

Manager questionnaire: Snowmelt dependent systems in The United States and Kenya

This survey is being conducted by Indiana University, Princeton University, and the University of Nairobi, under the direction of Dr. Tom Evans in the Department of Geography at Indiana University (Email address: cipec@indiana.edu). The focus of this project is on the ability of farmers to adapt to changes in the availability of water in this area. Every precaution will be taken to maintain the complete confidentiality of your responses and personal information. If you choose to participate, you may refuse to answer certain questions, or you may stop participating at any time. Your decision whether or not to participate will not affect your current or future relations with the researchers, Indiana University, or local water associations. Your responses will be summed together with those of roughly 500 other households in Kenya and only general averages from the analysis will be reported. You will not be identified in any published results from this project. This survey should take approximately one hour to complete. Respondents will not receive payment for participating. You indicate your voluntary consent by participating in this interview. If you have questions about your rights as a research participant or have concerns about the study, you may contact the Indiana University Human Subjects Office at irb@iu.edu.

1. Province: **PROV**

2. District: **DIST**

3. Location: **LOC**

4. Sub-location: **SLOC**

5. Ranch: . . . **RNCH** . . . 6. Group ranch: . . . **GRNCH**

7. Village/Locality: **VILL**

8. WRUA **WRUA**

9. Scheme name **CSNM**

10. Manager number **MANNUM**

11. What is your role with this water scheme?. . . **ROLE**

12. Name of enumerator: **ENUM**

13. Date of interview **DATE** . . . Day Month Year

14. Start and end time: **STIME / ETIME** . . . Start time End time

15. Name of supervisor: **SUPER**

16. Date supervisor checked **SUPCH** . . . Day Month Year

17. Name of data entry staff **DENTRY**

Section 1: Water user association attributes

19. Roughly how old is your water project/scheme? . . .CSAGE

20. Are there any published or written records about the history of your water project/scheme? **RCRD**

Yes No No response

21. If yes, where are they available? **RCRDAV**

22. Does the Secretary or other member of the scheme keep records of the number of members in the scheme?

CHREC Yes No No response

23. Does anyone keep records of the population growth in the village/commnity? **DEMINCREC**

Yes No No response

24. Could you give us a copy?

25. How much do your members pay to join your scheme? **JOIN** KSH

26. How much members they pay per month? **NTWRKCST** KSH

27. Has the fee to be a member of the scheme changed in the last 10 years? **FEECHG**

Increase Decrease No Change

28. If so, what was the reason for the change in the fee? **EXFEECHG**

29. In a normal year, how many days per months do the members of your water user association normally irrigate?

NORMIRR

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Days irrigate from project												
Months depend on Rainfall												

30. Do you have historical records of past water rotation schedules? **HISTREC** Yes No No response

31. If yes could we get a copy? **SCHEDCOP** Yes _____ No No response

32. Have members of the community/scheme complained about not getting water? **COMPWTR**

Yes No No response

33. If yes, please describe how these concerns were addressed and by whom. **EXCOMPWTR**

34. When and why do you decide to start rationing? **STARTRAT**

WRUA enacts rationing plan that requires rationing within water project

Water project starts rationing when WRUA has not started rationing

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Other

35. What data and information are regularly presented at committee meetings? **DATAMET** (Please check)

Intake readings for project	
Intake readings for entire WRUA or other projects	
Measured water level in river	
Informal perceptions of water levels in river	
Amount of recent rainfall	
Potential for future rainfall	
Whether water project is over allocation of self-assessment	
Complaints by members about low flow	
Complaints by members about other members	
Overloading of lines or branches	
Other	

36. What data and information are discussed when you decide to start rationing?? **STARTRAT** (Please check)

Intake readings for project	
Intake readings for entire WRUA or other projects	
Measured water level in river	
Informal perceptions of water levels in river	
Amount of recent rainfall	
Potential for future rainfall	
Whether water project is over allocation of self-assessment	
Complaints by members about low flow	
Complaints by members about other members	
Overloading of lines or branches	
Plans to add new lines or branches	
Other	