			
Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur?		MULTI-SELECT SCOPE: PREFILLED	s4_re1_leaders_other
I This refers to family relations E s3_time_other > 0 V1 s4_re1_leaders_which.Contains(98) M1 Can not be itself V2 (s3_time_other_breeding_advice <= (50 - s3_time_art_insem_advice))    s3_time_other_breeding_advice == 0 M2 This person is not in the list F optioncode != s5_ignored_option_code		01 <input type="checkbox"/> Community animal health workers 02 <input type="checkbox"/> Private 03 <input type="checkbox"/> Government 04 <input type="checkbox"/> Livestock keepers association 05 <input type="checkbox"/> NGO  And 5 other [13]	
Additional information: "I" – Question instruction "E" – Enabling condition "V1" – Validation condition №1 "M1" – Message for validation №1 "F" – Filter in Categorical questions		Link to full set in appendix	

Breadcrumbs
CHAPTER 3 IDENTIFICATION / Roster: LEADER RELATION DETAILS generated by fixed list:
01 Ward Livestock Officer 02 Village Livestock Officer 99 Other (specify)
List items