Group: ❑ Doer ❑ Non-Doer

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| **Barrier Analysis Questionnaire**  **on mulching**  **for use with targeted farmers** |

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| **Behaviour Statement**  Targeted subsistence farmers put a 15 centimetre layer of mulch made of maize stover or organic material on all of their fields before planting. |

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| **Interview Data**  Interviewer’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Questionnaire Number: \_\_\_\_\_\_\_\_\_  Date: \_\_\_\_/\_\_\_\_/\_\_\_\_\_\_ Community: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| **Scripted Introduction**  Hello, my name is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and I am part of a study team looking into local agricultural practices. The study includes an interview regarding this topic and will take about 20 minutes. I would like to hear your views on this topic. You do not have to participate in the study and nothing will happen if you decide not to. Likewise, if you decide to be interviewed, you will not receive any material or other benefits. I will not record your name and everything you tell me will be held in strict confidence.  Would you like to talk with me? *[If not, thank the respondent for his/her time.]*  **Consent was provided**: YES NO |

### Section A: Doer/Non-Doer Screening Questions

**1. Are you a farmer?**

❑ A. Yes 🡪 *[Ask the next question*.*]*

❑ B. No 🡪 *[End the interview and look for another respondent*.*]*

❑ C. No response 🡪 *[End the interview and look for another respondent.]*

**2. How much land do you farm?**

❑ A. 1 acre / 0.4 hectare / 4,000 m2 or less 🡪 *[Ask the next question*.*]*

❑ B. More than 1 acre 🡪 *[End the interview and look for another respondent.]*

❑ C. Does not know / no response 🡪 *[End the interview and look for another respondent.]*

**3. Last season, before you planted, did you put anything on your field to improve the soil?**

❑ A. Yes 🡪 *[Ask the next question*.*]*

❑ B. No 🡪 *[Mark the respondent as a NON-DOER and continue to section B.]*

❑ C. No response / Does not remember 🡪 *[End the interview and look for another respondent.]*

**4. What did you put?**

❑ A. Applied mulch 🡪 *[Ask the next question*.*]*

❑ B. Did not apply mulch 🡪 *[Mark the respondent as a NON-DOER and continue to section B.]*

❑ C. No response / Does not remember 🡪 *[End the interview and look for another respondent.]*

**5. Please describe what you put on your field… What was it made of?**

❑ A. Residue from crop and/or organic material 🡪 *[Ask the next question*.*]*

❑ B. Anything else 🡪 *[Mark the respondent as a NON-DOER and continue to section B.]*

❑ C. No response / Does not remember 🡪 *[End the interview and look for another respondent.]*

**6. On how much of your land did you apply the mulch last year? More than half or your land, about half of your land or less than half of your land?**

❑ A. More than half 🡪 *[Ask the next question*.*]*

❑ B. Half or less 🡪 *[Mark the respondent as a NON-DOER and continue to section B.]*

❑ C. No response / Does not remember 🡪 *[End the interview and look for another respondent.]*

**7. [Show the respondent the stick and ask the following question]. Can you please show me about how thick the layer of mulch was that you applied to your fields?[[1]](#footnote-1)**

❑ A. 15cm or more 🡪 *[Mark the respondent as a DOER and continue to section B.]*

❑ B. Less than 15cm 🡪 *[Mark the respondent as a NON-DOER and continue to section B.]*

❑ C. No response / Does not remember 🡪 *[End the interview and look for another respondent.]*

**DOER/NON-DOER CLASSIFICATION TABLE**

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| **DOER (ALL of the following)** | **NON-DOER (ANY one of the following)** | **DO NOT INTERVIEW (ANY one of the following)** |
| Question 1 = A |  | Question 1 = B or C |
| Question 2 = A |  | Question 2 = B or C |
| Question 3 = A | Question 3 = B | Question 3 = C |
| Question 4 = A | Question 4 = B | Question 4 = C |
| Question 5 = A | Question 5 = B | Question 5 = C |
| Question 6 = A | Question 6 = B | Question 6 = C |
| Question 7 = A | Question 7 = B | Question 7 = C |

**The respondent is a: ❑ Doer ❑ Non-Doer**

### Section B: Research Questions

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| **Behaviour Explanation**  *In the following questions I am going to be talking about putting* ***mulch*** *on your fields. By this I mean the practice of applying a 15 cm thick layer of organic residuals, such as maize stover, on all of your fields before you plant.*  [show picture of a mulched field] |

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| **If the respondent is a DOER =**  **🡫 only ask questions in this LEFT column 🡫** | **If the respondent is a NON-DOER =**  **🡫 only ask questions in this RIGHT column 🡫** |
| **1. Perceived Self-Efficacy/Skills** | |
| **1.1 Doers:** What makes it **easy** for you to put mulch on your field before you plant?  *[Write all responses below. Probe with “What else?”]* | **1.1 Non-Doers:** What would make it **easy** for you to put mulch on your field before you plant?  *[Write all responses below. Probe with “What else?”]* |
| **1.2 Doers:** What makes it **difficult** for you to put mulch on your field before you plant?  *[Write all responses below. Probe with “What else?”]* | **1.2 Non-Doers:** What would make it **difficult** for you to put mulch on your field before you plant?  *[Write all responses below. Probe with “What else?”]* |
| **2. Perceived Positive Consequences[[2]](#footnote-2)** | |
| **Doers:** What are the **positive consequences** of putting mulch on your field before you plant?  *[Write all responses below. Probe with “What else?”]* | **Non-Doers:** What would be the **positive consequences** of putting mulch on your field before you plant?  *[Write all responses below. Probe with “What else?”]* |
| **3. Perceived Negative Consequences** | |
| **Doers:** What are the **negative consequences** of putting mulch on your field before you plant?  *[Write all responses below. Probe with “What else?”]* | **Non-Doers:** What would be the **negative consequences** of putting mulch on your field before you plant?  *[Write all responses below. Probe with “What else?”]* |
| **4. Perceived Social Norms** | |
| **4.1 Doers:** Who are all the people that **approve[[3]](#footnote-3)** of you putting mulch on your field before you plant?  *[Write all responses below. Probe with “Who else? Anyone in particular?”]* | **4.1 Non-Doers:** Who are all the people that **would approve** of you putting mulch on your field before you plant?  *[Write all responses below. Probe with “Who else? Anyone in particular?”]* |
| **4.2 Doers:** Who are all the people that **disapprove** of you putting mulch on your field before you plant?  *[Write all responses below. Probe with “Who else? Anyone in particular?”]* | **4.2 Non-Doers:** Who are all the people that **would disapprove** of you putting mulch on your field before you plant?  *[Write all responses below. Probe with “Who else? Anyone in particular?”]* |
| **5. Perceived Access** | |
| **Doers:** How difficult is it to get the materials you need to put mulch on your field before you plant? Is it very difficult, somewhat difficult or not difficult at all?  ❑ A. Very difficult  ❑ B. Somewhat difficult  ❑ C. Not difficult at all | **Non-Doers:** How difficult is it to get the materials you need to put mulch on your field before you plant? Would it be very difficult, somewhat difficult or not difficult at all?  ❑ A. Very difficult  ❑ B. Somewhat difficult  ❑ C. Not difficult at all |
| **7. Perceived Susceptibility/Vulnerability** | |
| **Doers:** How likely is it that your soil will get too dry in the next growing season? Is it very likely, somewhat likely or not likely at all?  ❑ A. Very likely  ❑ B. Somewhat likely  ❑ C. Not likely at all | **Non-Doers:** How likely is it that your soil will get too dry in the next growing season? Is it very likely, somewhat likely or not likely at all?  ❑ A. Very likely  ❑ B. Somewhat likely  ❑ C. Not likely at all |
| **8. Perceived Severity** | |
| **Doers:** How serious would it be if your soil became too dry in the next growing season? Would it be very serious, somewhat serious or not serious at all?  ❑ A. Very serious  ❑ B. Somewhat serious  ❑ C. Not serious at all | **Non-Doers:** How serious would it be if your soil became too dry in the next growing season? Would it be very serious, somewhat serious or not serious at all?  ❑ A. Very serious  ❑ B. Somewhat serious  ❑ C. Not serious at all |
| **9. Perceived Action Efficacy** | |
| **Doers:** How likely is it that your soil will get too dry next season if you put mulch on it? Is it very likely, somewhat likely or not likely at all?  ❑ A. Very likely  ❑ B. Somewhat likely  ❑ C. Not likely at all | **Non-Doers:** How likely is it that your soil will get too dry next season if you put mulch on it? Is it very likely, somewhat likely or not likely at all?  ❑ A. Very likely  ❑ B. Somewhat likely  ❑ C. Not likely at all |
| **10. Perception of Divine Will** | |
| **Doers:** Do you think that it is God’s will if the soil is too dry?  ❑ A. Yes  ❑ B. Maybe  ❑ C. No | **Non-Doers:** Do you think that it is God’s will if the soil is too dry?  ❑ A. Yes  ❑ B. Maybe  ❑ C. No |
| **11. Culture** | |
| **Doers:** Are there any cultural rules or taboos against putting mulch on your field before you plant?  ❑ A. Yes  ❑ B. Maybe  ❑ C. No | **Non-Doers:** Are there any cultural rules or taboos against putting mulch on your field before you plant?  ❑ A. Yes  ❑ B. Maybe  ❑ C. No |

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| **Go through the questionnaire and check whether all answers were recorded.**  **Thank the respondent for her/his time!** |

1. For this question the interviewer should take a stick with them showing three different levels, one of them being 15 cm. The interviewer then asks the farmer to point to the option showing the depth of mulch s/he applied. [↑](#footnote-ref-1)
2. *Positive consequences can also be translated as “the positive things that happen when you [insert the behaviour]”.*  [↑](#footnote-ref-2)
3. *The meaning of “approve” in this question is very subtle. It implies the idea of “in favour of….” It does not mean “give permission” or “allow”. Translators should use care when selecting the word to convey the meaning of this word and also of “disapprove”.* [↑](#footnote-ref-3)