Indiana University and Zambian Agricultural Research Institute Farmer Survey

Your answers are completely confidential and will not be identified in anyway. You may refuse to answer certain questions, or you could stop participating at any time.

Are you willing to participate in our study? ____ Yes ____No

District: ________________ Camp: ________________ Zone: ________________
Village: ________________ Gender: ____ GPS: S ____________ E ____________
Zone Leader? ____Yes ____No   Time of day: __________

1. What is your name? ________________________________
   a. What is your age? _______
   b. What is your marital status? _______
   c. What is your highest education level? ____________________

2. How long have you been your own farmer? __________

3. Since you have become your own farmer, when did you start farming here? __________

4. How many kilograms of maize seed did you plant in the last farming season? __________

5. How many cattle do you have? _______

6. How did you obtain the rights to the land you will cultivate this year? Check all that apply.
   ___Purchased   ___Inherited   ___Rent or Lease   ___Given by Headman (traditional rights)
   ___Other: __________________________

7. How many household members usually eat at this residence? _______

8. What are your main worries (kulibilika / mizezo)?
   a. General worries: ________________________________________________________________
      ________________________________________________________________
   b. Specific worries related to farming: ______________________________________________
      ____________________________________________________________

9. How would you define conflict (kuzwangana / kujumbana / kwimpana)? _______
........................................................................................................................................
10. Based on your definition, have you observed conflict around your area in the past ten years? _____Yes _____No  [If no, skip to Q11]
   a. What were the sources of the conflict you observed (please be specific)? ________________________________

b. How did the conflict manifest (cakalitondezya buti)? ________________________________

c. How did this this source of conflict affect you? ________________________________

   d. How did this source of conflict affect your community? ________________________________

11. Based on your definition, do you expect any forms of conflict around your area in the next ten years? _____Yes _____No  [If no, skip to Q12]
   a. What do you think will be the source of this conflict (please be specific)? ________________________________

b. How do you expect conflict to manifest (ciyolitondezya buti)? ________________________________

12. Do you expect any physical violence in the next ten years? _____Yes _____No
   a. If yes, please explain:_________________________________________________________________________

Now let’s talk about water.

13. How much water does your household use for all domestic activities per day?
    __________Liters per day. (Assume one bucket is 20L, how many buckets?)

14. Have you ever shared water with your neighbors? _____Yes _____No  [If no, skip to Q15]
a. If yes, how often? ________________

b. If yes, how much water was shared on that occasion? ________________

15. Have you ever asked for water from your neighbors? ____Yes ____No [If no, skip to Q16]

   a. Have you ever asked for water and your neighbor refused? ____Yes ____No

   b. If yes, explain: _________________________________________________________

16. What are your main sources of water? Check all that apply.

<table>
<thead>
<tr>
<th>Comm. Borehole</th>
<th>Private Borehole</th>
<th>Comm. Well</th>
<th>Private Well</th>
<th>Dam</th>
<th>Pond</th>
<th>Tap</th>
<th>River or Stream</th>
<th>Other:________</th>
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</table>

17. Does the water you use have to be fetched? ____Yes ____No [If no, skip to 18]

   a. How long does it take to travel to your main source of water one-way? _______ minutes

   b. What modes of transport are used to fetch the water? __________________________

   c. How many round trips are made per day? __________

   d. What is the longest time your household member had to wait in line to fetch water? _______ minutes

18. Do you have any forms of water storage? ____Yes ____No [If no, skip to 19]

   a. What are the sizes of the main water storage containers that you have? [Fill in table]

   b. For each size, how many do you have of each? [Fill in table]

   Types of storage: ____________________________

   Total number of storage units: __________

19. Do you currently treat your drinking water? ____Yes ____No [If no, skip to 20]

   (Ino mujaya buti tuuka twamumeenda akunywa?)

   a. If yes, how? ____________________________

20. Have you or any of your family members ever become sick from drinking water? ____Yes ____No [If no, skip to Q21]

   a. What water source do you believe caused the sickness? _________________________

   b. When did the sickness occur? ________________________________
c. What were the symptoms of the sickness? ________________________________

d. How was the sickness treated? ________________________________

21. Now let’s talk about your **domestic household water needs**:

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
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</thead>
<tbody>
<tr>
<td>Have you had enough water <em>in the past ten years</em></td>
<td></td>
</tr>
<tr>
<td>Have you had enough water <em>this year</em></td>
<td></td>
</tr>
<tr>
<td>Based on your experience, do you think you will have enough water <em>next year</em></td>
<td></td>
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</tbody>
</table>

22. [If no cattle, skip to 23] Now let’s talk about your **cattle water needs**:

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>Have you had enough water <em>in the past ten years</em></td>
<td></td>
</tr>
<tr>
<td>Have you had enough water <em>this year</em></td>
<td></td>
</tr>
<tr>
<td>Based on your experience, do you think you will have enough water <em>next year</em></td>
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</table>

23. Now let’s talk about your **field crop water needs**:

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>Have you had enough water <em>in the past ten years</em></td>
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<tr>
<td>Have you had enough water <em>this past growing season (2014-15)</em></td>
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<tr>
<td>Based on your experience, do you think you will have enough water <em>next season</em></td>
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</table>

a. In the past five years, did you have to ration your food for your household members?  
   Yes ___ No ___ [If no, skip to Q24]  
b. If yes, explain why: ______________________________________________________  
c. If yes, explain how: ______________________________________________________

Now let’s talk about rainfall in this area.

24. In the past ten years, how has the annual amount of rainfall changed?  
   Increased rainfall _____ Decreased rainfall _____ No change in rainfall

25. Next year, how do you think the annual rainfall amount will be compared to last year?  
   Increased rainfall _____ Decreased rainfall _____ No change in rainfall

26. In the past ten years, how has the rainfall distribution changed during the growing season?  
   ________________________________________________________________  
   ________________________________________________________________
27. *In the past ten years*, how sure have you been about when the rains will start?  
_____ Not sure _____Sure
   a. Explain: ______________________________________________________________

28. Do you attend community meetings where water issues are discussed? ____Yes ____No  
[If no, skip to Q29]
   a. What are the main issues discussed? ______________________________________
      _________________________________________________
   b. How often are these meetings held? __________________

29. *In past ten years*, have you ever observed any disputes over water? ____Yes ____No  
   a. Explain: ______________________________________________________________
      _________________________________________________
   b. [If no, skip to Q30] How do people usually resolve the disputes? _________________
      _________________________________________________

30. *In the next ten years*, how do you expect the number of disputes over water to change?  
_____Increase in disputes _____Decrease in disputes ____ No change in disputes  
   a. Please explain: _________________________________________________________

31. Is water a source of anxiety for your household? ____Yes ____No  
(Hena meenda amupakutaliba alubwa)
   a. Explain: __________________________________________________________________

32. Is water a source of anxiety in your community? ____Yes ____No  
(Hena meenda amupakutaliba mumuzi muno)
   a. Explain: __________________________________________________________________

33. Do you have any other comments that you would like to share with us about water issues and conflict in your life or in this area?
   ____________________________________________________________________________
   ____________________________________________________________________________

   Thank you for your time and responses.