

***Kisasi Sub-Location, Kisasi Location, Chuluni Division
(66 Participants & 2 Non-participants ignored)***

Household Demography

Head of the Household sex (%)

Sex	Participants	Non-participants
Female		
Male		
Total	100.0	100.0

Head of the Household age category

Age bracket	Participants	Non-participants
20 ò years		
20 < years ó 35		
35 < years ó 55		
55 < years ó 70		
70 < years		
not reported		
Total	100.00	100.00

Head of Household level of education

Level	Participants	Non-participants
informal		
primary		
secondary		
tertiary		
not reported		
Total	100.0	100.0

Head of household main occupation (%)

Occupation	Participants		Non-participants	
	Main occupation	Secondary occupation	Main occupation	Secondary occupation
subsistence farmer				
businessman				
regular employment				
wage earner				
other				
not reported				
Total	100.0	100.00	100.0	100.0

Household annual income-% (KShs.)

Income	Participants	Non-participants
10,000 ò income		
10,000 < income ó 30,000		
30,000 < income ó 50,000		
50,000 < income ó 100,000		
100,000 < income		
not reported		
Total	100.0	100.0

Household size(%)

Size	Participants	Non-participants
3 ò members		
3 < members ó 8		
8 < members ó 12		
12 < members		
not reported		
Total	100.0	100.0

Household composition (%)

Composition	Participants	Non-participants
females =males		
females > males		
females < males		
Total	100.0	100.0

Household income sources (%)

	Participants		Non-participants	
	Main	Secondary	Main	Secondary
crop farming				
livestock				
business				
regular employment				
wage earning				
other				
no response				
not reported				
Total	100.0	100.00	100.0	100.0

Income sources contribution (%)

(KShs.)	Participants		Non-participants	
	Main (%)	Second (%)	Main (%)	Second (%)
income ó 10,000				
10,000 < income ó 30,000				
30,000 < income ó 50,000				
50,000 < income ó 100,000				
10,000 < income				
no response				
not reported				
Total	100.0	100.0	100.0	100.0

Household Inventory (Assets)

Number of houses (%)

Number of houses	Participants	Non-participants
one		
two or three		
four or five		
not reported		
Total	100.0	100.0

Main house thatch

Thatch type	Participants	Non-participants
iron sheets		
grass		
Total	100.0	100.0

Main house floor type

	Participants	Non-participants
cemented		
un-cemented		
other		
Total	100.0	100.0

Main house number of rooms

<i>Number of houses</i>	<i>Participants</i>	<i>Non-participants</i>
one room		
two or three		
four or five		
six and more		
not reported		
Total	100.0	100.0

Wall material- main house

Wall material	Participants	Non-participants
brick/mud		
brick/cement		
block/cement		
poll/mud		
Total	100.0	100.0

Household with toilets

	Participants	Non-participants
households with toilets		
households without toilets		
not reported		
Total	100.0	100.0

Other household possessions

Number of chicken and ducks, cows and goats(%)

	Participants			Non-participants		
	Chicken/ducks	Cows	Goats	Chicken/ducks	Cows	Goats
nil						
one						
1 < number ó 5						
5 < number ó 10						
10 < number						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Number of donkeys

	Participants	Non-participants
nil		
0 < donkeys ó 3		
not reported		
Total	100.0	100.0

Number of jembes, spades, mattocks, etc.

	Participants	Non-participants
nil		
0 < jembes ó 5		
5 < jembes ó 10		
10 < jembes		
not reported		
Total	100.0	100.0

Number of Ox-ploughs, Bicycles, carts/wheel barrows, plant machines, Transistor radios, television sets(%)

Participants

	Ox-ploughs	bicycles	carts/wheel barrows	plant machines	radios	TV	motor vehicles
nil							
0 < number ó 3							
3 < number							
not reported							
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Non-Participants

	Ox-ploughs	bicycles	carts/wheel barrows	plant machines	radios	TV	motor vehicles
nil							
0 < number ó 3							
3 < number							
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Land

Land ownership total land rented (acreage)

	Participants		Non-participants	
	owned	rented	owned	rented
5 ò acres				
5 < acres ó 10				
10 < acres				
not reported				
Total	100.0	100.00	100.0	100.0

Main land use (%)

Use	Participants		Non-participants	
	main use	second main use	main use	second main use
homestead				
agriculture				
livestock grazing				
rented out				
not reported				
Total	100.0	100.0	100.0	100.0

Source of energy

Source of energy

	Participants		Non-participants	
	main	second main	main	second main
firewood				
kerosene				
charcoal				
solar				
gas				
not reported				
Total	100.0	100.0	100.0	100.0

Migration

Year of migration

	Participants	Non-participants
1990-1992		
1993-1997		
1998-2001		
not migrated		
Total	100.0	100.0

Nature of migration

	Participants	Non-participants
permanent		
temporary		
not migrated		
Total	100.0	100.0

Place of settlement

	Participants	Non-participants
village		
town		
abroad		
not applicable		
Total	100.0	100.0

Reasons for migration

	Participants	Non-participants
in search of employment		
land inadequacy		
marriage		
not migrated		
Total	100.0	100.0

Daily water use

Daily water use before and after IWSS- litres (Participants)

	<i>Cooking</i>	<i>Washing/cleaning</i>	<i>livestock</i>	<i>Other uses</i>
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					watering			
	Before IWSS	After IWSS	Before IWSS	After IWSS	Before IWSS	After IWSS	Before IWSS	After IWSS
20 ò litres								
20 < litres ó 40								
40 < litres ó 60								
60 < litres ó 80								
80 < litres ó 100								
100 < litres								
not reported								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Daily water use - litres (Non-participants)

	Cooking	Washing/cleaning	livestock watering	Other uses
20 ò litres				
20 < litres ó 40				
40 < litres ó 60				
60 < litres ó 80				
80 < litres ó 100				
100 < litres				
not reported				
Total	100.0	100.0	100.0	100.0

Choice of Water Source: Factor influencing choice of water source:

Participants- dry season

Factor/Percentage	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6
distance						
quality						
quantity						
Multiple use						
Reliability						
No alternative						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Participants- wet season

Factor/Percentage	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6
distance						
quality						
quantity						
Multiple use						
Reliability						
No alternative						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Non-participants- dry season

Factor/Percentage	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6
distance						
quality						
quantity						
Multiple use						
Reliability						
No alternative						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Non-participants- wet season

Factor/Percentage	Rank 1	Rank 2	Rank 3	Rank 4	Rank 5	Rank 6
distance						
quality						
quantity						
Multiple use						
Reliability						
No alternative						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Main Source of Water

Source	Non-Participants		Participants (Before IWSS)		Participants (After IWSS)	
	Dry Season	Wet season	Dry season	Wet season	Dry season	Wet season
river						
piped						
springs						
scoop-hole						
bore-hole						
rock catchment						
roof catchment						
sand dam						
wells						
earth dam						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Depth of scoop holes (ft)

Depth (ft)	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
2 ò depth			
2 < depth ó 5			
5 < depth ó 10			
10 <depth ó15			
15 <depth			
not applicable			
not reported			
Total	100.0	100.0	100.0

Quality of water from main source before and after IWSS

Quality	Non-Participants		Participants (Before IWSS)		Participants (After IWSS)	
	Dry Season	Wet season	Dry season	Wet season	Dry season	Wet season
Clean/clear/good						
Dirty/coloured/bad smell						
Salty						
Other						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Quantity of water from main source before and after IWSS (litres)

Litres	Non-participants		Participants (Before IWSS)		Participants (After IWSS)	
	Dry season	Wet season	Dry season	Wet season	Dry season	Wet season
40 ò quantity						
40 < quantity ó 60						
60 < quantity ó 80						
80 < quantity ó 100						
100 > quantity						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Distance to the main water source before and after IWSS (Km)

Kilometres	Non-participants		Participants (Before IWSS)		Participants (After IWSS)	
	Dry season	Wet season	Dry season	Wet season	Dry season	Wet season
0.5 ò Km						
0.5 < Km ó 2						
2 < Km ó 5						
5 < Km ó 10						
10 < Km ó 15						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Time taken to and from the main water source (hours)

Hours	Non-participants		Participants (Before IWSS)		Participants (After IWSS)	
	Dry season	Wet season	Dry season	Wet season	Dry season	Wet season
0.5 ò hour						
0.5 < hours ó 1						
1 < hours ó 2						
2 < hours ó 5						
10 > hours						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Trips to the main water source in a day

Trips	Non-participants		Participants (Before IWSS)		Participants (After IWSS)	
	Dry season	Wet season	Dry season	Wet season	Dry season	Wet season
One						
two						
three						
four and five						
more than five						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Main water use from the main water source

Main use	Non-participants		Participants (Before IWSS)		Participants (After IWSS)	
	Dry season	Wet season	Dry season	Wet season	Dry season	Wet season
washing/cleaning						
drinking						
general						
cooking						
livestock watering						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Who used to fetch water before and after IWSS?

Who	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
husband			
wife			
boys			
girls			
house-help			
husband/wife			
wife/boys			
wife/girls			
wife/house-help			
boys/girls			
boys/house-help			
wife/Children			
wife/D.I.L			
Total	100.0	100.0	100.0

Means of fetching water (main) before and after IWSS

Means	Non- participants	Participants (Before IWSS)	Participants (After IWSS)
human labour			
donkey			
cart/wheel barrow			
motor vehicle			
human labour/donkey			
human labour/cart/wheel barrow			
donkey/cart/wheelbarrow			
not reported			
Total	100.0	100.0	100.0

General Impact of IWSS (Participants)

	increased	decreased	no change
water			
distance			
disease			
crop farming			
kitchen gardening			
vegetable growing			
livestock watering			
brick making			
bee keeping			
body washing			
clothes washing			
utensil washing			
tree nurseries			
house washing			
terracing			

Water rationing (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
yes			
no			
not reported			
Total	100.0	100.0	100.0

Mode of water rationing before and after IWSS (%)

	Non-participants	Before IWSS	After IWSS
Restricted to a fixed amount of water per day			
Queuing			
other			
not reported			
Total	100.0	100.0	100.0

Accessibility of your nearest dam

	Percent
accessible	
not accessible	
other characteristics	
not reported	
Total	100.0

Satisfied with the sand dam project?

	Percent
Satisfied	
Not satisfied	
not reported	
Total	100.0

Why satisfied?

	Percent
Plenty of water for domestic use	
Farm productivity has increased	
Increased water for watering animals	
Water helped in construction of houses	
Reduced distances to water source	
Other reasons	
Not reported	
Total	100.0

If not satisfied, why?

	Percent
No opportunity for multiple use	
The well dries up in the dry season	
The water is not clean	
The well is too shallow	
Other reasons	
Not reported	
Total	100.0

Shift from the traditional water source?

	Percent
Shifted	
Not shifted	
No response	
Not reported	
Total	100.0

If not shifted, reason

	Percent
Traditional water source nearer	
No opportunity for multiple use	
the well dries up in dry season	
water not clean	
other	
no response	
not reported	
Total	100.0

Participants-Sanitation before/after IWSS

Per week	Clothe washing		Body washing		Utensil washing		House washing	
	Before IWSS	After IWSS	Before IWSS	After IWSS	Before IWSS	After IWSS	Before IWSS	After IWSS
daily								
once								
twice								
thrice								
rarely								
when dirty								
never used to/doesn't								
not applicable/no response								
not reported								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Non-participants: Sanitation

Per week	Clothe washing	Body washing	Utensil washing
daily			
once			
twice			
thrice			
rarely			
when dirty			
doesn't			
not applicable			
not reported			
Total	100.0	100.0	100.0

Protection of water points before and after IWSS

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
fencing			
covering well with lid			
watchman			
no protection			
not applicable			
local arrangements			
not reported			
Total	100.0	100.0	100.0

Soil conservation

Terracing before and after IWSS (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
nil			
0 < number ó 3			
3 < number ó 5			
5 < number ó 10			
10 < number			
not reported			
Total	100.0	100.0	100.0

Tree planting before and after IWSS (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
nil			
0 < number ó 5			
5 < number ó 10			
10 < number ó 50			
50 < number			
not reported			
Total	100.0	100.0	100.0

Gabions before and after IWSS (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
nil			
0 < number ó 5			
5 < number ó 10			
10 < number			
not reported			
Total	100.0	100.0	100.0

Misonzo before and after IWSS (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
nil			
0 < number ó 5			
5 < number ó 10			
10 < number			
no response			
not reported			
Total	100.0	100.0	100.0

Grass planting before and after IWSS (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
Yes			
No			
no response			
Not reported			
Total	100.0	100.0	100.0

Waterborne diseases mitigation measures

Boiling (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
Boil drinking water			
not reported			
Total	100.0	100.0	100.0

Chemicals application before and after IWSS (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
Treat drinking water with chemicals			
not reported			
Total	100.0	100.0	100.0

Clean/clear compound/bushes before and after IWSS (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)

clean/clear compound			
not reported			
Total	100.0	100.0	100.0

Dry stagnant waters before and after IWSS (%)

	Before IWSS	After IWSS
Dry stagnant water		
not reported		
Total	100.0	100.0

Inoculation before and after IWSS (%)

	Non-participants	Participants (Before IWSS)	Participants (After IWSS)
Inoculation			
not reported			
Total	100.0	100.0	100.0

Eating well cooked food before and after IWSS (%)

	Before IWSS	After IWSS
well cooked food		
not reported		
Total	100.0	100.0

Use of mosquito nets food before and after IWSS (%)

	Before IWSS	After IWSS
Using nets		
not reported		
Total	100.0	100.0

Observing cleanliness of utensils before and after IWSS (%)

	Non-participants	Participants	
		Before IWSS	After IWSS
Utensil cleanliness			
not reported			
Total	100.0	100.0	100.0

Mode of choosing water source committee members/dam committee members

Participants:

	Participants (Dam committee)			
	Nomination	Election	Selection	Other mode
Yes				

Non-Participants:

	Non-participants			
	Nomination	Election	Selection	Other mode
Yes				

Participants:

By whom	Participants (Dam committee)			
	Nomination	Election	Selection	Other mode

not reported				
community				
provincial administration				
political leaders				
dam members				
Other				
Total	100.0	100.0	100.0	100.0

Non-participants:

By whom	Participants (Dam committee)			
	Nomination	Election	Selection	Other mode
not reported				
community				
provincial administration				
political leaders				
dam members				
Other				
Total	100.0	100.0	100.0	100.0

Participants: Duration in office- dam committee

	Percent
not reported	
one month	
half-year	
one year	
two years	
not stated	
indefinitely	
no response	
Total	100.0

Non-participants: Duration in office- committee

	Percent
not reported	
one month	
half-year	
one year	
two years	
not stated	
indefinitely	
no response	
Total	100.0

Participants: Factored considered when choosing dam committee member

<i>Factor</i>	<i>Considered</i>
honesty	
transparency	
trustworthy	
respectable	
religious	
social	
ability to lead	
hard working	
faithful	
active	
commitment	
age/experience	
good in communication	
maturity	
participation	
availability	
wealth	
other aspect	

Impact of dam committee in regard to:

<i>Factor</i>	<i>Positive</i>	<i>Negative</i>	<i>no impact</i>
age			
religion			
political party affiliation			
wealth			
gender			

Community give people who have not had opportunity to lead a chance to lead

	Non-participants	Participants
yes		
no		
no response		
not reported		
Total	100.0	100.0

Linkage between dam and other committees?

	Non-participants	Participants
yes		
no		
not reported		
Total	100.0	100.0

If yes to linkage, how?

	Non-participants	Participants
considering community committee members in dam committee		
dam committee members considered in other community committee		
no response		
not reported		
Total	100.0	100.0

Participants: Other general benefits derived from IWSS

	Percent
yes	
no	
not reported	
Total	100.0

Non-participants: Member of any community group?

	Percent
no response	
yes	
no	
Total	100.0

Participants: If yes benefits yes

Non-participants: If a member of community group- benefits

	participants	non-participants
advice from older people to young members of the society		
community members interact freely while working together		
women contribute to a fund to uplift their welfare		
community formed groups for planting vegetables and seedlings for sale		
formation of groups to help in harvesting/terracing and other undertakings		
making new friends		
other		

Influence of development agenda by community

	Non-participants	Participants
yes		
no		
not reported		
Total	100.0	100.0

If influence yes, how:

How	Non-participants	Participants

the community is free to express its interests during development meeting		
before any law/bylaw/rule is passed		
people community is consulted		
done through <i>barazas</i> whereby members air their views freely		
through consultation with those concerned		
involved when discussing development ideas		
headman (administrators) consults with the people and forwards their views		
chairpersons of groups, headmen and other leaders consulted through formation of groups		
any other way		

Participants: Impact of increased water after IWSS:

	improved	declined	the same
health			
cleanliness			
leisure			
girl-child school absenteeism			
boy-child school absenteeism			
girl-child school punctuality			
boy-child school punctuality			
cooking at the right time			

Non-participants: impact of water availability on the following:

	positive	negative	no effect
health			
cleanliness			
leisure			
girl-child school absenteeism			
boy-child school absenteeism			
girl-child school punctuality			
boy-child school punctuality			
cooking at the right time			

Non-participants: Impact of water scarcity on the following:

	positive	negative	no impact
health			
cleanliness			
leisure			
girl-child school absenteeism			
boy-child school absenteeism			
girl-child school punctuality			
boy-child school punctuality			
cooking at the right time			

Participants: Increase in water impact

	improved	declined	the same
security			
pregnancy rates			
community cohesiveness			
marriage rates			

Non-participants: water availability impact on the following

	positive	negative	no impact
security			
pregnancy rates			
community cohesiveness			
marriage rates			

Non-participants: water scarcity impact on the following

	positive	negative	no impact
security			
pregnancy rates			
community cohesiveness			
marriage rates			

Is trekking long distances by girls regarded as good?

	Non-participants	Participants
good		
bad		
no response		
not reported		
Total	100.0	100.0

bad

	Non-participants	Participants
tiring		
compromise other household duties		
develop irresponsible behaviour- early pregnancies/marriages		
leads to school absenteeism/lateness		
not generally safe		
other reason		

good

	Non-participants	Participants
body exercise and good health		
test of adulthood- could take care of themselves		
other reason		

Impact of the project in relation to trek (Participants)

	percent
time	
absenteeism/lateness in school improved	
school drop out rates lowered	

improved security of girls	
increased time for leisure	
distance to water source reduced	
other impact	
no impact	

Hours of sleep

	Non-participants		Participants (Before IWSS)		Participants (After IWSS)	
	dry season	wet season	dry season	wet season	dry season	wet season
2 ò hours						
2 < hours ó 4						
4 < hours ó 6						
6 < hours ó 8						
8 < hours						
not reported						
Total	100.0	100.0	100.0	100.0	100.0	100.0

Whom do you consult before participating in community projects (sand dam project)

	Non-participants	Participants
husband (in the household)		
husband (elsewhere)		
wife (in the household)		
wife (elsewhere)		
friends		
local administration (headman/Ass. Chief/Chief)		
none		
religious leaders		
other		
not reported		
Total	100.0	100.0

Economic activities (%):

Mentioned	Non-participants	Participant (Before IWSS)	Participant (After IWSS)
agriculture			
goat/sheep			
cattle			
vegetable growing			
kitchen gardening			
brick making			
tree nurseries			
bee keeping			

New crops/activities introduced after IWSS:

New crop/activity	Percent
spinach growing	
vegetable growing	
fish	

<i>sukuma wiki</i>	
onions	
tomatoes	
<i>ndania</i>	
sugar cane	
arrow roots	
fruits	
other crop	

Contribution of the following activities after IWSS (KShs)

Activity	5000 value	5000<value≤10000	10000<value≤50000	50000<value≤100000	10,000<value
agriculture					
goats/sheep					
cattle					
vegetable growing					
kitchen gardening					
brick making					
tree nurseries					
bee keeping					
sugar cane					
business					

Indirect benefits:

	mentioned (%)
increased land value	
increased livestock reproduction rates	
able to pay school fees- increased income	
able to cloth the family- increased income	
increased land productivity- increased water and terracing	
soil fertility- tree planting and terracing	
reduced cost of buying salt lick for animals	
vegetables- plenty and cheap	
increased sand for construction	
other benefit	

Whether IWSS has served as incentive to people to buy/lease land

	Percent
attracted- total	
leased land to cultivate	
paid sand dam fees before leasing the land	

Use of time saved from walking long distances:

	Percent
<i>Shamba work</i>	
taking care of livestock	
making bricks	
kitchen gardening	
tending tree nursery	

business	
leisure	
other activities	

Contribution of the activity undertaken owing to increased time availability (KShs):

	Shamba work	tending livestock	making bricks	kitchen gardening	tending tree nursery	business	other activities
500 ò value							
500 < value ó 1,000							
1000 < value ó 5,000							
5,000 < value ó 10,000							
10,000 < value							

Cost of water per 20 litre jerrican (KShs)

	Dry season			Wet season		
	Non-participants	Participants		Non-participants	Participants	
		Before IWSS	After IWSS		Before IWSS	After IWSS
5 ò shillings						
5 < shillings ó 10						
10 < shillings ó 15						
15 < shillings ó 20						
20 < shillings						

Controlled measure

Measure	Non-participants	Participants
covering the well with a lid		
washing of clothes not allowed in the IWSS		
only participants are allowed		
planting of grass to check erosion		
children not allowed to play near the IWSS		
other control/plan (eg. prayers)		

If not controlled, why?

Why	Non-participants	Participants
it is a public/natural resource		
participants are responsible people- respect their efforts		
other reason		

Pollution penalties/action(%)

Participants:

Type of pollution	pays fine	report to dam committee	report to provincial administration	report to Sasol	warning/ cautioned	excommunicated
washing inside the dam/well						
washing clothes inside the dam/well						
watering animals in the dam/well						

spraying vegetables/crops chemicals around the dam/well						
defecating/urinating near the dam/well						
dropping objects in the source						

Non-participants:

Type of pollution	pays fine	report to source committee	report to provincial administration	warning/cautioned	excommunicated
washing inside the dam/well					
washing clothes inside the dam/well					
watering animals in the dam/well					
spraying vegetables/crops chemicals around the dam/well					
defecating/urinating near the dam/well					
dropping objects in the source					

Who is responsible for operation and maintenance of your water resource (Sand dam/well)

	Non-participants	Participants
dam/source committee members		
chairperson of the dam committee		
provincial administration		
community		
watchman		
no body/party		
no maintenance required		
owner		
Sasol/other NGO		
other		
not reported		
Total	100.0	100.0

Source of funds for operation and maintenance of the IWSS if applicable

	Non-participants	Participants
dam committee members		
chairperson of the dam committee		
provincial administration		
community		
politicians		
no funds needed		
sasol		
other		
not reported		

Total	100.0	100.0
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Operation and maintenance contribution by households if applicable (KShs)

	Non-participants	Participants
25 ò KShs.		
25 < KShs ó 50		
50 < KShs ó 75		
75< KShs ó 100		
100 < KShs		
in kind (labour)		
no funds needed		
not reported		
Total	100.0	100.0

Frequency of dam/source committee meetings

	Non-participants	Participants
monthly		
once/three months		
never meet		
when there is need		
other		
no committee reported		
not reported		
Total	100.0	100.0

Control over family resources:

	Income			Labour			Expenditure		
	NP	P		NP	P		NP	P	
		Before IWSS	After IWSS		Before IWSS	After IWSS		Before IWSS	After IWSS
husband									
wife									
husband/wife									
children									
father/mother-in-law									
boys									
girls									
other									

Impact of increased family income to family unit

	Percent
positive	
negative	
the same	
no response	
not reported	
Total	100.0

Has increased incomes/opportunities led to conflict at:

	Percent
at family level not reported	

at community level not reported	100.0
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Laid down conditions for joining IWSS to non-participants: pays fees (KShs)

	Percent
100 ò KShs	
100 < KShs ó 200	
200 < KShs ó 500	
500 < KShs ó 1,000	
1,000 < KShs	
not fixed	
not reported	
Total	100.0

Laid down conditions for joining IWSS to non-participants: fines in kind

	Percent
sheep	
goat	
cow	
other	
no response	
not reported	
Total	100.0

Value household attach to their water source

	Non-participants	Participants
500 ò KShs		
500 < KShs ó 1,000		
1,000 < KShs ó 5,000		
5,000 < KShs ó 10,000		
10,000 < KShs		
not acceptable (invaluable)		
not reported		
Total	100.0	100.0

Willingness to pay for improved water resource

	Non-participants	Participants
500 ò KShs		
500 < KShs ó 1,000		
1,000 < KShs ó 5,000		
5,000 < KShs ó 10,000		
10,000 < KShs		
not reported		
Total	100.0	100.0

Suppose you perceive wrong committee management (dam committee), what measure would you take?

	Participants	Non-participants

report to chair/person		
report to provincial administration		
quit the source		
report to SASOL		
question the dam committee		
alert other members and ask for a meeting		
advise the management accordingly		
request management to quit office		
other		
not reported		
Total	100.0	100.0

Willingness to take up leadership position

	Participants	Non-participants
willing to up leadership position		
not willing to lead		
not reported		
Total	100.0	100.0

Ownership of water resource (sand dam):

	Non-participants		Participants	
	True	False	True	False
community				
individual				
government				
schools				
KANU				
SASOL/ NGOs				
SDP				
Christians				
<i>Kathambi</i>				
other				

Why own the water resource (sand dam): Reasons

	community participated		it is a natural resource		sponsored		other	
	NP	P	NP	P	NP	P	NP	P
community								
individual								
government								
schools								
KANU								
SASOL/ NGOs								
SDP								
Christians								
<i>Kathambi</i>								
other								

Suppose somebody started demolishing your water resource (sand dam), what action would you take (%):

	Non-participants	Participants
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	As an individual	As a member of the community	As an individual	As a member of the community
ask him/her why				
report to dam/source committee chairperson				
report to other members				
report to the head man				
report to the provincial administration				
report to SASOL/sponsor				
report to the police				
beat up the person				
banish him/her				
use force to stop him/her				
no action				
other				
no response				
Total	100.0	100.0	100.0	100.0

Any other comment

	Non-participants	Participants
more dams needed		
congratulations- SASOL		
sand dams are beneficial- increased incomes		
satisfied with the location		
sand dam too far, water source near home required		
need IWSS		
water source near home required		
no comment		
not reported		
Total	100.00	100.0