

Conservation Agriculture in Mozambique - Prioritizing Actions, Round 2

Part 1: Personal information

Your name and organization will be kept confidential and will be separated from the rest of the data.

1. Please write your name and the organization you work for.

Part 2: The role of conservation agriculture for smallholder farmers

2. In the first questionnaire there were many ideas generated about the conditions necessary for CA to benefit smallholder farmers. Please read these statements and state whether you agree or disagree and then explain the reasons for your answer.

Agree Undecided Disagree

CA can benefit smallholder farmers under all soil and climatic conditions

☐☐☐

Why?

CA can benefit smallholder farmers under all socio-economic conditions

☐☐☐

Why?

CA is primarily beneficial to smallholder farmers in areas with high agricultural potential

☐☐☐

Why?

CA is primarily beneficial to smallholder farmers in low rainfall areas

☐☐☐

Why?

CA is primarily beneficial to smallholder farmers with poor soils

☐☐☐

Why?

CA will only benefit smallholders if they have access to commercial inputs (fertilizer, herbicide, hybrid seeds)

☐☐☐

Why?

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CA will only benefit smallholders if it saves on commercial inputs

☐ ☐ ☐

Why?

CA will only benefit smallholders if it reduces their total labor

☐ ☐ ☐

Why?

CA will only benefit smallholders if adequate support (extension, FFS, or local government) is provided

☐ ☐ ☐

Why?

CA will only benefit smallholders if there is secure land ownership

☐ ☐ ☐

Why?

3. In your opinion, have CA researchers already succeeded in identifying a profitable form of CA that will lead to large-scale farmer adoption given proper extension efforts and minor adaptations to the local context?

☐ No. More research is required ☐ Not sure ☐ Yes. A clearly superior form of CA currently exists ☐ Bad question. CA needs to be adapted locally

What form of CA today best responds to smallholder needs?

Part 3: Conservation agriculture components and practices

Conservation agriculture typically includes three key elements: minimum tillage; crop residue retention; and legume rotations/intercrops.

4. In some situations in Mozambique CA is being promoted as mulching and intercropping without much emphasis on minimizing soil disturbance. What are the benefits and the problems from promoting CA in this way?

Benefits

Challenges

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5. Please rank the 6 forms of minimum tillage based on which you think has the greatest adoption potential (mark as 1) to the form that you think has the least potential for widespread adoption (mark as 6).

<input type="text"/>	Basins
<input type="text"/>	Manual Zero Tillage (jab-planter, dibble stick, or single cut of hoe)
<input type="text"/>	Animal drawn ripper
<input type="text"/>	Animal drawn direct seeder
<input type="text"/>	Tractor ripper
<input type="text"/>	Tractor drawn direct seeder

6. Is widespread adoption of a low external input (no fertilizer or herbicide, no purchased seed) form of conservation agriculture feasible in Mozambique?

- ☐ Yes
- ☐ No
- ☐ Not sure

Why?

<input type="text"/>	<input type="text"/>
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7. How important are the following commercial inputs for widespread adoption of CA in Mozambique:

1. Not important

2.

3. Somewhat
important

4.

5. Very important

Fertilizer

☐

☐

☐

☐

☐

Why?

<input type="text"/>	<input type="text"/>
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Herbicide

☐

☐

☐

☐

☐

Why?

<input type="text"/>	<input type="text"/>
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Hybrid Seed

☐

☐

☐

☐

☐

Why?

<input type="text"/>	<input type="text"/>
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8. What form of CA today best responds to smallholder needs?

Part 4: Research, development and policies for conservation agriculture

9. Please choose the 3 research activities (by marking Yes) that you feel are most important for enabling the widespread adoption of CA in Mozambique.

	Yes	No
Agronomic and soil science research (on station less than 3 years)	<input type="radio"/>	<input type="radio"/>
Agronomic and soil science research (on farm less than 3 years)	<input type="radio"/>	<input type="radio"/>
Long term agronomic and soil science research (on station and on farm)	<input type="radio"/>	<input type="radio"/>
Environmental studies on the effects of CA on ecosystems	<input type="radio"/>	<input type="radio"/>
Adoption and disadoption studies (numbers using different practices and characteristics of those using each, positive deviance studies characterizing adopters)	<input type="radio"/>	<input type="radio"/>
Social and economic studies (gender impacts, labor issues, cost/benefit analysis, explore what is motivating behaviors)	<input type="radio"/>	<input type="radio"/>
Research the advantages and disadvantages of CA in the different agro-ecological zones	<input type="radio"/>	<input type="radio"/>
Farming system research to see how to integrate livestock management with crop management	<input type="radio"/>	<input type="radio"/>
Impact studies to see how livelihoods are affected by CA	<input type="radio"/>	<input type="radio"/>
Policy research related to CA	<input type="radio"/>	<input type="radio"/>

Why did you choose these three?

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10. Please choose the three development activities (by marking Yes) that you feel are most important for widespread CA adoption in Mozambique.

	Yes	No
Establish more CA demonstration plots with active producers	<input type="radio"/>	<input type="radio"/>
Produce and disseminate teaching materials about conservation agriculture	<input type="radio"/>	<input type="radio"/>
Carry out regular trainings for extension workers, producers and local authorities on CA	<input type="radio"/>	<input type="radio"/>
Farmer-led initiatives with a broader focus – such as Farmer Field Schools on Integrated Soil Fertility Management	<input type="radio"/>	<input type="radio"/>
Develop systems for payments for carbon sequestration through CA that can incentivize farmers to use CA	<input type="radio"/>	<input type="radio"/>
Sensitize community leaders about the importance of CA and its benefits	<input type="radio"/>	<input type="radio"/>
Invest in long term development projects (longer than 5 years)	<input type="radio"/>	<input type="radio"/>
Provide safety nets incase of crop failure due to prolonged droughts or weed pressure in the initial stages of CA adoption	<input type="radio"/>	<input type="radio"/>
Regional development projects considering a combination of support policies, research and extension support, and choice of producers and entrepreneurs.	<input type="radio"/>	<input type="radio"/>

Why did you choose these three?

11. Please choose the three policy activities (by marking Yes) that you feel are most important for widespread CA adoption in Mozambique.

	Yes	No
Getting input and output markets working better for smallholders	<input type="radio"/>	<input type="radio"/>
Increasing smallholder access to credit	<input type="radio"/>	<input type="radio"/>
Promoting animal traction and tractor based mechanization for land preparation, planting and weeding	<input type="radio"/>	<input type="radio"/>
Introduce the topic of CA into agricultural training curricula (technical school, primary level, etc.)	<input type="radio"/>	<input type="radio"/>
Create or strengthen local level natural resource management committees	<input type="radio"/>	<input type="radio"/>
Harmonize CA research and CA project efforts to learn from each other and avoid conflicting messages	<input type="radio"/>	<input type="radio"/>
Create pro-CA legislation and have CA included in the state budget	<input type="radio"/>	<input type="radio"/>

Why did you choose these three?

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12. Imagine that a wealthy individual wants to donate a large sum of money for conservation agriculture in Mozambique and is asking you for advice on how to allocate the donation so that widespread adoption will be achieved as soon as possible. What percent of the money would you suggest the person provide for the following types of activities?

Research activities (like those listed in question 9)

Development activities (like those listed in question 10)

Policy activities (like those listed in question 11)

13. Why would you advise allocating the funds in this way?

Thank you for your participation!