Care Taker questionnare: 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:	
2.	District:	
3.	Location: LOC	
4.	Sub-location:	
5.	Ranch: RNCH	6. Group ranch: GRNCH
7.	Village/Locality: VILL	
8.	WRUA	
9.	Scheme name	
10.	Manager number MANNUM	
11.	What is your role with this water scheme? ROLE	
12.	Name of enumerator:	
13.	Date of interview	Day Month Year
14.	Start and end time: STIME / ETIME	Start time End time
15.	Name of supervisor:	
16.	Date supervisor checked SUPCH .	Day Month Year Year
17.	Name of data entry staff	

2013 Laikipia Care Taker Questionnaire -v1- (July 7, 2013)

19.	How many caretakers work for this water project? CARTAKN
20.	Who is responsible for fixing leaks between homestead and line? RESPFIX
21.	How many times/week do you or other caretakers clear debris from the intake or main tank? CLEARTA
22.	In the last year have you disconnected any homesteads from the network? DISCONNH YES NO
23.	When new users want to connect to the network, do you measure what the impact will be on other users? MESIMP YES NO
24.	How do you decide the order of repairs to fix? ORDREP First come, first serve? If lots of problems on one line, fix all of those at one time? From committee
25.	Do households contact you directly or do you get jobs from committee? CONTCT YES NO
26.	Please rank which activities consume your time in a the last year from most time consuming to least time consuming TIMECONS
	Cleaaring debris from intake or tank
	Connecting new households to system
	Fixing leaks in main lines
	Adding new branches
	Responding to complaints from households that their flow is too low
	Other
	Have new lines been added to the network since the origin of the system? NWLINES YES NO Please explain a few cases NWLINESEXP
- •	

29.	Please sketch the li	nes and b	anches of	f your wat	ter projec	t pipe ne	twork SK	ETCH	PIP:		
30	Here let's assume t	here are th	ree main	lines - A	B C wit	h multipl	e branche	s A1 A2	2 A3 B1	B2 C1	C2 what
	are the LINESINF			111,	2, 0		• 0100110110		-, 110, 21	, 22, 01,	C 2 ((1100
	27 1 6										
	Number of users										
	What year was								<u> </u>		
	the line created										
	Size of the pipe										
	N of times p/m										
	you have to fix										
	leaks in the line										

Section 3: Agricultural activities

31. 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												

32. During the following months of the past year, for how many days were your users without irrigation water when they needed it? **WOUT**

				20	2013								
	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Days with													
insufficient water													

	insufficient water													
	Does your associati sponse	on hav	e access	s to a pr	oject ta	nk/resei	rvoir? I	RESER		Yes	□N	о [□No re-	-
34.	If yes, what is this	water m	nostly us	sed for?	RESU	$s \square I$	Oomesti	с 🔲 І	rrigatio	n	Livest	tock [Othe	r:
	Is there a gauge at t GAUGEMES [he mai		ate of y No		tem that		res how	much v	water er	nters the	e main (canal?	
36.	What is the size of	your w	ater pro	oject me	embers'	pipe? P	PIPSIZ							
37.	What is the size of	the int	ake pipe	e from t	he river	to you	r water j	oroject?						
		I	NTAKS	IZEA				INT	AKSI7	ER				

Section 4: Rules

38.	In many water projects there are cases of prohibited activities with the network. For the following: A. tampering with the network TAMPNET
	how often it happened in the last 2 years? none 1-2 times 3-5 times more than 6 who usually reports it? Care taker Committe members project members Other
	B. Irrigating when prohibited IRRPROB
	how often it happened in the last 2 years? none 1-2 times 3-5 times more than 6 who usually reports it? Care taker Committe members project members Other
	who usually reports it. — care taker — committee memoers — project memoers — other
39.	How many people in this area are pumping water directly from the river? DIRPUM None 1 to 5 6-10 11 or more
40.	Can you please describe the last couple cases of illegal tampering with the water network?? ILLTAMP
41.	What happens when people tamper with the water pipes/scheme pipes? TAMPIP Nothing happens Monetary sanctions Pipe is cut off Definitive expulsion from scheme Other sanctions Other